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Golder Associates
CONSULTING GEOTECHNICAL AND MINING ENGINEERS

FINAL REPORT TO
STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

PHASE I REMEDIAL INVESTIGATION OF THE NORTH MARKET STREET SITE SPOKANE, WASHINGTON

VOLUME II

APPENDIX A: WELL LOGS INCLUDED IN THE WELL INVENTORY

APPENDIX B: WATER QUALITY DATA

Distribution:

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October 1985

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MASTER WELL LIST

GAI Well Number (Water Qual. No.)	T.26N. R.,43W. Section	Information in Appendix
1	16	b(b)
2	28	b(b)
3	28	(b)
4(6328Q)	28	b
5	28	a
6	28	b
7	28	a(a)
8	27	a
9(2327E)	27	b
10	27	b
11	27	b
12	23	b
13	22	b
14	22	b
15	22	b
16	22	b
17	22	b
18	22	b
19	22	b
20	22	b
21	22	b
22	22	b
23	22	b
24	22	b
25	21	b
26	21	b
27	35	b
28	35	b
*		
30	35	b
31	34	
32	34	b
33	34	b
34	34	b
35	33	b
36	28	b
37	27	a
38	27	a
39	27	a
40	26	b
41	26	b
42	26	b
*		
44	23	b
45	22	b
46	22	b
47	22	b
48	22	b

MASTER WELL LIST (Continued)

GAI Well Number (Water Qual. No.)	T.26N. R.,43W. Section	Information in Appendix
49(6321F)	21	a
50	21	b
51	21	b
52	21	b
53	22	a
54	22	b
*		
56	18	b(b)
*		
58	17	b(b)
59	17	b(b)
60	17	b
61	16	b(b)
62	16	b(b)
63	16	b
64	16	b
65(6316F)	16	b
66	16	b(b)
*		
68	16	b(b)
69	16	b
70	15	b
71	15	b
72	15	b
73	14	b
75	13	b
76	13	b
77	12	b
78	12	b
79	11	b
80	11	b
81	11	b
82	11	b
83	11	b
84(6310L)	10	b
85	9	b
86	8	b
87	8	b
88	4	b
89	3	b
90	3	b
91	3	b
92(6303P)	3	b
93(6303N)	3	b
94	2	b
95	23	b
96	23	b
97	23	b
98	23	b
99	23	b
100	23	b

MASTER WELL LIST (Continued)

GAI Well Number (Water Qual. No.)	T.26N. R.,43W. Section	Information in Appendix
101	23	b
102	23	b
103	23	b
*		
105	15	b
106	15	b
107	15	b
108	14	b
*		
110	36	b
111	36	b
112	36	b
113	36	b
*		
115	36	b
116	36	b
117	35	b
118	31	b
119	31	b
120(6330E)	30	b(b)
121	30	a
122	30	a(a)
*		
124	26	b
125	26	b
126	26	b
127	25	b
128	25	b
129	24	b
130	24	b
131	24	b
*		
133	23	b
134	20	b
135	20	b
136(6320D)	20	b(b)
137	20	a
138	19	a
139	19	a
140	19	a
141	19	a
142	19	a
143	19	a
144	19	a(a)
145(6319D)	19	b(b)
146(6319A)	19	a
*		
148	15	b
149(6317G)	7	b
150(6307P)	7	b(b)

MASTER WELL LIST (Continued)

GAI Well Number (Water Qual. No.)	T.26N. R.,43W. Section	Information in Appendix
*		
155	11	(b)
156	20	(b)
157	20	(b)
158	24	(b)
159	24	(b)
160	16	(b)
161	16	(b)
GA1	22	none
GA2	22	none
GA3	22	none
GA4	22	none
GA5	27	none
GA6	27	none
GA7	27	none
GA8	21	none
GA9	20	none
GA10	28	none
GA11	27	none
GA12	26	none
GA13	35	none
GA14	4(T25N)	a
GA15	32	none
GA16	19	none
*		
GA19	32(T27N)	b
GA20	31	(a)
GA21	4(T25N)	a
GA22	28	none
*		
GA24	2	(a)
*		
GA26	2	(a)
GA27	2	(a)
GA28	3	(a)
*		
GA30	7	(a)
GA31	8	(a)
GA32	8	(a)
GA33	8	(a)
GA34	11	(a)
GA35	11	(a)
GA36	11	(a)
GA37	11	(a)
GA38	11	(a)
GA39	11	(a)
GA40	12	(a)
GA41	12	(b)
GA42	12	(a)
GA43	13	(a)

MASTER WELL LIST (Continued)

GAI Well Number (Water Qual. No.)	T.26N. R.,43W. Section	Information in Appendix
GA44	13	(a)
GA45	13	(a)
GA46	14	(a)
GA47	23	(a)
GA48	23	(a)
GA49	23	(a)
GA50	23	(a)
GA51	24	(a)
GA52	24	(a)
GA53	24	(a)
*		
GA55	24	(a)
GA56	24	(a)
GA57	24	(a)
GA58	24	(a)
GA59	24	(a)
GA60	24	(a)
GA61	24	(a)
GA62	25	(a)
GA63	25	(a)
GA64	25	(a)
GA65	25	(a)
GA66	25	(a)
GA67	25	(a)
GA68	25	(a)
GA69	30	(a)
GA70	7	a
(6305N)	8	a
(6307K01)	7	a
(6310K)	10	a
(6320N)	20	none
(6327A)	27	none
(6327H)	27	a
(6330R)	30	none

a Depth and static water level only. Information from well logs.

(a) Depth and static water level only. Information from Washington Water Supply Bulletin No. 27, 1969.

b Depth, static water level, and geology. Information from domestic well logs.

(b) Depth, static water level, and geology. Information from Washington Water Supply Bulletin No. 27, 1969.

[b] Depth, static water level, and geology. Information from Hart-Crowser test well logs for Kaiser-Mead.

* Numbering sequence broken because of duplicate well logs.

APPENDIX A

WELL LOGS INCLUDED IN WELL INVENTORY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON Well No. 26/43-16G1
(Status as of Nov. 24 1942)

OWNER: Bonneville Power Adm ADDRESS Mead, Wash.

LOCATION: County Spokane SW ¼ NE ¼ sec. 16 T. 26 N., R. 43 (E) W.

LAND SURFACE DATUM: 1942.3 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date Oct. 1942 Depth 556 feet.

CASING: Depth 345.8 feet, Diameter 10 inches, Finish Perforated (see below)

CHIEF AQUIFER: Sand from feet, to feet.
Others

WATER LEVEL: 154 feet Reptx, Meas. 19
~~above~~ below natural ground surface ~~thickxdex~~ feet ~~above~~ below ~~surface~~

PUMP: Type H. P.

YIELD OF WELL: Flow gpm. Pump gpm. Meas. Rept. Est.
Drawdown feet after hours pumping gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS:

WELL LOG, from Russell S. Allen, Asst. Eng.

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Sand, fine & silty	161	161	Casing: 10 inch A.P.I. 35.75 ft.		0-345.8
Gravel, water-bearing	3	164			
Sand, fine	13	177	Perforations: 4 way rotary as follows:		
Clay, blue	16	193	163 to 178: 181 to 190:	203 to 218:	
Gravel, water-bearing	7	200	224 to 242: 247 to 263:	268 to 284:	
Sand, fine	42	242	288 to 304		
Sand, water-bearing	9	251			
Sand, fine, water-bearing	21	272			
Sand & clay, hard & packed	23	295	Supply inadequate; not used.		
Clay	15	310			
Clay, hard	21	331			
Gravel, coarse	1	332			
Clay, hard	156	488			
Rock with crevices	25	213			
Rock (Wanapum)	[illegible]	[illegible]			

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. Appl1. 4077

Date Nov. 6, 1955

Record by Claude C. Calkins

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

NW ¼SW ¼ sec. 28 T26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Oliver F. Zinkgrof

Address E 1606 Sharp Ave. Spokane, Wn.

Method of Drilling Dug Date Jan 7, 1956

Owner C. C. Calkins

Address 123 W. 40th Spokane, Wn.

Land surface, datum ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Top Soil	3	3
	Sand-loose & fine mixture	12	15
	Sand-loose & fine with gravel "packed"	32	47
	Sand-loose & fine	38	85
	Sand packed with clay	5	90
	Coarse sand & small gravel	56	146
	Sand coarse to fine	49	195
	Sand fine & packed	5	200
	Sand fine & packed changing to muck	4	204
	Sticky muck & clay-first water level 205	1	205
	Sticky muck & clay w/clay at 207	2	207

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ____ of ____ sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Permit 4129

No. Appl. 4180

WELL LOG

Date January 17, 1958, 19

Record by well driller

Source

Location: State of WASHINGTON

County Spokane

Area

Map

NW ¼ NW ¼ sec 28 T. 26 N., R. 43 E.

Diagram of Section

Drilling Co. Reeder Construction Co.

Address

Method of Drilling Date, 19

Owner C.C. Calkins

Address 123 W. 140th, Spokane, Washington

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	Fine sand, w/some course sand strata	235	235
	Silt & clay seams	8	243
	Fine sand carrying water	7	250
	Hard clay	5	255
	Fine sand carrying water	9	264
	Hard clay	3	267
	Course sand and gravel w/water	6	273
	Dry fine sand & clay, no water	8	281
	Hard clay	3	284
	Course sand & gravel w/water	5	289
	Hard clay	2	291
	Course sand & gravel w/water	11	302
	Hard dry clay	8	310
	PUMP TEST: Dim: 310' x 26", 30", 19"		
	SWL: 198' Dd: 9' at 1250 gpm		
	Pump: 125 Hp deep well turbine		
	Recovery: instantly (over)		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet of sheets

26N/43E 28D

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

265

4

6328Q

(1) OWNER: Name ..... Address ARLINGTON DRIVE

(2) LOCATION OF WELL: County ..... SE ¼ SE ¼ Sec 28 T 26 N., R 43 W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 6
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 274 ft. Depth of completed well 274 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 10" Diam. from 0 ft. to 18 ft. PULLED
Threaded ☐ 6" Diam. from 0 ft. to 274 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal BENTONITE & CEMENT
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level ..... ft.
Static level 220 ft. below top of well Date 4-12-77
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by .....
(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test 50 gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date 4-12-77
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
SAND	0'	231'
GRAVEL (¼")	231'	235'
SAND	235'	255'
QUICK SAND	255'	274'
HOLE DEPTH		
274'-4"		
CASING		
274'-4" DRIVE SHOE		
WATER - RATED AT		
50 G.P.M		
Spokane NE 7½		
Flat		
47 42 57 117 22 15 (E)		

Work started 4-8-77, 19.... Completed 4-12, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME K. C. KANE WELL DRILLING (Person, firm, or corporation) (Type or print)

Address P.O. BOX 5249 SPOKANE

[Signed] Steven L. Allbery (Well Driller)

License No. 4 Date 4-14, 1977

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Decla. #675
Cert. #677-D

Date 1909, 19

Record by M. L. Dickens

Source G. W. Decla. Claim

Location: State of WASHINGTON

County Spokane

Area

Map

SE ¼ NE ¼ sec. 28 T 26 N., R 43 E. W

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling dug Date 19

Owner M. L. Dickens

Address Spokane, Wash.

Land surface, datum ft. above below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand, gravel, quick sand		
Pump	Test:		
	Dim: 254' x 6' (reduced to 3')		
	SWL: 189'		
	Dd: 65'		
	Yield: 1000 g.p.m. (Claim)		
	Pump: Pomona, 1000 g.p.m.		
	Motor: 100 hp, electric		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet of sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

A 751

WELL LOG

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

NE ¼ SE ¼ sec. 28 T. 26 N., R. 43 E. W.M.

Diagram of Section

Drilling Co. E. A. Holman Drilling Co.

Address 601 S. Pines Rd, Spokane, WA

Method of Drilling Date 2/17-4/1, 1969

Owner North Spokane Irrigation Dist. #8

Address East P601, Francis, Spokane, WA

Land surface, datum ft. above below

SWL: 190' Date April 1, 1969 Dims. 16" X 375'

Correlation	Material	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Sand & Silt, Brown	0	55
	Sand, Gray, Clean	55	80
	Clay Layers, Brown & Gray	80	90
	Sand, Brown & Gray, Some Gravel 2" minus	90	95
	Clay, Brown	95	96
	Sand, Brown & Gray	96	120
	Sand & Gravel 1½" minus	120	145
	Gravel, Large, 6" minus	145	146
	Sand, Brown	146	180
	Sand, Brown, Tight with silt 190 - water	180	190
	Sand & Gravel 1/11" minus	190	210
	Clay, Blue	210	215
	Continued		

Sheet ..... of ..... sheets

Turn up

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT Appli. #7577

WELL NO. 2
WELL LOG

No...../.....

Date.....Oct.....19.., 19.65.

Record by.....Walter Woodward.....

Source.....Driller's Record.....

Location: State of WASHINGTON

County.....Spokane.....

Area.....1999' S and 91' W of NE.....

Map.....corner of Sec. 28.....

SE ¼ NE ¼ sec. 28 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co.....Data by Walter Woodward.....

Address.....

Method of Drilling.....Dug..... Date....., 1923..

Owner.....North Spokane Irrigation District No. 8

Address....N. 7305 Regal (well); E 2601 Francis Ave Spokane, Wn

Land surface, datum.....ft. above below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Domestic, irrigation, industrial and municipal use		
	DIMS: 96" x 250'		
	NO LOG, OLD WELL		
	SWL: 190' on 5/2/64		
	Pump: 100 h.p. Pamona 1000 GPM Deepwell turbine 6 stage 8" closed		

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STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL NO. 1 (1906) Appli. #7576
WELL LOG No. Permit #7215

Date Oct. 21, 1965
Record by Walter Woodward
Source Driller's Record

Location: State of WASHINGTON
County Spokane
Area 2013' S and 77' E of
Map NW corner of Section 27
SW ¼ NW ¼ sec. 27 T 26 N., R. 43 E/W

Diagram of Section

Drilling Co. Data by Walter Woodward
Address
Method of Drilling Dug Date 1906
Owner North Spokane Irrigation District No. 8
Address North 7305 Regal Street, Spokane, Wn.
Land surface, datum ft above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Domestic, industrial, irrigation and municipal use		
	DIMS: 16" x 263'		
	NO LOG - OLD WELL		
	Casing: 2-16" from 0-232'		
	2-16" from 252-264'		
	Screen set from 232 to 252'		
	231 to 251'		
	Gravel packed from 0-237'		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Sheet ..... of ..... sheets

Turn up

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

9

6327E?

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SE ¼ NW ¼ Sec. 27 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 280 ft. Depth of completed well 280 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 90 ft.
Threaded ☐ 4" Diam. from -6 ft. to 280 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 5+ gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

4/31/79

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
sand	0	10
gravel	10	90
granite med to soft 3/4-1 mpf	90	180
granite 2 mpf	180	280

RECEIVED
APR 31 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 4/11, 1979. Completed 4/13, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, WA 99026

[Signed] Gary Bartholomew (Well Driller)

License No. 0051 Date April 27, 1979

534 - 3248

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 10

Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ ¼ Sec. 27 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☑ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☑ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 180 ft. Depth of completed well 180 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 172 ft.

Threaded ☐ ..." Diam. from ... ft. to ... ft.

Welded ☑ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☐ No ☑

Type of perforator used

SIZE of perforations ... in. by ... in.

... perforations from ... ft. to ... ft.

... perforations from ... ft. to ... ft.

... perforations from ... ft. to ... ft.

Screens: Yes ☑ No ☐

Manufacturer's Name Hydraulic

Type P.V.C Model No.

Diam. 5 Slot size .050 from 170 ft. to 182 ft.

Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:

Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☑ No ☐ To what depth? 22 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1990 ft.

Static level 155 ft. below top of well Date 6-10-69

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☑ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 15 gal./min. with 0 ft. drawdown after 4 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
SAND GRAVEL	0	165
GRAVEL water	165	170
GRAVEL & Cobbles water	170	180

RECEIVED
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 6-1, 1969. Completed 6-10, 1969

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Spokane Drilling Co (Person, firm, or corporation) (Type or print)

Address E. 2710 Garland

[Signed] George C. Ray (Well Driller)

License No. 0408 Date 4-30, 1980

5/2/80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

No. Decla. #674
Cert. #676-D

WELL LOG

Date 1909, 19

Record by (b) (6) [redacted]

Source (b) (6) [redacted]

Location: State of WASHINGTON

County Spokane

xxx Colborn & Morgan's Park

xxx Lot 20, Block 1

___ ¼ ___ ¼ sec. 27 T. 26 N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling drilled Date 19

Owner (b) (6) [redacted]

Address Spokane, Wash.

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand, gravel & quick-sand		
Pump Test:			
	Dim: 254' x 6" (reduced to 3')		
	SWL: 189'		
	Dd: 65'		
	Yield: 1000 g.p.m. (Claim)		
	Pump: Pomona, 1000 g.p.m.		
	Motor: 100 hp, electric		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Sheet ___ of ___ sheets

Turn up

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

12

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — ¼ NW ¼ Sec 23 T. 26 N., R 43 E W.M.

Bearing and distance from section or subdivision corner Lot #9 Mount St. Michaels

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☑ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 255 ft. Depth of completed well 255 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 142.5 ft.

P.V.C. ~~Threaded~~ ☐ 4 " Diam. from 112 ft. to 256 ft.

Welded ☑ glued PVC from ft. to ft.

Perforations: Yes ☑ No ☐ P.V.C. was sawed

Type of perforator used vertically thin blade

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name unknown

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2335 ft.

Static level 236 ft. below top of well Date 8-9-79

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☑ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	3
Clay	3	21
Basalt rock	21	52
Sand	52	70
yellow sand with clay	70	140
yellow clay	140	150
Brown clay	150	151
yellow clay	151	155
Brown clay, hard	155	175
Sand, hard	175	200
Brown clay, hard	200	247
Wood, water	247	255

NOTE:

Air tested at approx 15 G.P.M. at time of drilling

Draw down unestablished

RECEIVED RECEIVED

AUG 20 1979 AUG 20 1979

DEPARTMENT OF ECOLOGY SPOKANE REGIONAL OFFICE DEPARTMENT OF ECOLOGY SPOKANE REGIONAL OFFICE

Work started Aug 3 1979 Completed Aug 9 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address East 2915 Lincoln Rd Spokane, Wa 99

[Signed] Andrew Fisher (Well Driller)

License No. 0132 Date August 13 1979

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No 13

Permit No

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane, a portion of SE ¼ SE ¼ Sec. 22 T26 N., R43E W.M.

Bearing and distance from section or subdivision corner Mt. St. Micheals lot # 30

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☑ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" to 6" inches.

Drilled 650 ft. Depth of completed well 650 ft.

(6) CONSTRUCTION DETAILS: Drilled 10" to 60 ft 6" 125- 650

Casing installed: 8" Diam. from +1 ft. to 99 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☑ " Diam. from ft. to ft.

Drilled 8" from 60- 125 ft

Perforations: Yes ☐ No ☑

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☑

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☑

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.

Static level 140 ft. below top of well Date 11-14-83

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☑ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☑

2/2/84

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil, ashy	0	7
Fine sand & clay	7	36
Basalt, firm to boulder type	36	80
Gravel & granite boulders	80	100
Granite	100	225
Granite but softer	225	250
Granite, firm & broken	250	327
Water (2 g.p.m.)	325	
Granite, softer	327	331
Granite	331	490
Granite but softer	490	520
Granite	520	530
Granite soft spot 5 G.P.M.	530	
Granite	530	592
Granite soft spot	592	594
Granite	594	605
Open hole hammer quit working	605	605
Granite real soft 10 G.P.M.	605	608
Granite, greenish, soft came out chunky	608	650
Blew 2 hours		
Yield at time of drilling approx 10 G.P.M.		
Draw down unestablished		
S.W.L. 140 ft.		

RECEIVED
FEB 2 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Nov 7 1983 Completed Nov 11 1983

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address E 2915 Lincoln 3d Spokane Wa 99207

[Signed] Fred Fisher (Well Driller)

License No. 0132 Date 11-18-83

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. **14**

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — N ¼ SE ¼ Sec 22 T 26 N., R 43 E WM.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 207 ft. Depth of completed well 207 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 174 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.

Static level 118 ft. below top of well Date 3-10-74

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 2 gal./min. with 207 ft. drawdown after 2 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown, sand, gravel	0'	40'
Blue, Decomp, soft, granite	40'	168'
Blue, Decomp, Med. Hard, granite aquifer	168'	207'

Work started 3-4 1974 Completed 3-10 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Spokane Drilling Co. (Person, firm, or corporation) (Type or print)

Address E 2710 Garland

[Signed] (Well Driller)

License No. 0034 Date 4-4 1974

S. F. No. 7334—OS—(Rev. 4-71) 4/4/74 USE SHEET IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application Permit No. 15

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NW¼ NW¼ Sec. 22 T. 26 N., R. 43 WM.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 230 ft. Depth of completed well 230 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 151 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 140 ft. below top of well Date 5-23-74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Work started 5-21, 19 74 Completed 5-22, 19 74

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME [illegible] (Person, firm, or corporation) (Type or print)
Address [illegible]
[Signed] [illegible] (Well Driller)
License No. [illegible] Date [illegible], 19 74

S. F. No. 1356—OS—(Rev. 4-71). 4/22/75 (ADDITIONAL SHEETS IF NECESSARY)

Hahn Equip.

16

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SW ¼ NE ¼ Sec 22 T 26 N., R 43 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 204 ft. Depth of completed well 204 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from -2 ft. to 191 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Hydrophilic

Type PVC Model No.

Diam. 5" Slot size .020 from 184 ft. to 204 ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2100

Static level 165 ft. below top of well Date 3/24/78

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 15 gal./min. with 1 ft. drawdown after ½ hrs.

Artesian flow g.p.m. Date 3/24/78

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand & Gravel	0	94
gravel - cemented	94	163
Sand & Clay	163	174
gravel, sand & water	174	204

Spokane NE 7½

RECEIVED
MAR 30 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 3/12 1978 Completed 3/24 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Spokane Drilling Co. (Person, firm, or corporation) (Type or print)

Address E. 2710 Garland

[Signed] George C. Ray (Well Driller)

License No. 0408 Date 3-26 1978

ile Original and First Copy with
Department of Ecology
econd Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 17

Permit No. .....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SW¼ SW¼ Sec 22 T 26 N., R 43 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 220 ft. Depth of completed well 220 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from -1 ft. to 206 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
Size of perforations in by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Hydrophlic
Type PVC Model No.
Diam. 6" Slot size .020 from 200 ft. to 220 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.
Static level 170 ft. below top of well Date 7/14/78
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 15 gal./min. with 30 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown sand and gravel	0	174
Sand, gravel, aquifer	174	216
Brown clay	216	220

Work started 7/10/78, 19.. Completed 7/14/78, 19..

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Spokane Drilling Co. Spokane, Wa.
(Person, firm, or corporation) (Type or print)

Address E. 2710 Garland

[Signed] George C. Ray (Well Driller)

License No. 0408 Date 7-14, 1978

Driller DM

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WATER WELL REPORT
STATE OF WASHINGTON

Application No. 18
Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane A parcel of SE ¼ SE ¼ Sec. 22 T. 26N., R. 43E W.M.
Bearing and distance from section or subdivision corner Mt. St. Michael lot # 28

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
New well ☑ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 75 ft. Depth of completed well 75 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" " Diam. from +1 ft. to 75 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐
Type of perforator used Torched slots
SIZE of perforations in. by in.
perforations from 33 ft. to 67 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000'
Static level 30 ft. below top of well Date 10-1-82
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sandy loam	0	22
Basalt	22	25
Clay	25	28
Granite, decomposed	28	75
Water at 75 ft.		
Yield: By air		
Could be 25 G.P.M.		
Draw down:		
unestablished		
Shoe on bottom of casing		

RECEIVED
APR - 8 1982
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 9-26-81, 19 Completed 10-1-81, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co (Person, firm, or corporation) (Type or print)
Address E 2915 Lincoln rd Spokane, Wa 9920
[Signed] [illegible] (Well Driller)
License No. 0132 Date 4-6-82, 19

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epartment of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No

Permit No. ....

19

1) OWNER: Name (b) (6) Address (b) (6)

2) LOCATION OF WELL: County Spokane South 495 ft NE ¼ SE ¼ Sec. 22 T. 26 N., R. 43 E. W.M.

earing and distance from section or subdivision corner Parcel Number - R2634-9068

3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

5) DIMENSIONS: Diameter of well 8" inches.
Drilled 160 ft. Depth of completed well 157 ft.

6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 160 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.
PVC

Perforations: Yes ☒ No ☐
Type of perforator used SRW
SIZE of perforations .030 in. by 2 in.
perforations from 70 ft. to 80 ft.
perforations from 150 ft. to 160 ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: Pea
Gravel placed from 70 ft. to 160 ft.

Surface seal: Yes ☒ No ☐ To what depth 20' ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level... 2128 ft.
Static level 57 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 2 gal./min. with 160 ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand/Clay	0	7
Broken Basalt	7	15
Clay	15	80
Decomposed Granite	80	80
Granite	80	160

RECEIVED
DEC 18 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 11/10, 1978 Completed 12/15, 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bill L. Clothier (Person, firm, or corporation) (Type or print)

Address Rt 6 Box 21 Spokane Wash

[Signed] (Well Driller)

License No. 0085 Date 12/15, 1978

12/18/78

(USE ADDITIONAL SHEETS IF NECESSARY)

e Original and First Copy with
Department of Ecology
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WATER WELL REPORT

STATE OF WASHINGTON

Application No. 20

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane Portion of SE¼ NE¼ Sec 22 T. 26N., R. 43E W.M.

Bearing and distance from section or subdivision corner Lying easterly Gerlach Rd except Rd

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Deepened ☒ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 250 ft. Depth of completed well 250 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 1 ft. to 125 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

4" PVC installed 110 to 170 ft later removed

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2200 ft.

Static level ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom?

gal./min. with ft. drawdown after hrs.

" " "

" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand, red	0	30
Clay, hard yellow	30	45
Clay, brown	45	52
Clay, dk brown	52	120
Granite material, little water	120	160
Clay	160	170
Above work Sept29,1980 Oct 3, 1980		
PVC was installed from 110-170 ft		
1981		
PVC was removed & well deepened		
Clay	170	175
Clay, dark	175	215
Basalt, hard	215	233
Basalt, softer	233	235
Basalt	235	238
Basalt, softer	238	240
Basalt, hard	240	246
Out of basalt at 246 ft		
Clay, hard, white	246	250
Stopped drilling		
SWL at 235 ft		
GPM. approx 5		
Draw down unestablished		

RECEIVED
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Sept 29, 1980 to Oct 3, 1980

Work started Aug 11, 1981 Completed Aug 12, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address E. 2915 Lincoln Rd Spokane, Wa 99207

[Signed] Andrew F. Fisher (Well Driller)

License No. 0132 Date Sept 16, 1981

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WATER WELL REP

STATE OF WASHINGTON

Application No. 21

Permit No. ....

(1) OWNER: Name (b) (6) redacted Address

(2) LOCATION OF WELL: County Spokane — NW¼ NE¼ Sec. 22 T. 26 N. R. 42 W.M.

ing and distance from section or subdivision corner [illegible]

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled ft. Depth of completed well 450 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 345 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used Mills Knife
SIZE of perforations 1½ in. by 1/16 in.
perforations from 330 ft. to 300 ft.
perforations from 215 ft. to 195 ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal ~~Bentonite~~ Cement
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Berkeley
Type: H B 2 H.P. 1½

(8) WATER LEVELS: Land-surface elevation above mean sea level 2200 ft.
Static level 195 ft. below top of well Date 2/15/78
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom?
Yield: 15 gal./min. with ft. drawdown after 1½ hrs.
" 10 " " 2½ "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil / Broken Basalt	0	8
White Clay	8	18
White Clay Broken Basalt	18	22
Yellow Clay	22	40
Brown Clay (H2O 70-75)	40	145
Yellow Clay	145	150
Basalt (H2O 10 GPM)	150	195
Clay (H2O 195-210)	195	210
Clay / SAND	210	235
Clay	235	280
Decomposed Granite	280	340
Granite	340	450
Spokane NE	7½	

RECEIVED
APR 13 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 10-15, 1977 Completed 2/15/78

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bill L Clothier (Person, firm, or corporation) (Type or print)

Address RT 6 Box 21 Spokane

[Signed] [signature] (Well Driller)

License No. 0085 Date 2/15/78 19

4/13/78

(USE ADDITIONAL SHEETS IF NECESSARY)

V 050-1-80

22

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WATER WELL REPORT

STATE OF WASHINGTON

Application No. EAP

Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SE ¼ SE ¼ Sec. 22 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 185' ft. Depth of completed well 185' ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" " Diam. from +1½' ft. to 56½' ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20' ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.
Static level 90' ft. below top of well Date 07/30/79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 4 gal./min. with ft. drawdown after hrs.
Airlift " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand, Dry, Light Brown	0	2
Sand, Moist, Yellowish	2	10
Sand, Moist, Brownish	10	30
Sand With Mica	30	32
Sand, Moist, Grayish	32	45
Clay, Brown	45	47
Sand, Grayish	47	58
Granite, Salt & Pepper	58	90
Granite, White	90	100
Granite / 1½ GPM Water	100	103
Granite, Hard, Dark	103	125
Granite, Quartzite	125	135
Granite, Dark	135	155
Granite, White, Quartzite/Water	155	160
Granite, Salt & Pepper	160	162
Granite, Dark	162	185
180' of 4" PVC Liner Installed		
6" Drive Shoe Installed		

RECEIVED

Work started 07/28, 19 79 Completed 07/30, 19 79

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc.
(Person, firm, or corporation) (Type or print)

Address East 6010 Broadway - Spokane, WA 99206

(Signed) [signature]
(Well Driller)

License No. 0996 Date 08/03, 19 79

8/8/79

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

No. Decla. #836
Cert. #895-D

WELL LOG

Date 1925, 19

Record by (b) (6) [redacted]

Source (b) (6) [redacted] Claim

Location: State of WASHINGTON

County Spokane

Area

Map

SW ¼ SW ¼ sec 22 T. 26 N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling dug Date July 19 43

Owner Inland Empire Refineries, Inc.

Address Spokane 14, Wash.

Land surface, datum ft. above below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand	180	180
	Sand, water bearing	20	200
Pump	Test:		
	Dim: 200' x 4'		
	SWL: 185'		
	Dd: 12'		
	Yield: 500 g.p.m.		
	Casing: 40" dia. perfor. from 180' to 200'; 48" dia. brick to ground level.		
	Perfor: 16 perfor. per foot, 3/4" dia. from 180' to 200'.		
	Pump: 3", 4 stage centrifugal		
	Motor: 50 hp, electric		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Sheet of sheets

Turn up

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

24

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane — SE ¼ SW ¼ Sec. 22 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 148 ft. Depth of completed well 148 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 138 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.

Static level ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 0 gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
top soil	0	1
sand and gravel with cemented layers of gravel	1	133
firm cemented gravel with progressively more granite	133	140
firm granite	140	148

RECEIVED
FEB 16 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 12/23, 19 76 Completed 12/28, 19 76

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, Wa. 99026

[Signed] D. B. Bartholomew (Well Driller)

License No. 0027 Date 1/17, 19 76

3/14/77

USE ADDITIONAL SHEETS IF NECESSARY)

Form 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

No. G3-26565

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane NW¼ SE ¼ ¼ Sec. 21 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner Lot 25 Gordon Home Addn

(3) PROPOSED USE: Domestic ☐ Industrial ☒ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☐ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 244 ft. Depth of completed well 244 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from +1 ft. to 238 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Johnsons
Type 8" Telescoping Model No.
Diam. Slot size 40 from 213 ft. to 223 ft.
Diam. Slot size 35 from 223 ft. to 228 ft.
25 228 233

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1970 ft.
Static level 193 ft. below top of well Date 11/13/80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Art Franke
Yield: 200 gal./min. with 3 ft. drawdown after 4 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0'	1'
Sand, fine	1'	38'
Sand, fine to coarse	38'	41'
Sand, coarse w/wheat gravel	41'	44'
Sand, fine & coarse	44'	53'
Sand, coarse	53'	57'
Sand, fine & coarse	57'	79'
Sand, coarse w/wheat gravel	79'	85'
Sand, coarse	85'	92'
Sand, fine & coarse	92'	101'
Sand, coarse w/wheat gravel	101'	113'
Sand, coarse	113'	122'
Sand, coarse w/wheat gravel	122'	130'
Sand, fine & coarse	130'	140'
Sand, coarse w/wheat gravel	140'	160'
Sand, fine & coarse	160'	176'
Sand, silty & fine	176'	182'
Clay, creamy, tan	182'	191'
Clay, tan w/coarse sand	191'	197'
Clay, blue	197'	198'
Sand, coarse w/pea gravel	198'	200'
Sand, med. fine & coarse	200'	202'
Sand, coarse w/wheat gravel	202'	205'
Snad, coarse	205'	215'
Sand, coarse w/wheat gravel	215'	217'
Sand, coarse, some 3/4 round gravel	217'	224'
Sand, coarse w/wheat & pea gravel	224'	228'
Sand, coarse	228'	230'
Sand, fine & coarse	230'	232'
Sand, fine & med fine	232'	236'
Sand, fine	236'	238'
Clay, tan w/fine sand	238'	243'
Granite, salt & pepper, med hard	243'	244'

Appt. 200 gal. Fd

Work started Aug. 25, 1980 Completed Nov. 13, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO. (Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp, Box 4341, Spokane, Wa. 99202

[Signed] Carl E. Zinkgraf (Well Driller)

License No. 0543 Date Nov. 20, 1980

26

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Hohenstein Enterprises Address W. 5820 Holyoke Spokane, Wa. 99208

(2) LOCATION OF WELL: County Spokane — SW¼ SE¼ Sec. 21 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 80 ft. Depth of completed well 80 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 75 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [X] No [ ]
Manufacturer's Name Johnson
Type stainless steel Model No.
Diam. 6 Slot size 25 from 75 ft. to 80 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes [ ] No [ ]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 50 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [ ] If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
BAILER test 40 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
gravel and sand w/boulders	0	20
sand, dirty	20	40
sand	40	60
gravel w/sand	60	80

RECEIVED
OCT 28 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Oct. 19, 1977 Completed Oct. 19, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, Wa. 99026

[Signed] [illegible] (Well Driller)

License No. 027 Date 10-25, 1977

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Location 27
Unit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE¼ SW¼ Sec. 35 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner 35L

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 183 ft. Depth of completed well 183 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 60-6 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: 20
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18' ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2420 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 6 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand and gravel	0	23
Boulders	23	26
Sand, gravel, cobbles	26	60
Granite	60	183

RECEIVED NOV 15 1982 DEPARTMENT OF ECOLOGY SPOKANE REGIONAL OFFICE

Work started 7/6, 19 82 Completed 7/8, 19 82

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address N. 11525 Nine Mile Rd., Nine Mile Falls, Wa 99026

[Signed] Gary Bartholomew (Well Driller)

License No. 0051 Date 9/8, 19 82

11/15/82

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71)
ECY-070-28

Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .
Permit No. ...

28

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SE ¼ SW ¼ Sec. 35 T. 26 N., R. 43 W.M.
35P
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☐ Deepened ☒ Reconditioned ☐
Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 46 ft. Depth of completed well 174 ft.

(6) CONSTRUCTION DETAILS: N/A

Casing installed: ____" Diam. from ____ ft. to ____ ft.
Threaded ☐ ____" Diam. from ____ ft. to ____ ft.
Welded ☐ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type ____ Model No.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☐ No ☐ To what depth? ____ ft.
Material used in seal
Did any strata contain unpotable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ____ H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level approx. 2230
Static level 65 ft. below top of well Date 9 Aug 73
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☒

Note: No H_2O Increase.

(USE ADDITIONAL SHEETS IF NECESSARY)

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Granite, Gray, Hard	128'	174'

Work started 9 Aug., 1973 Completed 9 Aug., 1973

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME L.E. Neilson, Inc. (Person, firm, or corporation) (Type or print)

Address East 6010 Ethny, Spokane, Wash.

[Signed] Donald A. Telen (Well Driller)

License No. Applied for Date ____, 19__

B. F. No. 7356—OS—(Rev. 4-71).

1865 + 'dw

35 E

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-35E1

(Status as of May 23 1951)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane SW ¼ NW ¼ sec. 35 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1945 Depth 140 feet.

CASING: Depth _____ feet, Diameter 54 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 110.58 feet ~~Rept.~~, Meas. May 23, 1951 19____

~~above~~ below top of plank cover which is 0.5 feet ~~below~~ above surface.

PUMP: Type _____ H. P. _____

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: _____

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Gravel	80	80			
Sand	20	100			
Hardpan	15	115			
Sand	10	125			
Granite, rotten-some solid	15	140			

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LOG.—Continued No. ____/____

Material	Thickness (feet)	Depth (feet)
Depth forward	———	
Type & size of pump: 2 - 5/4 DeLavel Hor. centrifugal.		
Type & size of motor or engine: 2 - 75 hp. motors.		

S.F. 7449-40 REMINGTON 8 INC-30 30 249-3 44

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WELL LOG

No. Apply. #250
Cert. #192-D

Date July 23, 1928

Record by (b) (6) [redacted]

Source (b) (6) [redacted] Claim

Location: State of WASHINGTON

County Spokane

Area

Map

SE ¼ SW ¼ Sec. 34 T. 26 N., R. 43 E.

DIAGRAM OF SECTION

34

Drilling Co.

Address

Method of Drilling dug Date July 23 1928

Owner Great Northern Railway Company

Address 404 Union St., Seattle 1, Wash.

