1044b UIC - EAST POPLAR OIL FIELD
ENFORCEMENT CASE SDWA 1431
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96 CLASS V EMERGENCY PERMIT BIERE 1 22 WELL
RECEIVED AFTER NOVEMBER 30 2000

Region 8
13581

PIONEER
NATURAL RESOURCES USA, INC.

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Office of Enforcement
Compliance & Environmental
Justice

September 28, 2001

United States Environmental Protection Agency
Region 8
999 18th Street - Suite 300
Denver, Colorado 80202-2466

Attn: Mr. Nathan Wiser

Re: Well Operation Requirements Information – Biere #1-22A,B,C, & D Wells
Biere Well Response Action Program
Emergency Class V Area Permit # MT5913-00000
Biere #1-22 Well Remediation

Dear Mr. Wiser:

As per requirements of Pioneer's Emergency Class V Area Permit # MT5913-00000 related to Biere #1-22 well remediation, we submit the following information on Biere 1-22A, 1-22B, 1-22C & 1-22D;

1. Biere 1-22A (old relief well) information

   - Well Location Plat
   - Wellbore Schematic
   - Cementing Service Report (P&A Report)

   Note – This well was re-plugged on 9-20-01 due to a casing problem in the 5 ½" string at 70'. P&A report and forms will be submitted as soon as we can complete them.

2. Biere 1-22B C&D (injection wells)

   - Well Location Plat.
   - Wellbore Schematic w/tubular data & significant events
   - EPA Forms 7520 – 8,9,10, & 11
   - MIT Data Sheet & WISCO Wireline Report of Pressure & Temperature Values
   - Graphic display of temperature and pressure information collected from wireline run.

Copies of the cement bond logs (CBL) have not arrived from our Canada office as of 9-28-01, but we will send you copies as soon as we can.

A copy of the Judith River water sample analysis taken from Biere 1-22C is attached for your review and information. The water will react with the Halliburton Injectrol "G" and form a silicate precipitate when mixed.

In summary, the temperature, pressure and MIT test information for Biere 1-22B, C & D injection wells is as follows;

5205 N. O'CONNOR BLVD., SUITE 1400 · IRVING, TEXAS 75039-3746 · MAIN: (972) 444-9001 · FAX: (972) 969-3587

Well	Temperature @ 700'	Pressure @ 700'	MIT Results	Injection Rate/Press.
1-22B	123°F	317 PSI	Passed 2nd Test (See Test Sheet)	¼ BPM @ 490 PSI
1-22C	117°F	502 PSI	Passed 1st Test (See Test Sheet)	1 BPM @ 490 PSI
1-22D	121°F	322 PSI	Passed 1st Test (See Test Sheet)	¼ BPM @ 460 PSI

Using KCL water with a 0.45 PSI/ft gradient, we calculated a new fracture pressure in the Judith River of 455 PSI.

We will conduct another temperature survey on Biere 1-22B, C, and D on Monday, September 30, 2001 and will provide the results as soon as possible.

In conclusion, this data is submitted to comply with the Emergency Class V Area Permit #MT5913-00000 reporting requirements prior to injection.

Pioneer will be ready to review and discuss the attached data at your convenience.

Sincerely,

Wilbur L. Dover

Wilbur L. Dover
Manager-Operations Services

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HALLIBURTON

WATER ANALYSIS
HALLIBURTON ENERGY SERVICES
ROCKY MOUNTAIN NWA LABORATORY
EVANSVILLE, WY

Date: 29 Aug 01

Report No.: Pioneer, W01-0159

Date Rec'd: 28 Aug 01

To: Rick Curtice
- Halliburton Energy Services
- Vernal, UT (for Williston)

JUDITH RIVER SAMPLE FROM BIERE 1-22 C

Company: Pioneer Injectrol Project

Well Name: Biele 1-22

SPECIFIC GRAVITY	1.040	
PH	6.64	
RESISTIVITY	0.18	OHMS AT 64°F
IRON (Fe)	1	MPL
POTASSIUM (K)	460	"
SODIUM (Na)	19470	"
CALCIUM (Ca)	1115	"
MAGNESIUM (Mg)	194	"
CHLORIDE (Cl)	32126	"
SULFATE (SO4)	1100	"
CARBONATE (CO3)	nil	"
BICARBONATE (HCO3)	110	"
TDS	54575	"

REMARKS:

This water is reactive with sodium silicate (Injectrol G) and forms the silicate precipitate when mixed.

RESPECTFULLY SUBMITTED,

Nancy K. Lang

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HALLIBURTON

FAX COVER SHEET

Date Sept. 25,2001

TO: Mr.Rusty Cooper **Fax no.** 403-237-8939

From: Darrell Tooley
Halliburton Energy Services
701-774-3963 Office, Williston, North Dakota
701-774-5269 Direct line
701-290-4261 North Dakota cell
701-774-8671 Fax

Remarks: Rusty,
Here is the water sample test that was done at our lab.
I hope this will help you out.

Total pages including cover page: 2

Darrell Tooley

Field Service Quality Coordinator
Cementing
Williston, North Dakota

WELL LOCATION PLAT

PIONEER NATURAL RESOUCES INC., 5205 O'CONNER BLVD, IRVING, TX 75039-3746
BIERE 22-IA
2005 feet from South line, 645 feet from West line
Section 22, Township 28 North, Range 51 East P.M.M.
Roosevelt County, Montana

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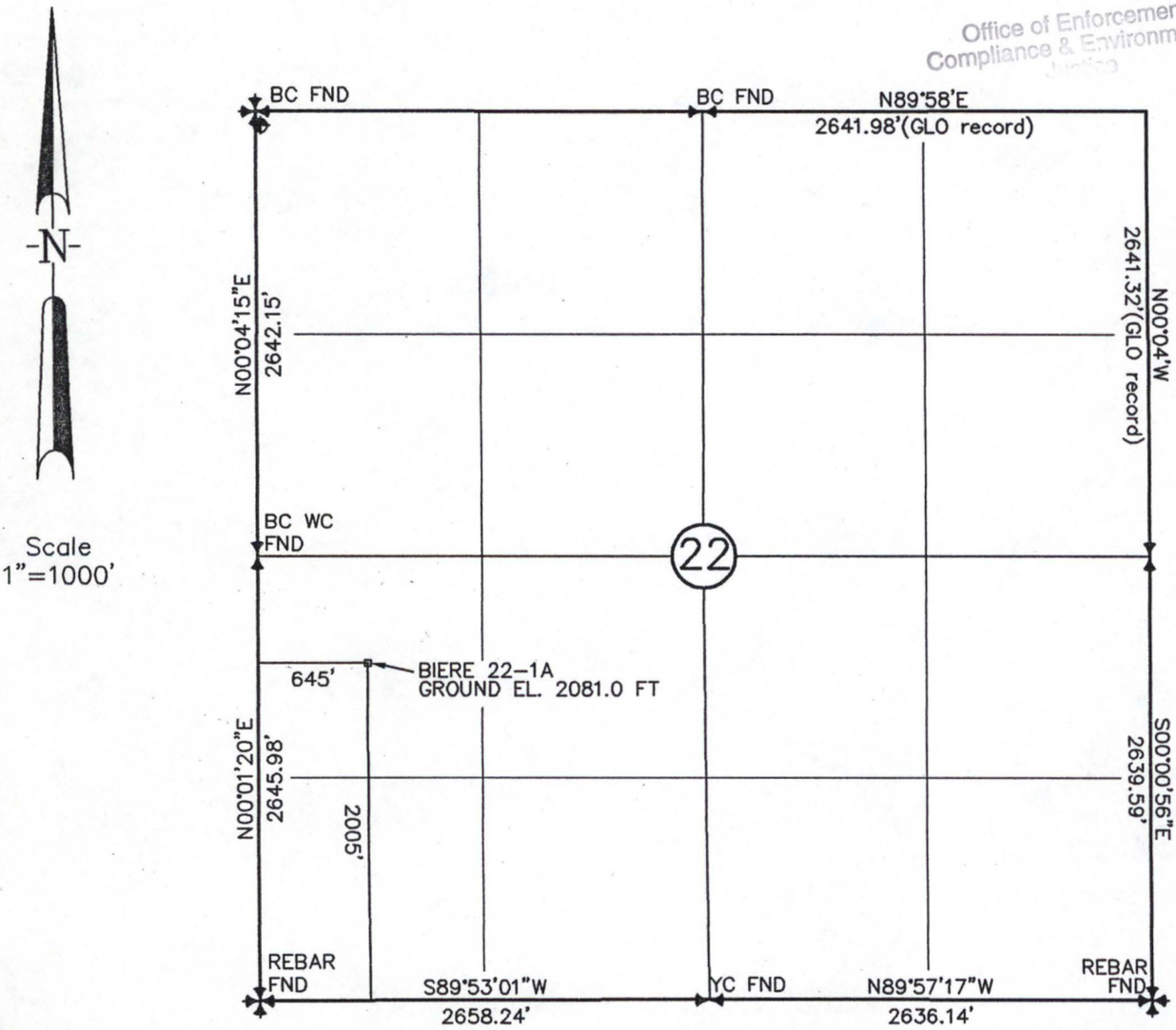

APR 2001
Received
Board of Oil & Gas Cons.
State of MT / Billings

Authorized by:

_____

_____

I, Jimmie L. Brewer, certify that this plat correctly represents work performed by me or under my responsible charge, and is true and correct to the best of my knowledge and belief.

MONTANA
JIMMIE L. BREWER
7155 S
REGISTERED
PROFESSIONAL LAND SURVEYOR

Jimmie L. Brewer, PLS
Montana licence No. 7155LS

Date Staked 4-25-2001

Basis of Vertical Datum
USGS BM B 544

HKM ENGINEERING
215 S. Lake
Miles City, Mt 59301
406/232-6666

Biere 1-22A
SW Poplar Field
Roosevelt Co, Montana

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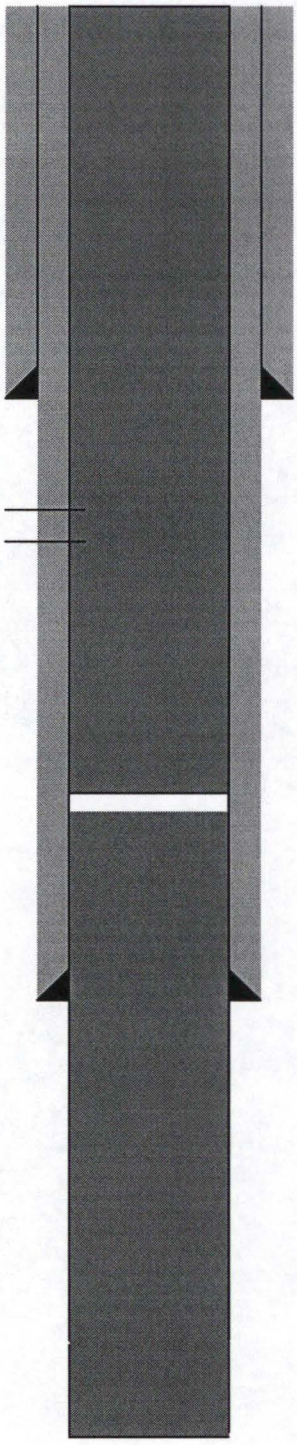
Wellbore schematic 9-26-01
Remedial Well

KB elev. 2090'

GL elev. 2081'



MBOGC permit # 17380

16" casing @ 45'

TOC - surface

Apparent hole in casing or parted casing at 70'

5 1/2" casing @ 700' as follows:

5 1/2", 20#, N80, LTC @ 422' – 700'

5 1/2", 17#, N80, LTC @ 0 – 422'

TOC @ surface

Chronology of significant events:

Drilled cement to 620'

Well flowing 1-2 bpm on connections beginning at 70', losing fluid while drilling

Trip for bit and could not get back below 70'

Squeeze with 700 sx Class G + 3% CaCl

4 1/4" open hole to 729'

GRC

9/26/01

Schlumberger

Cementing Service Report

Customer	Job Number
PIONEER NATURAL RESOURCES USA INC.	2206635082

Well	Location (legal)	Dowell Location	Job Start
BIERE 1-22A	SEC 22 - T28N - R51E	Williston, ND	

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
POPLAR		°	in	ft	ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
ROOSEVELT	MONTANA	psi	°F	°F	psi/ft

Rig Name	Drilled For	Service Via
	Other	

Offshore Zone	Well Class	Well Type
	New	Other

Drilling Fluid Type	Max. Density	Plastic Viscosity
	lb/gal	cp

Service Line	Job Type
Cementing	Sqz Liner/Casing Shoe

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
500 psi	psi	2" Swedge

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
				ft
				Diameter in

Service Instructions

Rig up and pump to company rep's instruction.