Land surface, datum ____ ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	All in sand and gravel except for surface soil.		
Pump	test:		
	Dim: 210' x 72"		
	SWL: 182'		
	D.D. 1.6'		
	Yield 1230 g.p.m.		
	Casing: 72" dia. brick & concrete from 0 to 131'; 72-168" dia. brick & concrete from 131to 168'; 168" dia. brick & concrete from 168 to 180'; 48'dia. steel screen from 180-210'.		
	Perforations: 48" dia. steel screen 30' long;;5/8" holes - 3" centers from 180' to 210'.		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ____ of ____ sheets

2N/43E-34P

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LOG.—Continued No. ____/____

Material	Thickness (feet)	Depth (feet)
Depth forward	—	
and a quarter square casing.		
Casing: No date		

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. Decla. #200
Cert. #190-A

Date Jan. 1923, 19__

Record by (b) (6)

Source (b) (6) Claim

Location: State of WASHINGTON

County Spokane

Area

Map Inglehrate Add. to Spokane

Blk. 4/11 ¼ sec. 34 T. 26 N., R. 43 E.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling Dug Date Mar. 1 1922

Owner Great Northern Icing Co.

Address Spokane, Wash.

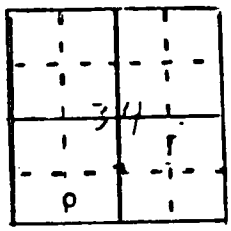
Land surface, datum ____ ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Well log:		
	Gravel with considerable dirt	10	10
	Very coarse gravel	180	190
	Pump Test:		
	Dim.: 190' deep; 5' diam.		
	SWL: 177'		
	DD: 8"		
	Yield: 250 g.p.m.		
	Type & Size of Motor: 30 h.p.		
	" " " " Pump: Lee-Courtney Centrifugal Two Stage		
	Perfs.: Bottome 24' is perforated casing, of the well; 42" dia. with perfs. 3/8" dia. one to each inch		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up Sheet ____ of ____ sheets

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-34P1

(Status as of April 24 19 51)

OWNER: Great Northern Ry. ADDRESS Hillyard Shop

LOCATION: County Spokane SE ¼ SW ¼ sec. 34 T. 26 N., R. 43 E. W.

34P

LAND SURFACE DATUM: 2035.98 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1928 Depth 240 feet.

CASING: Depth 240 feet, Diameter 72 inches, Finish Open bottom

CHIEF AQUIFER: from feet, to feet.

Others

WATER LEVEL: 1864.03 feet Rept., Meas. April 24 19 51

~~above~~ above m.s.l. (1929) which is at ~~above~~ ~~below~~ surface.

PUMP: Type 2-Centrifugal H. P. 75 each 173 ft. below surface

YIELD OF WELL: Flow gpm. Pump gpm. Meas. Rept. Est.
Drawdown none feet after hours pumping gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None, Railroad

REMARKS:

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-34E1
(Status as of April 24 19 51)

OWNER: Great Northern Ice Co. ADDRESS Market & Columbia, Hillyard

LOCATION: County Spokane SW ¼ NW ¼ sec. 34 T. 26 N., R. 43 E. W.
34E

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1921 Depth 196 feet.

CASING: Depth to bottom / feet, Diameter 60 to 136 / inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 172 ~~164~~ feet (Rept.), Meas. _____ 19 _____
above below below surface which is _____ feet above below surface.

PUMP: Type Centrifugal H. P. 30

YIELD OF WELL: Flow _____ gpm. Pump 300 gpm, ~~Meas~~ Rept. ~~Est.~~
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.
(condensing and manufacturing of ice)

REMARKS: 90 tons ice a day

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

e Original and First Copy with
partment of Ecology
cond Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No
Permit No

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NW ¼ SE ¼ Sec 33 T 26 N, R 43E W.M.

Bearing and distance from section or subdivision corner 33K

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 220' ft Depth of completed well 220' ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" " Diam. from +1' ft. to 214' ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 40' ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2050 ft.
Static level 59' ft. below top of well Date 05/01/79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 80 gal./min. with ft. drawdown after hrs.
" Estimated Airlift " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow gpm Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Clay	0	70
Sandy Clay	70	160
Clay	160	210
Gravel, Sand & Water	210	220

It is recommended that no more than 20 gpm be pumped.

RECEIVED
MAY 2 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 04/26, 19 79 Completed 05/01, 19 79

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc.
(Person, firm, or corporation) (Type or print)

Address East 6010 Broadway - Spokane, WA 99206

[Signed] Paul Hawkins (Well Driller) Paul Hawkins

License No. 1007 Date 05/01, 19 79

456 4700

36

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane Lot 15, Blk 18 SW¼SW¼ Sec 28 T26N R43 W.M. of Martindale Add. Vol C. of Plats Pg 5 Co. of Spok Wash.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 262 ft. Depth of completed well 262 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 262 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used Torch Cut
SIZE of perforations 5 in. by 1/8 in.
~~257~~ perforations from 257 ft. to 262 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 + ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Red Jacket
Type: Sub H.P. 2

(8) WATER LEVELS: Land-surface elevation above mean sea level 2050 ft.
Static level 205 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Stan Sams
Yield: 15 gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 1/17/80
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG: 28N

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand	0'	58'
Sand + gravel	58'	63'
Sand	63	100
Sand + Clay Seams	100	120
Sand + gravel	120	200
Sand + Clay Seams	200	220
Sand	220	240
Sand + gravel	240	262
Fine Sand + Clay	262	?
Static Level and aquifer	205'	

RECEIVED
FEB 16 1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 1/1, 1980 Completed 1/17, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Stan Sams (Person, firm, or corporation) (Type or print)

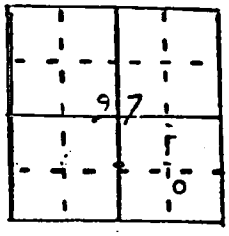
Address Box 79A Elk Wa.

[Signed] Stan Sams (Well Driller)

License No. 0983 Date 2/7, 1980

(USE ADDITIONAL SHEETS IF NECESSARY)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-27R1

(Status as of May 22 19 51)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane SE ¼ SE ¼ sec. 27 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date _____ Depth ? feet.

CASING: Depth _____ feet, Diameter 48 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 160.17 feet ~~Rept.~~, Meas. May 22 19 51

~~above~~ top of plank floor which is 1.0 feet ~~above~~ below surface.

PUMP: Type lift H. P. 1

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: _____

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON Well No. 26/43-27L1

(Status as of May 22 1951)

OWNER: National Pole & Treating Div ADDRESS No. of Hillyard, Wn.

LOCATION: County Spokane NE ¼ SW ¼ sec. 27 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1950 Depth 207 feet.

CASING: Depth _____ feet, Diameter 96 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 174.89 feet ~~Rept.~~, Meas. May 22 1951

~~above~~ below top of concrete curb which is 2.1(?) feet above ~~below~~ surface.

PUMP: Type Turbine H. P. 25

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

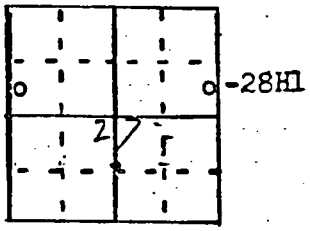
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Gravel at 180 feet, sand to 180 feet(?)

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-27E1

(Status as of April 18 1942)

OWNER: N. Spokane Irr. Dist No. 8 ADDRESS 7305 N. Regal

LOCATION: County Spokane SW ¼ NW ¼ sec. 27 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: 2027+ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 190 Depth feet.

CASING: Depth 255 feet, Diameter 14 inches, Finish

CHIEF AQUIFER: gravel from 0 feet, to 190 feet.
Others

WATER LEVEL: 182.24 feet Rept., Meas. April 18 1942

~~above~~ below inside rim of manhole which is 3.6 feet ~~above~~ below surface.

PUMP: Type deep-well turbine H. P. 100

YIELD OF WELL: Flow gpm. Pump 1000 to 1100 gpm. Meas. Rept. Est.
Drawdown feet after hours pumping gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None serves 465 families.

REMARKS: Huge granite blocks encountered-from photostat of WWP records

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ....
Permit No. ....

40

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Pend Oreille — SE ¼ SE ¼ Sec. 26 T. 24 N., R. 43 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 245 ft. Depth of completed well 245 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 26 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 120 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" 30 gpm " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown top soil	0	12
Sand and [illegible]	12	26
Granite Rock	26	245

Work started 5 18 1974 Completed 5 20 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Carman Development Co (Person, firm, or corporation) (Type or print)

Address 820 Main St Marion Idaho

[Signed] John Carman (Well Driller)

License No. 228 Date 5 28 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

F. F. No. 7356—OS—(Rev. 4-71).

1/2/74

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WATER WELL REPORT

STATE OF WASHINGTON

Application No

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — E½ of SW¼ ¼ Sec. 26 T. 26N., R43E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" inches

Drilled 111' ft. Depth of completed well 107' ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 102' ft.

Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name
Type Model No
Diam Slot size from ft. to ft.
Diam Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft

Surface seal: Yes ☒ No ☐ To what depth? 30' ft.

Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.

Static level 65' ft. below top of well Date 2/16/80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 15GPM gal./min. with ft. drawdown after hrs.
Estimated Airlift " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	5
Sandy Clay	5	60
Gravel	60	105
Granite	105	108
Granite Fractured W/Water	108	110
Granite	110	111
NO PVC Liner		
1 8" Drive Shoe		
1 Surface Seal		

Work started 2/16/80, 19 Completed 2/16/80, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc. (Person, firm, or corporation) (Type or print)

Address 6010 E. Broadway, Spokane, WA. 99206

[Signed] Paul G. Hawkins (Well Driller)

License No. #1007 Date 2/16, 19 80

2/19/80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1 20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ....
Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane, a parcel of — NE¼ NW¼ Sec. 26 Dt. 26 N. R 37 W.
Bearing and distance from section or subdivision corner and SW¼, SW¼ 23 26 42E

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 500 ft. Depth of completed well 500 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from 2 ft. to 63' 10"
5" PVC Threaded ☐ 53'10" Diam. from 63' 10" to 123' 10" ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐ Sawed vertical 123'10" to 153'10"
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2100 ft.
Static level 20ft ft. below top of well Date 6-22-79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
yield at time of drilling approx 25 GPM
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

SOFT SPOTS NOT CAVEY, FIRM ENOUGH TO STAND.

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	3	3
Clay brn, dec granite	3	40
Clay blue, dec granite	40	64
Water at 64ft		
Granite, gray water	65	85
Granite, hard gray	85	91
granite, softer green	91	97
granite, hard	97	100
granite, blue	100	104
softer spot	104	105
Granite, gray	105	119
Granite, white water	119	120
Granite, gray	120	140
Granite, gray little water	140	160
Granite, white	160	164
Granite, pink	164	166
Granite, white, soft	166	175
Granite, gray	175	183
Granite, white	183	190
Granite, pink	190	191
Granite, gray	194	197
Granite soft spot little water		197
Granite, gray	197½	243
Little water 243 ft		
Granite soft spot	243	249
Granite, gray	249	294
Granite, light gray	294	345
Granite, light gray soft	345	375
Granite gray	375	394
Granite, lt gray water	394	400
Granite, gray medium hard	400	403
Granite, soft spot	403	405
Granite, gray normal	405	429
Granite, lt gray soft spot water	429	430
Granite, light gray		[illegible]
Granite soft spot		[illegible]

Work started 6-15-19 Completed 6-22-19

RECEIVED JAN 2 1984 DEPARTMENT OF ECOLOGY SPOKANE REGIONAL OFFICE

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)
Address East 2915 Lincoln Rd. Spokane, Wa
[Signed] Edward Fisher (Well Driller)
License No. 0132 Date 1-24, 19 8

A to Z Rental

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON Well No. 26/43-22N1.2

(Status as of May 22 1951)

OWNER: Phillips Refining Co. ADDRESS No. of Hillyard

LOCATION: County Spokane SW ¼ SW ¼ sec. 22 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date Mar. 1949 Depth 216 feet.

CASING: Depth _____ feet, Diameter 18 inches, Finish perforated

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 170 feet Rept., ~~Meas~~ May 22 1951

~~above~~ surface _____ ~~xxxxxxx~~ _____ feet ~~above~~ below surface.

PUMP: Type Turbine H. P. 50

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown 7 feet after 3-4 hours pumping 958 gpm.

USE: Domestic, Stock, Public Supply, Industrial (except boilers), Irrigation, None.

REMARKS: _____

WELL LOG, from Mr. Hale, Ralph Cole, E. C. Cole

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
170 feet sand					
40 feet coarse sand					
Then blue clay					

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane Ptn NW ¼ SW ¼ Sec. 22 T 26 N., R 43E W.M.

Bearing and distance from section or subdivision corner Lyg NLY of Fairview Rd & Ely of RR R/W

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 195 ft. Depth of completed well 195 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 2.5 ft. to 187.75 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.
Cement grouted 6ft to 50 ft
Surface seal: Yes ☑ No ☐ To what depth? 6 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1974 ft.
Static level 150 ft. below top of well Date 10-6-82
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG: 22L-

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Fine sand	0	25
Coarse gravel 2" & boulders	25	75
Rock & Boulders	75	120
Clay	120	123
Granite	123	150
Broken Basalt & gravel	150	190
Gravel kept coming down		
Finally shut off gravel		
Had about 100 Gals of water		
Granite, Hard Throwing no	190	195
gravel or sand, only clean		
water		
Yield: Approx 100 G.P.M.		
at time of drilling		
Draw Down: unestablished		

Work started 9-21, 1982 Completed 10-6, 1982

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co (Person, firm, or corporation) (Type or print)

Address E 2915 Lincoln Rd Spokane, Wa 99207

[Signed] Andrew F Fisher (Well Driller)

License No. 0132 Date 12-10, 1982

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File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — ¼ NE ¼ Sec. 22 T. 26 N., R. 43 E.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☐ Deepened ☒ Reconditioned ☒

Method: Dug ☐ Cable ☒ Rotary ☐ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 283 ft. Depth of completed well 283 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +2 ft. to 276 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name None

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ± 2335

Static level None ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " No water " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
		No water			

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Soil	0	3
Brown Clay	3	20
Brown Sand	20	50
Brown Silty Clay	50	275
Hard Rock	275	283

Work started 6-15, 1981 Completed 6-28, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Dra Trussell (Person, firm, or corporation) (Type or print)

Address Rt 1 Box 44C Athol Ida

[Signed] Dra Trussell (Well Driller)

License No. 872 Date 6-28, 1981

ok to DM

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Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ....

Permit No. 9920

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane Portion of SE¼ NE¼ Sec. 22 T. 25N., R. 43E W.M.

Bearing and distance from section or subdivision corner Lying easterly Gerlach Rd except R

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☒ ~~Cable~~ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 250 ft. Depth of completed well 250 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 1 ft. to 125 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

4" PVC installed 110 to 170 ft later removed

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... approx 2200 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG: 226

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand, red	0	30
Clay, hard yellow	30	45
Clay, brown	45	52
Clay, dk brown	52	120
Granite material, little water	120	160
Clay	160	170
Above work Sept29,1980 Oct 3, 1980		
PVC was installed from 110-170 ft		
1981		
PVC was removed & well deepened		
Clay	170	175
Clay, dark	175	215
Basalt, hard	215	233
Basalt, softer	233	235
Basalt	235	238
Basalt, softer	238	240
Basalt, hard	240	246
Out of baselt at 246 ft		
Clay, hard, white	246	250
Stopped drilling		
SWL at 235 ft		
GPM approx 5		
Draw down unestablished		

Work started Sept 29, 1980 to Oct 3,1

Work started Aug 11, 1981. Completed Aug 12, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address E. 2915 Lincoln Rd Spokane, Wa 9920

[Signed] Richard J. Fisher (Well Driller)

License No. 0132 Date Sept 16, 1981

9/18/81 [illegible]

(USE ADDITIONAL SHEETS IF NECESSARY)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

D C	B A
E	
2	1 F

STATE OF WASHINGTON Well No. 26/43-21E1

(Status as of August 31 1942)

OWNER: Defense Plant Corp. ADDRESS Hillyard

LOCATION: County Spokane Magnesium Plant SE ¼ SW ¼ sec. 21 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: 1900 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date August 1942 Depth 206 feet.

CASING: Depth 180 feet, Diameter 84 inches, Finish perforated from 180 to 206 ft.

CHIEF AQUIFER: fine to coarse sand from feet, to feet.
Others

WATER LEVEL: 180.75 feet ~~Rept.~~, Meas. July 7 1942

~~above~~ surface ~~which is~~ ~~feet~~ ~~above~~ ~~below~~ ~~surface~~.
below

PUMP: Type ~~permanent pumps not yet installed~~ H. P. 200

YIELD OF WELL: Flow gpm. Pump 1000 gpm. Meas. Rept. Est.
Drawdown 4½ feet after — hours pumping 500 gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS:

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Reported that sand entered well when pumped at 2500 gpm.					

work 467-6089
N 8203 Regal

Re: (b) (6) [redacted]

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

A-10279
P-9783

WELL LOG

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area 1270' N and 320' W

Map from SE corner Sec 21

NE¼SE¼ SE¼ sec. 21 T 26 N R 43 E

Drilling Co. (b) (6) [redacted] n of Section

Address [redacted]

Method of Drilling Date Dec. 12, 1970

Owner (b) (6) [redacted]

Address [redacted]

Land surface, datum ft. above / below

SWL: 190 ft Date Dec. 17, 1970 Dims.: 12"x260'

CORRELATION	MATERIAL	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation use		
	Sand, fine	0	39
	Sand	39	53
	Gravel, medium coarse	53	95
	Sand, fine	95	190
	WATER AT	190	
	Sand, fine	190	223
	Gravel, coarse	223	235
	Gravel, fine	235	240
	Gravel, small	240	260
	Casing: 12" from 0 to 260'		
	Screen installed from 246 to 260'		
	Pump: 60 h.p. Turbine		

Turn up

Sheet ____ of ____ sheets

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File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Permit No. G3-25035

(1) OWNER: Name Washington Water Power Co. Address P. O. Box 3727 Spokane, Wash. 99220

(2) LOCATION OF WELL: County Spokane — NE ¼ SE ¼ Sec 21 T 26 N. R 43E W.M.

Bearing and distance from section or subdivision corner Approx., 2 miles south of Mead, Wash. 215

(3) PROPOSED USE: Domestic ☐ Industrial ☒ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) Unknown

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.

Drilled 281 ft. Depth of completed well 279'10" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from +2 ft. to 269 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson Division UOP

Type Stainless Steel Model No. TS

Diam. 8" Slot size 60 from 269 ft. to 279 ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.

Static level 170 ft. below top of well Date 7-11-77

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Bailer tested at 317 GPM from 269 ft.
Bailed all water expelled. Tested for 8½ hrs.

Date of test 7-13-77

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sandy top soil	0	21' 4"
Sand, small gravel	21-4	41' 4"
Sand, small gravel	41-4	61' 4"
Sand, small gravel	61-4	81' 4"
Sand, small gravel	81-4	111' 4"
small gravel	111-4	131' 4"
Small gravel	131-4	161' 4"
Sand, gravel, mud, some water	161-4	201' 4
Sand, little water	201-4	221' 4"
Sand, mud, small gravel, gray clay	221-4	241' 4"
~~Gray blue, clay, some pea gravel~~	241-4	256' 7"
water at 256ft ~~XXX~~ 7"		
Sand, small gravel, water	256-7	271' 1
Gravel, fine sand, cemented conglomerate	271-10	281' 1
Well was developed by air for 3 days		

RECEIVED
AUG 25 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started June 13, 1977 Completed July 13, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address E 2915 Lincoln Rd Spokane, Wash 99207

[Signed] Gilbert C. Lettell (Well Driller)

License No. 0722 Date July 18, 1977

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

52

(1) OWNER: Name R. A. HANSON CO., INC. Address P. O. Box 7400, Spokane, WA. 99207

(2) LOCATION OF WELL: County Spokane N½ — ¼ ¼ Sec 21 T 26 N., R 43E W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 238 ft. Depth of completed well 238 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 209 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1900 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 5/9/84
Bailer test 20+ gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

c/11/84 DA

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand, fine	0'	31'
Sand, coarse w/wheat gravel	31'	34'
Sand, coarse w/pea gravel	34'	43'
Sand, coarse w/3/4" gravel	43'	49'
Sand, coarse w/wheat gravel	49'	60'
Sand, coarse w/pea gravel	60'	78'
Sand, fine & ciarse	78'	92'
Granite, cream & white, med hrd ?	92'	101'
Sand, fine & coarse	101'	104'
Sand, coarse w/wheat gravel	104'	117'
Sand, coarse w/pea gravel	117'	135'
Clay, blue grey	135'	158'
Sand, silty & fine	158'	163'
Sand, fine & coarse	163'	170'
Sand, fine & coarse w/wheat gravel	170'	178'
Sand, coarse w/pea gravel	178'	182'
Sand, coarse w/gravel up to 1"	182'	190'
Sand, coarse w/wheat gravel	190'	192'
Sand, fine & coarse	192'	198'
Clay, tan	198'	199'
Granite, white-grey-blk-cream, med hrd	199'	209'
Granite, white-grn-cream, hrd	209'	213'
Granite, white-grn-cream, med hrd	213'	222'
Granite, creamy white-grn-grey, hrd	222'	226'
Granite, white-grey-blk, w/white clay, med hrd	226'	236'
Granite, blk-white-cream-grn, soft, water	236'	238'

RECEIVED
MAY 29 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started April 18, 1984 Completed May 9, 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address P. O. BOX 4341, Spokane, WA. 99202

[Signed] Carl E Zinkgraf
(Well Driller)

License No. 0543 Date May 23, 1984

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

No. Appl. 1092
Cert. 351-A

WELL LOG

Date — 19—

Record by

Source

Location: State of WASHINGTON

County Spokane

Area

Map

SW ¼ SW ¼ sec. 22 T. 26 N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling Date — 19—

Owner Wasatch Oil Company

Address Box 6188; Spokane, Wash.

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	No information		
	Pump Test		
	Dim: 18" x 210'		
	SWL: -		
	Yield: 250 g.p.m.		
	Perforations:		
	No information		

Sheet of sheets

Turn up

STATE OF WASHINGTON

Permit No

54

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane ¼ NE ¼ Sec. 22 T 26N N

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☐ Method: Dug ☐ Bored ☐

Deepened ☒ Cable ☐ Driven ☐

Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 60 ft. Depth of completed well 300 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: None " Diam. from ____ ft. to ____ ft.

Threaded ☐ " Diam. from ____ ft. to ____ ft.

Welded ☐ " Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations ____ in. by ____ in.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: 3/4"

Gravel placed from 290 ft. to 305 ft.

Surface seal: Yes ☐ No ☐ To what depth? ____ ft.

Material used in seal

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2240

Static level 250 ft. below top of well Date 9-14-81

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: 25 gal./min. with ft. drawdown after hrs.

Est. Airlift " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

10/2/81

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Existing well	0	280
Basalt, black, hard	280	290
Basalt, black, fractured	290	305
Basalt, black, fractured, w/ water	305	310
Sand fine	310	320
Basalt, fractured, w/ brown clay	320	340

Hole filled in with sand from 300' - 340'

RECEIVED
OCT - 7 1981
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

No PVC Liner installed
No Drive Shoe installed

Work started 9-14, 19 81 Completed 9-14, 19 81

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc. (Person, firm, or corporation) (Type or print)

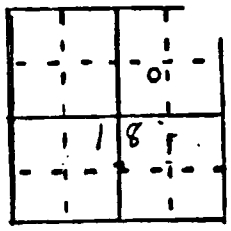
Address E. 6010 Broadway, Spokane, WA 99206

[Signed] Keith Vermillion (Well Driller)

License No. 1045 Date October 5, 19 81

(USE ADDITIONAL SHEETS IF NECESSARY)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-18G1

(Status as of December 23 19 41)

OWNER: Whitworth College ADDRESS Rt. 7 Spokane

LOCATION: County Spokane SW ¼ NE ¼ sec. 18 T. 26 N., R. 43 E/W.

LAND SURFACE DATUM: 1915 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1940± Depth 200 feet.

CASING: Depth 140 feet, Diameter 72 inches, Finish 31" steel casing

CHIEF AQUIFER: coarse sand and pea gravel from 20 feet, to 200 feet.
Others

WATER LEVEL: 160.80 feet ~~Rept.~~, Meas. Dec. 23 19 41

~~above~~ top of plank well pit cover which is the ~~Back~~ ~~above~~ below surface.

PUMP: Type Deep well turbine H. P. 25

YIELD OF WELL: Flow gpm. Pump 250 gpm. Meas. ~~Rept.~~ ~~Est.~~
Drawdown 1-2 inches after 2 hours pumping 250 gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Dump pile shows material removed in digging to be nearly uniform mixture of coarse sand and very fine gravel

Perforated 31" casing from 160'-200'.

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

58

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT Appli. #7048

WELL LOG No. /

Date May 6, 1964, 19

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

NW ¼ NE ¼ sec. 17 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Noonan Drilling Company

Address Valley, Washington

Method of Drilling Cable Date May 1, 1964

Owner Duane L. Nelson

Address No. 7624 Howard, Spokane, Wash. 99208

Land surface, datum ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Sand with boulders	0	50
	Sand	50	115
	10' boulder at 105'		
	Clay and fine sand	115	150
	Coarse sand, clay & P. gravel	150	190
	Water at 178'		
	Coarse sand and clay	190	196
	Gravel and sand	196	212
	Hard clay and gravel	212	224
	Casing: 8" from 0 to 200'		
	Perforated from 200 to 220'		
	Screened from 200 to 220'		
	Surface sealed with clay		
	SWL: 175' on April 24, 1964		
	Bailer test: 50 gpm with 0' dd after 2 hours		

Turn up

Sheet ..... of ..... sheets

26/43-17

File number

WELL LOG Continued No. 1

Correlation	Material	Thickness (feet)	Depth (feet)
	Depth forward	———	
	left at the bottom to act as a natural screen bed.		
	PERFORATIONS:		
	¼"x4" slots located on ¼" centers from 228 to 243 ft.		

S. F. No. 7448—12-54—3M. 60108.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WELL LOG No. A-6038

Date 3-6, 1962

Record by well driller

Source driller's record

Location: State of WASHINGTON

County Spokane

Area

Map

NW¼NE¼SE¼ ¼ sec. 17 T. 26 N., R. 43 E. WM

Diagram of Section

Drilling Co. Reeder Construction Co.

Address Mead, Wash.

Method of Drilling Date 12-14-61, 19

Owner El Paso Gas Co.

Address El Paso, Texas

Land surface, datum ft. above / below

NORTHWEST PIPELINE CORP
E 1022 HAWTHORNE RD
99213

Correlation	Material	Thickness (feet)	Depth (feet)
	Sandy loam	3	3
	Fine sand	157	160
	Clay & fine sand with a showing of water	68	228
	190 30% gravel, 65% coarse sand & 5% fine sand	20	248
	PUMP TEST:		
	Dim. 6"x248'		
	SWL: 181 ft. (12-14-61)		
	DD: 5 ft.		
	Yield: 55 g.p.m.		
	Water Temp. 52°		
	Immediate recovery		
	CASING:		
	6" diam. from 0 to 248 ft.		
	Shoe set at 248 ft. from the surface		
	with approximately 4 ft. of coarse		
	(over)		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up Sheet of sheets

26/43.17

59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-17G1

(Status as of May 21 19 51)

OWNER: (b) (6) ADDRESS Rt. (b) (6)

LOCATION: County Spokane SW ¼ NE ¼ sec. 17 T. 26 N., R. 43 E.)

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1948 Depth 183± feet.

CASING: Depth _____ feet, Diameter 6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 172.02 feet ~~Rept.~~, Meas. May 21 19 51

~~above~~ below top of 6" casing which is 5.7 feet ~~above~~ below surface.

PUMP: Type lift H. P. 2

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Sand 125' 25' blue clay then coarse sand and water

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Sand	125	125			
clay, blue	25	150			
Sand coarse					
and gravel	33	183			

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STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. April 17, 3897 Cert. 2321

Date April 26, 1955

Record by Kaiser Alum. & Chemical Corp.

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

SE¼ NW¼ sec. 16 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Robinson & Roberts

Address 4603 SouthJay St. Tacoma 8, Wn.

Method of Drilling Drilled Date April 25, 1955

Owner Kaiser Aluminum & Chem Corp.

Address P. O. Box 6217 Hilyard St. Spokane

Land surface, datum ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Pump Test:		
	Dia: 268' X 24 X 18		
	SWL: 157'		
	DD: 4.6'		
	Yield: 2,300 g.p.m.		
	Casing 24" dia 3/8" Wall	Seamless	
	from	0 to 242'	
	18" dia. 3/8" Wall Steel		
	from	211 to 238'	
	Perforations:		
	18" stainless steel Johnson Screen		
	from	238 to 268'	
	Upper 5' - 80 slot-Middle	20'-125 slot	
	Lower 5' - 80 Slot		

Turn up

Sheet ____ of ____ sheets

26N 43E 16E

File number

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ed No. ..... / .....

Material	Thickness (feet)	Depth (feet)
Depth forward	———	
Casing: 30" from 42 to 165'		
24" from 147 to 240'		
18" from 212 to 242'		
No perforations.		
Screened from 242 to 283'		
Gravel packed from 215 to 263'		
Surface sealed with concrete grout		
SWL: 161.5' on October 27, 1963		
Yields 3500 gpm with 6' DD after max. hours		
5000 gpm with 10' DD after max.hrs.		
October 28, 1963		
Pump: 250 HP 2500 gpm @ 300 ft. TDH		

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Well #6 Appli. #6333

WELL LOG No. ..... / .....

Date November 12, 1963

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

Part of N½ sec. 16 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Holman Drilling Corp.

Address 3410 E. 9th, Spokane, Washington

Method of Drilling Cable Date Oct. 30, 1963

Owner Kaiser Aluminum & Chemical Corp.

Address Mead, Washington

Land surface, datum ..... ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Municipal well		
	Sand - fine	0	45
	Sand & ½ minus gravel	45	140
	Sand & ½ minus gravel with some clay, water at 178'	140	180
	Gravel & sand with boulders to 8" diameter	180	225
	Coarse sand	225	230
	Coarse sand & gravel to ½"	230	261
	Sand & gravel with layers of brown clay	261	283
	Blue clay	283	284

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ..... of ..... sheets

26/43-16F

File copy

63

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Decl. #1099
Cert. #1033-D

Date July, 1942

Record by (b) (6)

Source (b) (6) Claim

DIAGRAM OF SECTION

Location: State of WASHINGTON

County Spokane

Area

xxxx NE¼ SW¼ NW¼

¼ ¼ sec. 16 T. 26 N., R. 43 E. W.

Drilling Co.

Address

Method of Drilling v. drilled Date July 1942

Owner Kaiser Aluminum & Chem. Corp.

Address Spokane, Wash.

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand & gravel	20	20
	Sand	165	185
	Sand & coarse gravel	68	253
	Coarse sand & gravel	23	276
	Blue clay	1	277
Pump	Test:		
	Dim: 277' x 16"		
	SWL: 158'		
	Dd: 14'		
	Yield: 1450 g.p.m.		
	Casing: 16" dia. st'd pipe from 0' to 239'5"; 8" dia. st'd pipe & screen from 221' to 277'.		
	Pump: Deep well turbine, 8 stages		
	Motor: 150 hp, electric		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet of sheets

26N/43E 18E

64

3.—Continued No. ___/___

Material	Thickness (feet)	Depth (feet)
Depth forward		
Coarse sand, clay, some gravel, boulders	64	278
Blue clay	7	285
Test:		
Dim: 278' x 12"		
SWL: 158'		
Dd: 12'		
Yield: 1250 g.p.m.		
Casing: 12" dia. St'd from 0' to 241'; 8" dia. st'd with screen from 208' to 278'.		
Pump: Deep well turbine, 7 stage		
Motor: 125 hp, electric		

F. 7449-46 REMINGTON INC - 30 20 749-26

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Declv. #1098
Cert. #1032-D

Date May, 1942

Record by (b) (6)

Source (b) (6) Claim

Location: State of WASHINGTON

County Spokane

Area

Map

NW ¼ NW ¼ sec. 18 T. 26 N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling drilled Date 1942 19

Owner Kaiser Aluminum & Chem. Corp.

Address Spokane, Wash.

Land surface, datum ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand	23	23
	Sand, some gravel	26	49
	Clay	½	49½
	Sand	9	58½
	Sand, small gravel	5	63
	Clay	19½	83
	Sand, small gravel	10	93
	Sand, clay streaks at 112'	21'8"	114'8"
	Sand, clay streaks at 117'	8'9"	123'7"
	Sand, some fine gravel	12'7"	136
	Sand, some boulders (4")	27	173
	Sand, clay streaks, boulders	10½	184
	Coarse sand, clay,	30	214
	some gravel (Over)		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ___ of ___ sheets

28N/43E-18J

65

6316F

Continued

No. ____/____

Material	Thickness (feet)	Depth (feet)
Depth forward	—	

Pump test:
Dim: 286' x 20"
SWL: 160'
D.D. 20'
Yield 2750 g.p.m.
Casing: 20" dia. steel casing from 0 to 231'; 16" dia. steel casing from 211 to 286'.
Perforations: 800 - ½" x 4" Torch cut perfs. from 230 to 280'.

F. 7440-46 BLMINGTON SEC-20 20 745-3

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WELL LOG

No. Appl. #1743
Cert. #928A

Date Nov. 1, 1951
Record by (b) (6)
Source Driller record

Location: State of WASHINGTON
County Spokane
Area
Map
NW ¼ NW ¼ sec. 16 T. 26N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co. (b) (6)
Address Mechanical Supt.
Method of Drilling Date Apr. 23 1951
Owner Kaiser Aluminum & Chemical Corp.
Address Spokane, Washington
Land surface, datum ____ ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Coarse sand	25	25
	Sand & gravel (small clay layer)	71	96
	Hard sand and gravel	24	120
	Sand, hard sand & clay breaks	44	164
	Blue and yellow clay, blue shale	21	185
	Loose sand (water at 190')	5	190
	Sandy shale & sand (some water)	20	210
	Sand and gravel (good water)	7	217
	Sand and gravel	64	281
	Sticky blue shale	5	286
	(over)		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ____ of ____ sheets

C305

ZN 43E-16D

Same as 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-16D3

(Status as of April 13 1951)

OWNER: Kaiser Aluminum Plant ADDRESS Mead, Wash.

LOCATION: County Spokane NW ¼ NW ¼ sec. 16 T. 26 N., R. 43 (E.) W.

LAND SURFACE DATUM: 1938± feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date April 1951 Depth 286 feet.

CASING: Depth 286 feet, Diameter 20-16 inches, Finish open-in blue clay

CHIEF AQUIFER: Sand and gravel from 210 feet, to 281 feet.
Others 190 to 210 feet

WATER LEVEL: 160 feet ~~Repto~~, Meas. April 17 1951

~~above~~ below top of pump base which is 0.5 feet above ~~below~~ surface.

PUMP: Type Johnston Turbine H. P. 250

YIELD OF WELL: Flow gpm. Pump 3,100 gpm. Meas. ~~Repto.~~ Est.
Drawdown 30+ feet after ½ hours pumping 2,500+ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS:

WELL LOG, from Kaiser Aluminum Plant

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Sand, coarse	25	25	Sand and gravel	64	281
Sand and gravel	23	48	Clay, sticky, blue	5	286
Sand and gravel, small clay break	12	60	20" casing from 0 to 231 feet		
Sand and gravel	36	96	16" casing from 211 to 286 feet		
Sand, hard and gravel	24	120	800 ¼ x 4" torch cut perforations		
Sand with clay breaks	28	148			
Sand, hard	16	164			
Clay, blue and yellow	4	168			
Shale, blue	17	185			
Sand, loose	5	190			
Shale, sandy	8	198			
Sand, not too much water	12	210			
Sand and gravel, good					

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-16D1
(Status as of April 17 1951)

OWNER: Defense Plant Corp. ADDRESS Box 6116, Spokane

LOCATION: County Spokane NW ¼ NW ¼ sec. 16 T. 26 N., R. 43 (E.) W.

LAND SURFACE DATUM: 1937 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date _____ Depth 217 feet.

CASING: Depth 217 feet, Diameter 8-6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 160 feet ~~Rept.~~, Meas. April 17 1951
~~above~~ below surface which is _____ feet above below surface.

PUMP: Type none H. P. _____

YIELD OF WELL: Flow _____ gpm. Pump 800-1000 gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None, observation.

REMARKS: _____

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

16C

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON Well No. 26/43-16C1
(Status as of April 17 1951)

OWNER: Defense Plant Corp ADDRESS Box 6016, Spokane

LOCATION: County Spokane NE ¼ NW ¼ sec. 16 T. 26 N., R. 43 (E.) W.

LAND SURFACE DATUM: 1938± feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1942 Depth 280 feet.

CASING: Depth 277 feet, Diameter 16-8 inches, Finish Cement Plug in bottom

CHIEF AQUIFER: Sand and Gravel from 185 feet, to 277 feet.
Others

WATER LEVEL: 163' 4" feet ~~Rept.~~, Meas. April 17 1951

~~above~~ below top of pump base which is 1± feet above ~~below~~ surface.

PUMP: Type Turbine H. P. 125

YIELD OF WELL: Flow gpm. Pump 1160 gpm. ~~Meas.~~ Rept. ~~Est.~~
Drawdown 14± feet after less than 2 hours pumping 1160 gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: 1/ against 60 lbs. back pressure

WELL LOG, from Kaiser Aluminum Plant

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Sand	63	63			
Sand and gravel	21	84			
Sand with clay streaks	26	110			
Sand	65' 10"	175'10"			
Clay, blue, streak	9' 2"	185			
Sand and gravel with clay streaks	45	230			
Sand, coarse and gravel	39	269			
Sand, fine	8	277			
Clay, blue	3	280			
16" casing from 0 to 240 feet					
8" casing and screen set from 237 to 277 feet					

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epartment of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .

Permit No. ....

1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ SE ¼ Sec. 15 T. 26 N., R. 43 E. W.M.

Bearing and distance from section or subdivision corner

15J

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one).... 1

New well ☐ Method: Dug ☐ Bored ☐
Deepened ☒ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 200' ft. Depth of completed well 320 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 0 " Diam. from ft. to ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☐ No ☒ To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 80 ft. below top of well Date 8/17
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 1 gal./min. with ft. drawdown after hrs.
Est. Airlift " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

Also log

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Clay Brown	120	130
Sand	130	160
Black Clay	160	320

RECEIVED
AUG 23 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 8/15/77, 19. Completed 8/17/77, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Carman Development Company
(Person, firm, or corporation) (Type or print)
Address E.6010 Broadway, Spokane, Wa. 99206

[Signed] David Fuller (Well Driller)

License No. 0585 Date 8/18/77, 19

NORLITE PRODUCS

NO NUMBER

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

No. Appli. 4660
Cert. 3048-A

WELL LOG

Date July, 19 57

Record by well driller

Source driller's record

Location: State of WASHINGTON

County Spokane

Area

Map

Diagram of Section

NE¼NW ¼NW ¼ sec. 15 T. 26N., R. 43 E. ~~W~~

Drilling Co. Reeder Construction Company

Address Mead, Wash.

Method of Drilling Date, 19

Owner Norlite Products Company

Address Spokane, Washington

Land surface, datum ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Hardpan	123	123
	Fine sand 5% coarse with some water	2	125
	Silty clay- some fine sand	50	175
	~~Fine sand, 10% coarse sand 2% gravel some water~~	~~7~~	~~182~~
	~~Dry clay carrying fine sand~~	~~83~~	~~265~~
	Clay, silt with water, very dirty	25	290
	Coarse decomposed granite sand with coarse gravel	3	293
	PUMP TEST:		
	~~Dim. 293'x8".~~		
	~~SWL: 151 ft.~~		
	~~DD: 49 ft.~~		
	Yield: 50 g.p.m.		
	Type & size of pump: 6" Turbine	21-stage	

Turn up (over)

Sheet of sheets

OG.—Continued No. ..... / .....

Material	Thickness (feet)	Depth (feet)
Depth forward	———	
Type & size of engine: 7½ h.p.		
Water Temp. 51°		
CASING: 8" diam. fro, 0 to 190 ft.		

S. F. No. 7[illegible]—12-54—3M. 4[illegible]08.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. Appli. 4660
Cert. 3048-A

Date July, 1957

Record by well driller

Source driller's record

Location: State of WASHINGTON

County Spokane

Area

Map

NE¼NW ¼NW ¼ sec. 15 T. 26N., R. 43 E. WM

Diagram of Section

Drilling Co. Reeder Construction Company

Address Mead, Wash.

Method of Drilling Date, 19

Owner Norlite Products Company

Address Spokane, Washington

Land surface, datum ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Hardpan	123	123
	Fine sand 5% coarse with some water	2	125
	Silty clay- some fine sand	50	175
	Fine sand, 10% coarse sand 2% gravel some water	7	182
	Dry clay carrying fine sand	83	265
	Clay, silt with water, very dirty	25	290
	Coarse decomposed granite sand with coarse gravel	3	293
	PUMP TEST:		
	Dim. 293'x8"		
	SWL: 151 ft.		
	DD: 49 ft.		
	Yield: 50 g.p.m.		
	Type & size of pump: 6" Turbine	21-stage	

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ..... of ..... sheets

24N/43E-15D

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Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ____

Permit No. ____

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Stevens — NE ¼ SE ¼ Sec 15 T 26 N., R 43 W.M. E

Bearing and distance from section or subdivision corner 5J

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ____

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 100 ft. Depth of completed well 100 ft.

CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 100 ft.

Threaded ☐ ____" Diam. from ____ ft. to ____ ft.

Welded ☐ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used ____

SIZE of perforations ____ in. by ____ in.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name ____

Type ____ Model No. ____

Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ____

Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 40 ft.

Material used in seal Clay

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? ____ Depth of strata ____

Method of sealing strata off ____

(7) PUMP: Manufacturer's Name ____

Type: ____ H.P. ____

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ____ ft.

Static level 0 ft. below top of well Date ____

Artesian pressure ____ lbs. per square inch Date ____

Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? ____

Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.

" " "

" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test No Test Required

Bailer test 0 gal./min. with 0 ft. drawdown after 0 hrs.

Artesian flow ____ g.p.m. Date ____

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand & Gravel Brown Silt	0	3
Sand med & Silt	3	12
Sand med Silt with lost a trace of water	12	13
Sand & Clay Tan	13	18
Clay Light Brown	18	44
Clay Dark Brown	44	81
Clay Tan Light	81	86
Clay Yellow	86	100
No water. Dry hole Stopped Drilling at owner Request. Capped well with ¼" steel plate welded in place		

RECEIVED
DEC 16 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 12/5/77, 19____. Completed 12/8/77, 19____

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME K. A. Holman Drilling Co. (Person, firm, or corporation) (Type or print)

Address Cat Spokane Rd Spokane

[Signed] [illegible] (Well Driller)

Date 12/8/77, 19

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...e Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ...
Permit No. ...

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane

...ring and distance from section or subdivision corner — NE ¼ SW ¼ Sec. 14 T. 26 N., R. 43E W.M.

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 80 ft. Depth of completed well 80 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 57 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐
Type of perforator used torch & skill saw
SIZE of perforations in. by in.
perforations from ft. to ft.
20 perforations from 65 ft. to 80 ft.
20 perforations from 47 ft. to 57 ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☑ No ☐ Size of gravel: pea
Gravel placed from 60 ft. to 80 ft.

Surface seal: Yes ☑ No ☐ To what depth? 25 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2200 ft.
Static level 40 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Water Level	Time	Water Level	Time	Water Level

AIR LIFT TEST 6-8 gpm

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

11/26/79

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
top soil	0	1
sand	1	5
sand clay basalt boulders	5	45
broken basalt	45	60
basalt	60	80
PVC liner	50	80

RECEIVED
NOV 28 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 10-30-79, 19 Completed 11-1-79, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME MINDEN WELL DRILLING (Person, firm, or corporation) (Type or print)

Address Rt 3 Box 100 Deer Park WA 99006

[Signed] Ken Minden (Well Driller)

License No. 971 Date 11-20-79, 19

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name (b) (6) Address Rt (b) (6)

(2) LOCATION OF WELL: County Spokane — SE ¼ NE ¼ Sec. 13 T. 26 N., R. 43 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 100 ft. Depth of completed well 100 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 58 ft
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18½ ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? Clay Depth of strata 30'
Method of sealing strata off Casing

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1912 ft.
Static level ? ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 40 gal./min. with Airlift ft. drawdown after hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Overburden	0	1
Boulder Basalt	1	5
Soft Brown Basalt	5	30
Soft Brown Caly W/Water	30	35
Gray Clay	35	44
Medium Gray Basalt	44	65
Medium Brown Clay W/Water	65	72
Medium Soft, Dark Brown Clay	72	90
Medium Brown Clay W/Water	90	94
Decomposed Granite	94	100
96' of 4" PVC Liner		
6" Drive SHoe Installed		

RECEIVED
AUG 15 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started August 7, 1979 Completed August 8, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc. (Person, firm, or corporation) (Type or print)

Address 6010 E. Broadway, Spokane, WA. 99206

[Signed] Dean E. Adams (Well Driller)

Fil Original and First Copy with
De rtment of Ecology
Se d Copy — Owner's Copy
Th d Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — SW ¼ SW ¼ Sec. 13 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 165 ft. Depth of completed well 165 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 79 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: 1½
Gravel placed from 80 ft. to 165 ft.

Surface seal: Yes ☒ No ☐ To what depth? 80 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 2206 ft.
Static level 80 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 4 gal./min. with ft. drawdown after hrs.
" Est. Airlift " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown clay	0	12
Brown clay & broken basalt	12	36 ~~63~~
Broken clay	36	49
Broken basalt	49	62
Brown clay & broken basalt	62	71
Broken basalt	71	73
Basalt	73	98
Broken basalt & water	98	115
Yellow clay	115	145
Sand	145	165
Drive Shoe installed		
No PVC Liner installed		

Work started 11/16, 19 81. Completed 11/19, 19 81

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99206

[Signed] W. Scott Barratt (Well Driller)

License No. 0996 Date November 23, 19 81

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application
Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ SE ¼ Sec. 13 T. 36 N., R. 45 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ■ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ■ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ■ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 140 ft. Depth of completed well 140 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 42 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ■ " Diam. from ft. to ft.

Perforations: Yes ☐ No ■
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ■
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ■ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ■ No ☐ To what depth? 15 ft.
Material used in seal Clay
Did any strata contain unusable water? Yes ☐ No ■
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1900 ft.
Static level 0 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: 0 gal./min. with ft. drawdown after hrs.
" No Water " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 0 gal./min. with 0 ft. drawdown after 0 hrs.
Artesian flow No Water g.p.m. Date in well
Temperature of water Was a chemical analysis made? Yes ☐ No ■

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

MATERIAL	FROM	TO
Top Soil	0	1
Granite Decomposed Sand	1	4
Basalt Broken w/ Brown Clay	4	27
Sand Dry (Tan)	27	31
Basalt Broken w/ Dark Brown Clay	31	38
Basalt Broken Brown	38	39
Basalt Blue hard	39	77
Basalt Hard Black	77	92
Basalt Hard Black	92	106
Basalt Broken w/ Brown Clay	106	109
Basalt Decomposed Black	109	114
Clay Dark Brown	114	123
Clay Light Tan	123	136
Granite Hard Gray	136	140

RECEIVED
AUG 25 1983
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

RECEIVED
1983

Work started July 7, 19 83 Completed July 15, 19 83

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME E. H. Holman Drilling Co. (Person, firm, or corporation) (Type or print)

Address [illegible] Rd Spokane Wa

[Signed] [illegible] (Well Driller)

License No. 0101 Date July 30, 1983

Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

77

Permit No. (b) (6)

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NW ¼ NW ¼ Sec. 12 — T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well [X] Deepened [ ] Reconditioned [ ]
Method: Dug [ ] Bored [ ] Cable [X] Driven [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 425 ft. Depth of completed well 425 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 123 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [ ] No [X]
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level ~~[illegible]~~ 80 ft. below top of well Date 1/28/77
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a ~~pump~~ air test made? Yes [X] No [ ] If yes, by whom? Driller
Yield: 8 gal./min. with 418 ft. drawdown after 1 hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0'	3'
Clay, yellow-tan	3'	18'
Sand, fine & coarse	18'	23'
Clay, yell-tan, w/fine and coarse sand	23'	50'
Sand, fine & coarse	50'	67'
Clay, brn-tan, w/fine sand	67'	90'
Sand, fine	90'	114'
Clay, yell-brn w/fine sand	114'	122'
Granite, decomposed, m hrd, wat 1 GPM	122'	125'
Granite, fract, brn & wht qrtz, m hrd	125'	130'
Granite, decomp, brn, m hrd	130'	142'
Granite, fract, drk gray, mica-wht qrtz, m hrd	142'	153'
Granite, gray, hrd	153'	165'
Granite, fract, m hrd, s & p	165'	176'
Granite, occas fract, s&p-orng, m hrd	176'	184'
Granite, fract, drk gray, wht qrtz, m hrd, water 1 GPM	184'	202'
Granite, occas fract, drk gray-wht, m hrd	202'	238'
Granite, fract, gray-wht, brn, m hrd	238'	254'
Granite, occas fract, drk gray-wht, m hrd	254'	276'
Granite, fract, gray-wht-rd brn, m hrd, water 1 GPM	276'	284'
Granite, occas fract, drk gray-wht-clear, m hrd	284'	325'
Granite, fract, gray-rd brn-wht, m hrd water 2 GPM	325'	334'
Granite, occas fract, gray-wht-clr, m hrd	334'	358'
Granite, fract, gray-rd brn-wht, m hrd	358'	362'
Granite, occas fract, gray-wht-clr, m hrd	362'	374'
(Continued on back)		

Work started 19 Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp, Box 4341, Spokane, Wa. 99202

[Signed] James J. Zinkgraf
(Well Driller)

License No. 0544 Date Feb. 2 19 77

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Appl

Permit No. ...

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane NW - NW SW ¼ Sec 12 T 26 N., R 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☑ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) # 4

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☑ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 243 ft. Depth of completed well 243 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1½ ft. to 199 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 20 ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1874
Static level 90 ft. below top of well Date 5/25/81
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☑ No ☐ If yes, by whom? WK
Yield: 30 gal./min. with 115 ft. drawdown after 5 hrs.
" " 10/12/82 "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0'	5'
Sandy loam	5'	13'
Brown clay w/ fine sand and small gravel	13'	90'
Brown sand with water	90'	94'
Brown clay	94	95
Tan and orange clay	95	111
Clays brown, green, blue orange mix with traces of gray sand	111	116
Very dark brown clay	116	126
Brown clay	126	170
Gray clay	170	185
Blue Clay	185	200
Brown clay large to small chunks of clay blue and brown that look like gravel below 200 to 225	200	239
Gray clay	239	243

Work started 19 Completed 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Clearwater Drilling and Development (Person, firm, or corporation) (Type or print)

Address RT #3 Box 105 Colbert

[Signed] Walter H. Knapp (Well Driller)

License No. 1171 Date 19

: Original and First Copy with
partment of Ecology
ond Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ____

Permit No. ____

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — NW ¼ NW ¼ Sec. 11 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner Parcel #11632-9055 110

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ____

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.

Drilled 50 ft. Depth of completed well 40 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 39 ft.

Threaded ☐ " Diam. from ____ ft. to ____ ft.

Welded ☒ " Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used ____

SIZE of perforations ____ in. by ____ in.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

____ perforations from ____ ft. to ____ ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson

Type stainless steel Model No. ____

Diam. 6 Slot size 15 from 35 ft. to 40 ft.

Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ____

Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? ____ Depth of strata ____

Method of sealing strata off ____

(7) **PUMP:** Manufacturer's Name ____

Type: ____ H.P. ____

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1906 ft.

Static level 30 ft. below top of well Date 3/16/84

Artesian pressure ____ lbs. per square inch Date ____

Artesian water is controlled by ____ (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☒ No ☐ If yes, by whom? Ponderosa

Yield: 25 gal./min. with 2 ft. drawdown after 1 hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ____

Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.

Artesian flow ____ g.p.m. Date ____

Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	3
Sand & gravel	3	20
Sand	20	30
Sand & water	30	40
Clay	40	50

NO PVC Liner Installed

6" Drive Shoe Installed

RECEIVED
MAR 27 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 3/12/ 84, 19 Completed 3/16/ 84, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT INC. (Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 999212

[Signed] Tom Richardson (Well Driller)

Tom Richardson

License No. 1295 Date 3/16/, 1984

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — SW ¼ NW ¼ Sec. 11 T. 26 N., R. 43 W.M. 11E

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 47 ft. Depth of completed well 46 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from 0 ft. to 40'5" ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Johnson
Type Stainless steel Model No.
Diam. Slot size 8 from 41 ft. to 46 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Cement & bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1900 ft.
Static level 26 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 12 g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Fine br. sand	0	16
Coarse br. sand	16	21
Br. clay	21	22
Fine br. sand	22	36
Grey clay, soft	36	39
Fine grey sand	39	45
Grey clay, soft	45	47
Aquifer	39	45

Work started 4/19 19 84 Completed 4/19 19 84

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SAMS DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 2, Box 82 Elk, Washington 99009

[Signed] [signature] (Well Driller)

License No. 0494 Date 4/25 19 84

Fi. Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — SW ¼ NW ¼ Sec 11 T 26 N., R 43 W.M.
Bearing and distance from section or subdivision corner 4th Add. of lot 5 11E

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 59 ft. Depth of completed well 49 ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 6 " Diam. from ~~46~~ 0 ft. to 46'5" ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Johnson
Type Stainless steel Model No.
Diam. Slot size 10 from 44 ft. to 49 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Cement & bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1910 ft.
Static level 20 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS.** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.

(10) **WELL LOG:**
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Fine Br. sand	0	18
Coarse br. sand	18	26
Fine br. sand	26	43
Grey clay, soft	43	45
Fine grey sand	45	50

Work started 4/20, 1984 Completed 4/20, 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SAMS DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 2 Box 82 Elk, Washington 99009

[Signed] [signature] (Well Driller)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

82

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SW ¼ NW ¼ Sec. 11 T. 26 N., R. 43 E W.M.

Bearing and distance from section or subdivision corner 3rd Add. Lot 4 11E 43

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 47 ft. Depth of completed well 47 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 43 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson

Type Stainless steel Model No.

Diam. Slot size 6 from 38 ft. to 43 ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Cement & bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(8) PUMP: Manufacturer's Name

Type: H.P.

(7) WATER LEVELS: Land-surface elevation above mean sea level 1960 ft.

Static level 27 ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow 14 g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Fine br. sand	0	14
Coarse Br. sand	14	18
Br. clay	18	20
Fine br. sand	20	38
Grey clay, soft	38	42
Fine grey sand	42	47

Work started 4/17, 1984 Completed 4/18, 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SAMS DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 2 Box 82 Elk, Washington 99009

[Signed] Stacy Sams (Well Driller)

License No. 0494 Date 4/25, 1984

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) Address (b) (6)

( ) LOCATION OF WELL: County Spokane — NE ¼ SW ¼ Sec. 11 T. 26 N., R. 43 E W.M.
Bearing and distance from section or subdivision corner 1/L

( ) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

( ) DIMENSIONS: Diameter of well 6 inches.
Drilled 122 ft. Depth of completed well 122 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from pulled ft. to 120 ft.
Threaded ☐ ..." Diam. from ft. to ft.
Welded ☐ ..." Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

( ) WATER LEVELS: Land-surface elevation above mean sea level 1870 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Air Date of test
Bailer test 0 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	3'
clay	3'	11'
Sand	11'	12'
Clay and sand	12'	19'
Sand	19'	23'
Clay	23'	89'
Sand (dry)	89'	96'
Clay and fine sand	96'	122'
~~MXXXXXX~~		
HOLE ABANDONED		

RECEIVED
OCT 20 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 9/10, 1984. Completed 9/11, 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc.
(Person, firm, or corporation) (Type or print)

Address N. 11525 Nine Mile Rd., Nine Mile Falls, 99026

[Signed] (Well Driller)

License No. 0051 Date, 19

6310L 84

Copy with
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WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. 63-26510

...ER: Name WASHINGTON WATER POWER Address .....

...CATION OF WELL: County SPOKANE NW NW SE ¼ Sec 10 T 26 N., R 43 W.M.

...g and distance from section or subdivision corner Lot 15 Bl. 2 Andrews & Cutler Addn to

...) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☒ Irrigation ☐ Test Well ☐ Other ☐

...) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

...) DIMENSIONS: Diameter of well 16 inches.
Drilled 189' ft. Depth of completed well 116 ft.

...) CONSTRUCTION DETAILS:
Casing installed: 16 " Diam. from +2 ft. to 94 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐
Manufacturer's Name JOHNSON
Type STAINLESS STEEL Model No. WH 304
Diam. 16 Slot size -80 from 94 ft. to 106 ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

...) PUMP: Manufacturer's Name .....

...8) WATER LEVELS: Land-surface elevation above mean sea level .... 1900 ft.
St...ic level 92 ft. below top of well Date .....
...sian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by .....
(Cap, valve, etc.)

...) WELL TESTS: Drawdown is amount water level is lowered below static level
...a pump test made? Yes ☒ No ☐ If yes, by whom? DICKERSON
...ield: 650 gal./min. with 14 ft. drawdown after 5 hrs.
" " "
" " "

...scovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

...Date of test .....
...r test ..... gal./min. with ..... ft. drawdown after ..... hrs.
...tesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

8/8/80

(10) WELL LOG: Mead 10D

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
BROWN, FINE SAND	0	87'
BROWN, MED. SAND (Aquifer)	87	106'
BLUE CLAY	106	185'
GRAY GRANITE	185	189'

RECEIVED
DEPARTMENT OF ECOLOGY
WATER RESOURCES DIVISION

APP. 500 GPM
150' MUNI

Work started 6-2 1980 Completed 7-11 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SPOKANE Drilling Co.
(Person, firm, or corporation) (Type or print)

Address E. 2710 GARLAND

[Signed] George C. Ray
(Well Driller)

License No. 0408 Date 7-17 1980

(USE ADDITIONAL SHEETS IF NECESSARY)

F. No. 7356—OS—(Rev. 4-71)
ECY-070-28

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane — SE ¼ NW ¼ Sec. 9 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner

9F

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 120 ft. Depth of completed well 117 ft.

6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 120 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used Punch
SIZE of perforations 3/16 in. by 1 1/4 in.
70 perforations from 110 ft. to 117 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1900 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

( ) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 7/9/80
Bailer test 15 gal./min. with 2 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

1/17/80

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0'	1'
Sand, fine & coarse	1'	8'
Sand, fine	8'	12'
Sand, fine & coarse	12'	42'
Clay, greenish grey w/fine sand mixed	42'	49'
Sand, silty & fine	49'	78'
Sand, fine & coarse	78'	101'
Sand, coarse	101'	104'
Sand, fine,	104'	108'
Sand, coarse w/wheat gravel, water	108'	120'

RECEIVED
JUL 17 1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started June 20 1980 Completed July 9 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address E. 1666 Sharp, Box 4341, Spokane, Wa. 99202

[Signed] Carl E. Zinkgraf
(Well Driller)

License No. 0543 Date July 15, 1980

(USE ADDITIONAL SHEETS IF NECESSARY)

(b) (6)

(b) (6)

(b) (6)

Original and First Copy — Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) OWNER: Name Kaiser Aluminum (Pope Resources) Address .....

(2) LOCATION OF WELL: County Spokane — NW ¼ NE ¼ Sec. 8 T. 26 N., R 43 W.M.

Bearing and distance from section or subdivision corner 8B

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 177 ft. Depth of completed well 167 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 161½ ft.

Threaded ☐ " Diam. from ..... ft. to ..... ft.

Welded ☒ " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒

Type of perforator used .....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson

Type ..... Model No. .....

Diam 6 Slot size 12 from 162 ft. to 167 ft.

Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....

Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 68 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☒ No ☐

Type of water? ..... Depth of strata 40'

Method of sealing strata off Pressure pumped with Bentonite

(7) PUMP: Manufacturer's Name .....

Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level 1765 ft.

Static level ..... ft. below top of well Date .....

Artesian pressure ..... lbs. per square inch Date .....

Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? .....

Yield: ..... gal./min with ..... ft. drawdown after ..... hrs.

" " "

" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....

Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
sand	0	17
sand with gravel	17	36
clay	36	37½
sand & gravel with water	37½	75
sand with less water	75	118
clay	118	130
sand	130	138
clay with sand lenses	138	156
sand with water	156	177

RECEIVED
OCT 31 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started July 2, 1979 Completed July 13, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, WA 99026

[Signed] Gary Bartholomew (Well Driller)

87

Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — NW¼ SW¼ ¼ Sec 8 T. 26N., R. 43E W.M.
Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches
Drilled 80 ft. Depth of completed well 78 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from 1 ft. to 80 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used punch
SIZE of perforations 3/16 in. by 1 1/4 in.
perforations from 65 ft. to 75 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam Slot size from ft. to ft.
Diam Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1550 ft.
Static level 56 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? driller
Yield 18 gal./min. with 2 ft. drawdown after one hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 18 gal./min. with 2 ft. drawdown after one hrs.
Artesian flow g.p.m. Date

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	1
Sand & gravel coarse	1	5
Sand coarse	15	18
Sand fine & coarse	18	39
Sand coarse gravel pea size	39	50
Sand fine & coarse	50	53
Sand coarse	53	57
Sand fine & coarse water	57	60
Sand coarse	60	64
Sand & gravel coarse few small rocks water	64	75
Sand fine & coarse	75	77
Sand fine	77	80

Work started May 7, 1980 Completed June 5, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINGER BIG WELL DRILLING
(Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp Ave., Spokane, 99202

[Signed] Carl E Zinger
(Well Driller)

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LOG.—Continued No. ...../.....

Material	Thickness (feet)	Depth (feet)
Depth forward	—	
CASING:		
12" diam. 45# black steel from 0 to 126 ft.		
~~12" Atlas shoe welded on casing at 126 ft.~~		
PERFORATIONS:		
12" Johnson Telescope stainless screen #50 slot from 126 to 146' fitted with a standard bail bottom & lead top packer.		
Area around casing grouted with Bentonite from 40 ft. to 10 ft, ~~from surface and concrete grout from 0 to 10 ft. Casing extends one foot above ground level.~~		

S. F. No. 1119—OS—6-61—2M

STATE OF WASHINGTO.
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. A.4868

Date 6-7, 19 62

Record by well driller

Source driller's record

Location: State of WASHINGTON

County Spokane

Area

Map

¼ ¼ sec. 4 T. 26 N., R. 43 E. W.M.

Diagram of Section

Drilling Co. Holman Drilling Corp.

Address 3410 E. 9th, Spokane 31, Wash.

Method of Drilling Date May 15, 19 62

Owner Mead School District #354

Address Mead, Washington

Land surface, datum ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Top soil	2	2
	Sand	41	43
	Clay, brown	9	52
	Sand & Pea gravel	18	70
	Sand, silty	8	78
	~~Gravel mixed with clay~~	2	80
	Sand ~~very silty~~	45	125
	Sand, coarse, w/b	13	138
	Sand, fine w/b	2	140
	Sand with clay lens w/b	6	146
	PUMP TEST:		
	~~Dim. 12"x146'~~		
	~~SWL: 79½' (5-15-62)~~		
	~~DD: 44 gt.~~		
	Yield: 390 g.p.m.		
	Water Temp. 48°		
	1 min. recovery		
	Type & size of ~~turbine~~ pump: Turbine		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ..... of ..... sheets

: Original and First Copy with
partment of Ecology
ond Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. —

Permit No.

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — NW ¼ SW ¼ Sec. 3 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 150 ft. Depth of completed well 146 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 145 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1800 ft.
Static level 132 ft. below top of well Date 2/28/80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 9+ gal./min. with ft. drawdown after hrs.
" Airlift " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand & Gravel	0	50
Sand & Clay (Moist)	50	83
Sand (Fine)	83	115
Sand Coarse	115	132
Sand & Coarse Gravel	132	150
6" Drive Shoe Installed		

RECEIVED
MAR 4 1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 2/25, 1980 Completed 2/28, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc. (Person, firm, or corporation) (Type or print)

Address Joe Close F. 6010 Broadway, Spokane, WA 99206

[Signed] Joe Close (Well Driller)

License No. 1040 Date 2/29, 1980

90

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane NE ¼ SW ¼ Sec. 3 ~~T. 23~~ N., R. 43E W.M.

Bearing and distance from section or subdivision corner East ½ of Tract 51, City Garden 3 26 43

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 160 ft. Depth of completed well 151 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 154 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used punch
SIZE of perforations 3/16 in. by 1 1/4 in.
perforations from 133 ft. to 142 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: pea
Gravel placed from 151 ft. to 160 ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1910 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 9/16/81
Bailer test 20+ gal./min. with 2 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date

(10) WELL LOG: L

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0'	1'
Sand, coarse gravel, small boulders	1'	6'
Sand & gravel, coarse	6'	26'
Sand, coarse, gravel, small	26'	39'
Sand, fine, to coarse, med gravel	39'	44'
Sand, silty, fine	44'	49'
Clay, grey & tan	49'	51'
Sand, silty & fine	51'	81'
Sand, coarse, small gravel	81'	85'
Sand, coarse, med gravel	85'	95'
Sand & gravel, coarse	95'	99'
Sand, fine & coarse, med gravel	99'	115'
Sand, fine & coarse	115'	121'
Clay, tan w/fine sand	121'	124'
Sand, coarse, small gravel, water	124'	132'
Sand, coarse, med gravel, water	132'	135'
Sand & gravel, coarse, water	135'	141'
Gravel, coarse	141'	144'
Sand & gravel, coarse	144'	146'
Sand fine to coarse, w/tan clay	146'	160'

Work started Aug. 31, 1981 Completed Sept. 16, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address P.O. Box 4341, Spokane, Wa. 99202

[Signed] Carl E. Zinkgraf
(Well Driller)

91

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) Address (b) (6)

( ) LOCATION OF WELL: County Spokane NW ¼ SE ¼ Sec. 3 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner Tract B-53 City Gardens Addition K

(2) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 160 ft. Depth of completed well 160 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 160 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used Punch
SIZE of perforations 3/16 in. by 1 1/4 in.
perforations from 150 ft. to 156 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1800 ft.
Static level 141 ft. below top of well Date 5/13/81
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? driller
Yield: 20 gal./min. with 1 ft. drawdown after 1 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0'	1'
Sand, fine & coarse	1'	18'
Sand, fine	18'	28'
Clay, creamy w/fine sand	28'	32'
Sand, medium coarse	32'	40'
Sand, fine to coarse	40'	63'
Clay, tan	63'	67'
Clay, lite green	67'	71'
Sand, fine to coarse	71'	75'
Clay, gray	75'	80'
Clay, greenish gray w/silty sand	80'	91'
Clay, tan w/coarse sand	91'	97'
Sand, fine to medium coarse	97'	105'
Sand, fine to coarse w/small gravel	105'	121'
Sand, coarse w/wheat gravel	121'	125'
Sand, coarse pea gravel & 3/4 grav.	125'	128'
Sand, fine to coarse	128'	135'
Sand, fine to coarse w/small grav.	135'	144'
Sand, fine to med coarse, water	144'	150'
Sand, coarse & med coarse gravel, water	150'	156'
Sand, fine to med coarse	156'	158'
Clay, tan w/fine & med coarse grav.	158'	160'

Work started April 29, 1981 Completed May 13, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address P.O.BOX 4341, Spokane, Wa. 99202

[Signed] [signature]
(Well Driller)

License No. 0543 May 16, 81

Material	From (feet)	To (feet)
Depth forward	—	
Sand, fine, & some clay	193	203

Casing: 10" from 0-203'
Screen installed from 177-201'
Surface sealed with clay from 0-10'
Yield: 550+ gpm with ? DD after 7 hrs.
Drawdown and recovery time undetermined due to broken air line
Test made 6-21-66
Pump: 40 h.p. vertical lineshaft turbine Peerless

p. 7449—OS—12-65.

Division of Water Resources Appl. #8023
Permit #7500

WELL LOG

Record by: Driller
Source: Driller's Record

Location: State of WASHINGTON
County: Spokane
Area:
Map:
SE ¼ SW ¼ sec. 3 T. 26 N., R. 43 E. WM

Diagram of Section

Drilling Co.: James F. Noonan
Address: Valley, Washington
Method of Drilling: Cable Date: June 16, 1966
Owner: The Washington Water Power Company
Address: P. O. Drawer 1445, Spokane, Wash.
Land surface, datum: ft. above/below
SWL: 145' Date: June 1, 1966 Dims. 10" x 201'

Correlation	Material	From (feet)	To (feet)
	Domestic supply		
	Top soil	0	1
	Sand, loose, & clay	1	20
	Sand, firm, & clay	20	30
	Clay, & pea gravel, loose	30	60
	Sand, fine, & clay	60	75
	Clay, blue, & fine sand, soft	75	93
	Clay, brown, & fine sand, soft	93	113
	Clay & gravel, cemented	113	140
	Boulders, fine sand & clay	140	144
	Sand, fine, & clay	144	163
	Water at 145'		
	Sand, medium, & pea gravel	163	168
	Sand, coarse, & pea gravel	168	177
	Gravel & coarse sand	177	184
	Sand & pea gravel	184	193

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (Over) Sheet ... of ... sheet

(6303-P)

26/43 3P
File number

6303P

92

OG.—Continued No. ..... / .....

Material	From (feet)	To (feet)
Depth forward	———	
creens cont.		
Diam 16"1-D Slot size-140 from 165' to 180'		
urface seal to 30', cement grout		
ump test: 1250 gpm with 11'7" after 1 hr.		
1400 gpm with 16'2" after 1 hr.		
1510 gpm with 22'4" after 7 hrs		
ecovery data: 0------138'6"		
10 sec.--116'2"		
ump: Peerless, Deep well turbine, 200 HP		

149—OS—12-65.

Ref. #9990

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG

Record by Driller

Source Driller's record

Location: State of WASHINGTON

County Spokane

~~XXX~~ 100' N.E. of S.W. corner

~~MSP~~

SW ¼ SW ¼ sec. 3 T. 26 N., R. 43 E. ~~XX~~

Diagram of Section

Drilling Co. Holman Drilling Corp.

Address E. 3410 9th Ave. Spokane, WA

Method of Drilling Cable Date May 29, 1970

Owner Washington Water Power Co.

Address P.O. Box 1445 Spokane, WA 99210

Land surface, datum -- ft. above/below

SWL: 116'2" Date May 27, 1970 Dims.: 180' x 18"

26/43 3N

File number

Correlation	Material	From (feet)	To (feet)
	Municipal use		
	Sand, fine	0	44
	Clay, sandy, lt. brown	44	70
	Clay, sandy, blue	70	108
	Sand, medium	108	114
	Sand & pea gravel *	114	147
	Sand & lenes of clay *	147	151
	Clay, sandy, lt. brown	151	160
	Sand & pea gravel *	160	180
	(compacted)		
	* Water bearing strata.		
	Casing: 18" from 2' to 135'		
	Screens: Johnson, stainless, standard		
	Diam-16"1-D Slot size-45 from 135' to 140'		
	Diam-16"1-D Slot size-140 from 140' to 150'		
	Diam-16"1-D Slot size-125 from 160' to 165'		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ..... of ..... sheets

6303N

93

Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

X

WATER WELL REPORT
STATE OF WASHINGTON

Permit No.

94

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SW ¼ SW ¼ Sec. 2 T. 26N., R. 43 W.M.

Bearing and distance from section or subdivision corner 2N

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 260 ft. Depth of completed well 256 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 255 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐ in 4" PVC liner
Type of perforator used skilsaw
SIZE of perforations in. by in.
perforations from 200 ft. to 260 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☒ No ☐ Size of gravel ¼"
Gravel placed from 60 ft. to 256 ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 30 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
sand	0	12
yellow clay	12	64
cemented sand	64	164
gray clay	164	207
sand with water	207	209
brown clay	209	236
sand with water	236	237
clay	237	239
dirty sand	239	249
brown clay	249	255
granite	255	260

Work started 9/25/75, 19 Completed 10/4/75, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, Wa. 99026

[Signed] D. E. Bartholomew (Well Driller)

License No. 0027 Date 10/14/75, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
cond Copy — Owner's Copy
ird Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

95

Application. ....
Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

LOCATION OF WELL: County ..... ¼ NE ¼ Sec. 23 T. 26 N., R. 43e W.M.
aring and distance from section or subdivision corner

Order No. 95322

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 410 ft. Depth of completed well 400 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 19 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Johnson
Type Model No.
Diam. 4 Slot size 12 from 380 ft. to 390 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18+ ft.
Material used in seal Cement & Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

) PUMP: Manufacturer's Name
Type: H.P.

WATER LEVELS: Land-surface elevation above mean sea level 2250 ft.
tic level 270 ft. below top of well Date
ian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

) WELL TESTS: Drawdown is amount water level is lowered below static level
pump test made? Yes ☐ No ☐ If yes, by whom?
gal./min. with ft. drawdown after hrs.
" " "
" " "
ery data (time taken as zero when pump turned off) (water level easured from well top to water level)

ime	Water Level	Time	Water Level	Time	Water Level

Date of test
test gal./min. with ft. drawdown after hrs.
an flow 18 g.p.m. Date
perature of water Was a chemical ana is made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0	1
Clay - Soft Brown	1	4
Clay - Hard Brown	4	39
Basalt Broken	39	42
Basalt Hard	42	44
Basalt , Fractured	44	46
Basalt , Medium Hard	46	54
Basalt ,Med. Soft & Clay Mix	54	58
Basalt ,Medium Hard	58	60
Basalt, Med. Soft & Clay Mix	60	65
Clay , Yellow	65	71
Clay , Orange	71	84
Clay , White	84	112
Clay , Grey	112	131
Clay , Hard Orange	131	132
Clay , Brown	132	142
Clay , Grey	142	183
Clay , Light Brown	183	197
Clay , Grey	197	234
Clay , Dark Brown	234	299
Organic Material & Wood	299	301
Clay , Dark Brown	301	382
Silica Sand , Fine	382	410
Aquifer	382	410
218' of 6" PVC	19	237
190' of 4" PVC	190	380
10' of 4" PVC	390	400

Work started 4-15 19 82 Completed 4-21 19 82

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SAMS DRILLING
(Person, firm, or corporation) (Type or print)

Address Rt. 2 Box 82 Elk, Washington 99009

[Signed] [signature]
(Well Driller)

License No. 0494 Date 4-21 19 82

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 96

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Parcel in Sec. T. N., R. W.M.

Bearing and distance from section or subdivision corner Lot # 19 Mount St. Michael's

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" inches.
Drilled 300 ft. Depth of completed well 300 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 1 ft. to 219 ft.
P.V.C. ~~Threaded~~ 6 " Diam. from 200 ft. to 300 ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐ P.V.C. was sawed thin blade vertically
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2320 ft.
Static level Unestablished ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	2
Clay	2	26
Basalt rock	26	65
Clay, yellow	65	85
Sandy, little water	85	125
Sandy clay	125	160
Quicksand	160	180
Clay, brown	180	200
Clay, brown, soft	200	210
Clay, brown	210	240
iron rock, water	240	244
hard clay	244	297
Water	297	300

Drilled 10" through basalt
installed 8" steel casing to 219 ft
6" PVC to bottom
6" PVC has cap on bottom

NOTE: S.W.L.
air tested, ~~Yield~~ not established
Draw down unestablished
Yield, approx 15 G.P.M. at time of drilling

Work started July 24, 1979 Completed July 30, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address East 2915 Lincoln Rd Spokane, Wa sh 99207

[Signed] Richard Fisher (Well Driller)

License No. 0132 Date August 13, 1979

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 97
Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ NE ¼ Sec. 23 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 250 ft. Depth of completed well 250 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from +1 ft. to 191 ft.
P.V.C. Threaded ☐ 4" Diam. from 182 ft. to 250 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐ P.V.C.
Type of perforator used SIW
SIZE of perforations 1/8 in. by 6 in.
120 perforations from 190 ft. to 250 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2200 ft.
Static level 150 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 20 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Cold Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
HARD BROKEN SAND	0	2
HARD BROWN CLAY	2	25
BROKEN BASALT	25	28
HARD BASALT	28	55
YELLOW HARD CLAY	55	130
YELLOW CLAY WITH SAND	130	165
SANDY WITH SOME CLAY	165	
SEEPAGE		190
HARD BROWN CLAY WITH	190	
SOME GRAVEL		
AND DECOMPOSIONS - WATER		210
HARD CLAY WITH DECOMPOSION	210	
AND WASHED ROCK		230
HARD CLAY	230	250

RECEIVED

Work started 7/24, 1980 Completed 7/29, 1980

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME AMERICAN DRILLING + DEVELOPMENT Co (Person, firm, or corporation) (Type or print)
Address P.O. Box 14977 SPOKANE WA.
[Signed] (Well Driller)
License No. 0688 Date 9/4, 1980

The Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. X
Permit No.

98

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane ¼ NE ¼ Sec. 23 T. 26 N., R. 43E W.M.
Bearing and distance from section or subdivision corner Attached NE4 of NW4

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 275 ft. Depth of completed well ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 1 ft. to 220 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2330 ft.
Static level 120 ft. below top of well Date 5-11-79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	3
Clay	3	48
Basalt	48	97
Some water at 93 ft, about 2½ g.p.m.		
~~BX~~ Clay, white, yellow, brn	97	265
Water	265	270
Quicksand, hard, fine, no water	275	
Air tested at approximately 10 to 15 G.P.M. at time of drilling		

Work started May 3, 1979 Completed May 10, 1979

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)
Address E 2915 Lincoln Rd Spokane, Wa 99207
[Signed] Andrew F. Fisher (Well Driller)
License No. 0132 Date May 10, 1979

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Applicatic

Permit No.

99

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane Portion of — NE ¼ ¼ Sec. 23 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 108 ft. Depth of completed well 107 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 20 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18+ ft.
Material used in seal Cement & bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 45 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 5 g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

7/30/84

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil	0	2
Br. clay & sand mix	2	14
Br. clay	14	25
Soft to med. soft broken basalt & clay mix	25	70
Lght. grey clay, soft	70	75
Orange clay, soft	75	77
Lght. grey clay, soft.	77	82
Orange clay	82	84
Br. clay	84	97
Br. dark, clay	97	108

RECEIVED
JUL 26 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 6/12, 19 83. Completed 6/17, 19 83

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Land Drilling (Person, firm, or corporation) (Type or print)
Address Rt. 2 Box 82 Elk, Washington 99009
(Signed) Stan Land (Well Driller)
License No. 0983 Date 7/23, 19 84

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 100

Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — ¼ SE ¼ Sec. 23 T. 26 N., R. 43 E.W.M.

Bearing and distance from section or subdivision corner A portion of

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☑ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 300 ft. Depth of completed well 300 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 177 ft.

VC Threaded ☐ 4" Diam. from 164 ft. to 300 ft.

Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐

Type of perforator used PVC sawed vertically

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☑

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☑

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name unknown

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level. 2100 ft.

Static level 170 ft. below top of well Date 7-21-78

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☑ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " "

" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Air tested at time of drilling at 25-35 GPM Draw down unestablished

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☑

8/22/78

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	8
Sand	8	10
Soft, gooey clay & boulders	10	100
Soft clay, no boulders	100	130
Brown clay	130	150
Hard clay at	150	
Started hitting water	150	175
Could be 25 GPM but		
granite sand & decomposed wood		
Clay	175	205
hard clay	205	230
Water bearing	230	250
~~XXXX~~ Clay	250	270
Water bearing	270	300

PVC.

PVC has a 4"-5" fitting reducer and a 5" steel coupling on top

Work started 7-19-78, 19 Completed 7-21-78, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME [illegible] (Person, firm, or corporation) (Type or print)

Address [illegible]

[Signed] [illegible] (Well Driller)

License No. [illegible] Date 8-30 1978

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application N 101

Permit No. —

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ SE ¼ Sec. 23 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

DIMENSIONS: Diameter of well 6 inches.
Drilled 405 ft. Depth of completed well ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 40-7 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test dry gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	2
Clay	2	27
Basalt	27	58
Clay	58	112
Sand	112	121
Clay - different shades of brown	121	405

Work started 10/14, 19 80 Completed 10/16, 19 80

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bartholomew Drilling, Inc. (Person, firm, or corporation) (Type or print)

Address Nine Mile Falls, Wa 99026

[Signed] Gary Bartholomew (Well Driller)

License No. 0051 Date 1/27, 19 81

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

102

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane A parcel in SE ¼ Sec. 23 T. 26N., R. 43E. W.M.

Bearing and distance from section or subdivision corner Mt. St. Michael Lot # 40 Attached

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 78 ft. Depth of completed well 78 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 73 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☑ No ☐
Manufacturer's Name Johnson Division UOP
Type Stainless Steel Model No.
Diam. 6 Slot size 20 from 73 ft. to 78 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☑ No ☐ Size of gravel: Coarse sand
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☑ No ☐
Type of water? sandy Depth of strata
Method of sealing strata off cased off

(7) PUMP: Manufacturer's Name unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 30 ft. below top of well Date May 24, 1979
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG: SW¼ SE¼ SE¼ Sec 23

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	3
Clay and sand	3	40
Water, fine sand & muddy		
Clay and sand	40	60
Clay, hard	60	70
Gravel and water	70	78

Note:
Do not set pump any deeper than 7 ft from bottom of well

Air tested at time of drilling 25 G.P.
Draw down unestablished

Work started May 11, 1979 Completed May 24, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co.
(Person, firm, or corporation) (Type or print)

Address E. 2915 Lincoln Rd. Spokane, Wa 99207

(Signed) [signature]
(Well Driller)

License No. 0132 Date June 7, 1979

Idaho

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application N

Permit No.

103

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane Parcel of land ¼ NE ¼ Sec. 23 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 410 ft. Depth of completed well 400 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 20 ft
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.
P.V.C. lined

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name
Type P.V.C. Model No.
Diam. Slot size 12 from 390 ft. to 400 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18+ ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name /
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 260 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 18 g.p.m. Date
Temperature of water Was a chemical sis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Topsoil	0	2
Brown clay	2	14
Broken basalt & br. clay mix	14	19
Med. hard basalt	19	58
Broken basalt	58	65
Brown clay	65	183
Grey clay	183	218
Fine silica sand (no water)	218	222
White & grey clay layers	222	301
Brown & grey clay layers	301	395
Fine silica sand	395	415
6" steel casing	1	20
6" P.V.C. casing	20	240
4" P.V.C. liner	220	390
4" P.V.C. screen	390	400
4" P.V.C. Liner	400	410

RECEIVED AUG 2 1983

Work started 4/15, 1982 Completed 4/21, 1982

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME SAMS DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 2 Box 82 Elk, Washington 99009

[Signed] Stacy Sams (Well Driller)

License No. 0894 Date 5/30, 1982

28/2/83

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

456-3682

WATER WELL REPORT

STATE OF WASHINGTON

105

Application No.

Permit No.

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County ..... NE ¼ SE ¼ Sec. 13 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner 1 56 34 90 33

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 200 ft. Depth of completed well 200 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1½ ft. to 29 ft.

Threaded ☐ ..." Diam. from ... ft. to ... ft.

Welded ☐ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☐ No ☒

Type of perforator used ....

SIZE of perforations ... in. by ... in.

... perforations from ... ft. to ... ft.

... perforations from ... ft. to ... ft.

... perforations from ... ft. to ... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name ....

Type .... Model No. ....

Diam. .... Slot size .... from .... ft. to .... ft.

Diam. .... Slot size .... from .... ft. to .... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ....

Gravel placed from .... ft. to .... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal BENTONITE

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? .... Depth of strata ....

Method of sealing strata off ....

(7) PUMP: Manufacturer's Name ....

Type: .... H.P. ....

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.

Static level 22 ft. below top of well Date 14 Sept 81

Artesian pressure .... lbs. per square inch Date ....

Artesian water is controlled by .... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☒ No ☐ If yes, by whom? DRILLER

Yield: 8 gal./min. with 1 ft. drawdown after 1 hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....

Bailer test .... gal./min. with .... ft. drawdown after .... hrs.

Artesian flow .... g.p.m. Date ....

Temperature of water .... Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Decomp gran brn wht quartz	0	16
Gran heav frac tan yel med hard	16	23
Gran frac tan mica flak m hard	23	48
Gran occ frac s/p med hard	48	72
Gran frac s/p blk mica specks med hard (1 gpm)	72	76
Gran s/p med hard	76	80
Gran frac green clear wht med hard (1/4 gpm)	80	81
Gran s/p med hard	81	86
Gran frac or wht green med hard (1/4 gpm)	86	87
Gran s/p med hard	87	109
Quartz tan wht med hard	109	127
Gran frac tan wht m h (1 gpm)	127	129
Gran s/p blk mica specks m h	129	139
Gran frac brn wht blk mica med hard (1/2 gpm)	139	142
Gran s/p med hard	142	161
Gran frac yel brn blk m h (1 gpm)	161	162
Gran orange yel wht blk m h	162	181
Gran frac orange pnk wht gold mica flakes m h (4 gpm)	181	185
Gran s/p med hard	185	200

RECEIVED
OCT 12 1981
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Sept. 9, 1981 Completed Sept. 14, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING (Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp Ave., Spokane, 99202

[Signed] James J. Zinkgraf (Well Driller)

License No. 0544 Date Sept. 23, 1981

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Applic: **106**

Permit No. ...

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane, a portion of ... ¼ ... ¼ Sec. 12 T. 20 N., R. 43E WM.

Bearing and distance from section or subdivision corner Lying south of Fairview Road

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 227 ft. Depth of completed well 227 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 1 ft. to 99 ft.
Threaded ☑ PVC 4" " Diam. from 87 ft. to 227 ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2060 (M)
Static level 100 ft. below top of well Date 9-26-77
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	.5
Boken Basalt	.5	90
Clay	90	212
Fine sand	212	220
Clay	220	227

NOTE:
Air tested at estimated 30 G.P.M. from bottom of well
Well has fast recovery

4" PVC has a 4" to 5" belled fitting at top of PVC

Spokane NE¼ Slope
47 4438117 2106 (E)

RECEIVED
OCT 3 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 9-19, 1977 Completed 9-26, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co.
(Person, firm, or corporation) (Type or print)

Address E 2915 Lincoln Rd Spokane, Wa 99207

[Signed] Andrew Fisher
(Well Driller)

License No. 0132 Date Sept 30, 1977

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

107

WATER WELL REPORT
STATE OF WASHINGTON

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane

Bearing and distance from section or subdivision corner — SW ¼ NE ¼ Sec. 15 T. 26 N., R. 43 W.M.

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 353 ft. Depth of completed well 353 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 271½ ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 19 ft.
Material used in seal puddling clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1940 ft.
Static level 168 ft. below top of well Date 3/27/79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
AIR TESTED AT 45 gpm
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formations.

MATERIAL	FROM	TO
fine sand	0	5
fine sand & clay	5	15
fine sand	15	45
coarse sand	45	65
fine sand	65	130
fine sand w/ clay	130	145
coarse sand w/ clay	145	160
gray clay mostt	160	240
fine sand	240	247
coarse sand w/ water 5 - 8 gpm	247	265
black - gray granite	265	268
medium gray granite	268	280
soft decomposed granite 10 gpm	280	282
medium gray granite	282	289
soft decomposed granite 5 gpm	289	291
medium gray granite	291	311
soft white crytaline granite w/ water 10 gpm	311	315
medium gray granite	315	323
soft orange granite w/ 20 gpm	323	330
hard black granite	330	353

RECEIVED

Work started 3/15/ 19 79 Completed 3/27 19 79

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME C&S DRILLING George Clark
(Person, firm, or corporation) (Type or print)

Address RT 3 Box 143 Cheney, Wash.

[Signed] George A Clark
(Well Driller)

License No. 0959 Date 3/30 19 79

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Second Copy — Owner's Copy
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WATER WELL REPORT
STATE OF WASHINGTON

108

) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane NW¼ SE ¼ SW ¼ Sec 14 T 26 N., R 43 E W.M.

ing and distance from section or subdivision corner 1200'N-360'W-5/4 cor

) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(.) DIMENSIONS: Diameter of well 6 inches.
Drilled 75 ft. Depth of completed well 75 ft.

) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from +1½ ft. to 54 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentinite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

) PUMP: Manufacturer's Name
Type: H.P.

(°) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 37 ft. below top of well Date 7/31/74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 7/31/74
Bailer test 35 gal./min. with 20 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0'	1'
Clay, brown	1'	11'
Clay, brown & tan	11'	25'
Clay, brown	25'	32'
Clay, Grey w/basalt rock	32'	36'
Basalt, black, soft	36'	60'
Clay, yellow	60'	67'
Clay, white	67'	71'
Clay, yellow	71'	75'

50 91 ac 1.14
42 75 acres
10
3238.11

Work started July 24 19 74 Completed July 31 19 74

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF WELL DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address B. 1606 Sherp, Spokane, Wash. 99202

[Signed] Carl E. Zinkgraf
(Well Driller)

License No. 0543 Date 8/8/74, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

110

F : Original and First Copy with
I partment of Ecology
S ond Copy — Owner's Copy
T rd Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Applica'

Permit N

(1) OWNER: Name (b) (6) Addre (b) (6)

(2) LOCATION OF WELL: County Spokane — NW ¼ SW ¼ Sec. 36 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner N

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 321 ft. Depth of completed well 321 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 20½ ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18½ ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000' ft.
Static level 35 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? DRILLER
Yield: 2 gal./min. with ft. drawdown after 1 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 53 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	1
Gran decomp soft med hard	1	3
Gran brn wht med hard	3	15
Gran brn wht med h to h side	15	30
Gran brn blk wht m h to h si	30	42
Gran brn wht med h hard side	42	50
Gran blk brn wht hard side	50	60
Gran brn wht hard side	60	65
Gran wht hard	65	66
Gran blk brn frac h side	66	75
Gran wht brn crys frac med hard hard side	75	78
Gran green wht crys frac med hard (moisture)	78	88
Gran blk brn hard side	88	99
Gran blk purp wht frac m h	99	104
Gran blk wht crys hard side	104	125
Gran cloudy grey brn frac m h	125	130
Gran blk green purp frac m h (1 gpm)	130	133
Gran blk green hard	133	138
Gran wht blk lav h side	138	148
Gran blk wht green h si	148	150
Gran wht lav hard	150	155
Gran wht lav green frac h si	155	173
Gran grey green brn se frac h si med hard	173	176
Gran grey green frac h side	176	188
Gran grey crys hard side	188	192
Gran pnk green blk h side	192	195
Gran wht green frac h side	195	198
Gran blk wht spots h side	198	207
Gran blk green wht h side	207	213
Gran green wht frac m h h si	213	217
Gran blk wht spots h side	217	233

(CONTINUED ON REVERSE SIDE)

Work started June 1, 1983 Completed June 6, 1983

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING (Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp Ave., Spokane, 99202

[Signed] Jack F. Zinkgraf (Well Driller)

License No. 0545 Date June 10, 1983

111

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Applic

Permit No. 99208

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane — NW ¼ SW ¼ Sec. 36 T. 26 N., R. 43E W.M.

Bearing and distance from section or subdivision corner 3Acres within 36M

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 155 ft. Depth of completed well 155 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 22 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Unknown
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 55 ft. below top of well Date 5-12-81
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	3
Granite, decomposed	3	35
Granite, Dec white	35	50
interlain quartz seams		
Granite, Dec, white	50	75
Granite, firmer	75	90
Granite, softer	90	95
Some water	95	105
Granite, Decomposed, pink	105	106
Granite, decomposed	106	130
Granite, dec, softer	130	132
About 4-5 G.P.M. water		
Granite, Dec., soft	132	155
Air tested at time of drilling estimated at 4 to 5 G.P.M.		
Draw down unesteblished		
Good water in various layers between 200 to 460 ft		

Work started 5-11-81, 19 Completed 5-12-81, 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Fisher Supply Co. (Person, firm, or corporation) (Type or print)

Address E 2915 Lincoln Rd. Spokane Wa. 9920

[Signed] Andrew Fisher (Well Driller)

Copy — Driller's Copy

STATE OF WASHINGTON

Permit No. ....

112

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane SW ¼ SE ¼ Sec 36 T 26 N., R 43 W.M. 36Q

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one).... New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 260 ft. Depth of completed well 260 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 26 ft.
Threaded ☐ ____" Diam. from ____ ft. to ____ ft.
Welded ☒ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type ____ Model No. ____
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ____ Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ____ H.P. ____

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ____ ft.
Static level 30 ft. below top of well Date 3-15-77
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
" " " "
This Test Approx 5 to 6 GPM

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	3
Decomposed Granit	3	21
Granit	21	260

RECEIVED
MAR 29 1977
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 3-12, 1977 Completed 3-15, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J & J Drilling Inc. (Person, firm, or corporation) (Type or print)

Address 13021 E 9th Spokane, WA. 99216

[Signed] Gerald R Johnson (Well Driller)

License No. 0215 Date 3-16, 1977

3/30/77

(USE ADDITIONAL SHEETS IF NECESSARY)

ecy 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County SPOKANE — NE¼ NW¼ Sec. 36 T. 26 N., R. 43 E W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 170 ft. Depth of completed well 170 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from -1 ft. to 19 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 19 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? Surface Depth of strata 12-13
Method of sealing strata off Case + Seeled

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level 2080 ft.
Static level ..... ft. below top of well Date .....
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Yield: 2 gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.

(10) WELL LOG:
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
topsoil, very fine sand + gravel	0	13
Granite - decomposed, brown + yellow - very soft	13	35
Granite - black, coarse grained - med. hard	35	43
Granite - decomposed brown white + yellow - very soft	43	62
Granite - black same as above	62	70
1 GPM @ 61'		
Granite - alternating decomp + hard black	70	170

RECEIVED
[illegible] 1980
DEPARTMENT OF ECOLOGY
[illegible] REGIONAL OFFICE

Work started 2-6 1980 Completed 2-6 1980

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Allbery Drilling (Person, firm, or corporation) (Type or print)
Address 6227 N. CANNON, SPOKANE 99208
[Signed] E Johnson (Well Driller)

Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

115

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane

Bearing and distance from section or subdivision corner 1/4 S.W. N.E. 1/4 Sec. 36 T. 26 N., R. 43 E.W.

366

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 300 ft. Depth of completed well 300 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 44 ft.
Threaded ☐ ____" Diam. from ____ ft. to ____ ft.
Welded ☒ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used ____
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ____
Type ____ Model No. ____
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ____
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ____ Depth of strata ____
Method of sealing strata off ____

(7) PUMP: Manufacturer's Name ____
Type: ____ H.P. ____

(8) WATER LEVELS: Land-surface elevation above mean sea level 0 ft.
Static level 28 ft. below top of well Date 5-27-76
Artesian pressure ____ lbs. per square inch Date ____
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? ____
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
Air Test Approx 6-6 PM "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ____
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Artesian flow ____ g.p.m. Date ____
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	2
Decomposed Granite	2	38
Granite	38	300

RECEIVED
JUL 07 1976
1130
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 5-26, 1976. Completed 5-29, 1976.

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME J & J Well Drilling (Person, firm, or corporation) (Type or print)

Address 3021 E 9th Spokane Wn.

[Signed] Gerald R Johnson (Well Driller)

License No. 0215 Date 6-8, 1976

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Appli

Permit No.

116

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County SPOKANE — NE ¼ SW ¼ Sec. 35 T. 26 N., R. 43 E. W.M.
351

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 105 ft. Depth of completed well 105 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 2 ft. to 21 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [ ] No [X]
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.
Material used in seal PUDDLING CLAY
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 50 ft. below top of well Date 11-10-80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 10.5 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date 11-10-80
Temperature of water 60.0 Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
TOP SOIL	0	10
DECOMPOSED GRANIT	10	100
HARD GRANIT	100	105

RECEIVED
[illegible]
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 11-9-80, 19 Completed 11-10, 19 80

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Northwest Water Wells, Inc. (Person, firm, or corporation) (Type or print)

Address Box 1059 Hayden Lake, Idaho 83835

[Signed] Clarence Shulz (Well Driller)

License No. 0641 Date 12-11, 1980

12/29/80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application
Permit No. ....

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — SW ¼ SE ¼ Sec 35 T 26 N., R 43E W.M.
Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 440 ft. Depth of completed well 440 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 30 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 2400 ft.
Static level 240 ft. below top of well Date 11/10/80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 1½ gal./min. with ft. drawdown after hrs.
" Est. Airlift " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Overburden	0	2
Sand & Gravel	2	29
Granite, Traces of Water	29	440
No PVC Liner Installed		
6" Drive Shoe Installed		

Work started November 6 19 80. Completed November 10 19 80

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ponderosa Drilling & Development, Inc.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99206

[Signed] Truman R. Langton
Truman Langton (Well Driller)

License No. 1027 Date November 11, 1980

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ....
Permit No. ....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — NE ¼ NW ¼ Sec. 31 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 83 ft. Depth of completed well 83 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 20 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To ~~what depth?~~ 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2069 ft.
Static level 25 ft. below top of well Date 6-9-78
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 4 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Basalt - Broken	0	15
- Hard	15	25
Dried	25	35
Clay white	35	40
" Brown	40	50
" Grey	50	60
Basalt	60	83

RECEIVED
JUN 26 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 6-9, 1978. Completed 6-9, 1978

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Graham Drilling (Person, firm, or corporation) (Type or print)
Address Box 772 Deer Park Wa.
[Signed] Leo C. Graham (Well Driller)

119

LOG.—Continued No. ..... / .....

Material	Thickness (feet)	Depth (feet)
Depth forward	—	
perforated steel casing with 3/8"x4" slots, 6" c.c. both ways with perforations beginning 4 ft. down from top of casing and ending 5 ft. from bottom.		
PERFORATIONS:		
88 from 220 to 274 ft.		

S. F. No. 7442—12-54—3M. 40108.

City of Spokane

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

119

WELL LOG No. Appli. #5309

Date 2-16, 1961.
Record by well driller
Source driller's record

Location: State of WASHINGTON
County Spokane
Area
Map Blk.14, Byrne Add.
~~sec~~ 31 T. 26N., R. 43 E.

Diagram of Section

Drilling Co. Oliver F. Zinkgraf
Address E.1606 Sharp Ave., Spokane, Wash.
Method of Drilling dug Date Apr. 1, 1960
Owner City of Spokane, Utilities Div.
Address Spokane, Wash.
Land surface, datum ..... ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Medium sand, silt & some clay	150	150
	Med. sand, some clay & gravel	5	155
	Coarse sand, some clay	5	160
	Tight sand & clay	5	165
	Coarse sand & gravel	50	215
	Sand & gravel	57	272
	PUMP TEST:		
	Dim. 272'x8"		
	SWL: 216 ft.		
	DD: 3 ft.		
	Yield: 4200 g.p.m.		
	Water Temp. 52°F.		
	CASING:		
	84" diam. from 214 to 272 ft.		
	SHOE: ½" thick steel plate		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ..... of ..... sheets

25/45E 31A

120

)G.—Continued No. ...../.....-.....

Material	Thickness (feet)	Depth (feet)
Depth forward		
Coarse sand and some grav.	32	280
Extra coarse sand and stronger to gravel	5	285
Gravel and coarse sand	5	290
Coarse sand and gravel	20	310
Fine sand	1	311
Coarse sand and gravel	1	312

'ump. test:
Dim: 16" x 312'
SWL: 210'
Dd: 22'
Yield: 900 g.p.m.
Casing: not given
Perforations: 16-3/8" x 2 1/4"
24 - 3/8" x 2 1/4"
Pump: Deep well turbine 10"
Motor: 75 h.p. electric motor
Temp: 48°

S. F. No. 7440—12-54—3M. 42108.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Per. 448

WELL LOG No. Apply. 486 Cert.

Date March 11, 1955
Record A. R. Reed
Source Driller's record

Location: State of WASHINGTON
County Spokane
Area
Map
SE ¼ NW ¼ sec. 30 T 26 N., R. 43 E.

Diagram of Section

Drilling Co. A. R. Reed
Address P. O. Box 421 Route 2, Chico, Calif.
Method of Drilling Drilled Date May 7, 1955
Owner Town & Country Utilities Inc.
Address Box 7012, Garland Sta., Spokane
Land surface, datum ..... ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand	66	66
	Sand and clay	4	70
	Sand	8	78
	Sand and clay	6	84
	Sand	50	134
	Coarse sand & small egg-sized stones	12	146
	Coarse sand and occasional small granite boulders	26	172
	Coarse sand and som grav.	18	190
	Coarse sand	10	200
	Coarse sand - Water at 212'	12	212
	Coarse sand and some grav.	18	230
	Coarse sand and some grav.	10	240
	Poa gravel	8	248

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up Sheet ..... of ..... sheets

120

26N/43E-30F

WWP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-30R1

(Status as of April 21 1942)

OWNER: (b) (6) [redacted] ADDRESS (b) (6) [redacted]

LOCATION: County Spokane SE ¼ SE ¼ sec. 30 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: 2074 feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1910+ Depth 238 feet.

CASING: Depth 238 feet, Diameter 18 inches, Finish

CHIEF AQUIFER: Sand from 0 feet, to 238 feet.
Others

WATER LEVEL: 229 feet Rept., ~~Meas~~ 19

~~above~~ below top of tile casing which is feet above below surface.

PUMP: Type Piston H. P.

YIELD OF WELL: Flow gpm. Pump gpm. Meas. Rept. Est.
Drawdown (not appreciable) feet after hours pumping gpm.

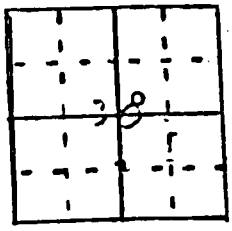
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None, at present

REMARKS: Rock at bottom

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-30G1
(Status as of April 21 19 42)

OWNER: Holy Cross Cemetery ADDRESS 1115 N. Riverside Ave.

LOCATION: County Spokane SW ¼ NE ¼ sec. 30 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: 2046+ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1931 Depth 218 feet.

CASING: Depth 207 feet, Diameter 60+ inches, Finish Perforated

CHIEF AQUIFER: Sand and gravel from 0 feet, to 228 feet.
Others few boulders

WATER LEVEL: 207 feet Rept., ~~Meas.~~ May 1931 19

~~above~~ below surface ~~which is~~ ~~feet~~ ~~above~~ ~~below~~ ~~surface.~~

PUMP: Type Deep well turbine H. P. 30

YIELD OF WELL: Flow gpm. Pump 150 gpm. Meas. Rept. Est.
Drawdown 0.22 feet after 24 hours pumping 150 gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Well blows

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

123

L LOG.—Continued No. ..... / .....

Correlation	Material	Thickness (feet)	Depth (feet)
	Depth forward	———	
	from 239 to 259 ft.		

8/8/1978
this well was in
Charter mobile Home Park
& has been destroyed & no
longer exists (L. Byrne Sewell)
Z Larrel

B. F. No. 7[illegible]—12-54—3M. [illegible]08.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

123

WELL LOG No. Appl. 3727
Cert. 2850-A

Date Aug. 6, 1956
Record by well driller
Source driller's record

Location: State of WASHINGTON
County Spokane
Area
Map

Diagram of Section

W½SE ¼ SE ¼ sec. 29 T. 26 N., R. 43 E. WM

Drilling Co. Leroy A. Ray
Address Spokane, Wash.
Method of Drilling Date ....., 19....
Owner Phillip A. Ryker
Address Spokane, Wash.
Land surface, datum ..... ft. above/below

Correlation	Material	Thickness (feet)	Depth (feet)
	Clay, sand & gravel	218	218
	W/b sand & gravel	21	239
	W/b gravel with some sand	20	259
	PUMP TEST:		
	Dim. 259'x8"		
	SWL: 218 ft.		
	DD: --		
	Yield: 30 g.p.m.		
	Water Temp.: 54°		
	Type & size of pump: 2 h.p. Demyster Sub.		
	Type & size of motor: 2 h.p. electric		
	CASING: 8" diam. steel pipe from 0 to 259 ft.		
	8" shoe at 259 ft.		
	Perforated casing - 3 3/16" x 12"		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up (over) Sheet ..... of ..... sheets

26N/43E 29R

e Original and First Copy with
partment of Ecology
cond Copy — Owner's Copy
ird Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane / a parcel of land in ¼ NE ¼ Sec. 26 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 120 ft. Depth of completed well 120 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from 0 ft. to 105 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☑ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 20 ft.
Material used in seal Cement, bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 2200 ft.
Static level 75 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 8 g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Grey clay	0	18
White clay	18	47
Grey clay	47	81
Brown clay	81	96
Grey clay	96	113
Grey brown clay	113	120
Aquifer	115'	

RECEIVED
1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 6/30 19 80 Completed 6/31 19 80

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Sams Drilling (Person, firm, or corporation) (Type or print)

Address Box 82 Elk, Wash 99009

[Signed] [illegible] (Well Driller)

License No. 0595 Date 7/8 19 80

125

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No. 22756

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SE ¼ NE ¼ Sec 26 T 26 N., R 43E W.M.

Bearing and distance from section or subdivision corner Tract 5,6,7, Plat of Mission Tracts 26H

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 425 ft. Depth of completed well 425 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 60 ft.
~~Welded~~ ☐ 4 " Diam. from 25 ft. to 405 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used saw
SIZE of perforations 1/8 in. by 6 in.
400 perforations from 205 ft. to 405 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal betonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level... 2300 ft.
Static level 80 ft. below top of well Date 8/24/82
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 20 g.p.m. Date 8/24/82
Temperature of water Cold Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
top soil	0	3
sand, gravel, clay	3	16
decomp.material clay binder	16	49
decomp seal granite	49	50
soft decomp granite	50	57
semi hard gray granite	57	61
fractures layers granite	61	78
soft black & white granite	78	87
semi hard black & white granite	87	102
fracture white quarts seep	102	103
semi hard black & white	103	132
fracture white quarts seep	132	134
semi hard decomp granite	134	166
fracture quarts	166	171
semi hard black & white granite	171	193
fracture black & white granite	193	
water app. 5 g.p.m.		195
semi hard black & white	195	216
balck & white some quarts	216	305
hard black & white Granite	305	392
green fractured granite water	392	394
semi hard black & white with	394	
seams of quarts		425

Permit: GPM
Lic 7 8/24
20.7
6 AC

Work started 8/12/ 19 82 Completed 8/24/ 19 82

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Murphy Drilling Company (Person, firm, or corporation) (Type or print)

Address E. 17220 Linke Rd. Greenacres, Wa. 99016

[Signed] Bill O Murphy (Well Driller)

License No. 0332 Date 8/25/ 19 82

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane
Bearing and distance from section or subdivision corner ... Sec 20 T.26 N., R.43E W.M.

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ...
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 225 ft Depth of completed well 225 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 56 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐ P.V.C. Pipe
Type of perforator used saw
SIZE of perforations 1/4 in. by 12 in.
80 perforations from 185 ft. to 225 ft
40 perforations from 145 ft. to ~~155~~ 165 ft
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 18
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 127 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 7 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water cold Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Fill sand boulders etc.	0	17
gravel & boulders	17	30
P gravel	30	42
P gravel & boulders	42	56
decomp. granite	56	68
hard clay	68	69
decomp. granite w/hard seams	69	112
firm black & white	112	144
soft seams decomp granite	144	146
firm b&w W/granite quartz	146	208
soft seam decomp broken area	208	212
firm black & white	212	225
water 112		
water 146		
water 212		

RECEIVED
OCT 08 1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 10/8/ 19 79 Completed 10/10/ 19 79

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME American Drilling & Development Inc. (Person, firm, or corporation) (Type or print)
Address P.O. Box 14977 Spokane, Wa. 99214
[Signed] [signature] (Well Driller)
License No. 0688 Date 11/15/ 19 79

Fi Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Applicat

Permit (b) (6)

(1) OWNER: Name (b) (6) Addres (b) (6)

(2) LOCATION OF WELL: County Spokane — SW ¼ SW ¼ Sec 25 T 26 N., R 43E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 205 ft. Depth of completed well 205 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from +1½ ft. to 56.4" ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal BENTONITE + CLAY
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P. 2HP

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.
Static level 48 ft. below top of well Date 4-16-82
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? DRILLER
Yield: 5 gal./min. with 46 ft. drawdown after 1 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date

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APR 20 1982
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	1
Clay lite brn firm	1	2
Cla brn decomp gran firm	2	3
Gran brn wht decom m h to soft	3	8
Gran brn wht mix coarse grav cl bind m h softer	8	13
Clay brn dec gran brn wht mix med hard softer	13	45
Gran brn wht med hard	45	47
Gran tan cl brn m h to soft	47	54½
Gran brn wht med h to h si	54½	58
Gran wht tan w/mica h si	58	59
Gran green grey wht h si	59	64
Gran green grey wht frac m h	64	75
Gran brn yel grey h side	75	76
Gran salt pep lav frac h si m h	76	80
Gran wht crys h side	80	83
Gran blk wht pnk cl frac m h hard side (3 gpm)	83	95
Gran salt pep wht h side	95	99
Gran blk wht hard	99	101
Gran blk wht frac h si	101	106
Gran blk wht brn frac m h	106	110
Gran blk wht crys h side	110	112
Gran salt pep hard	112	113
Gran salt pep lav hard side	113	124
Gran wht lav gre frac m h h si	124	126
Gran salt pep lav h side	126	131
Gran blk wht hard	131	135
Gran blk wht ornge m h to h si	135	137
Gran blk wht brn h si	137	142
Gran blk wht mica frac (4gpm)	142	150½
Gran salt pep hard	150½	152
Gran blk wht brn h side	152	162
Gran blk wht hard	162	165
Gran blk wht purp frac m h to h side (5 gpm)	165	170

Work started Apr. 8, 1982 Completed Apr. 16, 1982

WELL DRILLER'S STATEMENT: (OVER

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING CO. (Person, firm, or corporation) (Type or print)

Address E. 1606 Sharp Ave., Spokane, 99202

[Signed] Jack F. Zinkgraf (Well Driller)

Jack F. Zinkgraf
0545 Date Apr. 16, 1982

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File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

MAY 3 0 1983 Application
DEPARTMENT Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County SPOKANE — SW ¼ SW ¼ Sec. 25 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner 25N

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 285 ft. Depth of completed well 281 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 96 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 19 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: HP 2 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level 2000 ft.
Static level 16 ft. below top of well Date
Artesian pressure lbs. per square inch Date 2 MAY 83
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? DRILLER
Yield: 7 gal./min. with ft. drawdown after 1 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 52° Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	2½
Clay yellow brn med hard	2½	7
Gran brn clay bind med hard	soft	7-14
Clay brn gumbo hard	14½	24
Gran brn wht frac brok brn clay bind med hard softer	24	87
Gran brn wht frac brn cl bind med hard	87	93
Gran brn grey blk frac m h to h si		93-
Gran brn wht blk med hard	109	111
Gran wht blk brn frac h si	111	116
Gran brn wht blk frac m h h si	116	1
Gran orn wht blk frac clay m h	122	1
Gran green wht brn h side	125½	141
Gran blk wht brn hard	141	145
Gran blk wht spots brn h side	145	152
Gran blk green cr cl fra h si	152	155
Gran pnk brn frac mel se med hard (5 gpm)	155	159
Gran blk wht lav hard side	159	168
Gran blk grey wht frac h si m h	168	1
Gran blk wht frac hard side	180	197
Gran blk green creamy frac med hard hard side	197	216
Gran grey blk wht hard side	216	234
Gran green blk hard	234	236
Gran blk wht brn frac med hard hard side (6 gpm)	236	255
Gran blk wht brn hard side	255	268
Gran pnk grey crys ivory frac med hard (7 gpm)	268	278
Clay grey med hard (unstable)	278	280
Gran brn blk wht frac med hard	280	285

Work started Apr 27, 1983 Completed May 2, 1983

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING (Person, firm, or corporation) (Type or print)
Address E. 1606 Sharp Ave., Spokane, 99202

[Signed] Jack F. Zinkgraf (Well Driller)
Jack F. Zinkgraf

License No. 0545 Date May 7, 1983

Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Applica
Permit

(b) (6)

(1) OWNER: Name ..... Address ..

(2) LOCATION OF WELL: County Spokane — NE ¼ SE ¼ Sec 24 T 26 N., R 43E W.M.