Treat Down	Displacement	Packer Type	Packer Depth
Tubing	6 bbl		50 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
2 bbl	6 bbl	bbl	4 bbl

Casing/Tubing Secured ☐ 1 Hole Volume Circulated prior to Cementing ☐

Lift Pressure: psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers: Top Plugs: Bottom Plugs:

Cement Head Type:

Job Scheduled For: Arrived on Location: Leave Location:

Casing Tools

Shoe Type:	
Shoe Depth:	ft
Stage Tool Type:	
Stage Tool Depth:	ft
Collar Type:	
Collar Depth:	ft

Squeeze Job

Squeeze Type	Running
Tool Type:	
Tool Depth:	50 ft
Tail Pipe Size:	in
Tail Pipe Depth:	0 ft
Sqz Total Vol:	2 bbl

Date	Time 24hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	DMT Annulus psi	0	0	Message
2001-Sep-21	11:11	-23	0.0	8.29	0.0	18	0	0	
2001-Sep-21	11:12	-14	0.2	8.30	0.0	18	0	0	
2001-Sep-21	11:13	2975	0.0	8.30	0.0	18	0	0	
2001-Sep-21	11:14	2774	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:15	2600	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:15								Pressure Test Lines
2001-Sep-21	11:15	2531	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:16	2463	0.0	8.30	0.0	18	0	0	
2001-Sep-21	11:16	32	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:17	27	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:17								Injection rate
2001-Sep-21	11:17	27	0.0	8.30	0.0	18	0	0	
2001-Sep-21	11:18	27	0.0	8.30	0.0	23	0	0	
2001-Sep-21	11:19	27	1.1	8.28	0.6	23	0	0	
2001-Sep-21	11:20	55	2.1	8.27	1.9	23	0	0	
2001-Sep-21	11:21	64	3.1	8.27	4.2	23	0	0	
2001-Sep-21	11:21	101	4.1	8.27	6.2	23	0	0	
2001-Sep-21	11:21								Increase Pump Rate
2001-Sep-21	11:21	96	4.1	8.27	7.4	23	0	0	
2001-Sep-21	11:22	27	0.0	8.26	9.9	23	0	0	
2001-Sep-21	11:22	27	0.0	8.26	9.9	23	0	0	
2001-Sep-21	11:22								Start Cement Slurry

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Well	Field	Service Date	Customer	Job Number
BIERE #1-22A	POPLAR		PIONEER NATURAL RESOURCES USA INC.	220[illegible]5D02

Date	Time (24hr clock)	Treating Pressure (psi)	Flow Rate (bbl/min)	Density (lb/gal)	Volume (bbl)	CMT AN FREE (psi)	0	0	Message
2001-Sep-21	11:23	37	0.0	8.30	9.9	23	0	0	
2001-Sep-21	11:24	27	0.5	12.40	10.1	23	0	0	
2001-Sep-21	11:25	179	3.3	16.41	11.8	23	0	0	
2001-Sep-21	11:26	133	2.4	15.14	14.3	23	0	0	
2001-Sep-21	11:26	169	3.6	15.24	16.7	23	0	0	
2001-Sep-21	11:27	224	4.1	16.03	19.9	23	0	0	
2001-Sep-21	11:28	228	4.1	15.94	23.4	23	0	0	
2001-Sep-21	11:29	197	4.1	15.63	26.8	23	0	0	
2001-Sep-21	11:30	186	4.1	15.59	30.2	23	0	0	
2001-Sep-21	11:31	192	4.0	15.78	33.6	27	0	0	
2001-Sep-21	11:31	233	4.4	16.13	37.1	23	0	0	
2001-Sep-21	11:32	215	4.4	15.84	40.8	23	0	0	
2001-Sep-21	11:33	192	4.4	15.65	44.5	23	0	0	
2001-Sep-21	11:34	238	4.4	15.95	48.1	27	0	0	
2001-Sep-21	11:35	229	4.4	15.93	51.8	27	0	0	
2001-Sep-21	11:36	220	4.4	15.81	55.4	27	0	0	
2001-Sep-21	11:36	220	4.4	15.92	59.1	23	0	0	
2001-Sep-21	11:37	215	4.4	16.00	62.8	27	0	0	
2001-Sep-21	11:38	220	4.4	15.74	66.4	27	0	0	
2001-Sep-21	11:39	220	4.4	15.81	70.2	27	0	0	
2001-Sep-21	11:40	215	4.4	15.81	73.8	23	0	0	
2001-Sep-21	11:41	201	4.4	15.76	77.5	23	0	0	
2001-Sep-21	11:41	64	1.6	15.52	80.8	23	0	0	
2001-Sep-21	11:42	73	1.6	14.78	82.2	27	0	0	
2001-Sep-21	11:43	78	1.6	16.34	83.5	27	0	0	
2001-Sep-21	11:44	78	1.7	16.26	84.9	27	0	0	
2001-Sep-21	11:45	96	1.8	15.75	86.3	27	0	0	
2001-Sep-21	11:46	96	1.8	16.84	87.8	27	0	0	
2001-Sep-21	11:46	96	1.8	15.81	89.3	23	0	0	
2001-Sep-21	11:47	101	2.1	16.25	91.0	27	0	0	
2001-Sep-21	11:48	110	2.1	15.58	92.7	23	0	0	
2001-Sep-21	11:49	124	1.9	16.14	94.3	23	0	0	
2001-Sep-21	11:50	101	2.0	15.86	96.0	27	0	0	
2001-Sep-21	11:51	101	2.1	15.97	97.7	27	0	0	
2001-Sep-21	11:52	105	2.1	16.05	99.5	23	0	0	
2001-Sep-21	11:52	114	2.1	15.77	101.2	27	0	0	
2001-Sep-21	11:53	114	2.1	16.29	103.0	27	0	0	
2001-Sep-21	11:54	101	2.1	15.91	104.7	27	0	0	
2001-Sep-21	11:55	96	2.1	15.40	106.4	23	0	0	
2001-Sep-21	11:56	101	2.1	15.77	108.2	27	0	0	
2001-Sep-21	11:57	96	1.8	15.70	109.8	27	0	0	
2001-Sep-21	11:57	96	2.0	15.97	111.4	23	0	0	
2001-Sep-21	11:58	114	2.0	15.78	113.1	27	0	0	
2001-Sep-21	11:59	119	2.2	15.79	114.9	27	0	0	
2001-Sep-21	12:00	87	1.8	15.52	116.5	23	0	0	
2001-Sep-21	12:01	105	2.1	15.11	118.2	23	0	0	
2001-Sep-21	12:02	64	0.4	14.23	119.2	23	0	0	
2001-Sep-21	12:02	64	0.2	13.40	119.4	27	0	0	
2001-Sep-21	12:03	55	0.0	13.05	119.6	23	0	0	
2001-Sep-21	12:04	69	0.0	14.28	119.6	27	0	0	
2001-Sep-21	12:05	114	1.8	15.75	120.4	27	0	0	
2001-Sep-21	12:06	96	2.1	15.65	122.1	27	0	0	
2001-Sep-21	12:07	96	2.1	15.75	123.8	27	0	0	
2001-Sep-21	12:07	96	1.8	15.78	125.3	27	0	0	

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Well	Field	Service Date	Customer	Job Number
BIERE #1-22A	POPLAR		PIONEER NATURAL RESOURCES USA INC.	2209015062

Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	CSG AN PRES psi	0 0	0 0	Message
2001-Sep-21	12:08	92	1.7	15.80	126.8	23	0	0	
2001-Sep-21	12:09	96	1.7	15.64	128.3	27	0	0	
2001-Sep-21	12:10	105	1.7	15.43	129.7	27	0	0	
2001-Sep-21	12:11	92	2.0	15.67	131.4	27	0	0	
2001-Sep-21	12:12	101	2.1	15.70	133.1	27	0	0	
2001-Sep-21	12:12	105	2.1	15.79	134.8	27	0	0	
2001-Sep-21	12:13	101	1.7	15.78	136.3	27	0	0	
2001-Sep-21	12:14	92	1.7	15.49	137.8	27	0	0	
2001-Sep-21	12:15	110	1.7	15.64	139.2	27	0	0	
2001-Sep-21	12:16	105	1.7	15.49	140.8	27	0	0	
2001-Sep-21	12:17	101	1.7	15.05	142.2	27	0	0	
2001-Sep-21	12:17	87	1.5	16.06	143.5	27	0	0	
2001-Sep-21	12:18	96	1.5	15.67	144.7	27	0	0	
2001-Sep-21	12:19	96	1.5	15.56	146.0	27	0	0	
2001-Sep-21	12:20	92	1.5	16.04	147.3	27	0	0	
2001-Sep-21	12:21	92	1.5	15.86	148.5	27	0	0	
2001-Sep-21	12:22	96	1.4	15.90	149.7	27	0	0	
2001-Sep-21	12:22	96	1.4	15.78	150.8	32	0	0	
2001-Sep-21	12:23	55	0.2	15.69	151.9	27	0	0	
2001-Sep-21	12:30	55	0.3	8.37	152.1	27	0	0	
2001-Sep-21	12:43	-9	0.0	8.36	152.2	37	0	0	
2001-Sep-21	12:43	-9	0.0	8.36	152.2	37	0	0	
2001-Sep-21	12:43								Pressure Test Casing
2001-Sep-21	12:44	0	0.2	8.36	152.3	37	0	0	1-22B
2001-Sep-21	12:45	426	0.0	8.36	152.4	46	0	0	
2001-Sep-21	12:46	506	0.0	8.35	152.4	46	0	0	
2001-Sep-21	12:46	494	0.0	8.34	152.4	46	0	0	
2001-Sep-21	12:47	485	0.0	8.35	152.4	46	0	0	
2001-Sep-21	12:48	471	0.0	8.25	152.4	46	0	0	
2001-Sep-21	12:49	467	0.0	8.22	152.4	46	0	0	
2001-Sep-21	12:50	458	0.0	8.34	152.4	46	0	0	
2001-Sep-21	12:51	449	0.0	8.27	152.4	50	0	0	
2001-Sep-21	12:51	439	0.0	8.16	152.4	46	0	0	
2001-Sep-21	12:52	430	0.0	7.99	152.4	46	0	0	
2001-Sep-21	12:53	421	0.0	7.95	152.4	46	0	0	
2001-Sep-21	12:54	417	0.0	7.95	152.4	46	0	0	
2001-Sep-21	12:55	407	0.0	7.93	152.4	50	0	0	
2001-Sep-21	12:56	403	0.0	7.93	152.4	50	0	0	
2001-Sep-21	12:56	403	0.0	7.93	152.4	50	0	0	
2001-Sep-21	12:57	403	0.0	7.93	152.4	50	0	0	
2001-Sep-21	12:58	403	0.0	7.93	152.4	50	0	0	
2001-Sep-21	12:59	705	0.0	8.34	152.4	55	0	0	
2001-Sep-21	13:00	719	0.0	8.34	152.4	55	0	0	
2001-Sep-21	13:01	499	0.0	8.33	152.4	55	0	0	
2001-Sep-21	13:01	494	0.0	8.31	152.4	55	0	0	
2001-Sep-21	13:02	494	0.0	8.29	152.4	55	0	0	
2001-Sep-21	13:03	494	0.0	8.27	152.4	55	0	0	
2001-Sep-21	13:04	494	0.0	8.26	152.4	55	0	0	
2001-Sep-21	13:05	494	0.0	8.24	152.4	55	0	0	
2001-Sep-21	13:06	494	0.0	8.23	152.4	55	0	0	
2001-Sep-21	13:06	494	0.0	8.23	152.4	55	0	0	
2001-Sep-21	13:07	494	0.0	8.23	152.4	55	0	0	
2001-Sep-21	13:08	494	0.0	8.23	152.4	60	0	0	
2001-Sep-21	13:09	494	0.0	8.22	152.4	55	0	0	

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Well	Field	Service Date	Customer	Job Number
BIERE #1-22A	POPLAR		PIONEER NATURAL RESOURCES USA INC.	220[illegible]

Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	CMT Air Press psi	0 0	0 0	Message
2001-Sep-21	13:10	494	0.0	8.22	152.4	55	0	0	
2001-Sep-21	13:11	494	0.0	8.22	152.4	55	0	0	
2001-Sep-21	13:11	494	0.0	8.22	152.4	55	0	0	
2001-Sep-21	13:12	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:13	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:14	494	0.0	8.22	152.4	55	0	0	
2001-Sep-21	13:15	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:16	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:16	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:17	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:18	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:19	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:20	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:21	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:21	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:22	494	0.0	8.22	152.4	64	0	0	
2001-Sep-21	13:23	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:24	494	0.0	8.22	152.4	64	0	0	
2001-Sep-21	13:25	494	0.0	8.22	152.4	60	0	0	
2001-Sep-21	13:26	494	0.0	8.21	152.4	60	0	0	
2001-Sep-21	13:26	494	0.0	8.21	152.4	64	0	0	
2001-Sep-21	13:27	494	0.0	8.21	152.4	64	0	0	
2001-Sep-21	13:28	494	0.0	8.21	152.4	64	0	0	
2001-Sep-21	13:29	494	0.0	8.21	152.4	64	0	0	
2001-Sep-21	13:30	494	0.0	8.20	152.4	64	0	0	
2001-Sep-21	13:31	494	0.0	8.20	152.4	69	0	0	
2001-Sep-21	13:31	494	0.0	8.20	152.4	64	0	0	
2001-Sep-21	13:32	494	0.0	8.20	152.4	64	0	0	
2001-Sep-21	13:33	78	0.0	8.19	152.4	60	0	0	
2001-Sep-21	13:34	14	0.0	8.19	152.4	55	0	0	
2001-Sep-21	13:35	14	0.0	8.19	152.4	41	0	0	
2001-Sep-21	13:36	14	0.0	8.19	152.4	32	0	0	
2001-Sep-21	13:36	14	0.0	8.19	152.4	32	0	0	
2001-Sep-21	13:37	9	0.0	8.19	152.4	32	0	0	
2001-Sep-21	13:38	9	0.0	8.19	152.4	32	0	0	
2001-Sep-21	13:39	9	0.0	8.18	152.4	32	0	0	
2001-Sep-21	13:40	14	0.0	8.18	152.4	32	0	0	
2001-Sep-21	13:41	14	0.0	8.18	152.4	288	0	0	
2001-Sep-21	13:41	9	0.0	8.18	152.4	270	0	0	
2001-Sep-21	13:42	14	0.0	8.18	152.4	270	0	0	
2001-Sep-21	13:42								Well #2 Pt
2001-Sep-21	13:42	14	0.2	8.30	152.5	270	0	0	
2001-Sep-21	13:43	444	0.0	8.31	152.6	270	0	0	
2001-Sep-21	13:44	554	0.0	8.32	152.6	270	0	0	
2001-Sep-21	13:45	549	0.0	8.32	152.6	270	0	0	
2001-Sep-21	13:46	549	0.0	8.32	152.6	266	0	0	
2001-Sep-21	13:46	549	0.0	8.32	152.6	266	0	0	
2001-Sep-21	13:47	549	0.0	8.32	152.6	266	0	0	
2001-Sep-21	13:48	549	0.0	8.31	152.6	266	0	0	
2001-Sep-21	13:49	549	0.0	8.30	152.6	266	0	0	
2001-Sep-21	13:50	549	0.0	8.30	152.6	266	0	0	
2001-Sep-21	13:51	549	0.0	8.30	152.6	266	0	0	
2001-Sep-21	13:51	549	0.0	8.29	152.6	266	0	0	
2001-Sep-21	13:52	549	0.0	8.29	152.6	266	0	0	

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Well	Field	Service Date	Customer	Job Number
BIERE #1-22A	POPLAR		PIONEER NATURAL RESOURCES USA INC.	220843002

Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	CUT AN FREE psi	0 0	0 0	Message
2001-Sep-21	13:53	549	0.0	8.29	152.6	266	0	0	
2001-Sep-21	13:54	549	0.0	8.29	152.6	266	0	0	
2001-Sep-21	13:55	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	13:56	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	13:56	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	13:57	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	13:58	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	13:59	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	14:00	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	14:01	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	14:01	549	0.0	8.28	152.6	266	0	0	
2001-Sep-21	14:02	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:03	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:04	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:05	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:06	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:06	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:07	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:08	549	0.0	8.27	152.6	266	0	0	
2001-Sep-21	14:09	549	0.0	8.26	152.6	266	0	0	
2001-Sep-21	14:10	549	0.0	8.26	152.6	266	0	0	
2001-Sep-21	14:11	549	0.0	8.26	152.6	266	0	0	
2001-Sep-21	14:12	549	0.0	8.26	152.6	266	0	0	
2001-Sep-21	14:12	549	0.0	8.26	152.6	266	0	0	
2001-Sep-21	14:55	9	0.0	8.22	152.6	50	0	0	
2001-Sep-21	14:56	9	0.0	8.22	152.6	55	0	0	
2001-Sep-21	14:56								pt Well #3
2001-Sep-21	14:56	160	0.2	8.31	152.7	55	0	0	
2001-Sep-21	14:57	522	0.0	8.39	152.7	64	0	0	
2001-Sep-21	14:58	522	0.0	7.80	152.7	69	0	0	
2001-Sep-21	14:59	522	0.0	7.70	152.7	69	0	0	
2001-Sep-21	15:00	522	0.0	7.67	152.7	73	0	0	
2001-Sep-21	15:00	522	0.0	7.69	152.7	78	0	0	
2001-Sep-21	15:01	522	0.0	7.69	152.7	82	0	0	
2001-Sep-21	15:02	522	0.0	7.69	152.7	82	0	0	
2001-Sep-21	15:03	522	0.0	7.69	152.7	87	0	0	
2001-Sep-21	15:04	522	0.0	7.69	152.7	92	0	0	
2001-Sep-21	15:05	522	0.0	7.69	152.7	92	0	0	
2001-Sep-21	15:05	522	0.0	7.69	152.7	96	0	0	
2001-Sep-21	15:06	522	0.0	7.69	152.7	101	0	0	
2001-Sep-21	15:07	526	0.0	7.69	152.7	105	0	0	
2001-Sep-21	15:08	526	0.0	7.69	152.7	105	0	0	
2001-Sep-21	15:09	526	0.0	7.69	152.7	105	0	0	
2001-Sep-21	15:10	526	0.0	7.69	152.7	110	0	0	
2001-Sep-21	15:10	526	0.0	7.69	152.7	110	0	0	
2001-Sep-21	15:11	526	0.0	7.69	152.7	114	0	0	
2001-Sep-21	15:12	526	0.0	7.69	152.7	119	0	0	
2001-Sep-21	15:13	526	0.0	7.69	152.7	119	0	0	
2001-Sep-21	15:14	526	0.0	7.69	152.7	124	0	0	
2001-Sep-21	15:15	526	0.0	7.69	152.7	124	0	0	
2001-Sep-21	15:15	526	0.0	7.69	152.7	128	0	0	
2001-Sep-21	15:16	526	0.0	7.69	152.7	128	0	0	
2001-Sep-21	15:17	526	0.0	7.69	152.7	133	0	0	
2001-Sep-21	15:18	526	0.0	7.69	152.7	133	0	0	

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Well	Field	Service Date	Customer	Job Number
BIERE #1-22A	POPLAR		PIONEER NATURAL RESOURCES USA INC.	220033002

Date	Time 24 hr Clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	DRY AN PRES psi	0	0	Message
2001-Sep-21	15:19	526	0.0	7.69	152.7	137	0	0	
2001-Sep-21	15:20	526	0.0	7.69	152.7	142	0	0	
2001-Sep-21	15:21	526	0.0	7.69	152.7	142	0	0	
2001-Sep-21	15:21	526	0.0	7.69	152.7	142	0	0	
2001-Sep-21	15:22	531	0.0	7.69	152.7	146	0	0	
2001-Sep-21	15:23	531	0.0	7.69	152.7	146	0	0	
2001-Sep-21	15:30	14	0.0	7.68	152.7	37	0	0	
2001-Sep-21	15:30								Injection rate
2001-Sep-21	15:30	18	0.0	7.68	152.7	41	0	0	
2001-Sep-21	15:31	261	0.2	7.13	152.8	37	0	0	
2001-Sep-21	15:32	439	0.0	7.14	152.9	37	0	0	
2001-Sep-21	15:39	14	0.0	6.96	152.9	41	0	0	
2001-Sep-21	15:39	14	0.0	7.07	152.9	37	0	0	
2001-Sep-21	15:39								Injection rate
2001-Sep-21	15:40	96	0.2	7.07	153.1	-3790	0	0	
2001-Sep-21	15:41	490	0.3	7.07	153.2	-3790	0	0	
2001-Sep-21	15:42	444	0.0	7.07	153.3	-3790	0	0	
2001-Sep-21	15:43	5	0.0	7.07	153.3	-3790	0	0	
2001-Sep-21	15:43	5	0.0	7.07	153.3	-3790	0	0	
2001-Sep-21	15:44	0	0.0	7.07	153.3	-3786	0	0	
2001-Sep-21	15:45	197	0.0	7.07	153.3	-3790	0	0	
2001-Sep-21	15:46	229	0.2	7.07	153.4	-3790	0	0	
2001-Sep-21	15:46	243	0.4	7.07	153.5	-3790	0	0	
2001-Sep-21	15:46								Increase Pump Rate
2001-Sep-21	15:47	316	0.9	7.06	153.9	-3790	0	0	
2001-Sep-21	15:48	476	1.0	7.03	154.7	-3790	0	0	
2001-Sep-21	15:48	-5	0.0	7.03	154.7	-3790	0	0	

Frac Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
2.5			4

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
142	10		

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown

Breakdown Fluid

Type	Volume	Density
	bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface? Volume
%	143 bbl	0.25 bbl	63 °F	☐ Washed Thru Perfs To ft

Customer or Authorized Representative	Dowell Supervisor	
Murray, Brooks,	Poff, Larry	☐ Circulation Lost ☐ Job Completed

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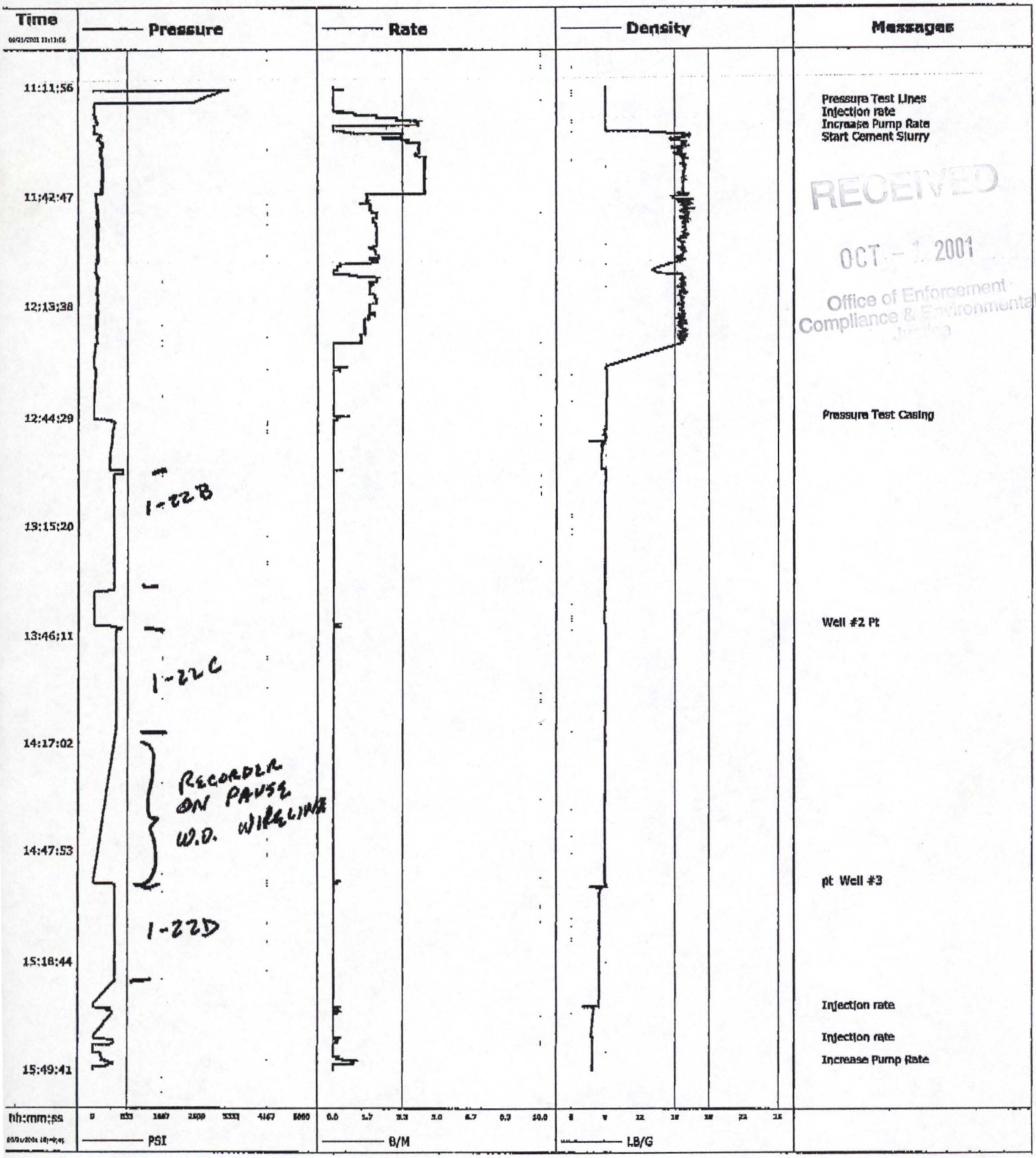
Schlumberger

Cement Job Report

CemCAT v1.0

Well	Biere 1-22A	**Client**	Pioneer Natural Resources
Field	Poplar	**SIR No.**	2206835062
Engineer	Larry Poff	**Job Type**	Squeeze
Country	United States	**Job Date**	09-20-2001



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WELL LOCATION PLAT

PIONEER NATURAL RESOUCES INC., 5205 O'CONNER BLVD, IRVING, TX 75039-3746
BIERE 22-IB
1983 feet from South line, 654 feet from West line
Section 22, Township 28 North, Range 51 East P.M.M.
Roosevelt County, Montana

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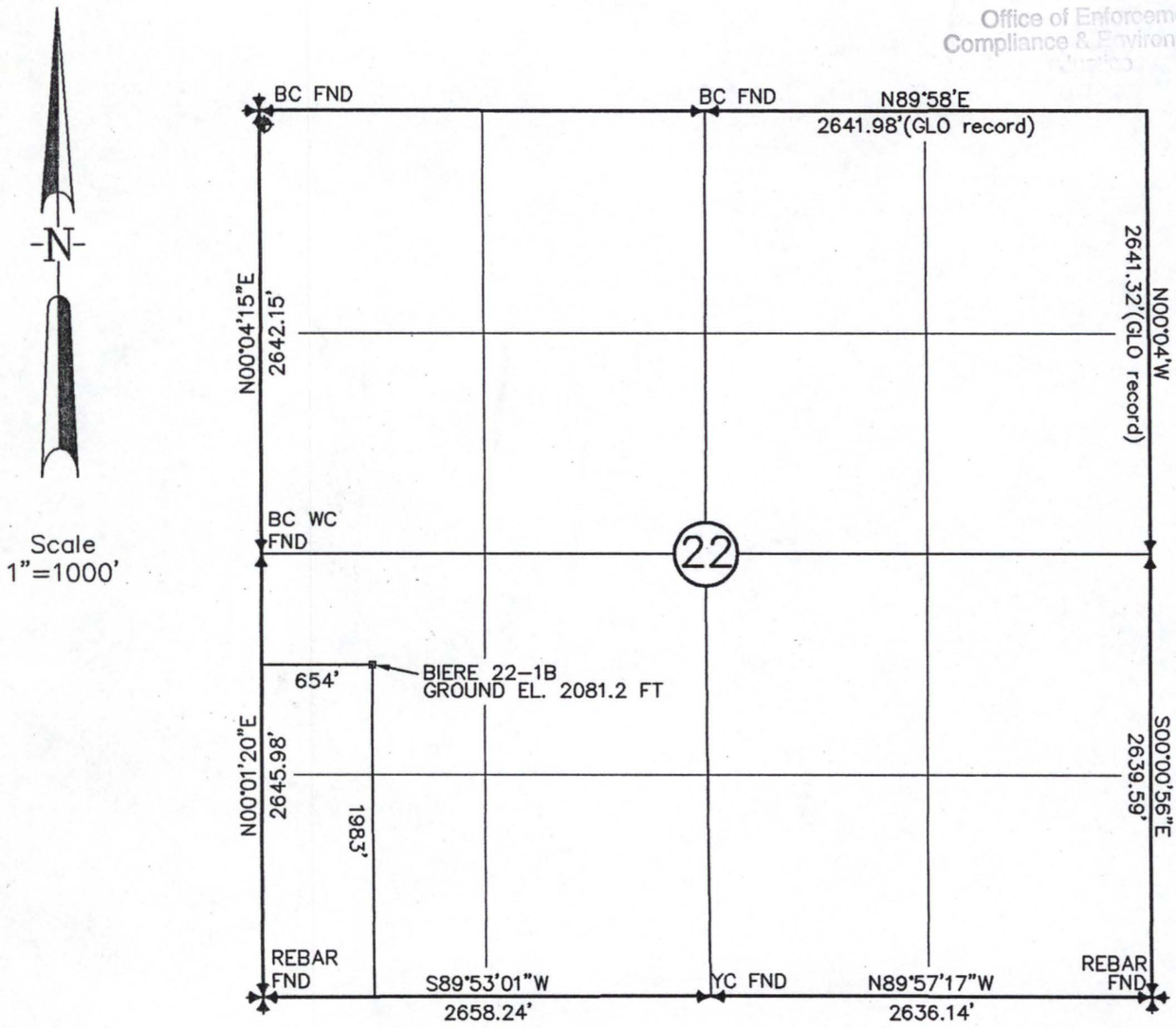

APR 2001
Received
Board of Oil & Gas Cons.
State of MT / Billings

Authorized by:

_____

_____

I, Jimmie L. Brewer, certify that this plat correctly represents work performed by me or under my responsible charge, and is true and correct to the best of my knowledge and belief.

MONTANA
JIMMIE L. BREWER
7155 S
REGISTERED
PROFESSIONAL LAND SURVEYOR

Jimmie L. Brewer, PLS
Montana licence No. 7155LS

Date Staked 4-25-2001

Basis of Vertical Datum
USGS BM B 544

HKM ENGINEERING
215 S. Lake
Miles City, Mt 59301
406/232-6666

Biere 1-22B
SW Poplar Field
Roosevelt Co, Montana

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Wellbore schematic 9-4-01
Remedial Well

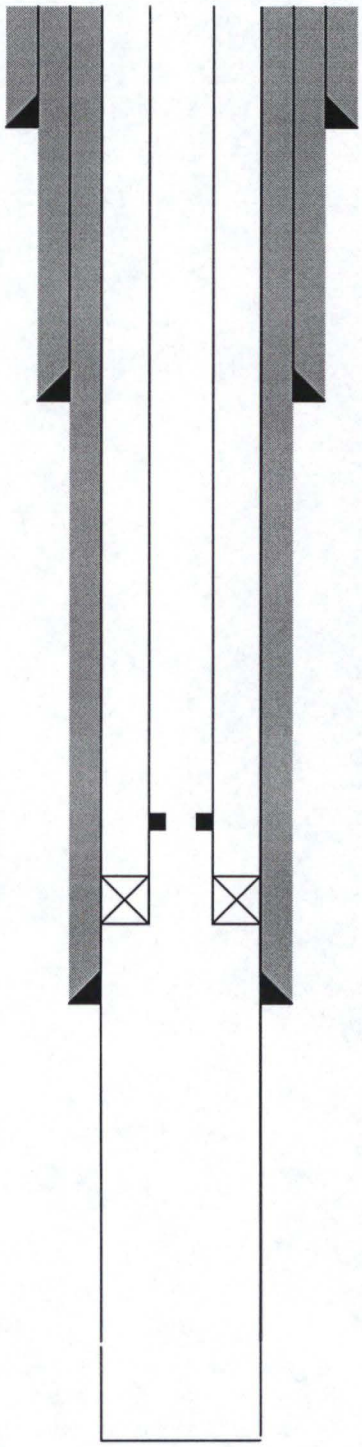
KB elev. 2090'
GL elev. 2081'

13 3/8", 54.50#, J55, STC casing @ 71'
TOC - surface

9 5/8", 36#, J55, STC casing @ 240.72'
TOC @ surface

5 1/2", 15.50#, J55 LTC casing @ 685.77'
TOC @ surface

4 3/4" open hole to 729'



MBOGC permit # 17381

2 7/8", 6.5#, J55, 8rd EUE tubing as follows:

ITEM	LENGTH(ft)	DEPTH(ft)
19 jts tbg	601.86	9.00
2.25" F nipple	1.05	610.86
1 - pup	6.10	611.91
Baker size 45	3.80	618.01
J-Lok packer		
Total	612.81	
End of Tubing		621.81

Chronology of significant events:

Drilled to 73' w/ 1-2 bpm water flow beginning at +/- 65'

Ran 13 3/8" and cmt w/ 330 sx – circ to surf

Hole unloaded cmt and flowing 1-2 bpm

Top out w/ 10 min pump time cement as follows:

- 350 sx – hole unloaded
- 750 sx – hole unloaded
- 200 sx – flowing out 2" line only
- 100 sx – flowing out rathole only
- 5 sx – stopped rathole
- 30 sx – to fill hole

Squeeze 13 3/8" shoe w/ 350 sx

Drilled to 258' hole flows intermittently

Ran 9 5/8" and cmt w/ 350 sx – circ to surf

Hole uloaded and flowing 5 – 10 bph

Squeeze behind 9 5/8" w/ 200 sx

Drilled to 697' – no flow

Ran and cmt 5 1/2" casing – circ to surf

Drilled to 729' – no flow

Ran packer and tubing

GRC
9/5/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

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INJECTION WELL MONITORING REPORT

Form Approved
OMB No. 2000-0042

YEAR	MONTH	MONTH	MONTH
Injection Pressure (PSI)	August, 2001	Sept, 2001	
1. Minimum	(BIERE 1-22B)		
2. Average	No Injection	No Injection	
3. Maximum			
Injection Rate (Gal/Min)			
1. Minimum			
2. Average			
3. Maximum			
Annular Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Volume (Gal)			
1. Monthly Total			
2. Yearly Cumulative			
Temperature (F°)			
1. Minimum			
2. Average			
3. Maximum			
pH			
1. Minimum			
2. Average			
3. Maximum			
Other Drilling & Completing Injection Wells August - September, 2001			

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Name and Address of Permittee		Permit Number
PNR USA, Inc.		MT5913-00 000
Name and Official Title *(Please type or print)*	**Signature**	**Date Signed**
Wilbur Dover-Manager Oper. Servs.	Wilbur L. Dover	9-30-01

EPA Form 7520-8 (2-84)

Form Approved. OMB No. 2000-0042

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

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COMPLETION FORM FOR INJECTION WELLS

ADMINISTRATIVE INFORMATION

1. Permittee

PIONEER NATURAL RESOURCES USA, INC.

Address *(Permanent Mailing Address) (Street, City, State, and ZIP Code)*

5205 N. O'Connor Blvd., Ste 1400
Irving, Texas 75039

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Justice

2. Operator

Pioneer Natural Resources USA, Inc.

Address *(Street, City, State, and ZIP Code)*

SAME

3. Facility Name	**Telephone Number**
Biere 1-22B Injection Well	972-969-3920

Address *(Street, City, State, and ZIP Code)*

SAME

4. Surface Location Description of Injection Well(s)

State	**County**
Montana	Roosevelt

¼ of	**¼ of**	**¼ section**
NW	SW	22

Township	**Range**
28N	51E

Feet from (N/S)	**Line of quarter section and**
1983' FSL	-

Feet from (E/W)	**Line of quarter section**
654' FWL	-

Submit with this Completion Form the attachments listed in *Attachments for Completion Form.*

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur Dover Manager - Operations Services	Wilbur L. Dover	9-18-01

CONTINUED ON REVERSE

Attachments to be submitted with the Completion report:

I. Geologic Information

1. Lithology and Stratigraphy

A. Provide a geologic description of the rock units penetrated by name, age, depth, thickness, and lithology of each rock unit penetrated.

B. Provide a description of the injection unit.

(1) Name
(2) Depth (drilled)
(3) Thickness
(4) Formation fluid pressure
(5) Age of unit
(6) Porosity (avg.)
(7) Permeability
(8) Bottom hole temperature
(9) Lithology
(10) Bottom hole pressure
(11) Fracture pressure

C. Provide chemical characteristics of formation fluid (attach chemical analysis).

D. Provide a description of freshwater aquifers.

(1) Depth to base of fresh water (less than 10,000 mg/1 TDS).

(2) Provide a geologic description of aquifer units with name, age, depth, thickness, lithology, and average total dissolved solids.

II. Well Design and Construction

1. Provide data on surface, intermediate, and long string casing and tubing. Data must include material, size, weight, grade, and depth set.

2. Provide data on the well cement, such as type/class, additives, amount, and method of emplacement.

3. Provide packer data on the packer (if used) such as type, name and model, setting depth, and type of annular fluid used.

4. Provide data on centralizers to include number, type and depths.

5. Provide data on bottom hole completions.

6. Provide data on well stimulation used.

III. Description of Surface Equipment

1. Provide data and a sketch of holding tanks, flow lines, filters, and injection pump

IV. Monitoring Systems

1. Provide data on recording and nonrecording injection pressure gauges, casing-tubing annulus pressure gauges, injection rate meters, temperature meters, and other meters or gauges.

2. Provide data on constructed monitor wells such as location, depth, casing diameter, method of cementing, etc.

V. Logging and Testing Results

Provide a descriptive report interpreting the results of geophysical logs and other tests. Include a description and data on deviation checks run during drilling.

VI. Provide an as-built diagrammatic sketch of the injection well(s) showing casing, cement, tubing, packer, etc., with proper setting depths. The sketch should include well head and gauges.

VII. Provide data demonstrating mechanical integrity pursuant to 40 CFR 146.08.

VIII. Report on the compatibility of injected wastes with fluids and minerals in both the injection zone and the confining zone.

IX. Report the status of corrective action on defective wells in the area of review.

X. Include the anticipated maximum pressure and flow rate at which injection will operate.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

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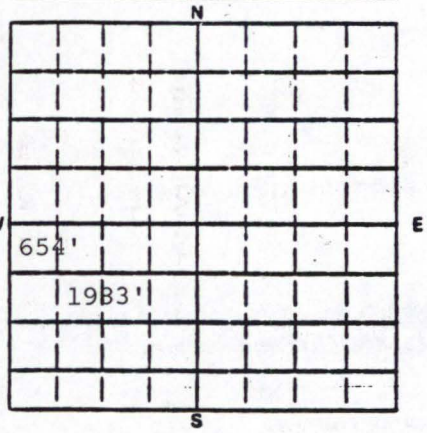
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042

NAME AND ADDRESS OF EXISTING PERMITTEE
Pioneer Natural Resources USA, Inc.
5205 N. O'Connor Blvd. Ste. 1400
Irving, Texas 75039

NAME AND ADDRESS OF SURFACE OWNER
Lyle Lockman
5715 Road 75
Poplar, MT. 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 5913-00000

SURFACE LOCATION DESCRIPTION
NW 1/4 of SW 1/4 of — 1/4 of — 1/4 of Section 22 Township 28N Range 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 1983 ft. from (N/S) S Line of quarter section
and 654 ft. from (E/W) W Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☒ Area
- Number of Wells 3

Class V Emergency

Estimated Fracture Pressure of Injection Zone 455 PSI

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average To Be Determined	Maximum 5,160	Feet	to Feet

Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average To Be Determinde	Maximum 455 PSI	±65'

Type of Injection Fluid *(Check the appropriate block(s))*
- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☒ Other Injectrol "U"

Lease Name Biere
Well Number 1-22B
Name of Injection Zone Judith River

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Date Drilling Began 8-14-01
Date Well Completed 8-27-01
Permeability of Injection Zone N/A
Date Drilling Completed 8-26-01
Porosity of Injection Zone N/A

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter
13 3/8"	54.5#/ft,J55,STC New	71	330 SXS	Class"G"w/2%CaCl2	73'	17 1/2"
9 5/8"	36#/ft,J55,STC New	240.72'	350 SXS	Class"G"w/2%CaCl2	258'	12 1/4"
5 1/2"	15.5#/ft,J55 LTC,	New 685.77'	250 SXS	Class"G"w/2%CaCl2	697'	8 3/4"

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals
	None To Date		

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED
Wilbur L. Dover Manager-Operations Services	Wilbur L. Dover	9-27-01

EPA Form 7520-10

ATTACHMENTS

A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.

B. Describe the method and results of mechanical integrity testing.

C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection and adjacent formations.

D. Present the status of corrective action on defective wells in the area of review.

E. Provide to EPA, with the completion report, one final print of all geophysical logs run.

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated at an average of 4 hours per well, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Form Approved. OMB No. 2040-0042.

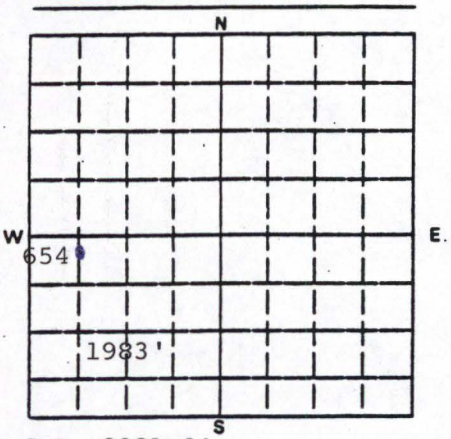
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
Pioneer Natural Resources USA, Inc.	L.M. Lockman 5715 ROAD 75 Poplar, Montana 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



G.L. 2081.2'

STATE	COUNTY	PERMIT NUMBER
MT.	Roosevelt	MT5913-00000

SURFACE LOCATION DESCRIPTION
___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section___ Township___ Range___

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1983 ft. from (N/S) S Line of quarter section 22

and 654 ft. from (E/W) W Line of quarter section 22

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- XX Area
- Number of Wells 43

Emergency Permit
Class V Remediation Project
X Injectrol "U" Sealant

Lease Name Biere Well Number 1-22B

MONTH	YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG
		Injection Of	Injectrol "U"	Has Not Com	menced As Of	9-30-01	

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CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur L. Dover Manager-Operations Services	Wilbur L. Dover	9-30-01

EPA Form 7520-11

PAPERWORK REDUCTION ACT NOTICE

Public reporting burden for this collection of information is estimated at an average of 16 hours per operator, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency 401 M Street, SW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

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EPA Witness: _____ Date: 9 / 21 / 01
Test conducted by: GARY COOPER
Others present: Larry POFF

Well Name: BIERE 1-22 B Type: ER SWD Status: AC TA UC
Field: SE POPLAR
Location: SW, NW Sec: 22 T 28 (N) S R 51 (E) W County: ROOSEVELT State: MT
Operator: PIONEER NATURAL RESOURCES
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: -0- psig

MIT DATA TABLE	Test #1		Test #2		Test #3	
TUBING	*PRESSURE*					
Initial Pressure	46	psig	55	psig		psig
End of test pressure	50	psig	60	psig		psig
CASING / TUBING	*ANNULUS*		*PRESSURE*			
0 minutes	513	psig	499	psig		psig
5 minutes		psig	494	psig		psig
10 minutes		psig		psig		psig
15 minutes	403	psig		psig		psig
20 minutes		psig		psig		psig
25 minutes		psig		psig		psig
30 minutes		psig	494	psig		psig
_____ minutes		psig		psig		psig
_____ minutes		psig		psig		psig
RESULT	[ ] Pass	[X] Fail	[X] Pass	[ ] Fail	[ ] Pass	[ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:
1st TEST FAIL DUE TO AIR IN LINES

Signature of Witness: Larry Poff

Telephone (701) 572-2155
Fax (701) 572-0664
Wireline Fax (701) 572-9616
US Watts 1-800-437-2075
wiscowl@epicinc.net

P.O. Box 2477
Highway 2 North
Williston, North Dakota 58802-2477

Wireline Service

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

ELECTRONIC PRESSURE and TEMPERATURE DATA

Company: Pioneer Natural Resources
Well Name & No.: Biere 1-22B
Field: n/a
County: Roosevelt
State: Montana
Company Rep: Rusty Cooper
Test Operators: Kevin D. H. and Kevin L. H.
Perforations: n/a
Tbg Pressure: 15 PSIa at Start of Test
Tbg. Size: n/a
Depth of Tbg. n/a

Test Date: September 21, 2001
Type of Test: Static BHP & Gradients
Well Status: Shut In
Recorder: Bottom Probe R-63
Probe Run Depth: 700' G/L
Time on Bottom: 10:37 am MT 09/21/01
Time off Bottom: 10:42 am MT 09/21/01
Temperature: 123 Deg F.
Tool Zero Point: Wireline G/L
Comments: Gradients Calculated from Stops Made while Tripping in the Hole.