Bearing and distance from section or subdivision corner 24J

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 136 ft. Depth of completed well 134 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1½ ft. to 83½ ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2375 ft. 2300
Static level 95 ft. below top of well Date 20 MAR 81
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? DRILLER
Yield: 10½ gal./min. with ft. drawdown after 1 hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil	0	2
Clay brn dry med hard	2	5
Clay tan gumbo hard	5	6
Clay tan coarse grav mix firm	6	7
Clay lite brn gumbo hard	7	22
Clay brn gumbo hard	22	36
Clay brn med hard	36	43
Clay brn gumbo hard	43	46
Clay brn med hard	46	48
Clay brn [illegible]	48	49
Clay brn hard side	49½	53
Clay brn gumbo hard	53	60
Clay drk brn med hard	60	66
Clay brn gumbo hard	66	69½
Clay brn bas chunks h side	69½	71
Clay drk brn gritty hard	71	74
Clay tan gumbo hard	74	76
Clay brn blu grey grit m h	76	82
Bas blk brok wht cl med hard	82	83
Bas blk vas frac h side	83	83
Bas blk frac vas hard side	83½	90
Bas blk frac brn seams h si	90	95
Bas blk sl frac brn seams hard	95	97½
Bas blk vas brn gr se m h	97½	98½
Bas blk frac brn yel sant gr clay		
blue med hard	98½	100½
Bas blk sl frac brn s h si	100½	102
Bas blk hard	102	107
Bas blk blu gr seams hard	107	109
Bas blk iron pyrite se h si	109	112½
Bas grey blk b n gren se m h	112½	114½
Bas grey blk sl frac wht grn s h si	114½	117
Bas grey blk very hard	117	130
Bas grey blk sl frac brn se h	130	131
Bas blk brn frac brn se hs to m h	131	134

Work started Mar. 17, 1981 Completed Mar. 20, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINGER FIR WELL DRILLING
(Person, firm, or corporation) (Type or print)

Address 1606 Sharp Ave., Spokane, 99202

[Signed] Jack F. Zinger
Jack F. Zinger (Well Driller)

130

Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application:
Permit #:

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Spokane — SW ¼ NE ¼ Sec 24 T. 26 N., R 43 E W.M.

Bearing and distance from section or subdivision corner 24G

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 65 ft. Depth of completed well 62 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from +1½ ft. to 18½ ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18½ ft.
Material used in seal Cement
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2425 ft.
Static level 56 ft. below top of well Date 10/12/82
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Yield: 10-12 gal./min. with ft. drawdown after 1 hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 56 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	2
Clay lite brn med hard	2	10
Clay brn soft fo med hard	10	16½
Clay brn gumbo hard	16½	17½
Bas blk vas frac hard side	17½	20
Bas blk brn seams frac vas hard side to medium hard	20	21
Bas blk brn seams frac vas hard side	21	25
Bas blk brn seams hard	25	28
Bas blk orange se frac m h	28	29
Bas blk brn se hard side	29	32
Bas grey blk hard	32	38
Bas grey blk frac brn se hard (1/2 gpm)	38	38½
Bas grey blk grey seams very hard	38½	55
Bas grey frac tan se h side	55	57
Bas grey brn frac brok brn clay bind hard side to med hard (10-12 gpm)	57	63½
Clay brn gumbo hard	63½	65

Work started Oct 11 19 82 Completed Oct 12 19 82

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ZINKGRAF'S WELL DRILLING (Person, firm, or corporation) (Type or print)

Address E.1606 Sharp Ave., Spokane, 99202

[Signed] Jack F. Zinkgraf (Well Driller)

License No. 0545 Date Oct. 27, 1982

11/4/82

(USE ADDITIONAL SHEETS IF NECESSARY)

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WATER WELL REPORT

STATE OF WASHINGTON

(1) **OWNER:** Name (b) (6) Address (b) (6)

(2) **LOCATION OF WELL:** County Spokane — NE ¼ SW ¼ Sec 24 T 26 N., R 43 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one)....

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 120 ft. Depth of completed well 117 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6" Diam. from 0 ft. to 72 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 40 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) **PUMP:** Manufacturer's Name
Type: H.P.

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 2385 ft.
Static level 82 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 10 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
~~overburden~~	~~0~~	~~4~~
~~Clay Hard-Rubbery~~	~~4~~	~~47~~
~~Clay med.~~	~~72~~	~~117~~
	~~117~~	~~120~~
overburden	0	4
Clay Hard.	4	47
Clay med.	47	72
Basalt	72	117
Clay	117	120

DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 4-11 1983 Completed 4-12 1983

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME GRAHAM DRILLING (Type or print)
P.O. BOX 772
DEER PARK, WA 99006
276-6444
Address

[Signed] Leo C Graham (Well Driller)

Date 4-12 1983

e Original and First Copy with
partment of Ecology
cond Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County SPOKANE — SE ¼ SE ¼ Sec. 23 T. 26 N., R. 43E W.M.
Bearing and distance from section or subdivision corner PARCEL # H23634-9074

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well ☒ Method: Dug ☒ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 182 ft. Depth of completed well 182 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from +1 ft. to 120 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? surface Depth of strata 15'
Method of sealing strata off bentonite

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2300 ft.
Static level 95 ft. below top of well Date 7/19/84
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: 7 gal./min. with ft. drawdown after hrs.
" ESTIMATED AIRLIFT " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	4
Clay, brown w/basalt, brown, broken w/surface water	4	16
Clay, gray, soft	16	88
Clay, brown, flakey w/burnt wood & cinders w/water	118	135
Clay, brown, flakey	135	182
175' PVC Liner Installed		
6" Drive shoe installed		
NOTE: Recommend setting pump between 125 - 130		

RECEIVED
JUL 25 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 7/17/84, 19 Completed 7/19/84, 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT INC. (Person, firm, or corporation) (Type or print)
Address E. 6010 Broadway, Spokane, WA 99212
[Signed] Douglas E. Lane (Well Driller)
Douglas E. Lane
License No. 1030 Date 7/19, 19 84

Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane — SW¼ NE¼ Sec 20 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner 20 G

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 80 ft. Depth of completed well 80 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from -1 ft. to 25 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 25 ft.
Material used in seal Puddling Clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2010 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Overburden Sand + Soil	0	5
Sand Brown Soft	5	15
Gravel ½" Gray Soft	15	20
Holey Basalt Gray Med	20	25
Basalt Gray Hard	25	60
Holey Basalt Gray Med (Water)	60	77
Clay Brown & Yellow Med	77	80
Airtest 5 GPM		

RECEIVED
NOV 8 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Sept 13 1979 Completed Sept 13 1979

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME C+S Drilling (Person, firm, or corporation) (Type or print)
Address W. 7724 Lake Spokane 99208
[Signed] Allen Dodger (Well Driller)
License No. 1004 Date Sept 15 1979

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No.
Permit No.

(1) OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County SPOKANE — SW¼ NE¼ Sec. 20 T. 26 N., R. 43 W.M.
Bearing and distance from section or subdivision corner 20 G

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 200 ft. Depth of completed well 200 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from -1½ ft. to 23½ ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 22' ft.
Material used in seal BENTONITE + MIX
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 2020 ft.
Static level 46 ft. below top of well Date 09-06-79
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
OVERBURDEN (SANDY CLAY SOIL)	0	6'
HARD BROWN-GRAY CLAY - WITH GRAVEL AND HOLEY GRAY BASALT	6'	11'
MED. BROWN GRAY CLAY WITH SAND & GRAY BASALT	11'	21'
HARD GRAY CLAY	21	23
MED. GRAY BASALT	23	27
HARD GRAY BASALT	27	38
MED GRAY HOLEY BASALT (MOIST)	38	53
HARD GRAY BASALT	53	65
MED GRAY BASALT - WATER)	65	78
HARD ORANGE-YELLOW CLAY - WATER	78	97
HARD WHITE CLAY	97	102
HARD BROWN CLAY	102	107
HARD WHITE-GRAY CLAY	107	117
HARD BROWN CLAY	117	131
SOFT BROWN CLAY WITH SAND	131	144
HARD BROWN WHITE CLAY	144	159
HARD BROWN CLAY WITH SAND MIXED	159	200

AIR TEST - 2 G.P.M.

RECEIVED
NOV 8 1979
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 09-04, 1979 Completed 09-06, 1979

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME C&S DRILLING - W7724 LUKE - SPOKANE 99204
(Person, firm, or corporation) (Type or print)

Address

[Signed] George Clark
(Well Driller)

License No. 0959 Date 09-25, 1979

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6320D

Well No. 2A

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Appl. #6588 6911

WELL LOG

No. ..... / ..... - .....

Date December 3, 1964

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

NW ¼ NW ¼ sec. 20 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Holman Drilling Corporation

Address 3410 E. 9th, Spokane, Washington

Method of Drilling Driven Date June 12, 1962

Owner Whitworth Water District No.2

Address E.29 Hawthorne Road, Spokane, Washington

Land surface, datum ..... ft. above / below

Correlation	Material	Thickness (feet)	Depth (feet)
	Municipal supply well		
	Top soil	0	2
	Silty sand	2	105
	Sand & gravel (very hard)	105	198
	Sand (coarse-water bearing)	198	207
	Sand & gravel (water bearing)	207	286
	Casing: 16" from 0 to 253'		
	No perforations		
	Screened from 253 to 286'		
	SWL: 152' on June 12, 1962		
	Yields 1800 gpm with 9' dd after 4 hours		
	45 second recovery		
	June 12, 1962		
	Pump: 150 HP turbine		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ..... of ..... sheets

26/43-20D

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-21F1
(Status as of May 1 1942)

OWNER: Defense Plant Corp. ADDRESS Spokane

LOCATION: Magnesium Plant County Spokane NW ¼ NE ¼ sec. 20 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: 1065+ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date April 1942 Depth 163+ Feet. not complete

CASING: Depth ____ feet, Diameter 72 inches, Finish ____

CHIEF AQUIFER: Coarse sand from ____ feet, to ____ feet.
Others ____

WATER LEVEL: 162.6 feet ~~Depth~~, Meas. May 1 1942

~~above~~ below top of wood crib on North side which is at ____ ~~above~~ below surface.

PUMP: Type ~~none~~ H. P. 50-200

YIELD OF WELL: Flow ____ gpm. Pump ____ gpm. Meas. Rept. Est.
Drawdown ____ feet after ____ hours pumping ____ gpm.

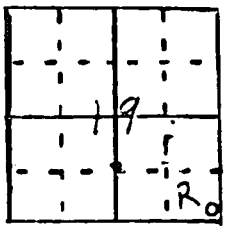
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: ____

WELL LOG, From ____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON Well No. 26/43-19R1

(Status as of May 22 1951)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane NE ¼ SE ¼ sec. 19 T. 26 N., R. 43 E.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1945 Depth 248 feet.

CASING: Depth _____ feet, Diameter 6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 218 feet Rept., ~~Meas.~~ May 22 1951

~~above~~ below surface ~~xxxxxxxx~~ _____ feet ~~above~~ below ~~xxxxxx~~.

PUMP: Type lift, electric Jack H. P. 2

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

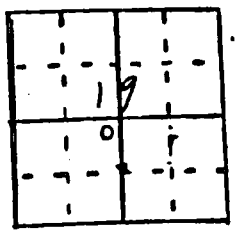
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Sand to 220 feet River gravel up to 4" 220 to 248 feet.

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON

Well No. 26/43-19L2

(Status as of May 21 1951)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane NE ¼ SW ¼ sec. 19 T. 26 N., R. 43 E. W.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date _____ Depth 146 feet.

CASING: Depth _____ feet, Diameter 30 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: _____ feet Rept., Meas. _____ 19____
above / below _____ which is _____ feet above / below surface.

PUMP: Type Jet H. P. 5

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

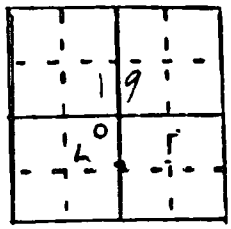
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Well has caved above bottom pump pipe-not measureable.

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON

Well No. 26/43-19L1

(Status as of May 21 1951)

OWNER: (b) (6) ADDRESS Spokane

LOCATION: County Spokane NE ¼ SE ¼ sec. 19 T. 26 N., R. 43 E.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date March, 1951 Depth 173 feet.

CASING: Depth _____ feet, Diameter 6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: _____ feet Rept., Meas. _____ 19____

above / below _____ which is _____ feet above / below surface.

PUMP: Type Jet H. P. 2

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Went through hard rock (basalt)?

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-19J1

(Status as of May 22 1951)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane NE ¼ SE ¼ sec. 19 T. 26 N., R. 43 E. W.M.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date Aug, 1947 Depth 157 feet.

CASING: Depth _____ feet, Diameter 6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 140 feet ~~Rept.~~, Meas. May 22 1951
~~x above~~ below surface ~~_____~~ ~~feet~~ ~~taken~~ ~~below~~ ~~surface~~.

PUMP: Type lift, jack H. P. 1

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

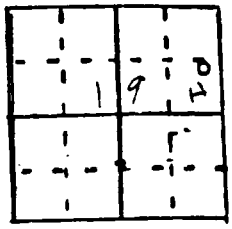
USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.
(Trailer Court-Service Station)

REMARKS: _____

WELL LOG, from owner

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)
Sand	135	135			
Gravel	22	157			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



STATE OF WASHINGTON

Well No. 26/43-19H1

(Status as of April 18 1942)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane NE ¼ NE ¼ sec. 19 T. 26 N., R. 43 E.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date 1940 Depth 148 feet.

CASING: Depth _____ feet, Diameter 5 5/8 inches, Finish open

CHIEF AQUIFER: Gravel from 130 feet, to 148 feet.
Others _____

WATER LEVEL: ~~17.18~~ 135.1 feet Rept., ~~Meas.~~ April 18 19~~42~~ 42

above below below surface which is ~~7.3~~ feet ~~above below~~ surface.

PUMP: Type Turbine? H. P. 1.5

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Log: sand on top, sand with gravel below

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

146 (147)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF WASHINGTON

Well No. 26/43-19G1

(Status as of May 21 1951)

OWNER: (b) (6) ADDRESS (b) (6)

LOCATION: County Spokane SW ¼ NE ¼ sec. 19 T. 26 N., R. 43 E.

LAND SURFACE DATUM: _____ feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date April 1951 Depth 165 feet.

CASING: Depth _____ feet, Diameter 6 inches, Finish _____

CHIEF AQUIFER: _____ from _____ feet, to _____ feet.
Others _____

WATER LEVEL: 155 feet Rept., ~~Meas.~~ May 21 1951
~~above~~ below surface ~~[illegible]~~ ~~feet above below~~ ~~surface.~~

PUMP: Type lift, electric jack H. P. 2

YIELD OF WELL: Flow _____ gpm. Pump _____ gpm. Meas. Rept. Est.
Drawdown _____ feet after _____ hours pumping _____ gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS: Sand all the way

WELL LOG, from _____

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

	10
1	9

STATE OF WASHINGTON

Well No. 26/43-19A1
(Status as of Jan. 22 1938)

OWNER: Country Homes Estates ADDRESS

LOCATION: County Spokane NE ¼ NE ¼ sec. 19 T. 26 N., R. 43 E.

LAND SURFACE DATUM: feet above mean sea level.

TYPE OF WELL: Dug, Drilled, Driven, Jetted; Date Depth feet.

CASING: Depth 163+ feet, Diameter 74-60 inches, Finish Open bottom

CHIEF AQUIFER: Glacial gravel from feet, to feet.
Others

WATER LEVEL: 138.56 feet ~~Rept.~~, Meas. Jan. 22 1938
~~above~~ below edge of concrete collar, low point, north side which is 1.5+ feet above ~~below~~ surface.

PUMP: Type Turbine H. P.

YIELD OF WELL: Flow gpm. Pump 1000 gpm. Meas. Rept. Est.
Drawdown 25-3 feet after hours pumping 1,000 gpm.

USE: Domestic, Stock, Public Supply, Industrial, Irrigation, None.

REMARKS:

WELL LOG, from

Material	Thickness (feet)	Depth (feet)	Material	Thickness (feet)	Depth (feet)

145

LOG.—Continued No. 1

Material	Thickness (feet)	Depth (feet)
Depth forward	———	
Test:		
Dim: 16" x 210'		
SWL: 155'		
D.D: 17.0'		
Yield: 1560 g.p.m.		
Casing: none given		
Perforations: 16-3/8 x 2-1/4"		
Pump: 12" deep well turbind [illegible] 1150 g.p.m.		
Motor: 150 h.p. electric motor		
Temp: not given		

G. P. No. 7[illegible]—12-54—3M. [illegible].

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

WELL LOG No. Appl. 4046
Date March 24, 1955 Cert.
Record by A. R. Reed
Source Drillers record

Location: State of WASHINGTON
County Spokane
Area
Map
SE ¼ SW ¼ sec. 19 T. 26N., R. 43 E. W.

Diagram of Section

Drilling Co. A. R. Reed
Address P.O. Box 421, Route 2 Chico, Calif
Method of Drilling drilled Date March 26, 1955
Owner Town & Country Utilities Inc.
Address Box 7012, Garland Sta. Spokane
Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	Sand	42	42
	Gravel and some sand	16	58
	Gravel and verly little sand	16	74
	Sand	14	88
	Sand and some gravel	58	146
	Coarse gravel	9	155
	Coarse gravel -Water at 155'	19	174
	Coarse sand	8	182
	Coarse sand and small bould.	3	185
	Coarse sand and gravel	5	190
	Gravel and 4" to 6" dia. stones	12	202
	Gravel and small bould.	2	204
	Coarse sand, gravel and small boulders	6	210

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up Sheet of sheets

26N/43E-19D

146

6319A

Well 2

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Declg. #636
Cert. #805-D

Date 1921, 19

Record by (b) (6)

Source (b) (6) Claim

Location: State of WASHINGTON

County Spokane

~~xxx~~ NW¼ NW¼ NE¼ NE¼

Map

NE¼ NE¼ ¼ sec. 19 T. 26 N., R. 43 E. W.

DIAGRAM OF SECTION

Drilling Co.

Address

Method of Drilling dug Date 19

Owner Whitworth Water Dist. #2

Address Spokane 12, Wash.

Land surface, datum ft. above below

Correlation	Material	Thickness (feet)	Depth (feet)
	no log		
Pump	Test:		
	Dim: 163' x 6"		
	SWL: 137'		
	Dd: not given		
	Yield: 1000 g.p.m. (Claim)		
	Pump: 750 g.p.m deep well turbine,		
	225 g.p.m. deep well turbine with		
	booster		
	Motor: 75 hp, vertical; 20 hp		
	vertical		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet of sheets

146

26N/43E-11A

File number

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

147

A1

Permit No. 623176

(1) OWNER: Name (b) (6) [redacted] Address (b) (6) [redacted]

(2) LOCATION OF WELL: County Spokane NW¼ of NW¼ of Sec. 15 T. 26 N., R. 43 W.M.

Bearing and distance from section or subdivision corner 1175' N - 1200' W of Center

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 219 ft. Depth of completed well 219 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 197 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

Perforations: Yes ☑ No ☐ 22' of 6" inside
Type of perforator used Torch
SIZE of perforations 1/8 in. by 4 in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 15 ft.
Material used in seal Cement, bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1940 ft.
Static level 178' ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand	0	2
Clay	2	3
Sand	3	219
5 gpm		
1.33 AF/yr		
Fire protection		
Meade 7½'		
Bunes		
474515 1172105 (F)		

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RECEIVED
FEB 23 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

(M)

Work started 8/8, 19 74 Completed 8/28, 19 74

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Lane Drilling (Person, firm, or corporation) (Type or print)

Address Rt 2 Box 82

[Signed] [signature] (Well Driller)

License No. C4654 Date 9/ 74

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

149

6307G

(1) OWNER: Name Whitworth Water Dist. #2 Address N 10828 Waikiki

(2) LOCATION OF WELL: County Spokane — ~~SW~~ ¼ ~~NE~~ ¼ Sec. 7 T. 26 N., R. 43 W.M.

ring and distance from section or subdivision corner NW SE

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 160 ft. Depth of completed well ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 154 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☐ No ☒ To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 100 ft. below top of well Date 3-14-74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 40 gal./min. with 2 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand & Boulders (small)	0	20
Sand & Gravel	20	106
Coarse Sand & gravel (water)	106	130
Coarse sand	130	155
Sand	155	160

TEST WELL
BELLWOOD
HASTINGS

Work started 3-8- 1974 Completed 3-14- 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Coeur d'Alene Drilling, Inc.
Box 237 (Person, firm, or corporation) (Type or print)
Address Hayden Lake, Idaho 83835

[Signed] John L. Koberstine (Well Driller)

License No. 0249 Date 4-1-74 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

1/1/74

150

6307P

ntinued No. ..... / .....

Material	Thickness (feet)	Depth (feet)
Depth forward	—	
Pump: 40 hp vertical turbine		

S. F. No. 1443—OS—6-61—2M

Whitmarsh Well

Well 23

Station #3

STATE OF WASHINGTO
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Elder Well

Appli. #6466

150

(6307P)

WELL LOG

No. ..... / .....

Date 8/24, 19 62

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

SE ¼ SW ¼ sec. 7 T. 26 N., R. 43 E. W.

Diagram of Section

Drilling Co. Reeder Construction Co.

Address Mead, Washington

Method of Drilling Driven Date 8/23, 1962

Owner Washington Water Power Company

Address P.O. Drawer 1445, Spokane 10, Washington

Land surface, datum ..... ft. above / below

26/43-7P

Below line

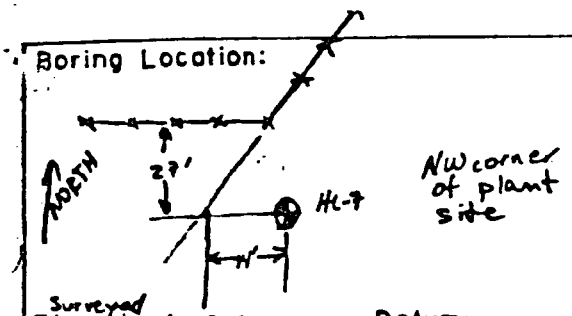
Correlation	Material	Thickness (feet)	Depth (feet)
	Top soil and sand	0	87
	Sand and some gravel	87	127
	Silt	127	134
	Casing: 16" from 0 to 92½'		
	No perforations		
	Screened from 92½ to 113½' (14")		
	SWL: 46' on 8/24/62		
	Yields: 1300 gpm with 2' DD after 2 hours		
	1600 gpm with 5' DD after 9 hours		
	1700 gpm with 6' DD after 10 hours		
	Instantaneous recovery		
	(8/24 & 25/ 62		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet ..... of ..... sheets

Boring Location:



Surveyed Elevation: 1936.2 Datum:

HART - CROWSER & associates I

Boring HC-7 Date 4-23-81 Sheet 1 of 7
Job Kaiser (Mead) Groundwater Job No. 948-02
Logged By RC. Prior Weather sunny warm
Drilled By FLD
Drill Type/Method HSA 3 7/8" ID
Sampling Method 2 1/2' split spoon

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,	SUMMARY LOG (Water & Date)
						0				SOD
						1				Topsoil
m	brown	–	95 f	5 NP	S-1	2			S-1 from cuttings moist, brown, sl silty fine SAND (sandy topsoil)	
						3				
wet	brown	–	95 f	5 NP		4			A: wet, brown, slr silty fine SAND	silty, wet f-c SAND
wet	brown	–	85 f-c	15 NP	2	5			B: wet, brown, silty, f-c SAND	
						6			as above (2B) not collected	
m	brown gray	–	99 f-m	1.0 NP	3	7			moist brownish gray sl. silty fine-med. SAND	cleaner
									some gravels 7.9-8.2 (drill action)	f-c SAND
m	brown	–	99 f-c	1.0 NP	4	8			A: moist, brown, f-c SAND thin silty ~~clay silt~~ bed @ 8.4-8.5	clay collected in same jar as SAND (4-A) f-c SAND
d	gray brown	–	98 f-m	2.0 NP		9			B: damp, grayish-brown, fine SAND	f SAND
						10			S-5 to Kaiser	
d	gray brown	–	100 f-m	–	5	11			damp, grayish brown silty f-m SAND	
						12			gravelly drilling @ 12.0' damp gray, f-c SAND not collected	f-c SAND acc. gravels
m	gray	tr 2"?	100 f-c	–	6	13			moist to damp, gray silty f-c SAND w/ broken gravels	& cobbles
d						14			cobbly to 14.5	
						15				
d	gray brown	tr 2"?	100 f-c		7	16			damp, grayish-brown fine-coarse SAND w/ few fine gravel	gravels decrease
						17				
						18				
wet	gray brown	–	100 f-c	–	8	19			moist, gray, brown fine-coarse SAND w/ few fr gravel	gravels decrease
						20				

RECEIVED MAY 1 1981 HART-CROWSER & ASSOC. INC.

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HC-7 Date 4-23-81/4-24 Sheet 2 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						20			S-9 to Kaiser	
m	gray brown	–	100 f-c	–	9	21			moist, gray-brown, f-c SAND	f-c SAND
						22				
						23				
m	gray brown	–	100 f-m (c)	–	10	24			moist, grayish brown, f-m SAND coarse fraction decreasing	
						25			moist at top of sample thin poorly defined SILT bed at 26.2	
d	gray brown	tr 1"	100 f-c	–	11	26			damp, grayish-brown, f-c SAND w/ trace gravel	SILT f-c SAND w/gravelly
						27				
						28			S-12 is driving very slowly hit gravel from 27.5-28.0	
d	gray brown	–	100 f-c	–	12	29			Poor recovery hard to say where recovery is from (what interval) damp, gray-brown, f-c SAND	silty gravelly f-c SAND
						30			Tip of shoe is fine sandy SILT - not enough to collect	
d	brown	2.0 1"?	78 f-c	20 NP	A	31			A: damp, brown, silty f-c SAND w/ gravel (broken)	
d	gray brown	–	100 f-c	–	13 B	32			B: damp, grayish brown, f-c SAND Kaiser gets some of B B	f-c SAND w/ little fr. gr.
						33			gravelly drilling @ 33.5 – 34.0	gravels decrease
m	gray brown	tr	100 f-c	–	14	34			moist, grayish-brown, f-c SAND w. gravels @ upper part of sample (thin silt lenses in sample)	
						35				
m	gray	–	100 f-m	–	15	36			moist, gray, f-m SAND	
						37			d, gray/rust mottled, clayey SILT collected in (S-14?) same jar	SILT
d	gray	–	100 f-m	–	16	38			A: damp, gray, f-m SAND w/ trace clayey SILT	f-m SAND
						39				
d	brown	–	98 f	2.0 NP		40			B: damp, brown, fine SAND	fine SAND

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring H(-7 Date 4-24-81 Sheet 3 of 9
Job Job No. 948-02
Logged By Weather
Drilled By
Drill Type/Method
Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						40			Kaiser gets part of 17 A & part of 17 B	silt content decreases
m	gray brown	-	100 fm	-	17 A	41			A: moist, grayish brown, fine m SAND	
wet	brown	-	50 f	50 mP	B	42			B: wet, brown, silty fine SAND grading to fine sandy SILT → CLAY let auger sit at 42.5 feet → no water is accumulating	SILT/CLAY
m	gray	-	100 fm	-	18	43 44			moist, gray, fine m SAND	fine-m SAND
m	gray	-	100 fm	-	19	45 46 47			moist, gray, fine m SAND moisture content higher (slightly) than above	
m	gray brown	-	100 fm	-	20	48 49			moist, grayish brown, fine m SAND	
m	gray brown	-	100 fm	-	21	50 51 52			S-21 to Kaiser moist, grayish brown, fine m SAND	
m	gray	-	100 fm	-	22	53 54			moist, gray, fine m SAND	
m	gray	-	100 fm	-	23	55 56 57			moist, gray, fine m SAND	f-m SAND
m m	gray	-	100 f-c	-	24	58 59 60			moist, gray, f-c SAND w/ few fr gravel	f-c SAND w/ few fr gr

Boring Location:

Elevation: Datum:

HART-CROWSER & associates inc.

Boring HL-7 Date 4-24-81/4-27 Sheet 4 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
m	gray	—	100 f-c	—	25	60			moist, gray, f-c SAND not much sample here so kaiser gets all of it, same as S-24	f-c SAND
d	gray brown	tr 1/2"	97 f-c	3.0 NP	26	61			hole caved b/w S-26 & S-25 - hence the funny interval	silty
						62			damp, grayish-brown silty f-c SAND silt content possible from scraping auger on the way down	
m	gray	tr 1/2"	100 f-c	—	27	63			moist, gray, fine-~~coarse~~ mid SAND some coarse ~~gravel~~ - decreasing ~~to~~ @ 63.5	
~~m~~ wet	gray	—	99 f-m	1.0 NP	28	64			~~moist~~, wet gray, f-m SAND	
m	gray	—	100 f-c	—	29	65			wet ~~moist~~, gray, f-c SAND - 10% silt = tr gr.	
m	gray	1.0 3/4"	99 f-c	—	30	66			moist, gray, sl gravel, f-c SAND broken gravel	fn sl gravelly f-c SAND
m	gray	—	100 f-c	—	31	67			S-31 to Kaiser moist, gray, max grav. f-c SAND	
m	gray	—	100 f-c	—	32	68			as above	
m	gray	1.0 f	99 f-c		33	69			moist, gray, f-c SAND sl fine gravel	
d	gray	1.0 1/2"	98 f-c	1.0 NP	34	70			damp, gray, f-c SAND w/ gravels @ top, trace silty thin ill defined CLAY bed at 77.0 (3/4" thick)	larger gravelly zone; f-c SAND
m	gray	5 3/4"	95 f-c	—	35	71			moist, gray, sl. silty gravelly f-c SAND gravels @ bottom 1/2 of sample	gravelly
						72				
						73				
						74				
						75				
						76				
						77				
						78				
						79				
						80				

4-24-81

4-27-81

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HL-7 Date 4-2-81 Sheet 5 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits	-	DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						80			S-36 to Kaiser	
									top part of sample is f-m SAND	f-m SAND
w m	brown	-	92 f-c	80 NP	36	81			wet ~~moist~~, brown, sli silty, f-m SAND	sl silty zone
						82			silty zone from 81-81.5 accounts for silt content & coarse sand content is less than S-35	f-c SAND
						83				
m	gray	-	100 f-c	-	37	84			moist, ~~gray~~ brown, f-c SAND	
						85				
w	gray	-	100 f-m	-	38	86			moist, ~~gray~~ brown, f-m SAND	gets finer
						87				
						88				
m	gray	-	100 f-m	-	39	89			as above f-c SAND	
						90				
									S-40 to Kaiser	
m ~~damp~~	gray	-	99 f-c	1.0 NP	40	91			~~damp~~ moist, gray, f-c SAND	
						92				
						93				
dm	gray	-	100 f-m	-	41	94			~~damp~~ moist, gray, f-m SAND	
						95				
						96				
dm	gray	-	100 f-m	-	42	97			as above w/ trace silt	
						98				
d	gray brown	-	100 f-m	-	43	99			damp, grayish brown, f-m SAND w/ trace silt	f-m SAND
						100				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HC-7 Date 4-27-81 Sheet 6 of 9

Job Job No. 94802

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						100			s-44 to Kaiser	
d	gray brown	–	100 f-m	tr	44	101			damp, grayish brown, f-(med) SAND some silt rinding the sample trace to sl silty	f-m SAND
						102				
						103				
d	gray brown	–	99 f-m	1.0 NP	45	104			damp, grayish brown, f-m SAND	
						105				
d	gray brown	–	100 f-m	–	46	106			damp, grayish brown, f-m SAND	
						107				
						108				
d	gray brown	–	100 f-m	–	47	109			damp, grayish brown, f-m SAND gradually getting finer	~~gets~~ finer
						110			s-48 to Kaiser	
						111			damp, grayish brown, f-m SAND less med. SAND than above	
d	gray brown	–	98 f-m	2.0 NP	48	112				
						113				
d	gray brown	–	98 f-m	2.0 NP	49	114			damp, grayish-brown, fine SAND	
						115				fine-m SAND
						116				
d	gray brown	–	98 f-m	2.0 NP	50	117			as above	
						118				
d	gray brown	–	99 f-m	1.0 NP	51	119			as above	
						120				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HC-7 Date 4-28-81 Sheet 7 of 9

Job Job No. 948-02

Logged By Weather rain today poop! just in morning though

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G (Max.)	S (Range)	F (Att. Limits)		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						120			S-52 to Kaiser	
d	gray brown	–	100 f/m	tr	(52)	121			damp, grayish-brown, fine SAND w/ trace silt	
						122				fine-m SAND
						123				
d	gray brown	–	99 f/m	1.0 NP	(53)	124			damp, grayish-brown, fine SAND	
						125				
d	gray brown	–	98 f/m	2.0 NP	(54)	126			damp, grayish-brown, fine SAND	
						127				
						128				
d	gray brown	–	98 f/m	2.0 NP	(55)	129			damp, grayish-brown, fine SAND	
						130			S-56 to Kaiser	
d	gray brown	–	99 f/m	1.0 NP	(56)	131			damp, grayish brown, fine SAND	
						132			after sample #S-59 Pulled auger to 138.0 water level at 136.7 collect water sample #138-W after sampling static @ 138.0 after 15 mins 136.5 note that we penetrated the CLAY earliest water level probably best	
						133				
d	gray brown	–	99 f/m	1.0 NP	(57)	134			as above	
						135				
dm	gray brown	–	99 f/m	1.0 NP	A (58) B	136			A: ~~moist~~ damp, grayish-brown, fine SAND	fine SAND
m	brown	–	90 f/m	10.0 NP					B: ~~moist~~ wet, sat, brown, sli silty, fine SAND grades to med. Hard Part of 58-B to Kaiser for organal	sli silt/f SAND see note above
m	brown	–	25 f	75 NP	C	137			C: moist, brown (rusty streaks) fine sandy SILT about 4" heave	fine sandy SILT
sat	brown	–	80 f/m	20 NP	A	138			A: sat, brown, silty fine SAND some med. SAND	silty f SAND
d	brown (green)	–	–	100 HP	(59) B C	139			B: damp, brown (green lams), CLAY Part of 59A to Kaiser for examination C: damp, brown, sli silty fine SAND (f-m SAND from 138.9-139.2)	CLAY sli silt/f SAND
d	brown	–	95 f/m	5 NP		140			Pulled auger back to 138.0 see above	

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring H6-7 Date 4-28-81 Sheet 8 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
						140			Top part of sample is saturated from water above - not collected	sli silty f-m SAND
					60	141			getting carrydown of water S-60 to Kaiser	silty fine SAND
d	brown	-	80 f	20 NP		142			damp, brown, silty, fine SAND siltier from 141.5-142	
						143				
d	brown	-	80 f	20 NP	61	144			damp, brown, silty, fine SAND siltier from 143.7-144.5 w/ 1/10" CLAY @ ~144	silty fine SAND
						145			fine sandy parting 144.5-144.8 - fine SAND in tip of shoe	sli silty f-m SAND
d	brown	-	95 f-m	5 NP	62	146			damp, brown, sli silty, fine SAND	
						147				
						148			water still being carried down	
d	gray brown	-	95 f-m	5 NP	63	149			damp, grayish-brown, sli silty, fine SAND	
						150			S-64 to Kaiser	cleaner & coarser
d	gray brown	-	99 f-m	1.0 NP	64	151			damp, grayish-brown, f-m SAND	
						152			carry down not bad anymore	
						153			sample driven on Tuesday, colleded on wed.	silt content increasing
wet	gray	-	96 f-m	4.0 NP	65	154			wet, gray, fine SAND [I think the moisture content here is carry down from above	
						155				
wet	gray	-	95 f-m	5 NP	66	156			~~moist~~ wet, grayish brown, sli silty, f-m SAND	
						157			again, I think the moisture is from above	▽ ATD
						158			auger @ 160.0 - hole to 160 sit 10 mins.	
sat	gray brown	-	95 f-m	5 NP	67	159			sat, grayish brown, sli silty f-m SAND	
						160				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring H(-7 Date 4-29-81 Sheet 9 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits	--	DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						160			4" heave – driven through S-68 to Kaiser	
sat	gray brown	–	94 f	6.0 NP	68	161			sat, grayish-brown, sli silty, fine SAND	sli silty fine SAND
						162				
						163			as above not collected	
sat	brown	–	85 f	15 NP	69	164			sat, brown, silty fine SAND	silty fine SAND
						165				
sat wet	brown	–	80 f	20 NP	70	166			sat-wet, brown, v. silty, fine SAND thin bed of fine sandy SILT @ 166.5	
						167			collect water sample @ 167.5-w	
sat	gray brown	–	90 f	10 NP	A	168			A: sat, gray-brown (grayish), sti silty fine SAND	sti silty f. SAND
sat	brown	–	80 f	20 NP	71 B				B: sat, brown, silty, clayey, fine SAND; SILT	clayey SAND
wet	brown	–	92 f	8.0 NP	C	169			C: wet, brown, sli silty, fine SAND S-71-C to Kaiser	sli. silty fine SAND
						170			Frank wants to pull some auger back while going to get cement, etc...	Bottom
						171			Bottom of hole 4-29-81 1:15 PM	
						172				
						173				
						174				
						175				
						176				
						177				
						178				
						179				
						180				

PIEZOMETER INSTALLATION REPORT

Project Kaiser (Mead) Groundwater study Job No. 948-02 Boring No. HC-7

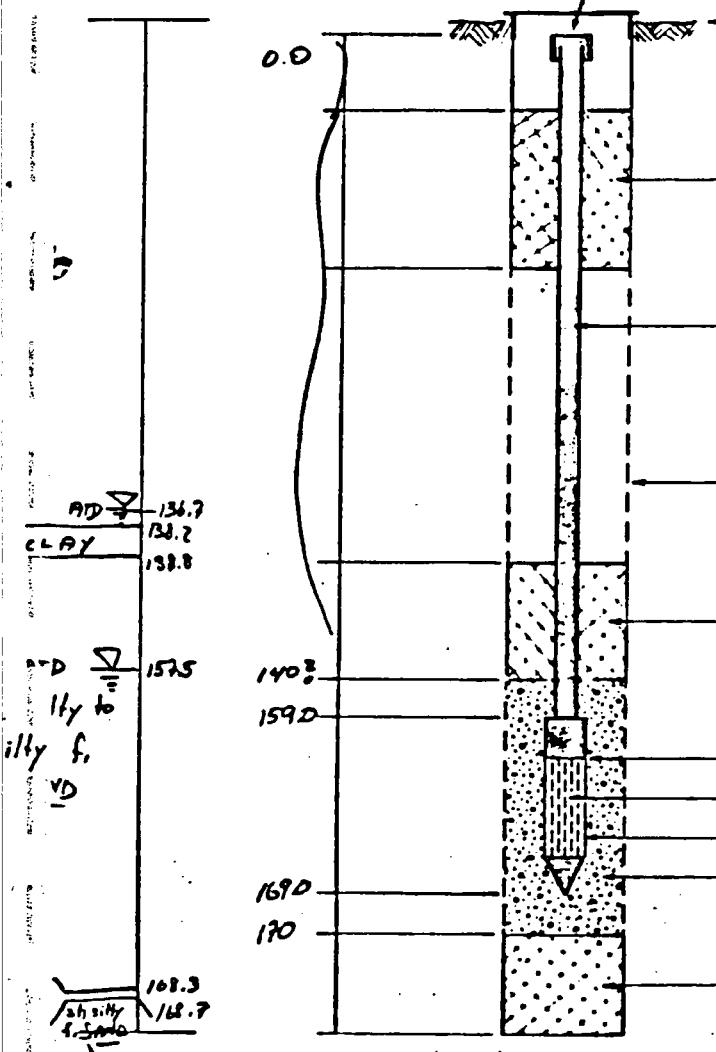
Job Location Spokane Client Kaiser

H-C Observer R.C. Prior Driller FLD

Method of Installation down HSA 3 7/8" ID

Method of Testing Piezometer

Graphic Log | Depth of Components



Vented Cap

Type of Monument None stickup = 1.4'

Ground Surface Elevation 1936.24 Datum

Determined by: Date 4-29-81

☒ Survey ☐ Hand Level

☐ Interpolation

Type of Surface Seal cement grout

ID of Riser Pipe 1½" PVC

Type of Riser Pipe 1½" PVC

Type of Connection flush couple

Type of Backfill Around Riser cement

Diameter of Borehole 7" (10 near top)

Type of Seal cement grout to surface

Type of Piezometer PVC [Note: 10' of screen]

Screen Guage or Size of Openings 10 slot

Diameter of Piezometer Tip 1½"

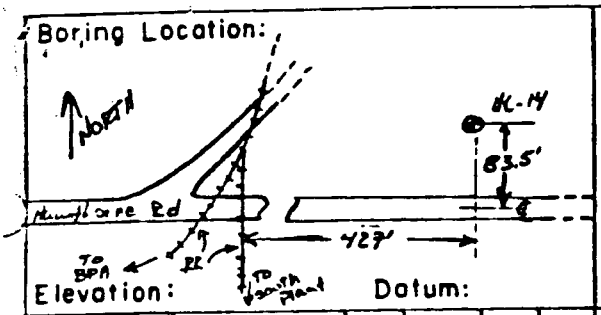
Type of Filter Material fraction sand - upper part probably has some natural sand

Type of Seal None - did not penetrate aquitard

Remarks After pulling auger back to 155' BGS communication with upper water zone was made. Sand pack was unable to fall at end of auger due to higher static head, thus, upper part of screen probably has some natural sand around it. When installing rest this problem took care of itself.