Depth (Feet)	*Pressure (PSIa)*	*Press. Gradients*	*Temperature (Deg F)*	*Temp. Gradients*
Initial Surface	15	----	75	----
300	145	0.433	111	0.120
500	232	0.435	116	0.025
700	317	0.425	123	0.035

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Justice

Company	Pioneer Natural Resources
Well	Biere #1-22B
Location	Roosevelt Co., Montana
Test Date(s)	September 21, 2001
Service Company	WISCO Wireline Service
Probe Number	Bottom Probe R-63
Probe Run Depth	700' G/L
Probe Start Time	Friday September 21, 2001 at 10:11:33 MT

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Compliance & Environmental

Services Performed by Kevin D. Hammer and Kevin L. Hammer

Index	Date	World Time	Cum.Time HR	Pressure PSIA	Temperature DEG F	
1	2001/09/21	10:11:33	0.0000	14.692	73.78	Engaged the Probe
2	2001/09/21	10:12:03	0.0083	14.692	73.77	
3	2001/09/21	10:12:33	0.0167	14.692	73.93	
4	2001/09/21	10:13:03	0.0250	14.692	74.18	
5	2001/09/21	10:13:33	0.0333	14.692	74.38	
6	2001/09/21	10:14:03	0.0417	14.692	74.54	Initial Surface
7	2001/09/21	10:14:33	0.0500	14.692	74.65	
8	2001/09/21	10:15:03	0.0583	14.692	74.73	
9	2001/09/21	10:15:33	0.0667	14.692	74.77	
10	2001/09/21	10:16:03	0.0750	14.692	74.79	
11	2001/09/21	10:16:33	0.0833	14.692	74.79	
12	2001/09/21	10:17:03	0.0917	14.692	74.78	
13	2001/09/21	10:17:33	0.1000	14.692	74.75	
14	2001/09/21	10:18:03	0.1083	14.692	74.73	
15	2001/09/21	10:18:33	0.1167	14.692	74.69	
16	2001/09/21	10:19:03	0.1250	14.692	74.66	Tripped In the Hole
17	2001/09/21	10:19:33	0.1333	20.451	74.63	
18	2001/09/21	10:20:03	0.1417	39.233	76.10	
19	2001/09/21	10:20:33	0.1500	60.987	81.46	
20	2001/09/21	10:21:03	0.1583	86.354	89.08	
21	2001/09/21	10:21:33	0.1667	113.108	95.63	
22	2001/09/21	10:22:03	0.1750	139.200	100.27	
23	2001/09/21	10:22:33	0.1833	145.937	103.39	300' Gradient Stop
24	2001/09/21	10:23:03	0.1917	145.652	105.54	
25	2001/09/21	10:23:33	0.2000	145.386	107.12	
26	2001/09/21	10:24:03	0.2083	145.265	108.37	
27	2001/09/21	10:24:33	0.2167	145.221	109.38	
28	2001/09/21	10:25:03	0.2250	145.203	110.21	
29	2001/09/21	10:25:33	0.2333	145.226	110.89	
30	2001/09/21	10:26:03	0.2417	145.225	111.45	.433 Static Gradient
31	2001/09/21	10:26:33	0.2500	145.227	111.91	
32	2001/09/21	10:27:03	0.2583	145.240	112.30	End of Gradient Stop
33	2001/09/21	10:27:33	0.2667	158.877	112.62	
34	2001/09/21	10:28:03	0.2750	190.034	112.82	
35	2001/09/21	10:28:33	0.2833	222.494	113.01	
36	2001/09/21	10:29:03	0.2917	231.463	113.32	500' Gradient Stop
37	2001/09/21	10:29:33	0.3000	231.489	113.67	
38	2001/09/21	10:30:03	0.3083	231.543	114.04	

39	2001/09/21	10:30:33	0.3167	231.592	114.39	
40	2001/09/21	10:31:03	0.3250	231.577	114.72	
41	2001/09/21	10:31:33	0.3333	231.651	115.04	
42	2001/09/21	10:32:03	0.3417	231.623	115.33	
43	2001/09/21	10:32:33	0.3500	231.627	115.61	.435 Static Gradient
44	2001/09/21	10:33:03	0.3583	231.646	115.86	
45	2001/09/21	10:33:33	0.3667	231.683	116.10	End of Gradient Stop
46	2001/09/21	10:34:03	0.3750	237.767	116.31	
47	2001/09/21	10:34:33	0.3833	249.762	116.54	
48	2001/09/21	10:35:03	0.3917	261.726	116.84	
49	2001/09/21	10:35:33	0.4000	274.405	117.20	
50	2001/09/21	10:36:03	0.4083	286.685	117.68	
51	2001/09/21	10:36:33	0.4167	298.611	118.23	
52	2001/09/21	10:37:03	0.4250	310.767	118.85	
53	2001/09/21	10:37:33	0.4333	317.409	119.50	Initial 700' G/L
54	2001/09/21	10:38:03	0.4417	317.417	120.14	
55	2001/09/21	10:38:33	0.4500	317.435	120.75	
56	2001/09/21	10:39:03	0.4583	317.413	121.31	
57	2001/09/21	10:39:33	0.4667	317.459	121.82	
58	2001/09/21	10:40:03	0.4750	317.464	122.30	
59	2001/09/21	10:40:33	0.4833	317.461	122.73	
60	2001/09/21	10:41:03	0.4917	317.425	123.13	.425 Static Gradient
61	2001/09/21	10:41:33	0.5000	317.436	123.48	
62	2001/09/21	10:42:03	0.5083	317.432	123.83	Final 700' G/L
63	2001/09/21	10:42:33	0.5167	308.478	124.13	Tripped Out of the Hole
64	2001/09/21	10:43:03	0.5250	277.046	124.40	
65	2001/09/21	10:43:33	0.5333	181.222	124.55	
66	2001/09/21	10:44:03	0.5417	77.319	124.32	
67	2001/09/21	10:44:33	0.5500	19.916	126.19	
68	2001/09/21	10:45:03	0.5583	16.643	127.09	Final Surface
69	2001/09/21	10:45:33	0.5667	17.084	126.95	
70	2001/09/21	10:46:03	0.5750	15.594	126.44	Equalized the Lubricator
71	2001/09/21	10:46:33	0.5833	15.539	125.70	
72	2001/09/21	10:47:03	0.5917	15.533	124.73	
79	2001/09/21	10:50:33	0.6500	15.001	117.44	
80	2001/09/21	10:51:03	0.6583	14.875	116.56	End of Test Data

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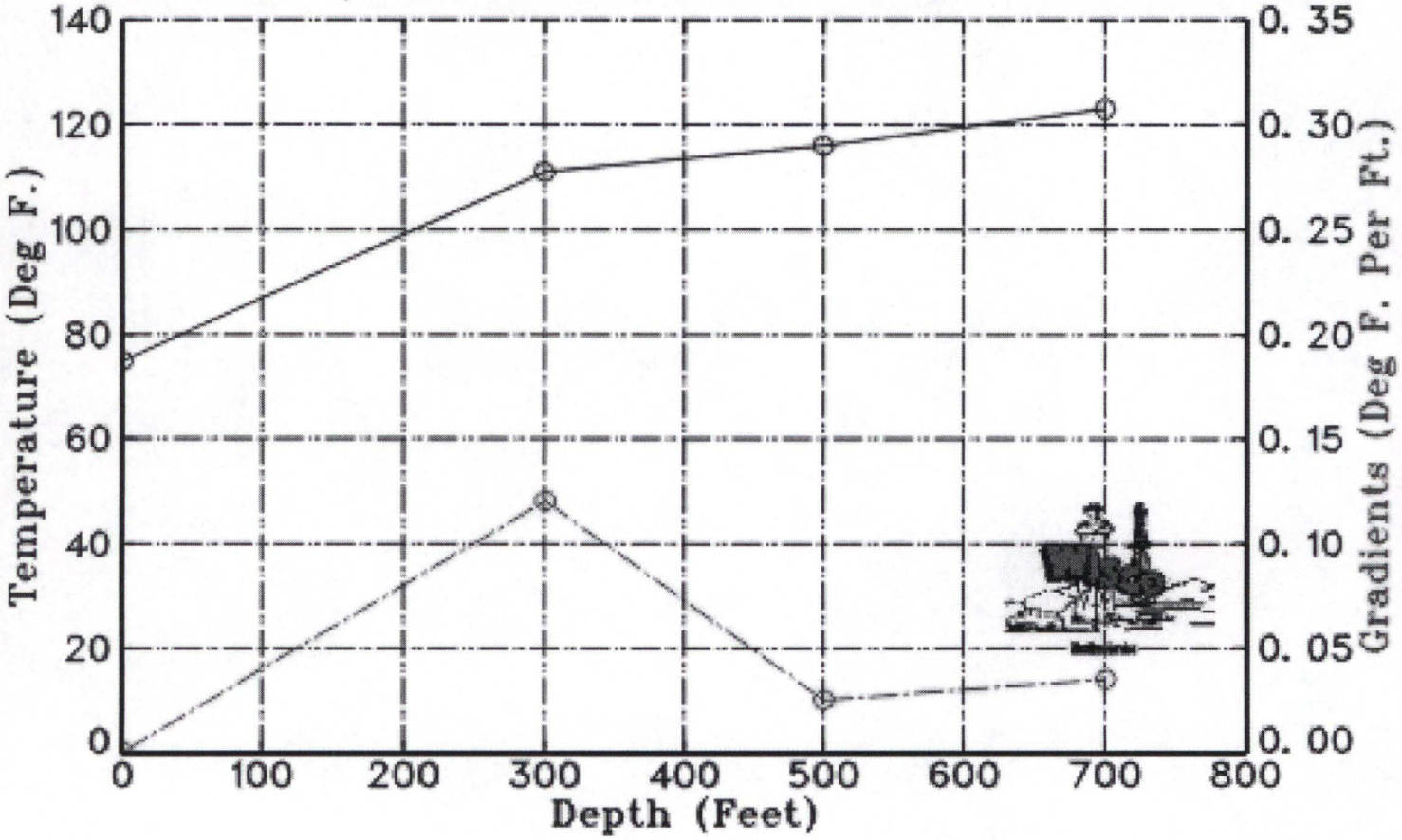
Pioneer Natural Resources, Biere 1-22B

Elec. Temperature Gradients, Bottom Probe R-63



ZIPGRAPH 3.1b6 for Wilson Wireline, Williston N.D. Sept. 24, 2001 12:20:51

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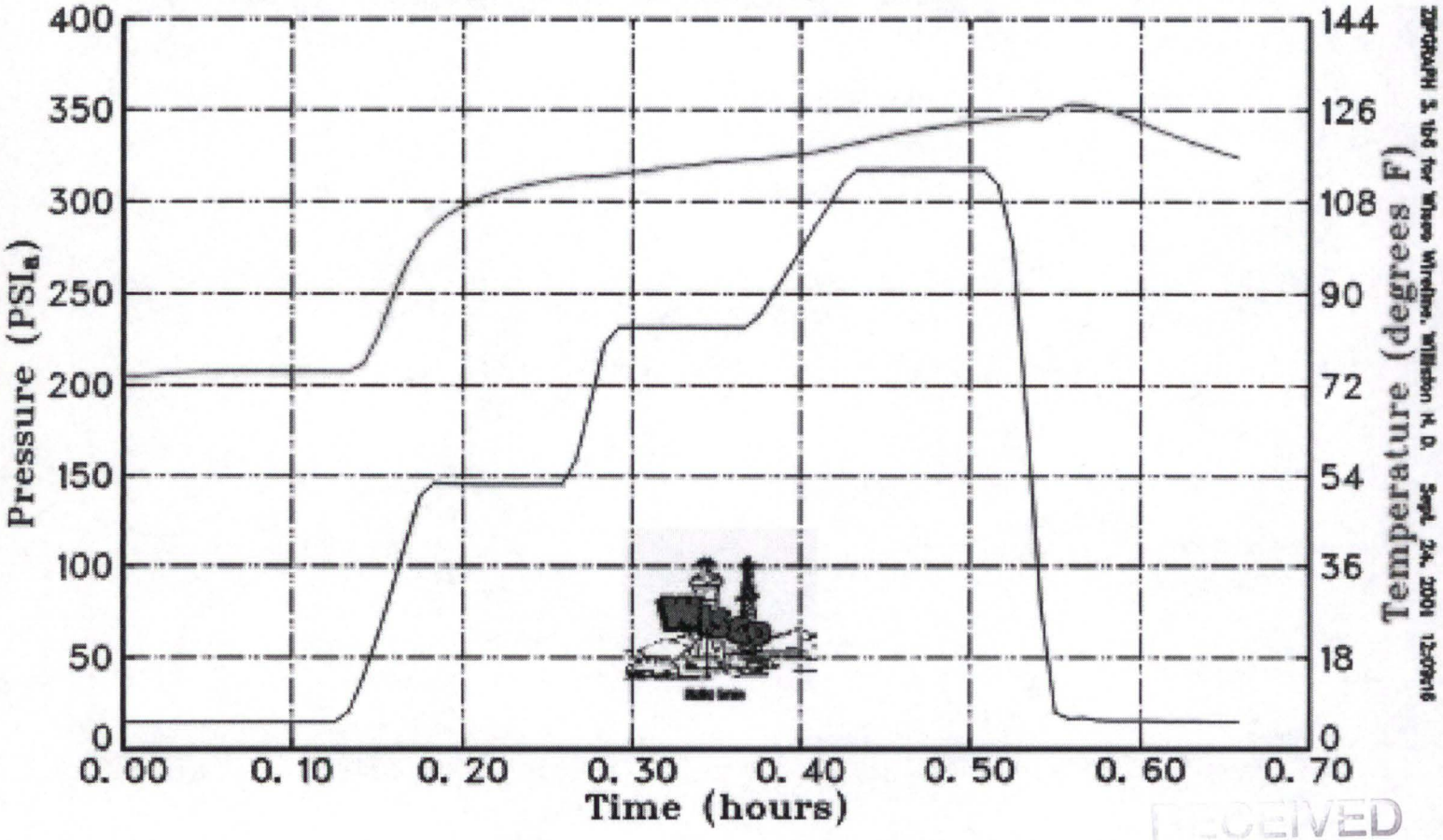
Elec. Static BHP & Gradients, Bottom Probe R-63



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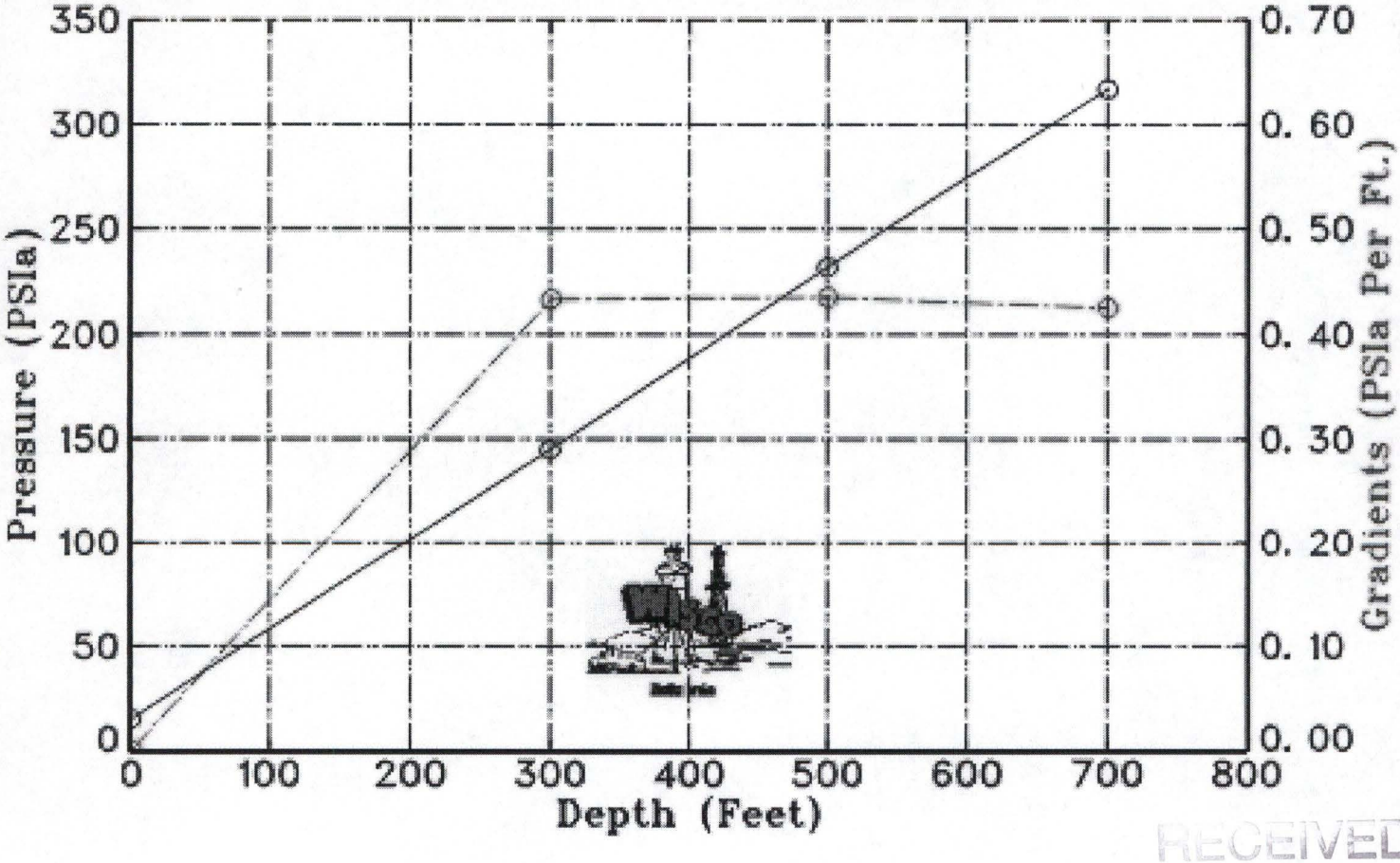
Electronic Pressure Gradients, Bottom Probe R-63



ZIPGRAPH 5.1b6 for Wiess Wireline, Williston N.D. Sept. 24, 2001 12:15:57

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Daryl for

Telephone (701) 572-2135
Fax (701) 572-9616
Wireline E-Mail wiscowl@epicinc.net
US Watts 1-800-437-2075

PO Box 2477
Highway 2, North
Williston, North Dakota 58801

Wireline Service

JOB NAME: Bier 122B

Co. E-Mail Address:

Copies To: Daryl took @ Holt.
Rusty @ Calgary

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

Company: Pioneer Natural Resources Test Start Date: 9-21-2001

Well Name and Number: Bier #1-22B Co. Rep: Rusty

Field: County: Roosevelt State: MT

Type of Test: BHP/BHT Well Status: Perfs:

Test Operators: Ronin H. Starting TBG Press:

Top Gauge #: 17900 Engage Time: 3hr CT/MT Disengage:

Bottom Gauge #: R-63 Engage Time: 10:10:12 CT/MT Disengage: 10:51:05

Pressured up: 10:14:00 Tripped in Hole: 10:19:00 On Bottom: 10:37:20 Shut In:

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Grad. Stops	World Time	Top Gauge Pressure	Grad.	Temp.	Bottom Gauge Pressure	Grad.	Temp.
Surface	10:14:00 – 10:19:00				15	–	25
300	10:22:15 – 10:27:15				145	.453	111
500	10:28:45 – 10:33:45				233	.435	116
700	10:37:20 – 10:42:20				317	.425	123

Ending Surface Press: Pressured up: TIH to Fish:

BHP's Off Bottom: 10:42:20 Back @ Surface: 10:44:15 Bled Down Press: 10:45:45

Run Depth: 700' Datum Depth: Ending Test Date:

Top Data Points: Rem. Amp Hrs: Alarms: Max Temp:

Bot Data Points: 80 Rem. Amp Hrs: 7.887 Alarms: Max Temp:

WELL LOCATION PLAT

PIONEER NATURAL RESOUCES INC., 5205 O'CONNER BLVD, IRVING, TX 75039-3746
BIERE 22-IC
1873 feet from South line, 644 feet from West line
Section 22, Township 28 North, Range 51 East P.M.M.
Roosevelt County, Montana

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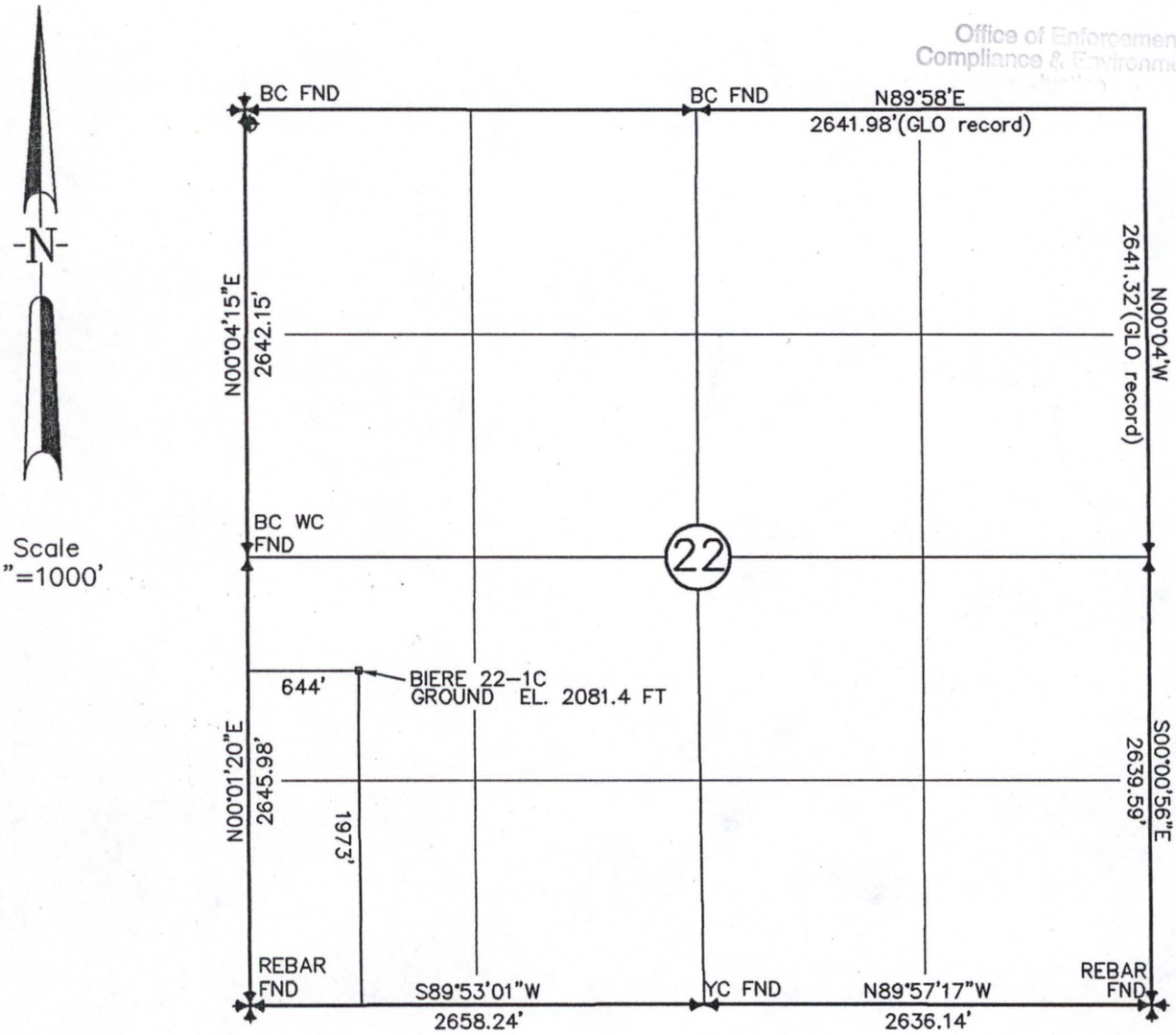

APR 2001
Received
Board of Oil & Gas Cons.
State of MT / Billings

Authorized by:

_____

_____

I, Jimmie L. Brewer, certify that this plat correctly represents work performed by me or under my responsible charge, and is true and correct to the best of my knowledge and belief.

MONTANA
JIMMIE L. BREWER
7155 S
REGISTERED
PROFESSIONAL LAND SURVEYOR

Jimmie L. Brewer, PLS
Montana licence No. 7155LS

Date Staked 4-25-2001

Basis of Vertical Datum
USGS BM B 544

HKM ENGINEERING
215 S. Lake
Miles City, Mt 59301
406/232-6666

Biere 1-22C
SW Poplar Field
Roosevelt Co, Montana

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Wellbore schematic 9-7-01
Remedial Well

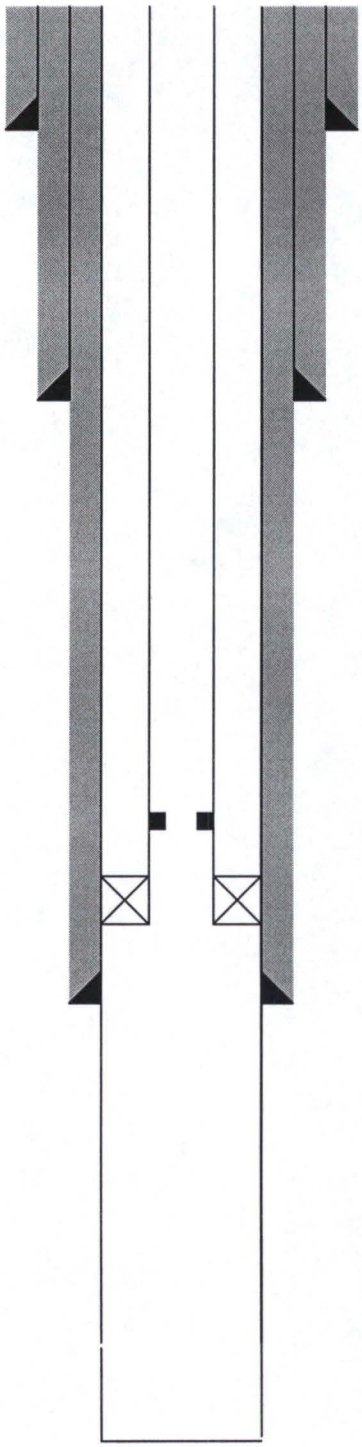
KB elev. 2090'
GL elev. 2081'

13 3/8", 54.50#, J55, STC casing @ 58.9'
TOC - surface

9 5/8", 36#, J55, STC casing @ 240.72'
TOC @ surface

5 1/2", 15.50#, J55 LTC casing @ 679.10'
TOC @ surface

4 3/4" open hole to 844'



MBOGC permit # 17382

2 7/8", 6.5#, J55, 8rd EUE tubing as follows:

ITEM	LENGTH(ft)	DEPTH(ft)
19 jts tbg	594.05	9.00
2.25" F nipple	1.05	603.05
1 - pup	6.10	604.10
Baker size 45	3.80	610.20
J-Lok packer		
Total	605.00	
End of Tubing		614.00

Chronology of significant events:

Drilled to 59'
Ran 13 3/8" and cmt w/ 175 sx – circ to surf
Drilled to 163' w/ flows as follows:
- 73' – no flow
- 88' – no flow
- 100' – 5–10 bph
- 118' – 10-15 bph
- 133' – 15-20 bph

Squeeze w/ 2000 sx 50/50 poz + 200sx G
Drilled to 163' w/ flows as follows:
- 75' – 3-5 bph
- 100' – 25-30 bph
- 163' – 60-80 bph

Squeeze w/ 200 sx G
Drilled to 255' w/ no flow
Ran 9 5/8" and cmt w/ 200 sx – circ to surf
CBL good but cmt leaking at 2-3 gph
Drilled to 697' w/ no flow
Ran 5 1/2" and cmt w/ 250 sx – circ to surf
Drilled to 838' w/ no flow
Drilling break 838 – 844' flowed 10 bph
Ran packer and tubing

GRC
9/7/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

INJECTION WELL MONITORING REPORT

Form Approved
OMB No. 2000-0042

YEAR	MONTH	MONTH	MONTH
Injection Pressure (PSI)	August, 2001	Sept, 2001	
1. Minimum	(Biere 1-22C)		
2. Average	No Injection	No Injection	
3. Maximum			
Injection Rate (Gal/Min)			
1. Minimum			
2. Average			
3. Maximum			
Annular Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Volume (Gal)			
1. Monthly Total			
2. Yearly Cumulative			
Temperature (F°)			
1. Minimum			
2. Average			
3. Maximum			
pH			
1. Minimum			
2. Average			
3. Maximum			
Other Drilling & Completing Injection Wells-August-Sept,2001			

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Name and Address of Permittee		Permit Number
Pioneer Natural Resources USA, Inc.		MT 5913-00-000
Name and Official Title *(Please type or print)*	Signature	Date Signed
Wilbur Dover-Manager Oper. Servs.	Wilbur L. Dover	9-25-01

EPA Form 7520-8 (2-84)

Form Approved. OMB No. 2060-0042

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

COMPLETION FORM FOR INJECTION WELLS

ADMINISTRATIVE INFORMATION

1. Permittee

Pioneer Natural Resources USA, Inc.