HART-CROWSER & associates, inc

Boring Location:



Elevation: Datum:

HART - CROWSER & associates

Boring HC-14 Date 7-20-81 Sheet 1 of 9
Job Kaiser (Mead) Groundwater Job No. 948-02
Logged By RC. Prior Weather clear hot
Drilled By FLD: Ted Dietz
Drill Type/Method HSA 3 3/8"
Sampling Method 2 1/2' split spoon

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						0			RECEIVED JUL 27 1981 HART-CROWSER & ASSOC. INC.	wooded area Top soil
						1				
						2				
d	brown	–	92 f	8.0 NP	1	3			damp, brown, sli silty fine SAND gets cleaner w/ depth	sli silty f. SAND
						4				
						5				
d	brown	–	96 f	4.0 NP	2	6			damp, brown, fine SAND	fine SAND
						7				
						8				
dry	tan	–	100 f	–	3	9			dry, tan, fine SAND moisture is not bone dry but certainly drier than normal S-4 to Kaiser	
						10				
dry	tan	–	100 f	–	4	11			dry, tan, fine SAND less well sorted than above,	
						12				
						13			dry, tan, fine SAND collected in same jar	
dry	tan	–	100 f	–	5					
dry	tan	–	80 f	20 NP		14			dry, tan, silty fine SAND (14-14.3)	silty f. SAND
						15				
dry	brown	–	80 f	20 NP	6 A	16			A: dry, brown, silty f. SAND	
dry	brown	–	95 f-c	5 NP	B	17			B: dry, brown, sli silty f-c SAND	sli silty f-c SAND
						18				
damp	gray brown	–	99 f-c	1.0 NP	7	19			damp grayish-brown, f-c SAND	
						20				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HC-14 Date 7-20-81 Sheet 2 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
						20			S-8A to Kaiser well keep 8B	?
d	gray	-	100 f-m	-	A (8)				A: damp, gray, f-m SAND	f-m SAND
d	gray	tr ½"	100 f-c	-	B	21			B; damp, gray, f-c SAND	f-c SAND
						22				
						23				
d	gray	6.0 ½"	94 f-c	-	(9)	24			damp, gray, sli, f. gravelly, f-c SAND gravels confined to upper half of sample decreasing course SAND w/ depth, also	
						25				
d	gray	3.0 ⅜"	97 f-c	-	(10)	26			damp, gray, f-c SAND	
						27				
						28			No recovery	
					(11)	29			probably similar to above	
						30			S-12 A to Kaiser	
d	gray	-	100 f-c	-	A (12)	31			A: damp, gray, f-c SAND (Kaiser gets this one)	f-c SAND
d	brown	-	7.0	93	B				B: damp, brown, sli m. sandy SILT	SILT
d	gray	-	m 100 f-m	MP -	C	32			C: damp, gray, f-m SAND	f-m SAND
						33				
d	gray	-	100 f-m	-	(13)	34			damp, gray f-m SAND gets finer & more well sorted w/ depth	f SAND
						35				
d	brown	-	99 f	1.0 NP	(14)	36			damp, brown, fine SAND very homogenous & massive	
						37				
d	brown	-	99 f	1.0 NP	(15)	38			as above	
						39				
						40				

Boring Location:

Elevation: Datum:

HART-CROWSER & associates Inc.

Boring HC-14 Date 7-20-81 Sheet 3 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						40			S-16 to Kaiser	gets silty
wet	brown	–	85 f	15 NP	16	41			wet, brown, silty fine SAND	
						42			collect water sample # 42.5-W	ATD
sat	brown	–	80 f	20 NP	A 17	43			A: sat, brown, silty fine SAND & wet, brown, CLAY (43.9-44) } well bedded collected in same jar	silty f. SAND; CLAY
damp	brown	–	99 f-m	10 NP	B	44			B: damp, brown, fine SAND m rcp	fine SAND
						45			} mud	
					18	46				
d	brown	–	100 f-m	–		47			damp, brown, fine SAND m rcp	
						48			} mud	f-c SAND
d	gray	2.0 1/2"	98 f-c		19	49			damp, gray, f-c SAND	
						50			7-20-81	
									7-21-81	
(wet)	gray	–	100 f-c	–	20	51			S-20 to Kaiser; (wet), gray, f-c SAND — water carried down from above	
						52			Bottom part is sli silty f-m SAND	
						53			wet	
wet to damp	gray	tr 1/8"	100 f-c	–	21	54			damp, gray, f-c SAND	
						55				
d	gray	2.0 1/8"	98 f-c	–	22	56			damp, gray, f-c SAND	
						57				
						58				
d	gray	5.0 1/2"	95 f-c	–	23	59			damp, gray, sli f. gravelly, f-c SAND	sli gravelly
						60				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring H-14 Date 7-21-81 Sheet 4 of 9

Job Job No. 943-07

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
						60			S-24 to Kaiser	
d	gray	40 F	96 f-c	–	24	61			damp, gray, f-c SAND	f-c SAND
						62				
						63				
d	gray	–	100 f-c	–	25	64			damp, gray, f-c SAND	
						65				
d	gray	–	100 f-c	–	26	66			as above	
						67				
						68				
d	gray	–	100 f-c	–	27	69			as above but coarse sand content is decreasing	
						70			S-28 to Kaiser	
d	gray	–	100 f-m	–	28	71			damp, gray, f-m SAND	
						72				
						73				
d	gray	5 3/4"	95 f-c	–	29	74			damp, gray, sli gravelly, f-c SAND	f-c SAND
						75			1/4" of clayey SILT @ tip of shoe - not collected	f-c SAND
						76			as above	
d	gray	5 3/4	95 f-c	–	30				765-773 is damp, gray f-m SAND } collected in same jar	
d	gray	–	100 f-m	–		77				f-m SAND
						78			A: damp, gray, f-m SAND	
d	gray	–	100 f-m	–	31	79				
d	gray	5.0 f	95 f-c	–		80			B: damp gray, sli gravelley f-c SAND (not collected)	f-c SAND

Boring Location:

Elevation: Datum:

HART - CROWSER & associates inc.

Boring HC-14 Date 7-21-81 Sheet 5 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
						80			S-32 to Kaiser	
(dry)	gray	30 3/4"	97 f-c	—	32	81			dry (dried in sun), gray, f-c SAND	occ. gravels in f-c SAND
						82			Ted says he hit some big gravels here (I was gone getting sample jars)	
						83				
damp	gray	—	100 f-c	—	33	84			damp, gray, f-c SAND	
						85				
d	gray	—	100 f-c	—	34	86			as above	
						87				
d	gray	tr 1/2"	100 f-c	—	35	88			as above	
						89				
						90			S-36 to Kaiser	
d	gray	—	100 f-c	—	36	91			as above	
						92				
						93				
d	gray	tr 3/8"	100 f-c	—	37	94			as above occ. fine gravels	
						95				
d	gray	20 2"?	98 f-c	—	38	96			as above	
						97			one broken gravel	
						98				
d	gray	—	100 f-c	—	39	99			as above	
						100			7-21-81	
									7-22-81	

Boring Location:

Elevation: Datum:

HART - CROWSER & associates inc.

Boring HC-14 Date 7-23-81 Sheet 6 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
									7-21-81	
						100			7-22-81	
d	gray	–	100 f-c	–	40	101			S-40 to Kaiser damp, gray, f-c SAND	
						102				
						103				
d	gray	–	99 f-c	1.0 NP	41	104			as above seems to be getting a little bit dirtier	f-c SAND
						105				
d	gray	–	99 f-c	1.0 NP	42	106			as above	
						107				
						108				
d	gray	–	99 f-c	1.0 NP	43	109			as above	
						110			S-44 to Kaiser	
d	gray	–	99 f-c	1.0 NP	44	111			as above	
						112				
						113				
d	gray	–	99 f-c	1.0 NP	45	114			as above	
						115				
d	gray	–	99 f-c	1.0 NP	46	116			as above	
						117				
						118				
d	gray	tr 1/2"	100 f-c	–	47	119			damp, gray f-c SAND one 1/2" gravel	
						120				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HL-14 Date 7-22-81 Sheet 7 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
						120			s-48 to Kaiser	
d	gray	—	100 f-c	—	48	121			damp, gray, f-c SAND	
						122				
						123				f-c SAND
d	gray	2.0 1/2"	98 f-c	—	49	124			damp, gray, f-c SAND	
						125			as above - not collected	
d	gray brown	—	100 f-m	—	50	126			damp, grayish-brown, f-m SAND	f-m SAND
						127			s-51 to Kaiser	silty f-m SAND
sat	brown	—	80 f	20 NP	51	128			sat, brown, silty fine SAND	ATD
						129			interface b/w silty f. sand and f-m SAND is bright ruby red SILT	SILT
						130			sat, gray, f-m SAND - Not collected	f-m SAND
damp	gray	—	100 f-m	—	A	131			A: damp, gray, f-m SAND s-52 A to Kaiser	CLAY interbe
d	gray	—	100 f-m	—	52 B				B: damp, gray, f-m SAND (as above) w/ 2 CLAY interbeds collected in same jar - we get 52-B	
d	brown	—	—	100 NP		132				
d	brown	—	90 f	10 NP	C				C: damp, brown, sli silty, fine SAND well sorted	sli silty f. SAND
						133				
d	brown to gray	—	90 f	10 NP	53	134			damp, brown, (grayer toward bottom) sli silty, f. SAND	
						135			tip is somewhat cleaner and coarser (not as well sorted still fine)	f-c SAND
d	brown to gray	—	100 f-c	—	54	136			damp, gray, f-c SAND	
						137			tip of shoe is gravelly (ore, broken, 1") silty f-c SAND	
d-wet	gray	—	100 f-c	—	55	138			s-55A to Kaiser A: damp to wet, gray, f-c SAND	No attempt made to collect water sample wet sample ATD
m	brown	—	60 v.f	40 LP		139			B: moist, brown, silty fine SAND/f. sandy SILT	silty v.f. SAND
						140				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates Inc.

Boring HC-14 Date 7-22-81 Sheet 8 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations, ...etc,...	SUMMARY LOG (Water & Date)
d	brown	—	—	100 NP		140			A: damp, brown, CLAY well bedded	CLAY
									S-56 B to Kaiser	f-c SAND
d	gray	tr 3/8"	100 f-c	—	56	141			B: damp, brown, f-c SAND	
						142			7-22-81 / 7-23-81	
d	gray	1.0 1/8"	98 f-c	1.0 NP	57	143				
						144			damp, gray, f-c SAND	
						145				
d	gray brown	1.0 1"	98 f-c	1.0 NP	58	146			damp, gray, f-c SAND Top part 145-146.5 is clean	f-c SAND
						147			Bottom part (146.5-147.3) is where gravel (one piece) and silt is	silty zone
						148				
d	gray brown	—	100 f-m	—	59	149			damp, grayish-brown f-m SAND	f-m SAND
						150			silty zone @ bottom (149.5-149.8) faint bedding S-60 to Kaiser	silty zone
d to w	brown	—	95 f-m	5.0 NP	60	151			damp to brown, sli silty fine SAND (m RCP)	sli silty fine SAND
						152			wet	▽ ATD
						153				
sat	brown	—	97 f-m	3.0 NP	61	154			sat, brown, fine SAND (m RCP)	
						155				(sli silty) fine SAND
sat	brown	—	96 f-m	4.0 NP	A 62	156			A: sat, brown, fine SAND (m) grades to	
sat	brown	—	85 f-m	15 NP	B	157			B: sat, brown, silty fine SAND (m) } collected in same jar w/ two clayey SILT laminations	gets siltier
						158				
sat	brown	—	90 f-m	10.0 NP	63	159			sat, brown, sli silty fine SAND (m)	
						160				

Boring Location:

Elevation: Datum:

HART - CROWSER & associates inc.

Boring HC-14 Date 7-23-81 Sheet 9 of 9

Job Job No. 948-02

Logged By Weather

Drilled By

Drill Type/Method

Sampling Method

WATER CONTENT	COLOR	SIZE % G Max.	S Range	F Att. Limits		DEPTH	SAMPLE RECOVERY	Penetration Resistance	REMARKS; Drill action, drill and sample procedures, water conditions, heave, soil variations,....etc,...	SUMMARY LOG (Water & Date)
									S-64A to Kaiser	
sat	brown	—	90 f M	10 NP	A	160			A: sat, brown, ~~fa~~ sli silty fine M SAND	sli silty f. SAND
m	green blue gray	—	—	100 NP	(64) B	161			B: moist, green-gray to blue gray CLAY	CLAY
wet	blue gray	—	70 f	30 NP	C	162			C: wet, blue gray, silty, clayey, fine SAND	silty, clayey SAND
						163			Bottom of hole @ 3:00 PM 162.5' 7-23-81	Bottom @ 162.5
						164			clean auger by washing through shelby tube then to prevent heave pumped water down auger prior to pull out - 40 gallons total used	
						165				
						6				
						7				
						8				
						9				
						0				
						1				
						2				
						3				
						4				
						5				
						6				
						7				
						8				
						9				
						0				

PIEZOMETER INSTALLATION REPORT

Project Kaiser (Mead) Groundwater Study Job No. 948-02 Boring No. HL-14

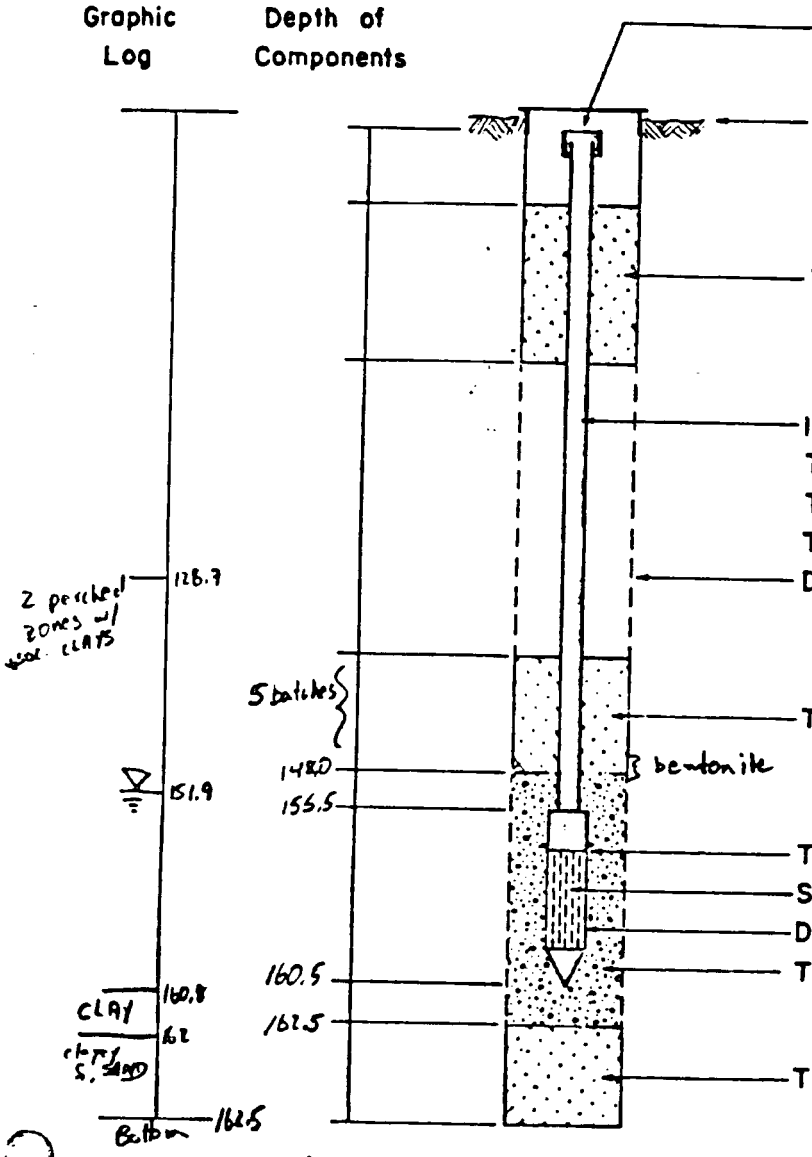
Job Location Spokane County, Wash Client Kaiser

H-C Observer R.C Prior Driller FLD (Ted Dietz)

Method of Installation down HSA 3 7/8"

Method of Testing Piezometer

Graphic Log | Depth of Components



Vented Cap

Type of Monument none stick up = 1.8'

Ground Surface Elevation _____ Datum _____

Determined by: Date _____

☐ Survey _____ ☐ Hand Level _____

☐ Interpolation _____

Type of Surface Seal cement grout

ID of Riser Pipe 1 1/2"

Type of Riser Pipe PVC

Type of Connection bell and flush couple see below

Type of Backfill Around Riser cuttings

Diameter of Borehole 7"

Type of Seal cement grout

Type of Piezometer PVC

Screen Guage or Size of Openings 10 slot

Diameter of Piezometer Tip 1 1/2"

Type of Filter Material pea gravel to 154
154 to 148 D cuttings/core

Type of Seal none

Remarks 0-74' is sch. 80 flush couple riser, 74-154 is sch. 40 bell couple the two pipes are connected w/ outside slip couple riveted

Table 7 - Records of representative wells - Continued

Well	Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
T. 26 N., R. 42 E. - Cont.												
34N2	Fairmount Memorial Park	16	16	48	1,649	9.06	4-24-51	-- Qgf	--	--	De	
34N3	Fairmount Memorial Park	71	71	12	1,650	14	--	Sand, gravel; Qgf	T	100	I	Perf., 40-69 Pumped 1,50 dd 13 ft. Ter F. L.
34N4	Fairmount Memorial Park	60	60	6	1,650	--	--	Sand, gravel; Qgf	T	30	I	
T. 26 N., R. 43 E.												
1D1	(b) (6)	112	112	24	1,870	104.15	11-14-62	-- --	J	1	DS	Fe.
2A1		150	--	6	1,870	100	1957	-- --	N	--	N	
GA24 2M1		37	37?	12	1,880	32.35	11-20-63	Sand; Qgl?	J	3/4	D	
GA26 2P1		15	15?	12	1,870	12.68	11-20-63	-- --	J	½	D	Perf. Pumps 1
GA27 2Q1		18	18?	36?	1,880	15	--	Sand; Qgl	J	3/4	DS	Fe.
GA28 3R1	(b) (6)	40	40?	36?	1,880	32.86	11-20-63	Sand; Qgl	J	3/4	D	Fe.
8B 4P1	Mead School Dist. 354	146	126	12	1,830	85	7-17-64	Sand; Qgl or Qgf	T	30	I	Screen, 126-1 Pumped 390 for 24 hr, dd Temp 48°F.
6G1	RiVilla Water Co.	30	30	12	1,580	8.27	3-30-65	Gravel; Qgf	C	7½, 10	P	Clay, gravel, s 0-18 ft; clea "water" grave 30 ft. Perf. 29 ft. Pump gpm., dd 3 ft. Supplies 12 Temp 49°F.
15D 7P1	Washington Water Power Co., Woodway Park	126	93	16	1,780	43.42	5- 7-63	Sand, some gravel; Qgf	T	40	P	Screen 93-11 cased 114-1 plugged, 12 ft. Pumped gpm for 10 h 6 ft. L.
GA30 7Q1	(b) (6)	88	88?	72	1,795	76.31 75.68	4-27-42 5- 7-63	Gravel; Qgf	N	--	N	Gravel, 0-88 Pumped 30C dd 4 ft. DC 53).
GA31 8B1		54	54	6	1,775	40	10- -63	Sand; Qgf or Qgl	J	3/4	D	Perf. at botto Pumps 8 gp
GA32 8B2	Meader	63	--	10	1,790	55	9- -63	Sand, rocks; Qgf or Qgl	JS	½-1	D	Supplies 5 h Well has 5 Fe.

Table 7 - Records of representative wells - Continued

Well		Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
		T. 26 N., R. 43 E. - Cont.											
63088	8B4	Washington Water Power Co., Mead well 2	90	90	12	1,765	38	--	Coarse sand, silt; Qgf or Qgl	T	25	P	Reportedly drilled to 620 ft in blue sand, silt. Perf., 59-88 ft. Pumped 480 gpm dd 9.5 ft. Temp 52°F. C, L.
6310K	10K1	Washington Water Power Co., Mead well 1	106	106	48-22	1,910	88.80	3-29-65	Sand, gravel; Qgf	T	10, 25	P	Perf. Yields 4,500 gpm. C, L.
GA34	11B1	(b) (6)	21	21	36?	1,870	16.55	11-20-63	-- --	J	3/4	DS	Fe.
GA35	11C1		15	15	60	1,865	8.55	11-20-63	Sand; Qgl	J	1	D	Fe.
155	11F1		42	42	54	1,870	12.64	11-20-63	Sand; Qgl	C	3	I	Perf., 21-30 ft. Pumps 80 gpm. Fe, L.
GA36	11F2		35	--	--	1,865	10	4- -65	Sand? Qgl	C	10	I	Pit, 60 x 100 ft. Pumps 600 gpm. C.
GA37	11N1		50	50	30	1,890	Dry	11-18-63	-- --	N	--	--	Sand in well stopped use.
GA38	11Q1	(b) (6)	22	22	30	1,890	18.57	11-18-63	-- --	J	½	D	Fe.
GA39	11Q2		125	125?	6	1,890	120.75	11-18-63	-- --	N	--	N	
GA40	12F1		26	--	30?	1,860	21	1962	-- --	J	--	D	
GA41	12G1		363	355	6	1,860	102.65p	9- 9-63	Very fine sand; Tl	S	1½	S	Blue clay, 0-350? ft; very fine blue-gray micaceous sand, 350?-363 ft. Bottom of well filled with gravel. Used to water yard also. Temp 52°F. C, Fe.
GA42	12G2	(b) (6)	37	37	36-96	1,860	24.82	9- 9-63	-- --	C	½	D	Only enough water for domestic use.
GA43	13E1		120	--	6?	1,960	--	--	-- --	--	--	DS	Fe.
GA44	13E2		18	18	36?	1,960	4.59	11-18-63	Sand, Qgl	C	3/4	D	
GA45	13G1		12	12	48	1,885	2.75	11-18-63	Sand; Qgl	J	1/3	D	
GA46	14A1		45	45	36	1,935	44.52	11-18-63	Sand; Qgl	P	3½	DS	Fe.
66	16D3	Kaiser Aluminum and Chem. Corp., well 4	286	286	20-16	1,938	160	4-17-51	Sand, gravel; Qgf	T	250	N	50 ft of perf. Pumped 3,100 gpm; pumped 2,500 gpm for 2 hr, dd 30 ft. Not used because pumped sand. Temp 52°F. D, L.

Table 7 - Records of representative wells - Continued

Well	Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
T. 26 N., R. 43 E. - Cont.												
61 16F2	Kaiser Aluminum and Chem. Corp., well 5	268	238	24-18	1,940	157	4-25-55	Sand, gravel; Qgf	T	400	In	Screen, 238-268 f Pumped 2,300 gp dd 4.6 ft. Temp 53°F. C, L
62 16F3	Kaiser Aluminum and Chem. Corp., well 6	284	242	30-18	1,940	161.5	10-27-63	Sand, gravel; Qgf	T	250	In	Screen, 242-283 Pumped 5,000 gr dd 10 ft. L.
1 16G1	Bonneville Power Admin.	556	346	10	1,942	154	11-24-42	Sand, gravel; Qgf	N	--	N	Perf. in many place sand enters well.
58 17B1	Nelson Landscaping Service	224	224	8-6	1,940	173.51	5- 1-64	Sand, gravel; Qgf	N	--	N	Perf., 199-220 ft. Pumped 50 gpm f 2 hr, dd 0 ft. L.
59 17J1	El Paso Natural Gas Co.	248	248	6	1,945	175.12	4-27-65	Coarse sand, gravel; Qgf	S	1	D	Perf., 228-243 f Pumped 55 gpm, 5 ft. Temp 52°F L.
56 18G1	Whitworth College	200	200	72-31	1,915	160.80	12-23-41	Coarse sand, pea gravel; Qgf	T	50	P	Coarse sand, fine gravel, 20-200 Perf., 160-200 Pumps 460 gpm.
144 19A1	Whitworth Water Dist. 2, well 1	161	161?	74-60	1,936	137.06 136.86	1-22-38 1-21-65	Gravel; Qgf	T	60, 100, 100	P	Pumped 1,000 g dd 3 ft. Temp 5 F. C, D, O(19 65).
145 19P1	Town and Country Utilities Co., well 2	210	210	16	1,975	155	--	Sand, gravel, boulders; Qgf	T	150	P	Perf. Pumped 1, gpm, dd 17.0
136 20D1	Whitworth Water Dist. 2, well 2	286	253	16	1,950	152	6-12-62	Sand, gravel; Qgf	T	150	P	Screen, 253-28 Pumped 1,800 for 4 hr, dd 9 f
158 20J1	Washington Water Power Co.	430	270	6	2,011	190.28	5- 2-63	Fine sand; Qgf	N	--	T	Perf., 195-215 well filled to 1 ft with sand. L
157 20J2	Washington Water Power Co.	761	768	3-4	2,011	215.56 214.60 213.94	2- 7-63 3- 7-63 5- 2-63	Sand, boulders; Qgf	N	--	T	Perf., 755-759 plugged, 761- ft. Water added 107 gpm for 43 rise 0 ft. C, L.
6320N 20N1	Washington Water Power Co., Spokane Terrace well 2	238	238	12	2,040	208.19	3-29-65	Sand, some gravel; Qgf	T	125	P	Pumps 1,000 gp
GA47 23F1	(b) (6)	365	88	5	2,385	275	--	Sand; Tl	P	3	D	Sand enters well
GA48 23G1		230	230?	6	2,325	152.52	9-16-64	White sand; Tl	S	1½	DS	Pumps 10 gpm.
GA49 23G2		61	40+	48	2,320	54.78	9-16-64	Basalt; Ty	J	3/4	N	Yields 2 gpm. F
GA50 23R1	Washington Parks & Recreation, Comm., St. Michael's Mission	8	--	36	2,140	8.06	9-10-64	-- --	--	--	N	I.

Table 7 - Records of representative wells - Continued

Well	Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
T. 26 N., R. 43 E. - Cont.												
GA51 24H1	(b) (6)	56	56	24	2,385	43.12	9-25-64	Sand? Qp	J	½	DS	Red clay, 0-56 water at 56 ft, sand zone?
GA52 24J1		100	--	30-5	2,375	--	--	Basalt; Ty	--	--	De	Red clay, 0-56 basalt, 56-1(
GA53 24K1		39	39	30	2,345	29.71	9-15-64	Sand & clay? Qp	J	½	N	Clay at bottom.
24L1		250	250	5	2,350	188.77	9-15-64	Fine sand; Tl	N	--	N	Well filled, 25 262 ft. Pum: gpm until eart allowed sand t enter well.
GA55 24L2		43	43	30	2,350	37.85p	9-15-64	Clay, sand; Qp	J	½	D	Clay and sand l 36-43 ft. Y 5 gpm. Supp houses. Tem: F. C.
158 24L3		40	32	6	2,345	25	9-15-64	Sand; Qp	J	3/4	--	Screen, 32-4(Yields 7 gpm. to water yard.
159 24N1		365	340	6	2,295	274.60	9-14-64	Sand; Tl	S	1	D	Well filled, 36 370 ft. Yiel gpm. Temp 5 C, L.
GA56 24N2	(b) (6)	21	5	60	2,280	8.97	9-14-64	Basalt; Ty	J	1/3	N	"Dirt", 0-5 ft; basalt, 5-30 Plugged, 21- Flows in spri times. Made in summer aft pumping wate rises only a f in 24 hr. W corrosive.
GA57 24P1	(b) (6)	32	32	24-48	2,355	24.99	9-14-64	Sand, clay; Qp	J	½	D	Yields 3 gpm.
GA58 24P2		35	35	36-54	2,355	24.47	9-14-64	Sand, clay; Qp	J	1	--	Used to water gardens. I.
GA59 24P3		91	34	6	2,360	62.65	9-14-64	Clay; Tl	J	½	--	Yields gpm. to water yard, garden. I.
GA60 24P4		131	--	6	2,355	--	--	-- --	--	--	De	N.
GA61 24R1		47	10	36	2,315	39.89	9-28-64	Basalt; Ty	JP	3/4?,H	D	"Dirt", 0-10 basalt, 10-4
GA62 25G1	Spokane Co. Fire Protection Dist. 9 Orchard Prairie Fire Station 4	85	55	6	2,225	21.23	9-10-64	-- --	J	3/4	D	"Rock" at 55 Screen, 39- Used to fill f trucks also.
GA63 25G2	Central Grange	60	--	6	2,225	21.29	9-25-64	-- --	J	½	D	
GA64 25G3	(b) (6)	170	130	8	2,255	50.75	9-28-64	Quartzite; pTu	N	--	N	Yellow brown clay, 0-12(hard white q with Fe stai 170 ft. Per -130 ft. Yi

Table 7 - Records of representative wells - Continued

Well	Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
T. 26 N., R. 43 E. - Cont.												
GA65 25G4	(b) (6)	48	--	6	2,255	36.31	9-28-64	Clay; Tl	--	3/4	D	Yellow brown sticky clay, 0-48 ft. I.
GA66 25J1		50	50	36	2,320	39.95	9-25-64	Gravel, some clay & sand; Qgu	J	1	D	Gravel, some clay & fine sand, 0-50 f granite at 50 ft. Yields 1½ gpm. I.
GA67 25R1		78	40	6	2,320	40.02	9-28-64	Decomposed granite; pTu	J	½	D	Yellow & orange cla 0-40 ft; decompo ed granite, 40-7 ft. Yields 4 gpm
GA68 25R2		73	40	6	2,320	39.59	9-28-64	Decomposed granite; pTu	N	--	N	
27E1	North Spokane Irrig. Dist. 8, old well 1	237	237	84-44	2,032	185.84	3-18-42	Sand & gravel? Qgf	--	--	P	Temp 51°F. C, D. Two 16-in. casi called wells 1 & were later placed ft apart inside the original 237-ft w and gravel was pa ed around them to surface. Wells 3 pumped 2,200 gpm, dd 8.5 ft.
	new well 1	258	231	16	2,032	190	5- 2-64	Sand and gravel? Qgf	T	100	P	Screen, 231-25 Cased 251-26 Plugged at 258
	well 3	257	232	16	2,032	190	5- 2-64	Sand and gravel? Qgf	S	100	P	Screen, 232-25 Cased 252-26 Plugged at 257
3 28D1	(b) (6)	310	310	30-19	2,025	197.02	10- 9-64	Sand, gravel; Qgf	T	125	N	Perf., 210-292 Pumped 1,250 dd 9 ft. L.
7 28H1	North Spokane Irrig. Dist. 8, well 2	250	--	96	2,031	190	5- 2-64	Sand, gravel; Qgf	T	100	P	
2 28M1	(b) (6)	251	251	40	2,051	211.91	10- 9-64	Sand; Qgf	T	100	I	Perf., 211-251 94-in. diam. w 184-207 ft. F 1,200 gpm. Pumped 1,000 dd 4 ft. L.
123 29R1	(b) (6)	259	259	8	2,053	209.53	7-16-64	Gravel, some sand; Qgf	N	--	N	Perf., 239-25 Supplied traile court in past. 54°F. L.
120 30F1	Town and Country Utilities Co., well 1	312	312?	16	2,050	210	--	Sand, gravel; Qgf	T	75	P	Perf. Pumped 9 gpm, dd 22 ft. Temp 48°F. L
122 30G1	Holy Cross Cemetery	220	220	60-36	2,046	204.77 203.79	4-21-42 3-25-65	Sand; Qgf	T	40, 60	DI	Topsoil, 0-2 ft coarse sand la 2-220 ft. Pe 200-220 ft. in. diam. well 195 ft. Pump

Table 7 - Records of representative wells - Continued

Well	Owner	Well Depth (ft)	Casing Depth (ft)	Casing Diam (in)	Land surface altitude (ft)	Water level Below land surface (ft)	Water level Date	Water-yielding material & Geologic designation	Pump Type	Pump Horse-power	Use	Remarks
T. 26 N., R. 43 E. - Cont.												
GA69 30R2	Washington Water Power Co., Spokane Terrace, well 1	293	293	16	2,070	230.45 229.00	11-16-51 3-29-65	Sand, gravel; Qgf	T	150	P	Perf.? Pumps 1 gpm. C. Labe 30J1 by Weig Mundorff (195 p. 74).
? 119 31A1	City of Spokane Central Ave., well 1	270	270	96-84	2,081	225	8-13-65	Sand, gravel; Qgf	S	450,450	P	Perf., 214-26 plugged, 270-ft. 192-in. d well, 170-21 Pumps 8,000 Pumped 4,20 dd 3 ft. Used summer only. 52°F. L.
GA20 31A2	City of Spokane, Central Ave., well 2	270	270	96-84	2,081	225	8-13-65	Sand, gravel; Qgf	S	450,450	P	Perf., 214-26 192-in. diam 170-210 ft. 8,000 gpm. summer only.
31A3	City of Spokane, Central Ave. Station	280	280	6	2,081	213.68 210.88 216.56	12- 8-59 5-31-60 9-20-60	Sand, gravel; Qgf	N	--	DeT	L.
34E1	(b) (6)	190	190	60-42	2,049	172.90	4-27-65	Very coarse gravel; Qgf	C	30	D	Gravel with mu "dirt", 0-10 very coarse g 10-190 ft. 166-190 ft. ed 300 gpm. Supplies war Used for ice past. Temp D.
T. 26 N., R. 44 E.												
3G1	(b) (6)	127	--	6	2,420	96	9- 9-63	-- --	J	1½	D	
3Q1		113	--	8	2,410	106	--	Clay; Tl	J	3/4	D	Fe.
4E1		15	--	36?	1,890	--	--	-- --	J	½	D	Fe.
4G1		12	9	36?	1,900	3.60	11-15-63	Clay; Qls	J	½	D	Fe, I.
4N1		85	--	30	1,880	56.75	11-15-63	-- --	J	½	DS	Fe.
5N1		12	12	36	1,820	0.98	11-19-63	-- --	J	1½	I	Fe.
5N2		12	12	48	1,820	--	--	-- --	J	1	DS	Fe.
[illegible]		22	22?	30?	1,845	11	1963	Sand, gravel;	J	3/4	D	L.

APPENDIX B

WATER QUALITY DATA

WATER QUALITY DATA LIST

- Manchester Environmental Laboratory, August 1, 1984
- Manchester Environmental Laboratory, May 6, 1985
- Aquifer Project "208", Spokane County, WA, June 6, 1985

WATER QUALITY RESULTS

August 1, 1984

Golder Associates

SPELLMAN
Governor

DONALD W. MOOS
Director

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Mail Stop PV-11 • Olympia, Washington 98504 • (206) 459-6000

RECEIVED
AUG 15 1984
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

TO: Merley McCall - Jim Malm

FROM: D. Huntamer - Chemist

SUBJECT: Volatile Organic Analysis of North Market Street Water Samples, Mead, Spokane

DATE: August 1, 1984

Two water samples collected on July 9, 1984 were received at the Manchester Environmental Laboratory on July 10, 1984 for volatile organic analyses. The results of the analyses are attached.