Address *(Permanent Mailing Address) (Street, City, State, and ZIP Code)*

5205 N. O'Connor Blvd., Ste. 1400
Irving, Texas 75039

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Office of Enforcement
Compliance & Environmental

2. Operator

Pioneer Natural Resources USA, Inc.

Address *(Street, City, State, and ZIP Code)*

SAME

3. Facility Name	**Telephone Number**
Biere 1-22C Injection Well	972-969-3920

Address *(Street, City, State, and ZIP Code)*

SAME

4. Surface Location Description of Injection Well(s)

State	**County**
Montana	Roosevelt

¼ of	**¼ of**	**¼ section**
NW	SW	22

Township	**Range**
28N	51E

Feet from (N/S)	**Line of quarter section and**
~~1873~~ 1973'	22

Feet from (E/W)	**Line of quarter section**
644'	22

Submit with this Completion Form the attachments listed in *Attachments for Completion Form.*

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur Dover-Operations Services	Wilbur L. Dover	9-25-01

CONTINUED ON REVERSE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

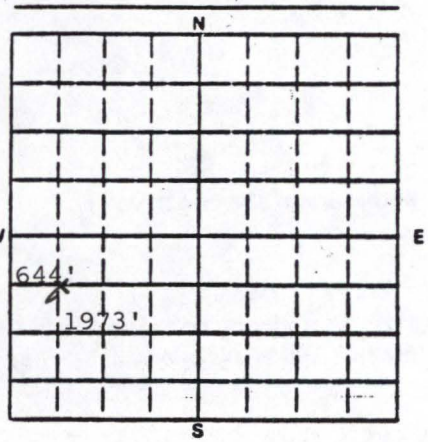
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042

NAME AND ADDRESS OF EXISTING PERMITTEE
Pioneer Natural Resources USA, Inc.
5205 N. O'Connor Blvd., Ste 1400
Irving, Texas 75039

NAME AND ADDRESS OF SURFACE OWNER
Lyle Lockman
5715 Road 75
Poplar, MT 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



Section 22

STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 5913-00000

SURFACE LOCATION DESCRIPTION
NW 1/4 of SW 1/4 of — 1/4 of — 1/4 of Section 22 Township 28N Range 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 1973 ft. from (N/S) S Line of quarter section
and 644 ft. from (E/W) W Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☒ Area
- Number of Wells 3

Class V Emergency

Estimated Fracture Pressure of Injection Zone
455 PSI

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average To Be Determined	Maximum 5,160	Feet 697	to Feet 844

Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average To Be Determined	Maximum 455 PSI	±65

Type of Injection Fluid *(Check the appropriate block(s))*
- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☒ Other Injectrol "U"

Lease Name Biere
Well Number 1-22C
Name of Injection Zone Judith River

Date Drilling Began 8-27-01
Date Well Completed 9-6-01
Permeability of Injection Zone N/A
Date Drilling Completed 9-4-01
Porosity of Injection Zone N/A

CASING AND TUBING				CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used		Depth	Sacks	Class	Depth	Bit Diameter
13 3/8"	54.5#/ft.J-55 STC	New	58.9'	175 SXS	Class"G"w/2%CaCl2	59'	17 1/2"
9 5/8"	36#/ft J-55 STC	New	240.72'	200 SXS	Class"G"w/2%CaCl2	255'	12 1/4"
5 1/2"	15.5#/ft J-55 LTC	New	679.10	250 SXS	Class"G"w/2%CaCl2	697'	8 3/4"

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals
	None To Date		

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Complete Attachments A — E listed on the reverse.

CERTIFICATION

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NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED
Wilbur L. Dover Manager-Operations Services	Wilbur L. Dover	9-27-01

EPA Form 7520-10

ATTACHMENTS

A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.

B. Describe the method and results of mechanical integrity testing.

C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection and adjacent formations.

D. Present the status of corrective action on defective wells in the area of review.

E. Provide to EPA, with the completion report, one final print of all geophysical logs run.

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated at an average of 4 hours per well, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Form Approved. OMB No. 2040-0042.

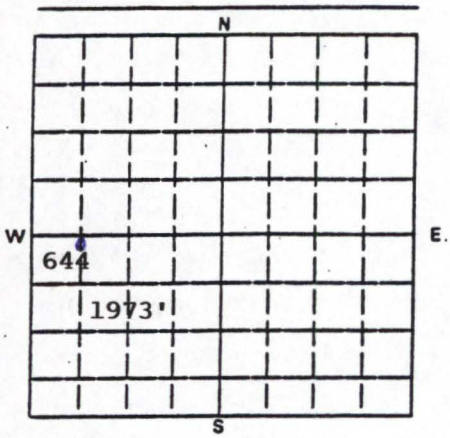
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE
Pioneer Natural Resources USA, Inc.
5205 N. O'Connor, Ste 1400
Irving, Tx. 75039

NAME AND ADDRESS OF SURFACE OWNER
Lyle Lockman 5715 Road 75
Poplar, Montana 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 5913-00000

SURFACE LOCATION DESCRIPTION
NW 1/4 of SW 1/4 of ___ 1/4 of ___ 1/4 of Section 22 Township 28N Range 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1973 ft. from (N/S) ___ Line of quarter section 22

and 644 ft. from (E/W) ___ Line of quarter section 22

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☐ Area

Number of Wells 3 Class V Remediation Project

XInjectrol "U" Sealant

Lease Name Biere Well Number 1-22C

MONTH	YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG
INJECTION OF INJECTROL "U" HAS NOT COMMENCED AS OF 9-30-01							

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CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur Dover Manager-Operations Services	Wilbur L. Dover	9-25-01

EPA Form 7520-11

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

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EPA Witness: _____ Date: 9 / 21 / 01
Test conducted by: GARY COOPER
Others present: Larry POFF

Well Name: BIERE 1-22C Type: ER SWD Status: AC TA UC
Field: SE POPLAR
Location: SW, NW Sec: 22 T 28 (N)/S R 51 (E)/W County: ROOSEVELT State: MT
Operator: PIONEER NATURAL RESOURCES
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: -0- psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	270 psig	psig	psig
End of test pressure	266 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	549 psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	549 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Larry Poff

Telephone (701) 572-2155
Fax (701) 572-0664
Wireline Fax (701) 572-9616
US Watts 1-800-437-2075
wiscowl@epicinc.net

P.O. Box 2477
Highway 2 North
Williston, North Dakota 58802-2477

Wireline Service

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

ELECTRONIC PRESSURE and TEMPERATURE DATA

Company: Pioneer Natural Resources
Well Name & No.: Biere 1-22C
Field: n/a
County: Roosevelt
State: Montana
Company Rep: Rusty Cooper
Test Operators: Kevin D. H. and Kevin L. H.
Perforations: n/a
Tbg Pressure: 252 PSIa at Start of Test
Tbg. Size: n/a
Depth of Tbg. n/a

Test Date: September 21, 2001
Type of Test: Static BHP & Gradients
Well Status: Shut In
Recorder: Bottom Probe R-63
Probe Run Depth: 800' G/L
Time on Bottom: 12:34 pm MT 09/21/01
Time off Bottom: 12:39 pm MT 09/21/01
Temperature: 119 Deg F.
Tool Zero Point: Wireline G/L
Comments: Gradients Calculated from Stops Made while Tripping in the Hole.

Depth (Feet)	*Pressure (PSIa)*	*Press. Gradients*	*Temperature (Deg F)*	*Temp. Gradients*
Initial Surface	252	----	80	----
300	330	0.260	110	0.100
500	416	0.430	114	0.020
700	502	0.430	117	0.015
800	546	0.440	119	0.020

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Company	Pioneer Natural Resources
Well	Biere #1-22C
Location	Roosevelt Co., Montana
Test Date(s)	September 21st, 2001
Service Company	WISCO Wireline Service
Probe Number	Bottom Probe R-63
Probe Run Depth	800' G/L
Probe Start Time	Friday September 21, 2001 at 12:04:52 MT

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Compliance & Environmental

Services Performed by Kevin D. Hammer and Kevin L. Hammer

Index	Date	World Time	Cum.Time HR	Pressure PSIA	Temperature DEG F	
1	2001/09/21	12:04:52	0.0000	14.692	77.84	Engaged the Probe
2	2001/09/21	12:05:07	0.0042	14.692	77.83	
3	2001/09/21	12:05:22	0.0083	14.692	77.81	
4	2001/09/21	12:05:37	0.0125	14.692	77.83	
5	2001/09/21	12:05:52	0.0167	14.692	77.89	
6	2001/09/21	12:06:07	0.0208	14.692	77.97	
7	2001/09/21	12:06:22	0.0250	14.692	78.05	
8	2001/09/21	12:06:37	0.0292	14.692	78.14	
9	2001/09/21	12:06:52	0.0333	14.692	78.23	
10	2001/09/21	12:07:07	0.0375	19.193	78.33	
11	2001/09/21	12:07:22	0.0417	232.777	78.39	Initial Surface
12	2001/09/21	12:07:37	0.0458	238.209	78.50	
13	2001/09/21	12:07:52	0.0500	241.802	78.62	
14	2001/09/21	12:08:07	0.0542	244.229	78.73	
15	2001/09/21	12:08:22	0.0583	245.992	78.85	
16	2001/09/21	12:08:37	0.0625	247.330	78.97	
17	2001/09/21	12:08:52	0.0667	248.334	79.09	
18	2001/09/21	12:09:07	0.0708	249.085	79.20	
19	2001/09/21	12:09:22	0.0750	249.690	79.31	
20	2001/09/21	12:09:37	0.0792	250.153	79.41	
21	2001/09/21	12:09:52	0.0833	250.511	79.51	
22	2001/09/21	12:10:07	0.0875	250.764	79.61	
23	2001/09/21	12:10:22	0.0917	250.983	79.70	
24	2001/09/21	12:10:37	0.0958	251.163	79.79	
25	2001/09/21	12:10:52	0.1000	251.273	79.87	
26	2001/09/21	12:11:07	0.1042	251.373	79.96	
27	2001/09/21	12:11:22	0.1083	251.480	80.04	
28	2001/09/21	12:11:37	0.1125	251.536	80.12	
29	2001/09/21	12:11:52	0.1167	251.540	80.19	
30	2001/09/21	12:12:07	0.1208	251.611	80.27	
31	2001/09/21	12:12:22	0.1250	251.381	80.34	Tripped In the Hole
32	2001/09/21	12:12:37	0.1292	249.687	80.43	
33	2001/09/21	12:12:52	0.1333	248.446	80.77	
34	2001/09/21	12:13:07	0.1375	248.240	81.69	
35	2001/09/21	12:13:22	0.1417	261.749	83.30	
36	2001/09/21	12:13:37	0.1458	274.217	85.78	

37	2001/09/21	12:13:52	0.1500	287.224	88.44	
38	2001/09/21	12:14:07	0.1542	299.802	90.95	
39	2001/09/21	12:14:22	0.1583	312.614	93.19	
40	2001/09/21	12:14:37	0.1625	325.478	95.14	
41	2001/09/21	12:14:52	0.1667	330.048	96.84	300' Gradient Stop
42	2001/09/21	12:15:07	0.1708	330.222	98.31	
43	2001/09/21	12:15:22	0.1750	330.259	99.61	
44	2001/09/21	12:15:37	0.1792	330.189	100.75	
45	2001/09/21	12:15:52	0.1833	330.078	101.78	
46	2001/09/21	12:16:07	0.1875	329.988	102.70	
47	2001/09/21	12:16:22	0.1917	329.926	103.54	
48	2001/09/21	12:16:37	0.1958	329.846	104.30	
49	2001/09/21	12:16:52	0.2000	329.812	105.00	
50	2001/09/21	12:17:07	0.2042	329.762	105.65	
51	2001/09/21	12:17:22	0.2083	329.717	106.25	
52	2001/09/21	12:17:37	0.2125	329.700	106.81	
53	2001/09/21	12:17:52	0.2167	329.680	107.33	
54	2001/09/21	12:18:07	0.2208	329.665	107.81	
55	2001/09/21	12:18:22	0.2250	329.653	108.28	
56	2001/09/21	12:18:37	0.2292	329.635	108.70	
57	2001/09/21	12:18:52	0.2333	329.633	109.10	
58	2001/09/21	12:19:07	0.2375	329.638	109.47	
59	2001/09/21	12:19:22	0.2417	329.613	109.83	.260 Static Gradient
60	2001/09/21	12:19:37	0.2458	329.628	110.16	
61	2001/09/21	12:19:52	0.2500	329.723	110.47	End of Gradient Stop
62	2001/09/21	12:20:07	0.2542	339.311	110.77	
63	2001/09/21	12:20:22	0.2583	352.939	111.02	
64	2001/09/21	12:20:37	0.2625	367.116	111.23	
65	2001/09/21	12:20:52	0.2667	382.463	111.39	
66	2001/09/21	12:21:07	0.2708	398.015	111.52	
67	2001/09/21	12:21:22	0.2750	412.628	111.65	
68	2001/09/21	12:21:37	0.2792	415.778	111.78	500' Gradient Stop
69	2001/09/21	12:21:52	0.2833	415.895	111.91	
70	2001/09/21	12:22:07	0.2875	415.931	112.04	
71	2001/09/21	12:22:22	0.2917	415.951	112.16	
72	2001/09/21	12:22:37	0.2958	415.900	112.29	
73	2001/09/21	12:22:52	0.3000	415.866	112.41	
74	2001/09/21	12:23:07	0.3042	415.872	112.52	
75	2001/09/21	12:23:22	0.3083	415.852	112.63	
76	2001/09/21	12:23:37	0.3125	415.830	112.73	
77	2001/09/21	12:23:52	0.3167	415.792	112.84	
78	2001/09/21	12:24:07	0.3208	415.790	112.93	
79	2001/09/21	12:24:22	0.3250	415.796	113.03	
80	2001/09/21	12:24:37	0.3292	415.771	113.12	
81	2001/09/21	12:24:52	0.3333	415.764	113.21	
82	2001/09/21	12:25:07	0.3375	415.770	113.29	
83	2001/09/21	12:25:22	0.3417	415.763	113.37	
84	2001/09/21	12:25:37	0.3458	415.745	113.44	
85	2001/09/21	12:25:52	0.3500	415.760	113.51	.430 Static Gradient
86	2001/09/21	12:26:07	0.3542	415.751	113.58	
87	2001/09/21	12:26:22	0.3583	415.764	113.65	
88	2001/09/21	12:26:37	0.3625	415.735	113.71	End of Gradient Stop
89	2001/09/21	12:26:52	0.3667	418.353	113.77	
90	2001/09/21	12:27:07	0.3708	432.635	113.82	
91	2001/09/21	12:27:22	0.3750	447.536	113.89	
92	2001/09/21	12:27:37	0.3792	463.094	114.00	
93	2001/09/21	12:27:52	0.3833	477.947	114.13	
94	2001/09/21	12:28:07	0.3875	493.488	114.29	