EPA#	WDOE#		
28000	142982	Water	R.A. Hanson
28001	142981	Water	A-Z Rental Well

VOLATILES

DOE-043A

PROJECT: WDOE/ N. Market St COMPILED BY: JM Blyerich DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-30-84

SAMPLE # :	28000	28001
UNITS :	ug/l →	
LOQ :	7-16-84 →	
1. acrolein	10u	10u
2. acrylonitrile	5u	5u
3. benzene	14.00	3.1
4. carbon tetrachloride	2u	2u
5. chlorobenzene	↓	↓
6. 1,2-dichloroethane	27	
7. 1,1,1-trichloroethane	2u	
8. 1,1-dichloroethane		
9. 1,1,2-trichloroethane		
10. 1,1,2,2-tetrachloroethane		
11. chloroethane		
12. 2-chloroethylvinyl ether		
13. chloroform		
14. 1,1-dichloroethylene		
15. 1,2-trans-dichloroethylene		
16. 1,2-dichloropropane		
17. 1,3-dichloropropylene	↓	↓
18. ethylbenzene	1300	2m
19. methylene chloride	2u	2u
20 methyl chloride	↓	↓
21. methyl bromide		
22. bromoform		

(VOLATILES (Continued)

PROJECT: WDCE/ No Market St COMPILED BY: JM Blumenthal DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-30-84

SAMPLE # :	28000	28001						
UNITS :	ug/l	→						
LOD :	7-16-84	7-16-84						
dichlorobromomethane	2u	2u						
trichlorofluoromethane	↓	↓						
25. dichlorodifluoromethane	↓	↓						
5. chlorodibromomethane	↓	↓						
27. tetrachloroethylene	↓	40						
28. toluene	1300	2m						
9. trichloroethylene	2u	2.9						
30. vinyl chloride	↓	2u						

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

PROJECT: WDOE / No. Market St COMPILED BY: JM Blazevich DATE 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE 7-30-84

SAMPLE # :	2X00	2X01						
UNITS :	ug/l →							
LOQ :								
1. benzoic acid								
2. 2-methylphenol								
3. 4-methylphenol								
4. 2,4,5-trichlorophenol								
5. aniline								
6. benzyl alcohol								
7. 4-chloroaniline								
8. dibenzofuran								
9. 2-methyl naphthalene								
10. 2-nitroaniline								
11. 3-nitroaniline								
12. 4-nitroaniline								
13. acetone	24	24						
14. 2-butanone	↓	↓						
15. carbon disulfide								
16. 2-hexanone								
17. 4-methyl 1-2-pentanone								
18. styrene								
19. vinyl acetate	ND	ND						
20. o-xylene	1290	2m						

TENTATIVELY IDENTIFIED COMPOUNDS

PROJECT: LWDOE M. Menlo Pt COMPILED BY: JM Blyerich DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-30-84

VOA FRACTION:	SAMPLE # :	28000	28001						
CAS #	NAME	25/102	12/33						
107-01-7	2-butene	780	ND						
563-46-2	2-methyl-1-butene	240							
627-20-3	2-pentene (Z)-	1080							
75-83-2	2,2-dimethyl-butane	180							
2004-69-5	3-penten-1-yne, (E-)	240							
142-29-0	cyclopentene	1700							
109-67-1	1-pentene	3000							
763-29-1	2-methyl-1-pentene	450							
760-21-4	3-methylene-pentane	160							
13269-52-8	3-hexene, (E-)	190							

* Results are estimates expressed in ug/l

TENTATIVELY IDENTIFIED COMPOUNDS

PROJECT: WDOE N. Marshfield COMPILED BY: JM Blazevich DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-30-84

VOA FRACTION:	SAMPLE # :	28000	28001						
CAS #	NAME								
4050 11. -45-7	2-hexene, (E)-	250	ND						
625 12. -27-4	2-methyl- -2-pentene	690							
922 13. -62-3	3-methyl- -2-pentene	760							
1759 14. -81-5	4-methyl cyclopentene	600							
616 15. -12-6	3-methyl- 2-pentene, (E-)	970							
96 16. -39-9	1-methyl- 1,3-cyclopentadiene	95							
3404 17. -72-6	2,3-dimethyl- -1-pentene	11							
110 18. -02-1	thiophene	48							
2597 19. -49-1	ethenyl- cyclobutane	190							
19037 20. -72-0	4,4-dimethyl- cyclopentene	120							

TENTATIVELY IDENTIFIED COMPOUNDS

PROJECT: WDOE M. Mist Pit COMPILED BY: JM Blazevich DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-3-84

VOA FRACTION:	SAMPLE # :	28000	28001						
CAS #	NAME								
591 21. -49-1	1-methyl-cyclohexene	110	ND						
98 22. -82-8	(1-methylethyl)-benzene	160	↓						
103 23. -65-1	propyl-benzene	280	↓						
95 24. -63-6	1,2,3-trimethyl-benzene	170	57						
620 25. -14-4	1-ethyl-3-methyl-benzene	710	ND						
110 26. -83-8	cyclohexene	ND	18						
106 27. -42-3	1,4-dimethyl benzene	↓	7.5						
526 28. -73-8	1,2,3-trimethyl-benzene	↓	42						
108 29. -67-8	1,3,5-trimethyl-benzene	↓	30						
622 30. -96-8	1-ethyl-4-methyl-benzene	↓	16						

TENTATIVELY IDENTIFIED COMPOUNDS

PROJECT: WDOE M. Mobile COMPILED BY: Jim Blazevich DATE: 7-30-84

LABORATORY: EPA Region X REVIEWED BY: [illegible] DATE: 7-[illegible]-84

VOA FRACTION:	SAMPLE # :	28000	28001						
CAS #	NAME								
611 -14-3	1-ethyl-2-methyl-benzene	ND	26						
31. 1074 -43-7	1-methyl-3-propyl-benzene		48						
32. 874 -41-9	1-ethyl-2,4-dimethyl-benzene		26						
33. 1074 -17-5	1-methyl-2-propyl-benzene		38						
34. 99 -87-6	1-methyl-2-(1-methyl-ethyl) benzene		75						
35. 1758 -88-9	2-ethyl-1,4-dimethyl benzene		26						
36.									
7.									
8.									
9.									
10.									

WATER QUALITY RESULTS

May 6, 1985

Golder Associates

3-25-85

XXXXXXXXXXX
Governor

XXXXXXXXXXX
Director

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Mail Stop PV-11 • Olympia, Washington 98504 • (206) 459-6000

MAY 8 1985

M E M O R A N D U M

May 6, 1985

TO: Flora Goldstein

FROM: Dick Huntamer, Chemist

SUBJECT: Volatile Organic Analysis of North Market Street Water Samples, Spokane, Washington

Five water samples, collected on March 25, 1985, were received at the Manchester Environmental Laboratory for Volatile Organic Analysis (VOA.) The results of the analysis are attached.

Lab Number	
137001	Fasmart Spigot near well head
137002	A to Z Spigot near well head
137003	WWP Spigot near well head
137004	R.A. Hanson Spigot near well head
137005	Transport Blank

Attachment

DH:cm

cc: Merley McCall

VOLATILES

PROJECT CODE DOE-110A

PROJECT North Market S

LABORATORY Region 1

COMPILED BY: G. Muth DATE: 5-2-85

REVIEWED BY: [illegible] DATE: 5-3-85

	Fosmar	A to Z	WWP	R.A	Eagle
SAMPLE # :	137001	137002	137003	137004	137005
UNITS :	µg/L	µg/L	µg/L	µg/L	µg/L
% SOLIDS :	–	–	–	–	–
Date Analyzed :	4-9-85	4-11-85	4-11-85	4-11-85	4-11-85
1. acrolein	NA	NA	NA	NA	NA
2. acrylonitrile	NA	NA	NA	NA	NA
3. benzene	5U	0.4J	5U	245	5U
4. carbon tetrachlor[illegible]e	↓	5U	↓	5U	↓
5. chlorobenzene	↓	↓	↓	↓	↓
6. 1,2-dichloroethar[illegible]	↓	↓	↓	3J	↓
7. 1,1,1-trichloroet[illegible]ne	↓	↓	↓	5U	↓
8. 1,1-dichloroethar[illegible]	↓	↓	↓	↓	↓
9. 1,1,2-trichloroet[illegible]ane	↓	↓	↓	↓	↓
10. 1,1,2,2-tetrachl[illegible]oethane	↓	↓	↓	↓	↓
11. chloroethane	10U	10U	10U	10U	10U
12. 2-chloroethylvin[illegible] ether	10U	10U	10U	10U	10U
13. chloroform	5U	5U	5U	5U	5U
14. 1,1-dichloroeth[illegible]ne	↓	↓	↓	↓	↓
15. 1,2-trans-dichl[illegible]ethylene	↓	↓	↓	↓	↓
16. 1,2-dichloropro[illegible]ne	↓	↓	↓	↓	↓
17. cis-1,3-dichlor[illegible]opylene	↓	↓	↓	↓	↓
18. trans-1,3-dichl[illegible]opropylene	↓	↓	↓	↓	↓
19. ethylbenzene	↓	0.2J	↓	2	↓
20. methane, dichlo[illegible]	2UJ	2UJ	2UJ	2UJ	5UJ
21. methane, chlor[illegible]	10U	10U	10U	10U	10U

VOLATILES (Continued)

PROJECT North Market St. COMPILED BY: G. Muth DATE:

LABORATORY Region 10 REVIEWED BY: [illegible] DATE: 5-3-85

	Fasnacht	A Fo 2	WWP 3	R.A Hunter	Blank 5				
SAMPLE # :	137001	137002	137003	137004	137005				
UNITS :	µg/L	µg/L	µg/L	µg/L	µg/L				
22. methane, bromo-	10U	10U	10U	10U	10U				
23. methane, tribromo-	5U	5U	5U	5U	5U				
24. methane, dichlorobromo-									
25. chlorodibromomethane									
26. tetrachloroethylene									
27. toluene				11					
28. trichloroethylene		1J		5U					
29. vinyl chloride	10U	10U	10U	10U	10U				

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g.10U) based on necessary concentration dilution actions (This is not necessarily the instrument detection limit). The footnotes should read U: Compound was analyzed for for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

ROJECT North Market st COMPILED BY: G. Muth DATE:

ABORATORY Region 10 REVIEWED BY: aB DATE: 5-3-85

SAMPLE # :	137001	137002	137003	137004	137005				
UNITS :		ug/L	ug/L	ug/L	ug/L				
1. benzoic acid									
2. 2-methylphenol									
3. 4-methylphenol									
4. 2,4,5-trichlorophenol									
5. aniline									
6. benzyl alcohol									
7. 4-chloroaniline									
8. dibenzofuran									
9. 2-methyl naphthalene									
0. 2-nitroaniline									
1. 3-nitroaniline									
2. 4-nitroaniline									
3. acetone	6UJ	4UJ	3UJ	10U	1UJ				
4. 2-butanone	10U	3J	3J	10U	2J				
5. carbon disulfide	5U	5U	5U	5U	5U				
6. 2-hexanone	10U	10U	10U	10U	10U				
7. 4-methyl-2-pentanone	10U	10U	10U	10U	10U				
8. styrene	5U	0.2J	5U	5U	5U				
9. vinyl acetate	10U	10U	10U	10U	10U				
0. O-xylene	NA	NA	NA	NA	NA				
1. Total Xylenes	5U	0.4J	5U	160	5U				

TENTATIVELY IDENTIFIED COMPOUNDS (TIC)

PROJECT: North Market st COMPILED BY: G. Muth DATE: _____

LABORATORY: Region 10 REVIEWED BY: [illegible] DATE: 5-3-85

VOA FRACTION: SAMPLE # :	137001	137002 A to Z	137003	137004 R.A Hansen	137005			
CAS # NAME *	1/1	23/26	None	57/65	None			
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

* TIC Hydrocarbon compounds with reasonable spectra
compounds Identified

AQUIFER PROJECT "208"
WATER QUALITY RESULTS
June 6, 1985

Golder Associates

REPORT DATE 06/21/85

AQUIFER PROJECT 209
REPORT OF ON-GOING MONITORING RESULT DATA
WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LABO	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6303M	840731		12													1.9			

REPORT DATE 06/21/85

AQUIFER PROJECT 203
REPORT OF ON-GOING MONITORING RESULT DATA
WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6303N	710803		01	250	3	1.8	23.6		31.2	13.9	16.8	2.2	ND	180	0.09				
	771012		05	639	20	8.4		0.00											
	780307	0	06	575	19.0	9.8													
	780410	0	06	575	16.8	7.2													
	780410	0	02	555	17.4														
	780410	0	03			NP	NP	<0.005											
	780509		05	330	12	2.2		0.00											
	780531	0	06	530	14.0	6.8													
	780601	0	06	430	18.0	4.2													
	800604		01	330	6	1.5	33		46	16	7	<10			0.2				
	800604		05		6.0	1.5	30.0	0.2	44.0	15.0	7.0	1.0	0.01		0.2			1.2	
	801001		12																
	801008		01	420	15	1.8	75		43	20	16	<10			<0.2				
	801008		05		3.0	1.5	27.0	0.2	17.0	30.0	5.0	3.0			0.2			1.5	
	810101		12																
	810126		09	450															
	810127		01	690	25	9.0	57		60	12	12	<10			<0.2				
	810127		09	425															
	810127		05		25.0	9.0	57.0	0.2	39.0	66.0	12.0	6.0			0.2				
	810501		12																
	810501		12																
	810528		01	290	15	1.3	24.5		30	16	3.1	<5			<0.2				
	810528		05	200															
	810528		05		16.0	1.3	25.0	0.2	30.0	16.0	3.0	2.0			0.2				
	810701		12																
	810730		01	350	5	1.9	21		33	15	4	<5			<0.2				
	810730		09	215															
	810730		05		5.0	1.9	21.0	0.2	37.0	18.0	4.0	2.0			0.2				
	811001		12																
	811028		01	660	34	9.9	23		41	12	16	6			<0.2				
	911028		09	475															
	811028		05		34.0	9.9	25.0	0.2	25.0	41.0	16.0	6.0			0.2				
	820701		12																
	820727		02	255	6.87	2.34	16.5		30.6	17.44	3.6	2.7	<10		<0.1				
	820729		09	255															
	820729		09	255															
	820729		01		6.87	2.34	16.5	0.01	30.6	17.44	3.6	2.7	<0.01		<0.1				
	821001		12																
	821027		02	450	28.6	14.5	45.8		64.0	35.6	15.2	5.9	<10		0.19				
	821027		11	450															
	821027		01		28.6	14.5.	45.8	<0.01	64.0	35.6	15.2	5.9	<0.01		0.19				
	830101		12															T	
	830126		02	450	29.16	10.1	32.4		57.5	35.4	16.7	5.6	<10		<0.1			T	
	830401		12																
	830425		02	330	19.9	7.69	26		56.0	27.2	12.1	4.8	<10		0.16				
	830426		09	330															
	830426		01		19.9	2.49	26.0	<0.01	56.0	27.2	12.1	4.8	<0.01		<0.14				
	830726		15	270	6.0	1.46	13.0		32.0	15.8	5.6	2.9	<10		0.09				
	830726		09	270															

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	830726		01		5.0	1.46	13.0	0.1	32.0	15.8	5.6	2.9	<0.01		0.09	1.4			
	831001		12																
	831025		13	353	18.0	6.71	25.0		51.0	27.0	9.8	4.6	<10		0.15				
	831025		09	353															
	831025		01		18.0	6.71	25.0	0.01	51.0	27.0	9.8	4.6	<0.01		0.15	1.4	1.4		
	840101		12																
	840125		02	235	6.3	2.34	16.4		32.0	16.4	4.4	2.6	<10		0.11				
	840125		09	235															
	840125		01		6.3	2.34	16.4	0.01	32.0	16.4	4.4	2.6	<0.01		0.11	1.4	1.4		
	840401		12																
	840425		07	438	21.5	11.32	33.9		62.6	36.4	14.3	5.5	<10		0.12				
	840425		07																
	840425		09	250															
	840425		01		21.5	11.32	33.9	<0.01	62.6	36.4	14.3	5.5	<0.01		0.12				
	840719		09	250															
	840719		01		5.6	2.22	16.2	<0.01	36.0	18.0	4.2	2.5	<0.01		<0.1				
	840719		07					0.0102											
	841001		12																

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6303P	700833		01	730	10.5	ND	33.2		28	13	2.3	5.38		83	0.12				
	770517		05	330	3.7	1.8		0.31											
	771012		05	650	22	8.8		0.30											
	780539		06	430	16	5.9		0.00											
	800620		01	330	6	1.3	3		46	15	7	<10	<10		0.2				
	800620		05		1.0	1.3	3.0	0.2	46.0	15.0	7.0	3.0	0.01		0.2	1.6	<1	<1	
	800931		12													1.6			
	901031		12																
	801038		01	350	9	1.2	25		20	30	7	<10			<0.2				
	810531		12																
	810531		12													<1	<1	<1	
	810526		12																
	810528		01	330	10.0	1.5	28		39	16	4.2	<5			<0.2				
	810731		12																
	810731		12													<1	<1	<1	
	810728		12																
	910730		01	330	6	1.8	18		37	15	5	<5			<0.2				
	910730		09	215															
	820701		12																
	820727		01		6.66	1.53	10.7	0.02	36.9	15.04	4.6	2.3	<0.31		0.12				
	820729		09	255															
	830726		01		3.62	1.59	12.0	0.02	38.6	14.6	4.7	2.5	<0.31		0.09				
	840731		12																
	840719		09	268															
	840719		01		6.7	1.37	13.1	0.01	38.6	15.2	5.1	2.2	<0.31		<0.1				

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6304	800610		05		3.0	1.6	17.0	02	30.3	13.0	6.0	2.0	0.01		0.4				

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6305N	900101		12																
	800127		09	360															
	800127		05		18.0	3.3	58.0	0.2	26.0	40.0	22.0	4.0			0.8				
	800901		12													1.7	<1	<1	
	801001		12													1.7			
	801007		01	410	19	2.8	62		18	35	17	<10			<0.1				
	801007		05		19.0	2.8	62.0	0.2	18.0	35.0	17.0	4.0			0.9				
	810126		12													<1	<1	<1	
	810127		01	450	18	3.3	58		26	40	22	<10			<0.2				
	810501		12																
	810526		12													<1	<1	<1	
	810528		01	430	19	4.2	55		43	22	20	<5			0.8				
	810528		09	338															
	810528		05		19.0	4.2	55.0	0.2	43.0	22.0	20.0	4.0			0.8				
	810701		12													1.7			
	810701		12													1.3			
	810728		12													1.3	<1	<1	
	810730		01	470	18	4.0	28		42	23	20	<5			0.8				
	810730		01	470	18	4.0	34		42	23	20	<5			0.8				
	810730		09	315															
	810730		05		18.0	4.0	34.0	0.2	42.0	23.0	20.0	3.0			0.8				
	810730		09	315															
	810730		05		18.0	4.0	28.0	0.2	42.0	23.0	20.0	3.0			0.8				
	811001		12																
	811008		09	335															
	811008		05		13.0	3.1	23.0	0.2	23.0	24.0	18.0	3.0			0.8				
	811028		01	420	13	3.1	23		10	24	18	3			<0.2				
	811028		05													<1	<1	<1	
	820701		12													2.2			
	820729		09	338															
	820729		01		14.9	3.72	24.7	<0.01	32.0	21.2	18.0	3.4	<0.01		1.0				
	830727		09	312															
	830727		01		16.3	3.57	32.0	0.01	33.5	22.6	19.2	3.7	<0.01		0.35				
	840701		12													1.4			
	840719		09	296															
	840719		01		2.0	1.99	15.6	<0.01	32.8	18.2	3.7	2.2	<0.01		<0.1				

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
005P	780601	0	02	507	17.7				40.0	21.7	29.0	4.2							
	780601	0	03			3.0	19	<0.005											
	780601	0	06	400	13.2	3.2													
	780601	-5	06	335	12.9	3.1													
	780601	-12	06	355	13.5	2.8													
	780601	-20	02	338	12.4				33.6	16.6	9.0	2.9							
	780601	-20	03			2.2	NP	<0.005											
	780601	-20	06	285	12.9	2.3													
	780615	0	02	434	13.8				40.0	19.8	17.6	3.9							
	780615	0	03			3.1	60	<0.005											
	780615	0	06	425	13.4	3.3													
	780615	-12	03			2.32	20	<0.005											
	780615	-12	06	410	12.5	2.9													
	780615	-20	02	350	13.8				33.6	16.8	8.9	3.0							
	780615	-22	06	425	12.5	3.1													
	780615	-22	06	350	12.7	2.6													
	790308		06	235															
	790308		06	450															
	790308		05	531	32	2.1	58				25				<0.1				
	790308		05	252	11	0.9	18				6.5				<0.1				
	790416		05	297	12	1.5	17				8.0								
	790416		05	460	15	3.0	68				27.3								
	790416		06	250															
	790416		06	400															

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6306N	770517		05	298	3.9	1.3		0.01											
	830126		01		29.16	10.1	37.4	<0.01	57.5	35.4	16.7	5.6	<0.01		<0.1				

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AQUIFER PROJECT 208
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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6306P	801002		05		9.0	1.5	28.0	0.2	39.0	14.0	4.0	2.0			0.2				
	810528		09	230															
	810528		05		9.0	1.2	25.0	0.2	20.0	30.0	7.0	2.0			0.2				
	810730		05		1.0	1.3	18.0	0.5	16.0	16.0	5.0	2.0			0.2				
	830726		09	245															

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6307G	771011	111	05	420	3.6	2.5		0.0											
	771011	116	05	390	3.3	2.5		0.0											
	771011	121	05		3.2	2.6		0.0											
	771011	123	06	355	3.2	2.2		0.0											
	790312		06	270															
	790312		06	270							4.0				<0.1				
	790312		05	338	2		19				4.0				<0.1				
	790312		05	312	1		18												
	790416		06	250							3.4								
	790416		05	311	2	2.9	19												

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6307K01	700930		01	314	5.25	3.06	22.5		28.3	16.6	4.8	ND	ND	ND	0.08				
	710804		01	230	3	1.8	30.6		28	17	3.9	1.95	6	120	0.2				
	750515		01	238	6.5	0.8	16.3		28	25.7	2.6	ND	ND	120	0.2				
	750811		01	330	7.5	2.7	5.8		40	23.3	2.4	ND	ND	ND	0.1				
	770516		05	269	3.2	1.5		0.00											
	771011		06	351	6.6	2.2		0.00											
	780508		05	300	3.8	1.5		0.00											
	800605		01	290	10	3.8	20		40	22	8	<10	<10		0.3				
	800605		05		10.0	3.8	20.0	0.2	40.0	22.0	8.0	2.0	0.01		0.3				
	801007		01	330	5	1.7	30		25	35	7	<10			<0.2				
	801007		05		5.0	1.7	30.0	0.2	25.0	36.0	7.0	3.0			0.2				
	810127		01	370	13	1.9	30		21	40	6	<10			<0.2				
	810128		05		13.0	1.0	40.0	0.2	21.0	40.0	6.0	3.0			0.2				
	810501		12																
	810528		01	310	8.8	1.7	32.5		34	18	4.7	<5			<0.2				
	810528		09	234															
	810528		05		10.0	1.7	33.0	0.2	24.0	18.0	5.0	3.0			0.2				
	810729		01	360	5	1.7	18		33	18	6	<5			<0.2				
	810729		05		5.0	1.7	18.0	0.2	33.0	18.0	6.0	2.0			0.2				
	811001		12																
	811028		01	330	6	1.5	13		20	9	6	2			<0.2				
	811028		09	235															
	811028		09	225															
	811028		05		6.0	1.5	17.0	0.2	9.0	20.0	6.0	2.0			0.2				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6307P	770516		05	246	3.2	1.5		0.30											
	771011		05	337	5.9	2.2		0.30											
	780508		06	231	3.9	1.60.			33	15	5	<10	<10	<10	0.2				
	800635		01	230	2	1.6	24		33	15	5	2.0	0.01		0.2				
	800635		05		2.0	1.6	24.0	0.2	33.3	15.0	5.0	2.0	0.01			1.2	<1	<1	ND
	800931		12													1.2			
	901031		12												0.2				
	901037		05		5.0	1.6	29.0	0.2	25.0	37.0	7.0	3.0			<0.2				
	801038		01	230	5	1.5	29		37	25	7	<10							
	810531		12												<0.2				
	810528		01	380	10	2.6	38		34	18	5.1	<5							
	810528		09	210											0.2				
	810528		05		3.0	2.6	28.0	0.2	40.0	13.0	5.0	3.0							
	810731		12												<0.2				
	810729		01	350	5	1.5	18		39	18	6	<5							
	810729		09	248											0.2				
	810729		05		5.0	1.5	18.0	0.2	34.3	18.0	6.0	2.0				2.2			
	820731		12																
	820727		02	262	3.11	1.96	10.3		32	15.9	2.9	2.3	<10	<10	<0.01	2.2	<1	<1	<1
	820728		05																
	820729		09	262											<0.1				
	820729		01		3.11	1.96	10.3	<0.01	32.9	16.9	3.4	2.3	<0.01			T			
	821031		12													1.4	<1	<1	<1
	821025		05																
	821027		02	135	6.73	1.18	17.7		28.3	15.6	3.4	2.3	<10	<10	<0.31				
	821027		09	135															
	821027		01		6.78	1.18	17.7	<0.01	28.9	16.6	2.9	2.3	<0.31		<0.1	T			
	830131		12													1.4	<1	<1	<1
	830125		05																
	830125		09	198															
	830125		01		2.15	1.14	12.7	<0.01	30.6	15.0	3.1	2.1	<0.31		<0.1				
	830126		02	198	2.15	1.14	12.7		30.6	15.0	3.1	2.1	<10	<10	<0.1	T	1.4		
	830431		12																
	830425		09	205															
	830425		01		2.53	1.53	14.0	<0.01	30.3	15.8	3.21	2.4	<0.31		0.12				
	830426		02	235	2.56	1.53	14		30	15.9	3.2	2.4	<10	<10	0.12				
	830727		02	235	2.13	1.42	14.0		30.6	15.6	3.1	2.4	<10		0.07				
	831031		12													1.4	1.3	1.0	
	831031		12													1.4	1.3	1.0	
	831026		02	232	2.3	1.32	14.0		30.3	17.5	3.2	2.3	<10		0.10				
	831026		09	232															
	831026		01		2.3	1.32	14.0	<0.01	30.3	17.5	3.2	2.3	<0.31		0.1	1.4	1U	1J	
	840131		12																
	840125		02	233	1.9	1.53	15.1		30.6	15.8	3.3	2.1	<10		<0.11				
	840125		01		1.8	1.53	15.1	<0.01	30.6	15.8	3.3	2.1	<0.01		<0.11	1.4			
	840431		12																
	840425		07	210	1.6	1.3	13.3		28.3	15.8	3.0	2.3	<10		<0.11				
	840425		07																
	840425		09	210															

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	940425		01		1.5	1.3	13.3	<0.01	28.9	15.8	3.0	2.3	<0.01		<0.11	1.9			
	940731		12																
	940719	6	09	210	2.2	1.71	14.3	<0.01	30.6	17.8	3.7	2.1	<0.01		<0.1				
	840719		01																
	841031		12		1.5	1.25	15.0	<0.01	30.3	15.0	3.1	1.85	<0.31		<0.1				
	850128		09	130															

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
63088	540512		01	375	28.7	1.74	15		37.08	17.2	1.85	1.65	455	ND	0.06				
	700833		01	298	6.5	4.66	16.8		26.6	12.1	1.2	4.21	ND	120	0.18				
	750334		01	459	18	5.1	60		46.6	3.4	10.2	ND	1	200	0.1				
	770517		06	331	6.3	1.8		0.31											
	770617	0	06	430	12.4	2.3													
	770622	0	06	410	11.9	3.0													
	770622	0	02																
	770711	0	06	430	11.8	3.7													
	770711	0	03			2.02	41.0	0.305											
	771033	0	06	535	14.5	4.4													
	771012		06	632	21	8.4		0.00											
	771026	0	06	575	16.2	8.2													
	771207	0	06	635	19.9	10.0													
	780119	0	06	535	17.3	7.8													
	780119	0	02																
	780307	0	06	415	11.9	2.2													
	780410	0	06	415	11.2	2.0													
	780410	0	02																
	780509		05	399	10	1.9		0.00											
	780531	0	06	395	10.8	2.2										0.68	<0.5	ND	<0.1
	780613		05												ND				
	790319		06	350	ND	ND	ND		ND	ND	ND	ND			<0.01				
	790319		05	333	10	1.6	51		ND	ND	11.6	ND			ND				
	790418		06	330	ND	ND	ND		ND	ND	ND	ND			ND				
	790418		05	431	11	1.6	58		ND	ND	18.3	ND			0.2				
	800634		01	410	14	1.3	16		44	21	18	<10			0.2				
	800634		05		14.0	1.9	16.0	0.2	46.0	21.0	13.0	4.0	0.01			1.5	<1	<1	ND
	800931		12													1.5			
	801031		12																
	801038		01	330	3	1.5	27		30	17	5	<10			<0.2				
	801038		05		15.0	18.	75.0	0.2	20.0	43.0	15.0	4.0			0.2				
	810131		12													<1	<1	<1	ND
	810126		12																
	810127		01	470	16	1.7	90		40	23	15	<10			<0.2				
	810127		09	337															
	310127		05		16.0	1.7	90.0	0.2	23.0	43.0	15.0	4.0			0.2				
	810531		12													<1	<1	<1	ND
	810526		12																
	810528		01	640	13.8	1.9	57		41	23	12.7	<5			<0.2				
	810528		09	310															
	810528		05		14.0	1.9	57.0	0.2	41.0	2.0	13.0	4.0			0.2				
	310728		12													<1	<1	<1	ND
	310730		01	460	5	2.1	50		43	21	16	<5			<0.2				
	810730		09	298															
	310730		05		5.0	2.1	50.0	0.2	43.0	21.0	16.0	3.0			0.2				
	811031		12													<1	<1	<1	ND
	811028		05																
	811028		01	420	10	1.5	65		23	10	17	4			<0.2				
	811028		09	335															

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	811028		05		10.0	1.5	65.0	0.2	45.0	23.0	17.0	4.0			0.2				
	820126		09	330												2.2			
	820701		12																
	820727		02	325	9.84	2.08	57.7		41.5	18.5	16.1	3.4	<10		0.32	2.2	<1	<1	<1
	920728		05																
	820729		09	325															
	820729		01		9.84	2.08	57.7	<0.01	41.5	13.5	16.1	3.4	<0.01		0.32				
	921031		12													T 1.4	<1	<1	<1
	821025		05																
	921027		02	235	9.53	1.5	74.4		33.6	20.6	15	3.7	<10		0.3				
	821027		09	235															
	821027		01		9.53	1.5	74.4	<0.01	33.5	29.6	15.0	3.7	<0.01		0.3				
	830101		12													T 1.4	<1	<1	<1
	830125		05																
	830126		02	330	9.46	1.56	67.5		35.2	20.65	16.5	3.5	<10		0.25				
	830126		01		9.46	1.56	67.5	0.01	35.2	20.65	16.5	3.5	<0.01		0.25				
	830401		12													T			
	830425		02	235	9.21	1.87	62		37	13.5	16.9	3.5	<10		0.33				
	930425		09	235															
	830425		01		9.21	1.87	62.0	0.1	37.0	13.5	16.9	3.5	<0.01		0.33				
	830726		02	335	7.56	1.77	57.0		33.5	13.0	16.9	3.6	<10		0.30				
	830726		09	335															
	830726		01		7.56	1.77	57.0	<0.01	33.5	13.0	16.9	3.6	<0.01		0.3				
	831001		12													1.4	1.0	1.0	
	831025		02	333	10.0	1.67	67.0		36.0	13.6	15.0	3.6	<10		0.36				
	831025		09	333															
	831025		01		10.0	1.67	67.0	0.02	36.0	19.6	15.0	3.6	<0.01		0.36				
	840101		12													1.4	1U	1U	
	840126		02	230	7.8	1.81	66.9		33.5	18.4	16.2	3.3	<10		0.42				
	840125		09	230															
	840125		01		7.8	1.81	66.9	<0.01	33.5	13.4	15.2	3.3	<0.01		0.42				
	840401		12													1.4			
	840425		02	279	5.5	1.32	39.4		30.6	18.4	15.2	3.4	<10		0.43				
	840425		07																
	840425		09	279												1.4			
	840701		12																
	840719		09	252															
	840719		01		5.5	1.22	28.4	<0.01	30.6	16.8	15.0	2.9	<0.01		0.35				
	840719		07					0.0032											
	841001		12																
	850128		09	210	5.5	1.29	25.0	0.01	30.0	17.0	15.3	3.0	<0.01		0.36				
	870101		12																

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
310K	770517		05	610	19	8.8		0.00											
	771012		06	637	19	8.4		0.00											
	780509		05	550	16	8.5		0.00											
	810128		09	530															
	811031		12													<1	<1	<1	ND
	811028		05																
	811028		01	620	28	9.3	35		11	43	17	6			<0.2				
	811028		05		28.0	9.3	35.0	<0.2	11.0	40.0	17.0	6.0			<0.2				
	820731		12																
	820727		02	550	22.8	13.0	61.8		43.2	35.4	14.1	5.5	<10		0.18				
	820728		05													<1	<1	<1	<1
	920729		09	550															
	820729		01		22.8	13.0	61.8	<0.01	43.2	35.4	14.1	5.5			0.18				
	821031		12													<1	<1	<1	<1
	821025		05																
	821027		02	530	29.4	11.4	66.6		62.6	36.8	15.2	5.8	<10		<0.1				
	821027		09	530															
	821027		01		29.4	11.4	66.6	<0.01	62.6	36.8	15.2	5.8	<0.01		<0.1				
	830131		12													1.4	<1	<1	<1
	830125		05																
	830126		02	530	26.45	10.86	18.1		60.8	35.35	16.9	5.6	<10		<0.1				
	830126		09	530															
	830126		01		26.45	10.86	18.1	<0.01	60.8	35.35	16.3	5.8	<0.01		<0.1				
	830431		12																
	830425		02	490	26.4	9.57	36.0		65.0	33.6	15.5	5.7	<10		0.15				
	830425		09	430															
	830425		01		26.4	9.57	36.0	0.01	65.0	33.6	15.56	5.7	<0.01		0.16				
	830726		02	550	1.93	12.0	33.0		64.0	32.8	14.5	5.8	<10		0.11				
	830726		01		1.93	12.0	33.0	0.01	64.0	32.8	14.5	5.8	<0.01		0.11				
	830727		09	550												1.4	1.0	1.0	1.4
	831031		12													1.4	1U	1J	1.4
	840131		12																
	840125		02	473	21.1	10.8	39.1		66.6	36.0	13.8	5.4	<10		0.13				
	840125		09	473															
	840125		01		21.1	10.8	39.1	<0.01	66.6	35.0	13.8	5.4	<0.01		0.13				
	840431		12													1.4			1.4
	840425		02	494	23.8	10.88	41.3		65.5	35.6	16.5	5.5	<10		0.16				
	840425		07																
	840425		07																
	840425		09	494															
	840425		01		23.8	10.88	41.3	<0.01	65.5	35.6	16.5	5.5	<0.01		0.16				
	840719		09	435															
	840719		01		22.5	10.6	40.1	<0.01	60.3	35.5	14.8	5.5	<0.01		0.1				
	840719		07					<0.002											
	841031		12																
	850128		09	450	26.9	12.1	40.0	<0.01	69.0	36.4	16.1	5.4	<0.01		0.16				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6310L	540512		01	472	ND	5.32	20		44.37	22	2.65	3.69	26	100	0.1				
	700922		01	326	3.5	2.84	9.2		34.4	11.7	7.3	2.8	ND	240	0.036				
	750502		01	586	17	6.1	40		58.6	41.3	9.8	ND	10	340	0.1				
	770617	0	04	535	17.9	9.5													
	770624	0	04	630	19.7	9.5													
	770711	0	03			8.5	34.5	0.017											
	770711	0	04	635	19.3	10.7													
	770808	0	04	610	18.2	9.8													
	770912	0	02	511	21.5														
	770912	0	03			NP	NP	<0.005											
	770912	0	03			7.14	NP	NP											
	770912	0	04	650	20.7	9.5													
	771026	0	02	436	24.5				59.2	33.7	12.3	5.7							
	771026	0	03			8.3	32.5	<0.005											
	771026	0	04	620	19.7	10.0													
	771207	0	04	630	19.0	10.0													
	780104	0	04	630	18.0	9.0													
	780119	0	02	555	24.0				72.0	35.4	13.6	5.6							
	780119	0	03			8.3	32	<0.005											
	780119	0	04	630	20.4	9.1													
	780307	0	02	614	18.8				61.0	33.1	12.4	5.3							
	780307	0	03			NP	30	<0.005											
	780307	0	04	620	18.3	9.8													
	780410	0	02	625	20.7														
	780410	0	04	625	19.6	8.8													
	780531	0	04	550	17.5	9.2													
	780613		05													0.17	<0.1	ND	
	800604		01	620	26	9.5	18		75	34	16	<10	<10		0.2				
	800604		05		18.0	9.5	18.0	0.2	25.0	34.0	15.0	7.0	0.01		0.2				
	800901		12													1.2	<1	<1	
	801001		12													1.2			
	801008		01	610	23	9.0	54		30	45	13	<10			<0.2				
	801008		05		30.0	9.5	54.0	0.2	30.0	45.0	13.0	5.0			0.2				
	810101		12																
	810126		12													<1	<1	<1	
	810127		01	700	30	9.5	56		34	65	14	<10			<0.2				
	810127		09	452															
	810127		05		30.0	9.5	56.0	0.2	34.0	65.0	14.0	7.0			0.2				
	810501		12																
	810526		12													<1	<1	<1	
	810527		09	475															
	810527		09	475															
	810527		05		25.0	1.0	54.0	0.2	60.0	34.0	1.0	5.0			0.2				
	810528		01	650	25	9.0	54		60	34	12	<5			<0.2				
	810528		05		25.0	9.0	52.0	0.2	34.0	34.0	12.0	5.0			0.2				
	810701		12																
	810728		12													<1	<1	<1	
	810730		01	670	20	10.0	30		71	35	15	<5			<0.2				
	810730		09	450															

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	810730		05		20.0	10.0	30.0	0.2	21.0	35.0	15.0	5.0			0.2				
	810730		07	460	5	2.1	50				15				<0.2				
	810730		07	330	<5	1.9	20				5				<0.2				
	810730		07	370	20	10	30				15				<0.2				
	810730		07	350	5	1.9	20				<5				<0.2				
	811028		01	750	57	9.7	30		17	48	23	2			<0.2				
	811028		05													<1	<1	<1	
	811028		09	620															
	811028		05		57.0	9.7	30.0	0.2	17.0	48.0	23.0	7.0			.2				
	911101		07	660	10	1.5	25				16				<0.2				
	811101		07	420	10	1.5	45				17				<0.2				
	811101		07	750	57	9.7	30				23				<0.2				
	811101		07	620	28	9.0	35				17				<0.2				
	811101		05	400	9.5	1.9	52				15.9		<0.01	<0.5	<0.2				
	811205		05	330	<10	1.8	14				<10		<0.01	<0.05	<0.2				
	811215		05	325	30	9.4	34				12.7		<0.01	<0.05	<0.02				
	811215		05	310	<10	1.8	14.8				<10		<0.01	<0.05	<0.2				
	930701		12																
	830726		09	630															
	830726		01		34.3	9.7	30.0	<0.01	31.5	33.6	21.1	6.3	<0.01		0.12				
	840139		05	610		13					15		<0.01	<0.05					

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6312M	850128		09	220	3.3	1.71	15.0	0.02	37.0	15.8	5.0	2.1	<0.01		0.12				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6316F	770518		05	340	16	2.5		0.00											
	771011		05	312	17	1.7		0.00											
	780510		05	350	12	2.5		0.00					<3	<10	0.1				
	780601		07	335		1.5													
	800604		01	310	13	1.5	18		36	15.5	9	<10	<10		0.2				
	800609		05		13.0	1.5	18.0	0.2	36.0	15.0	9.0	3.0	0.01		0.2				
	801009		01	320	13	1.6	24		17	29	8	<10			<0.2				
	801009		05		13.0	14.0	24.0	0.2	17.0	29.0	8.0	3.0			0.2				
	810127		01	330	14	1.6	27		24	21	7	<10			<0.2				
	810127		05		14.0	1.6	27.0	0.2	24.0	31.0	7.0	3.0			0.2	1.2	<1	<1	
	810526		12																
	810528		01	360	16.2	1.5	31		35	16	9.5	<5			<0.2				
	810528		09																
	810528		05		14.0	1.5	31.0	0.2	35.0	15.0	7.0	3.0			0.2	2.0	<1	<1	
	810728		12																
	810730		01	320	11	1.2	17		33	15	7	<5			<0.2				
	810730		09	237															
	810730		05		11.0	1.2	17.0	0.2	33.0	15.0	7.0	2.0			0.2				
	810730		07	320	10	1.2	15				5				<0.2				
	811028		01	310	9	1.2	17		10	17	7	2			<0.2				
	811028		05													<1	<1	<1	
	811028		09	220															
	811028		01		9.0	1.2	17.0	0.2	10.0	17.0	7.0	2.0			0.2				
	811131		07	310	9	1.2	17				7				<0.2				
	820712		05	310		1.6					<10		<0.01	<0.05					

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6316I	810501		12													1.2	<1.0	<1.0	
	810701		12													2.0	<1.0	<1.0	
	811001		12													1.0	1.0	1.0	

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
63193	700930		01	253	3.5	11.4	20.5		22.6	15.5	3.2	1.9	ND	ND	0.057				
	750709		01	236	6.5	1.5	23.7		29.5	23.9	2.9	ND	50	360	0.3				
	770516		06	259	1.9	1.1		0.30											
	771011		06	251	1.7	1.0		0.30											
	780508		06	338	6.0	2.2		0.00											
	790507		07	269		2.0							<3	30	0.2				
	800605		01	230	3	1.2	10		33	15	6	<10	<10		0.3				
	800605		05		3.0	1.2	10.0	0.2	33.0	15.0	6.0	2.0	0.01		0.3				
	801007		01	230	3	1.2	28		23	27	5	<10			<0.2				
	801007		05		3.0	1.2	28.0	0.2	23.3	27.0	5.0	2.0			0.2				
	810731		12													2.6			
	810729		01	350	5	1.8	18		32	16	4	<5			<0.2				
	810729		09	215															
	810729		05		5.0	1.8	18.0	0.2	32.3	16.0	4.0	2.0			0.2				
	811031		12																
	811028		05													<1	<1	<1	ND
	811028		01	ND	6	2.1	18		10	20	5	2			<0.2				
	811028		09	230															
	811028		05		6.0	2.1	18.0	0.2	10.0	20.0	5.0	2.0			0.2				
	820125		05													1.2	<1	<1	<1
	820731		12													2.3			
	820731		12													2.3		T	
	820727		02	220	3.11	1.32	15.4		27.2	15.1	3.5	1.9	<10		<0.1				
	820728		05													2.3	<1	<1	<1
	820728		09	220															
	820728		01		3.11	1.92	15.1	<0.01	27.2	15.1	3.5	1.9	<0.01		<0.1				
	821031		12													1.4			
	821025		05													1.4	<1	<1	<1
	821027		02	190	2.42	1.2	20.4		32	15.2	3	2	40		<0.1				
	821027		09	190															
	821027		05		2.42	1.2	20.4	0.01	32.0	15.2	3.0	2.0	<0.01		<0.1				
	830101		12													1.2			
	830126		02	198	2.8	1.17	18.1		33.5	15.1	3.3	1.8	70		<0.1				
	830126		09	198															
	930126		01		2.8	1.17	18.1	0.01	33.5	15.1	3.3	1.8	0.07		<0.1				
	930401		12													1.3			
	830426		02	190	3.47	1.44	14		31	14.7	3.1	2	<10		0.11				
	830426		01		3.47	1.44	14.0	<0.01	31.0	14.7	3.1	2.0	<0.01		0.11				
	830726		02	235	2.96	1.31	15.0		32.0	15.0	3.1	1.9	<10		0.08				
	830726		09	235															
	930726		09	235															
	830726		01		2.96	1.31	15.0	<0.01	32.3	15.0	3.1	1.9	<0.01		0.08				
	831031		12													1.2	1.0	1.0	
	831026		02	194	3.8	1.24	15.0		30.0	15.0	3.2	2.0	<10		0.13				
	831026		09	194															
	831026		01		3.8	1.24	15.0	0.01	30.0	15.0	3.2	2.0	<0.01		0.13				
	840101		12													1.3	1U	1J	
	840125		02	192	3.9	1.36	15.0		32.3	15.2	3.3	1.7	<10		<0.11				
	840125		09	192															

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REPORT OF ON-GOING MONITORING RESULT DATA
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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	840125		01		3.9	1.36	15.0	<0.01	32.0	15.2	3.3	1.7	<0.01		<0.11				
	840401		12													1.2			
	840425		07	203	1.8	1.16	15.9		32.0	15.6	3.0	1.9	<10		<0.11				
	840425		07																
	840425		09	203															
	940425		01		1.8	1.16	1539	0.01	32.0	15.6	3.0	1.9	<0.01		<0.01				
	940701		12													1.5	1.4		
	940719		09	218															
	840719		01		3.3	1.83	16.8	<0.01	28.0	16.0	3.8	1.8	<0.01		<0.1				
	840719		07					0.0068											
	941001		12																
	850128		09	190	2.3	1.33	17.0	0.02	32.0	15.0	3.3	1.7	0.02		<0.1				

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
63190	700930		01	259	3	2.17	19		24.3	16.5	4.8	1.7	6	100	0.063				
	750709		01	323	5	1.7	22.5		33.9	22.4	3.3	ND	50	200	0.3				
	770516		05	341	6.3	2.3		0.00											
	771011		06	324	3.9	1.9		0.00											
	780508		06	321	6.6	2.1		0.00											
	900605		01	350	6	3.4	24		29	15	8	<10	<10		0.3				
	900605		05		1.0	7.5	24.0	0.2	37.0	19.0	8.0	2.0	0.01		0.2				
	801007		01	330	5	2.1	32		26	33	6	<10			<0.2				
	901007		05		5.0	2.1	32.0	0.2	21.0	35.0	4.0	3.0			0.2				
	810127		01	350	10	2.1	32		21	36	4	<10			<0.2				
	810127		05		10.0	2.1	32.0	0.2	21.0	35.0	4.0	3.0			0.2				
	810528		01	350	3.8	2.3	30		36	18	4	<5			<0.2				
	810601		05		3.0	2.3	35.0	0.2	36.0	13.0	4.0	3.0			0.2				
	910611		09	260												2.9	<1.0	<1.0	
	810701		12																
	810729		01	350	5	2.3	21		35	19	5	<5			<0.2				
	810729		09	267															
	810729		05		5.0	2.3	21.0	0.2	35.0	19.0	5.0	2.0			0.2				
	811001		12													2.5			
	811026		05		6.0	2.1	18.0	0.2	10.0	20.0	5.0	2.0			0.2				
	811028		01	330	6	2.1	18		10	20	5	2			<0.2				
	820729		09	258															
	820729		01		6.77	2.38	23.8	<0.01	22.6	18.02	4.5	2.3	<0.01		<0.1				
	940701		12													2.0			
	840719		09	268															
	840719		01		6.8	2.5	16.8	<0.01	33.5	19.0	4.9	2.1	<0.01		<0.01				

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REPORT OF ON-GOING MONITORING RESULT DATA
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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
63200	710806		01	272	2.6	2.3	22.5		28	47.13	6.6	1.8	ND	ND	0.07				
	750515		01	355	1.5	0.5	15.4		30.6	15.5	1.7	ND	10	290	0.3				
	770516		05	215	1.8	1.1		0.30											
	770617	0	06	210	1.7	1.8													
	770624	0	06	250	1.5	1.5													
	770803	0	06	250	1.8	1.6													
	770928	0	06	255	1.8	1.6													
	771011		05	256	1.5	1.0		0.30											
	771031	0	06	320	6.1	2.6													
	771117	0	06	255	1.8	1.9													
	780118	0	02																
	780118	0	06	252	1.5	1.2													
	780306	0	06	255	1.5	1.2													
	780412	0	02																
	780412	0	06	230	2.5	1.8													
	780508		05	306	3.8	2.1		0.0											
	780531	0	06	250	1.7	1.2													
	900605		01	210	2	3.6	22		29	15	5	<10	<10		0.2				
	900605		05		2.0	3.6	22.0	0.2	29.0	15.0	5.0	1.0	0.01		0.2				
	801007		01	250	2	1.1	28		21	28	5	<10			<0.2				
	801007		05		2.0	1.1	28.0	0.2	21.0	28.0	5.0	2.0			0.2				
	810127		01	270	3	1.1	13		18	26	3	<10			<0.2				
	810127		05		3.0	1.1	23.0	0.2	18.0	29.0	3.0	2.0			0.2				
	810501		12																
	810528		01	230	5	1.2	30		29	16	2.9	<5			<02				
	810528		13	190															
	810528		05		5.0	1.2	30.0	0.2	29.0	16.0	3.0	2.0			0.2				
	810701		12																
	810729		01	270	6	1.0	17		28	16	3	<5			<0.2				
	810729		03	138															
	810729		05		6.0	1.0	17.0	0.2	28.0	16.0	3.0	2.0			0.2				
	810729		07	350	5	2.2	20			5									
	810729		07	350	<5	2.3	20				5				<0.2				
	810729		07	270	<5	1	15				<5				<0.2				
	810729		07	350	5	1.8	20				<5				<0.2				
	810729		07	360	5	1.7									5				
	810729		07	350	5	1.6									20				
	811028		01	330	6	1.5	17		9	20	6	2			<0.2				
	811101		07	330	6	1.5	17				6				<0.2				
	811101		07	330	6	2.1	18				5				<0.2				
	811101		07	330	6	2.1	18				5				<0.2				
	820517		05	250	<5	1.2					<5		<0.01	<0.05	<0.2				
	820517		05	250	<5	1.2					<5		<0.01	<0.05	<0.2				
	820701		12													2.2			
	820729		03	230															
	820729		01		2.28	1.23	14.5	<0.01	12.8	15.19	2.9	1.8	<0.01		<0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6320N	700833		01	230	2.25	1.11	20.3		20	12.6	2.9	3.3	ND	ND	0.068				
	740304		01	210	1.5	1.2	9.8		26.6	13.1	3.2	ND	10	190	0.1				
	770517		06	269	2.3	1.6		0.01											
	771003	0	02	273	6.1				30.6	14.1	3.1	1.9	<10						
	771003	0	03			1.34	14.0	<0.005											
	771003	0	06	275	1.9	1.5													
	771012		05	270	2.0	1.6		0.00											
	771026	0	06	270	1.9	1.7													
	771109	0	02	239	6.6				28.3	13.2	2.6	1.8	<10						
	771109	0	03			1.29	14.7	<0.01											
	771109	0	06	250	2.1	1.5													
	771207	0	06	255	2.2	1.8													
	780119	0	02																
	780119	0	06	252	1.7	1.2													
	780307	0	06	275	2.5	1.5													
	780410	0	02																
	780410	0	06	255	2.2	1.6													
	780509		05	251	2.5	1.5		0.00											
	780531	0	06	260	1.5	1.6													
	800127		01	230	30	1.5	24		19	26	3	<5			<0.2				
	800604		01	250	2	1.5	15		30	15	12	<10	<10		0.2				
	800604		05		2.0	1.6	12.0	0.2	30.0	15.0	5.0	2.0	0.01		0.2				
	801028		01	250	5	1.3	54		16	27	13	<10			<0.2				
	801028		05		5.0	1.3	26.0	0.2	15.0	27.0	5.0	2.0			0.2				
	810127		01	290	3	1.5	24		19	26	3	<10			<0.2				
	810127		05		3.0	1.5	24.0	0.2	13.0	26.0	3.0	2.0			0.2				
	810731		12																
	810730		01	230	1	1.3	17		29	15	3	<5			<0.2				
	810730		09	198															
	810730		05		1.0	1.3	13.0	0.2	29.0	15.0	3.0	2.0			0.2				
	810730		07	270	<5	1.1	15				<5				<0.2				
	810929		05	275	2.5	1.5	13.6				3.5		<0.01	0.06	0.2				
	810929		05	270	2	1.6	13.5				3.52		<0.01	<0.05	<0.2				
	811031		12																
	811031		12																
	811028		01	280	1	1.3	15		9	17	3	2			<0.2				
	811028		01	270	3	1.6	15		10	16	3	<5			<0.2				
	811028		09	190															
	811028		05		3.0	1.6	15.0	0.2	10.0	15.0	3.0	2.0			0.2				
	811101		07	290	1	1.3	15				3				<0.2				
	811101		07	230	1	1.6	15				3				<0.2				
	811101		07	270	3	1.6	15				3				<0.2				
	917030		07	290	<5	1.3	15				<5				<0.2				
	820731		12														2.6		
	820729		09	238															
	820729		01		3.1	1.69	11.1	<0.01	19.2	16.06	2.0	1.9	<0.01		<0.1				
	830727		09	235															
	830727		01		2.98	1.5	13.0	<0.01	25.5	16.8	3.1	1.9	<0.01		0.07				
	830727		01		2.88	1.5	13.0	<0.01	25.5	16.8	3.1	1.9	<0.01		0.07				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	840228		05	295		1.7					<10		<0.01	<0.05					
	840228		05	250		1.5					<10		<0.01	<0.05					
	840731		12													1.6			
	840719		09	237															
	840719		09	237															
	840719		01		7.5	1.29	12.5	<0.01	30.6	15.0	4.1	1.8	<0.01		<0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6321F	771011		06	337	3.5	2.4		0.30					<3	<10	0.3				
	780601		07	360		2.5							<10		0.2				
	800604		01	330	3	2.3	20		33	22	6	<10	0.01		0.2				
	800608		05		3.0	2.3	20.0	0.2	33.0	22.0	6.0	3.0			0.2				
	801004		05		3.0	2.3	31.0	0.2	16.0	45.0	6.0	3.0			<0.2				
	801009		01	350	3	2.3	31		16	45	6	<10			<0.2				
	810127		01	350	3	2.1	34		22	43	4	<10			0.2				
	810127		05		3.0	2.1	34.0	0.2	22.0	40.0	4.0	3.0				<1.0	<1.0	<1.0	
	810531		12													<1	<1	<1	
	810526		12																
	810528		01	350	7.5	2.3	33.5		30	20	3.9	<5			<0.2				
	810528		03	370															
	810528		05		5.0	2.3	34.0	0.2	30.0	2.0	4.0	3.0			0.2				
	810731		12													1.2	<1.0	<1.0	
	810728		12													1.2	<1	<1	
	810730		01	350	5	2.1	12		32	22	4	<5			<0.2				
	810730		03	335															
	810730		05		5.0	2.1	21.0	0.2	32.0	22.0	4.0	2.0			0.2				
	810730		07	350	<5	2.1	20				<5				<0.2				
	811031		12													1.0	1.0	1.0	
	811028		01	360	3	2.1	20		9	24	5	2			<0.2				
	811028		05													<1	<1	<1	
	811028		09	355															
	811028		05		3.0	2.1	20.0	0.2	9.0	24.0	5.0	2.0			0.2				
	811101		07	360	3	2.1	20				5				<0.2				
	820504		05	330		2.5					11.5		<0.01	<0.05	<0.2				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6327A	800611		01	250	5	1.0	5		25	9.4	7	<10	<10		0.4				
	801037		01	270	9	1.2	27		15	23	10	<10			<0.2				
	810528		01	250	7.5	0.9	27.5		23	11	4.2	<5			<0.2				
	810730		01	250	5	0.8	13		27	11	4	<5			<0.2				
	811028		01	250	3	1.1	13		9	13	5	2			<0.2				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6327E	700505		01	250	3	11.0	15.3		27.5	15.3	5.7	2.0			.06				
	710818		01	236	1.5	1.9	11.0		29.2	9.5	5.4	1.85			ND				
	770516		06	250	3.5	1.2		0.00											
	770616	0	06	255	2.7	1.9													
	770623	0	06	250	3.3	1.8													
	770623	0	02																
	770818	0	06	210	3.2	1.5													
	771005	0	06	290	5.6	2.2													
	771011		06	310	5.9	1.7		0.00											
	771025	0	06	330	5.0	2.2													
	780118	0	06	260	3.0	1.1													
	780118	0	02																
	780308	0	06	250	2.2	1.3													
	780308	0	02	259	3.2														
	780308	0	03			NP	NP	<0.005											
	780413	0	06	250	3.0	1.2													
	780413	0	02																
	780511		05	11.6	1.2	0.00		0.00											
	780530	0	06	225	2.3	1.1													
	810730		07	250	<5	1.1	15				5				<0.2				
	810730		07	250	5	0.8	15				<5				<0.2				
	811131		07	250	3	1.1	13				5				0.2				
	820511		05	260		1					5		<0.01	<0.05					

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WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6327M	800634		01	250	5	1.0	6		25	9.4	7	<10			0.4				
	800611		05		6.0	1.0	5.0	0.2	24.0	9.0	7.0	2.0	0.01		0.4				
	800611		05		5.0	1.0	5.0	0.2	25.0	25.0	7.0	2.0	0.01		0.8				
	801031		12																
	801037		01	270	9	1.2	18		15	20	7	<10			<0.2				
	801037		05		9.0	1.2	18.0	0.2	15.0	20.0	7.0	2.0			0.2				
	810127		01	250	10	1.1	19		23	21	4	<10			<0.2				
	810127		05		10.0	1.1	19.0	0.2	19.0	12.0	5.0	2.0			0.2				
	810528		01	250	7.5	0.9	27.5		23	11	4.2	<5			<0.2				
	810528		09	172															
	810528		05		5.0	0.9	28.0	0.2	29.0	11.0	4.0	2.0			0.2				
	810731		12													1.5	<1	<1	ND
	810728		12																
	810728		01	250	1	1.1	14		28	12	5	<5			<0.2				
	310730		09	175															
	310730		05		1.0	1.1	14.0	0.1	28.0	12.0	5.0	2.0			0.1				
	910730		09	155															
	810730		05		5.0	0.8	16.0	0.2	27.0	11.0	4.0	2.0			0.2				
	811031		12																
	811028		01	250	3	1.1	13		13	9	5	2			<0.2				
	811028		09	155															
	811028		05		3.0	1.1	13.0	0.2	11.0	13.0	5.0	2.0			0.2				
	820125		05													1.9	<1	<1	<1
	920731		12													2.2			
	820731		12													1.1			
	820727		02	190	2.07	1.77	11.4		27.6	10.82	3.1	1.7	<10		0.13				
	920728		05													2.2	<1	<1	<1
	820729		09	190															
	820729		01		2.07	1.77	11.4	0.0.2	22.6	10.82	3.1	1.7	<0.01		0.13				
	820729		09	110															
	820729		01		6.15	1.92	<10.0	<0.01	24.3	10.52	4.1	1.0	<0.01		0.12				
	821031		12													T			
	821025		05													1.9	<1	<1	<1
	821026		02	150	4.83	0.91	21.7		26	11.6	3.1	2.0	<10		<0.1				
	821027		09	150															
	821027		01		6.83	0.905	21.7	<0.01	24.3	11.4	3.1	2.0	<0.01		<0.1				
	830131		12													T			
	930126		02	190	3.11	0.78	10.9		32	10.8	3.6	1.7	<10		<0.1				
	830126		09	130															
	830126		01		5.11	0.78	10.9	<0.01	32.3	10.8	3.6	1.7	<0.01		<0.1				
	830431		12													T			
	830431		12													T			
	830426		02	168	2.74	0.779	9.0		26	10.2	3.0	1.7	<10		0.13				
	830525		01		2.74	0.779	9.0	0.01	24.3	10.2	3.0	1.7	<0.01		0.13				
	830526		09	160															
	830726		02	155	1.17	7.57	9.0		38.6	10.6	3.3	2.0	<10		0.03				
	830726		09	155															
	830726		01		1.17	7.57	9.0	<0.01	33.6	10.6	3.3	2.0	<0.01		0.03				
	931031		12													1.9	1.3	1.0	

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	831025		02	151	3.8	3.62	11.0		24.0	10.6	3.1	1.8	10		0.13				
	831026		09	151															
	831026		01		3.8	8.62	11.0	0.01	24.0	10.6	301	1.8	0.01		0.13				
	840101		12													1.4	1U	1J	
	840125		02	152	1.7	0.804	9.3		24.0	9.6	3.2	1.6	<10		<0.11				
	840125		09	152															
	840125		01		1.7	0.804	9.3	<0.01	24.0	9.6	3.2	1.6	<0.01		<0.11				
	840401		12													1.4			
	840424		01		1.7	0.838	8.2	<0.01	24.0	10.4	2.9	1.6	<0.01		0.11				
	840425		07	155	1.7	0.84	8.2		24.0	10.4	2.9	1.6	<10		0.11				
	840425		07																
	840425		09	155															
	840701		12																
	840701		12													1.4			
	840719		09	158												1.4			
	840719		01		2.5		8.2	<0.01	24.0	10.6	3.3	1.5	<0.01		<0.1				
	840719		07					0.0056											
	841001		12																

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WELL#	DATE	DEPTH	LAB#	SPCO	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
63271	850128		09	170	5.3	1.58	13.0	<0.01	26.3	11.6	4.4	1.9	<0.01		0.12				

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6328Q	770817	0	02	239	3.3				20.3	13.0	4.0	2.5		390.0					
	770817	0	03			NP	15.0	<0.005											
	770817	0	06	225	2.6	4													
	771018	205	06	350	3.3	1.8		0.3											
	771018	210	05	310	2.5	1.6		0.31											
	771018	215	05	305	2.6	1.6		0.3											
	771018	225	05	235	2.3	1.2		0.3											
	771018	235	05	290	2.7	1.1		0.3											
	771018	-20	02	339	6.2				32.0	19.6	4.6	2.4		40.0					
	771018	-20	03			1.76	19.4	<0.005											
	771018	-20	06	350	3.0	6													
	771018	-30	06	330	2.8	9													
	771018	-60	02	237	6.2				29.3	15.2	3.2	2.2		30.0					
	771018	-60	03			1.27	15.5	<0.005											
	771018	-60	06	330	2.3	7													
	771018	-50	06	330	2.6	5													
	771206	0	02	305					32.3	17.0	4.5	2.3		20.0					
	771206	0	03			2.06	18.0	<0.005											
	771206	0	06	330	3.1	0													
	771206	0	06	330	3.3	0													
	771206	+20	06	330	3.3	0													
	771206	-20	06	330	3.1	0													
	771206	-30	02	279															
	771206	-30	03			NP	NP	<0.005											
	771206	-30	06	275	2.9	3													
	771206	-60	06	275	2.6	8													
	771206	-50	06	255	2.3	8													
	780405	0	03			NP	NP	<0.005											
	780405	0	06	430	6.9	2													
	780405	-5	06	370	3.6	7													
	780405	+12	06	315	3.2	3													
	780405	-12	02	336	2.1				25.5					10.0					
	780405	-12	03			NP	19.0	<0.005											
	780405	-12	06	315	3.2	3													
	780405	-22	02	351	1.6														
	780405	-22	03			NP	NP	<0.005											
	780405	-22	06	335	2.6	6													
	780405	-30	02	301	1.6														
	780405	-30	03			NP	NP	<0.005											
	780510	0	02	350	2.9														
	780510	0	03			NP	NP	<0.005											
	780510	0	06	350	3.5	4													
	780510	-5	06	325	3.5	8													
	780510	-12	02	312	2.7				32.0	21.3	4.5	2.6		<10					
	780510	-12	03			NP	NP	<0.005											
	780510	-12	06	330	3.3	4													
	780510	-22	02	237	1.6														
	780510	-22	03			NP	NP	<0.005											
	780510	-22	06	330	2.2	6													

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	ILLITE	PERC	TOE	CHCL3
	780510	-63	02	270	1.3														
	780510	-63	03			NP	NP	<0.005											
	780510	-63	06	270	1.9	3													
	780510	-50	06	270	1.9	3													
	780614	0	02	364	3.9														
	780614	0	03			NP	20.0	<0.005											
	780614	0	06	330	3.7	4													
	780614	-5	06	230	2.3	5													
	780614	-64	06	250	1.9	2													
	780614	-12	02	290	2.5				27.2	20.2	4.1	2.4							
	780614	-12	03			NP	15.0	<0.005											
	780614	-12	06	290	2.5	5													
	780614	-22	03			NP	NP	<0.005											
	780614	-22	06	360	1.6	3													
	790312		06	250															
	790312		06	192															
	790312		06	330															
	790312		05	273	2	2.1	18				5.0				<0.1				
	790312		05	250	1	1.6	12				3.1				<0.01				
	790312		05	239	3	2.3	18				4.6				<0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6330E	700930		01	256	2.75	1.82	19		22.6	13.6	4.2	1.2	ND	300	0.066				
	750515		01	279	3.5	1.3	15.4		32	16.5	2.4	ND	10	290	0.3				
	770516		05	310	6.6	2.6		0.00											
	770633	0	02	293	2.2														
	770928	0	06	320	2.8	2.0													
	771011		05	317	6.3	1.8		0.00											
	771031	0	06	330	3.8	2.6													
	771117	0	06	350	3.2	3.0													
	780118	0	02																
	780118	0	06	330	3.3	2.0													
	780306	0	06	315	3.7	2.2													
	780412	0	02																
	780412	0	06	330	3.0	1.9													
	780508		06	310	6.5	2.1		0.00											
	780531	0	06	330	3.8	2.2													
	800635		01	250	3	2.0	18		35	18	6	<10	<10		0.3				
	900635		05		3.0	2.0	18.0	0.2	35.0	18.0	6.0	2.0	0.01		0.3				
	801037		01	350	5	2.2	33		28	38	7	<10			<0.2				
	801037		05		5.0	2.2	33.0	0.2	28.0	38.0	7.0	2.0			0.2				
	810731		12																
	810729		01	350	5	2.2	21		35	18	5	<5			<0.2				
	810729		09	250															
	810729		05		5.0	2.2	21.0	0.2	35.0	10.0	5.0	2.0			0.2				
	820731		12																
	820729		03	245	6.66	2.17	14.9	<0.01	36.3	15.1	4.0	2.0	<0.01		0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6330R	540512		01	260	1.25	1.02	13		26.04	16	1.6	1.08	90	40	0.01				
	710507		01	260	ND	1.25	17.7		25.2	15.3	3	1.8	ND	ND	0.09				
	710507		01	260	ND	1.25	17.7		25.2	15.3	3	1.8	ND	ND	0.08				
	730507		01	257	3	1.1	13.7		29.5	15.1	2.6	ND	10	290	0.3				
	750507		01	257	3	1.1	13.7		29.5	15.1	2.6	ND	10	290	0.3				
	770517		06	261	2.0	1.6		0.00											
	770606	0	02	211	3.2														
	770606	0	03			1.39	NP	<0.005											
	770617	0	06	255	2.1	1.9													
	770624	0	06	255	1.7	1.8													
	770808	0	06	270	1.8	1.5													
	771012		05	253	2.0	1.3		0.00											
	771109	0	06	250	1.8	1.6													
	771109	0	02	276	2.2				27.2	13.2	2.6	1.8							
	771109	0	03			1.18	12.8	<0.01											
	771217	0	06	250	2.0	1.7													
	780119	0	06	252	1.9	1.3													
	780119	0	02																
	780307	0	06	250	1.9	1.5													
	780307	0	02	252	1.6														
	780307	0	03			NP	NP	<0.005											
	780410	0	06	250	2.0	1.6													
	780410	0	02	276	1.6														
	780410	0	02																
	780410	0	03			NP	NP	<0.005											
	780509		05	235	2.9	1.5		0.00											
	780531	0	06	225	2.0	1.5													
	780531	0	03			NP	NP	<0.005											
	790319		01	257	2	1.6	15		ND	ND	3.1	ND			<0.1				
	790319		01	230	ND	ND	ND		ND	ND	ND	ND			ND				
	790418		01	254	2	1.3	14		ND	ND	3.0	ND			ND				
	800604		01	250	2	1.8	12		30	16	5	30			0.2				
	800604		05		2.0	1.8	12.0	0.2	30.0	16.0	5.0	2.0	0.01		0.2				
	801008		01	270	5	1.3	26		18	30	5	13			<0.2				
	801008		05		5.0	1.3	26.0	0.2	18.0	30.0	5.0	2.0			0.2				
	810531		12																
	810528		01	230	12.5	1.6	25.5		26	13	3.2	25			<0.2				
	810528		09	138															
	810528		05		10.0	1.3	28.0	0.2	30.0	15.0	3.0	2.0			0.2			1.2	
	810730		12																
	810730		01	270	1	1.1	17		23	16	3	<5			<0.2				
	810730		09	138															
	810730		05		1.0	1.1	16.0	0.2	29.0	16.0	3.0	2.0			0.2				
	811031		12																
	811028		01	230	1	1.2	15		9	17	3	9			<0.2				
	811028		09	130															
	811028		05		1.0	1.2	15.0	0.2	9.0	17.0	3.0	2.0			0.2			2.3	
	820731		12																
	820727		02	138	1.55	2.0	10.7		25.5	13.14	2.8	25.6	<10		<0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
	820729		09	138															
	820729		01		1.55	2.0	10.7	0.01	25.5	13.16	2.8	1.7	<0.01		<0.1				
	821031		12																
	821026		02	135	2.34	1.17	21.7		27.2	16.0	2.9	27.2	<10		<0.1				
	821027		09	135															
	821027		01		2.84	1.17	21.7	<0.01	27.2	16.0	2.9	2.0	<0.01		<0.1	1.5			
	830131		12																
	830126		02	155	3.55	1.22	13.5		25.5	13.95	3.0	25.6	<10		<0.1				
	830126		09	155															
	830126		01		3.55	1.22	13.5	<0.01	25.5	13.95	3.0	1.8	<0.01		<0.1	1.5			
	830431		12																
	830425		02	135	3.58	1.52	13		29	ND	2.9	29	<10		0.12				
	830425		09	130															
	830425		01		3.58	1.52	13.0	0.01	29.0	16.1	2.9	1.9	<0.01		0.12				
	830727		02	135	2.13	1.36	12.0		25.5	13.8	2.8	1.8	<10		0.07				
	830727		09	135															
	830727		01		2.13	1.36	12.0	<0.01	25.5	13.8	2.8	1.8	<0.01		0.07	1.2	1.0	1.0	
	831031		12																
	831026		02	178	2.0	1.17	12.0		27.0	16.0	2.8	1.9	<10		0.11				
	831026		09	178															
	831026		01		2.0	1.17	12.0	0.01	27.0	16.0	2.8	1.9	<0.01		0.11	1.1	1U	1U	
	840131		12																
	840125		02	83	1.3	3.72	12.2		28.3	16.2	2.9	1.7	<10		<0.11				
	840125		09	83															
	840125		01		1.3	3.72	12.2	<0.01	28.3	16.2	2.9	1.7	<0.01		<0.11	1.3			
	840401		12																
	840425		07	134	1.5	1.13	11.1		27.2	16.2	2.6	1.8	<10		<0.11				
	840425		09	134															
	840425		01		1.5	1.13	11.1	<0.01	27.2	16.6	2.6	1.8	<0.01		<0.11	1.2			
	840731		12																
	840719		09	137															
	840719		01		1.8	1.24	10.6	<0.01	28.9	16..4	2.9	1.5	<0.01		<0.1				
	840719		07					0.0034											
	841001		12																
	950128		09	150	2.0	1.18	13.0	<0.01	29.3	16.4	3.0	1.6	<0.01		0.1				

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WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6331A	710901		01	232	5.5	9	13.5		23.2	23.64	3.8	2.3	6	40	0.1				
	750528		01	252	2	5	13.5		24	17.5	2.6	ND	ND	310	0.3				
	770517		05	238	1.6	1.1		0.01											
	771034	0	02	217	7.1				28.3	13.0	2.7	1.8	<10						
	771034	0	03			1.09	27	<0.005											
	771034	0	04	270	1.6	1.4													
	771012		06	262	1.5	1.1		0.00											
	771027	0	02	259	5.3														
	771027	0	03			1.1	NP	<0.005											
	771027	0	04	250	1.2	1.6													
	771212	0	04	250	1.3	1.2													
	780130	0	04	250	1.1	1.3													
	780313	0	04	235	1.3														
	780417	0	04	255	1.2	1.1													
	780509		05	224	1.7	1.0		0.00											
	780530	0	03			NP	NP	<0.005											
	780530	0	04	220	1.2	1.1													
	800610		01	250	2	1.1	23		22	11.8	5	<10	<10		0.3				
	800610		05		2.0	1.1	23.0	0.2	22.0	12.0	5.0	2.0	0.01		0.3				
	801010		01	270	5	1.1	20		15	24	5	<10			<0.2				
	801010		05		5.0	1.1	20.0	0.2	15.0	24.0	5.0	2.0							
	810527		01	250	12	1.0	25		28	13	2.8	<5			<0.2				
	810527		09	177															
	810527		05		10.0	1.0	25.0	0.2	28.0	13.0	3.0	2.0			0.2				
	810728		12													<1	<1	<1	
	810728		12													1.0	<1	<1	
	810729		01	270	6	1.0	16		27	14	3	<5			<0.2				
	810729		09	138															
	810729		05		6.0	1.0	16.0	0.2	27.0	14.0	3.0	2.0			0.2				
	811028		01	250	1	0.3	14		9	15	3	2			<0.2				
	811028		09	130															
	811028		05		1.0	0.8	14.0	0.2	9.0	15.0	3.0	2.0			0.2				
	820728		09	132															
	820728		01		1.86	1.28	14.9	0.01	17.5	11.95	2.5	1.7	<0.01		<0.1				
	840426		07																
	840426		07	132	1.1	1.12	13.7		28.3	14.2	2.5	1.8	<10		<0.11				
	840426		09	132															
	840426		01		1.1	1.12	13.7	0.01	28.8	14.2	2.5	1.8	<0.01		<0.11				
	840716		01		1.9	1.19	11.9	<0.01	27.2	13.8	3.3	1.5	<0.01		<0.1				
	840716		07					0.0034											
	840726		09	139															
	840906		07	130			25.0	<0.1				2.0							
	841004		07																

REPORT OF ON-GOING MONITORING RESULT DATA
WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	NITRGE	PERC	TCE	CHCL3
6331H	910501		12																
	810701		12													1.0			
	811001		12																
	820701		12													2.2	T		
	840401		12													1.1	1.4		
	840701		12													<1.0	<1.0	<1.0	
	840901		12																
	841001		12																

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REPORT OF ON-GOING MONITORING RESULT DATA
WELL 63XXX, ALL DATES

WELL#	DATE	DEPTH	LAB#	SPCD	CL	NO3	SO4	O-PO4	CA	MG	NA	K	MN	FE	F	111TCE	PERC	TCE	CHCL3
6333N	850128		09	450	26.1	10.5	41.0	<0.01	66.0	38.0	16.0	3.4	<0.01		0.16				