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95	2001/09/21	12:28:22	0.3917	502.310	114.48	700' Gradient Stop
96	2001/09/21	12:28:37	0.3958	502.519	114.67	
97	2001/09/21	12:28:52	0.4000	502.609	114.86	
98	2001/09/21	12:29:07	0.4042	502.649	115.06	
99	2001/09/21	12:29:22	0.4083	502.613	115.25	
100	2001/09/21	12:29:37	0.4125	502.582	115.44	
101	2001/09/21	12:29:52	0.4167	502.579	115.62	
102	2001/09/21	12:30:07	0.4208	502.559	115.81	
103	2001/09/21	12:30:22	0.4250	502.532	115.97	
104	2001/09/21	12:30:37	0.4292	502.523	116.14	
105	2001/09/21	12:30:52	0.4333	502.499	116.29	
106	2001/09/21	12:31:07	0.4375	502.492	116.43	
107	2001/09/21	12:31:22	0.4417	502.487	116.58	
108	2001/09/21	12:31:37	0.4458	502.469	116.72	
109	2001/09/21	12:31:52	0.4500	502.453	116.85	
110	2001/09/21	12:32:07	0.4542	502.445	116.97	
111	2001/09/21	12:32:22	0.4583	502.447	117.08	.430 Static Gradient
112	2001/09/21	12:32:37	0.4625	502.427	117.20	
113	2001/09/21	12:32:52	0.4667	502.409	117.31	
114	2001/09/21	12:33:07	0.4708	502.414	117.41	End of Gradient Stop
115	2001/09/21	12:33:22	0.4750	502.587	117.51	
116	2001/09/21	12:33:37	0.4792	511.348	117.60	
117	2001/09/21	12:33:52	0.4833	520.945	117.69	
118	2001/09/21	12:34:07	0.4875	530.900	117.78	
119	2001/09/21	12:34:22	0.4917	541.152	117.87	
120	2001/09/21	12:34:37	0.4958	546.093	117.97	Initial 800' Gradient Stop
121	2001/09/21	12:34:52	0.5000	546.259	118.07	
122	2001/09/21	12:35:07	0.5042	546.305	118.16	
123	2001/09/21	12:35:22	0.5083	546.339	118.26	
124	2001/09/21	12:35:37	0.5125	546.335	118.36	
125	2001/09/21	12:35:52	0.5167	546.337	118.45	
126	2001/09/21	12:36:07	0.5208	546.303	118.53	
127	2001/09/21	12:36:22	0.5250	546.307	118.61	
128	2001/09/21	12:36:37	0.5292	546.282	118.68	
129	2001/09/21	12:36:52	0.5333	546.258	118.76	
130	2001/09/21	12:37:07	0.5375	546.223	118.82	
131	2001/09/21	12:37:22	0.5417	546.238	118.89	
132	2001/09/21	12:37:37	0.5458	546.225	118.95	
133	2001/09/21	12:37:52	0.5500	546.179	119.01	.440 Static Gradient
134	2001/09/21	12:38:07	0.5542	546.212	119.07	
135	2001/09/21	12:38:22	0.5583	546.190	119.13	
136	2001/09/21	12:38:37	0.5625	546.171	119.18	
137	2001/09/21	12:38:52	0.5667	546.177	119.23	
138	2001/09/21	12:39:07	0.5708	546.178	119.29	
139	2001/09/21	12:39:22	0.5750	546.173	119.34	Final 800' Gradient Stop
140	2001/09/21	12:39:37	0.5792	546.138	119.37	Tripped Out of the Hole
141	2001/09/21	12:39:52	0.5833	543.738	119.42	
142	2001/09/21	12:40:07	0.5875	521.383	119.46	
143	2001/09/21	12:40:22	0.5917	505.739	119.50	
144	2001/09/21	12:40:37	0.5958	489.794	119.54	
145	2001/09/21	12:40:52	0.6000	473.089	119.57	
146	2001/09/21	12:41:07	0.6042	457.620	119.60	
147	2001/09/21	12:41:22	0.6083	421.331	119.63	
148	2001/09/21	12:41:37	0.6125	367.421	119.62	
149	2001/09/21	12:41:52	0.6167	314.127	119.53	
150	2001/09/21	12:42:07	0.6208	265.856	119.47	

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151	2001/09/21	12:42:22	0.6250	251.514	120.05	
152	2001/09/21	12:42:37	0.6292	252.943	121.51	
153	2001/09/21	12:42:52	0.6333	253.708	123.18	Final Surface
154	2001/09/21	12:43:07	0.6375	252.923	124.82	
155	2001/09/21	12:43:22	0.6417	252.939	126.38	
156	2001/09/21	12:43:37	0.6458	223.538	127.80	Bled Down the Lubricator
157	2001/09/21	12:43:52	0.6500	20.106	129.10	
158	2001/09/21	12:44:07	0.6542	15.779	130.12	
175	2001/09/21	12:48:22	0.7250	15.313	132.37	
176	2001/09/21	12:48:37	0.7292	15.161	132.15	End of Test data

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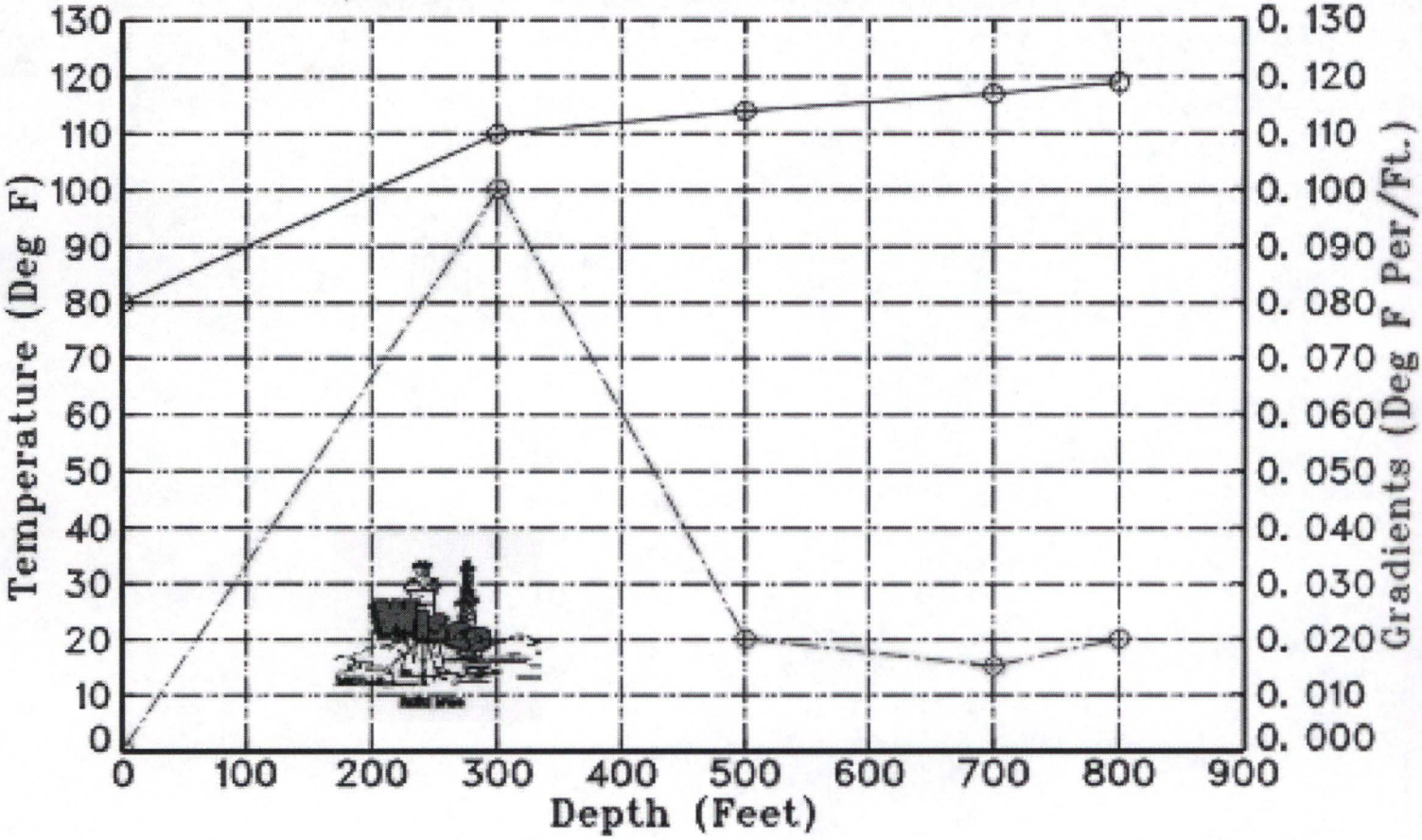
Auditing

Pioneer Natural Resources., Biere 1-22C

Elec. Temperature Gradients, Bottom Probe R-63



ZEROGRAPH 3.1b8 for Wilco Wireline, Williston N.D. Sept. 25, 2001 08:02:18

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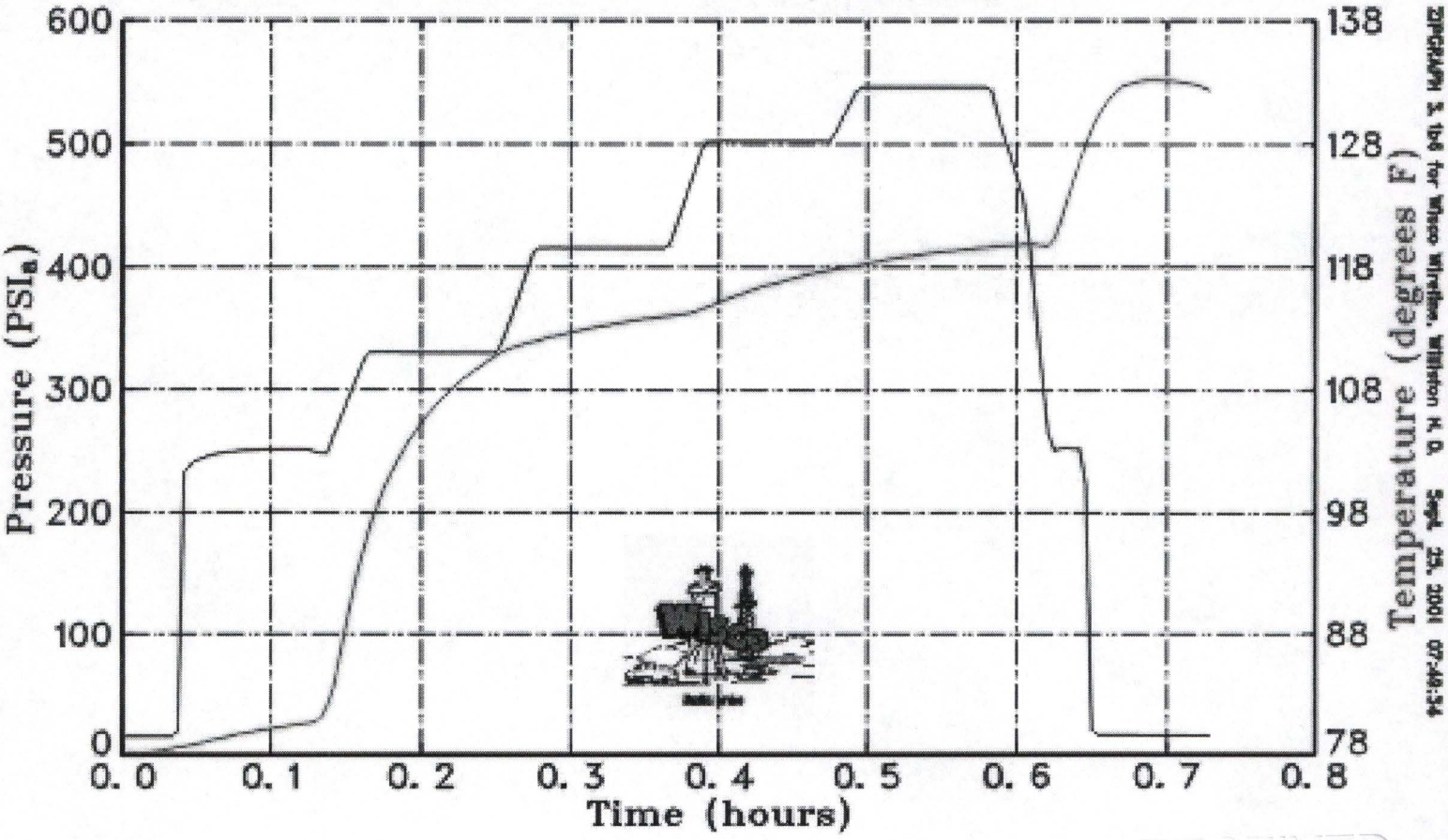
Pioneer Natural Resources, Biere 1-22C

Elec. Static BHP & Gradients, Bottom Probe R-63



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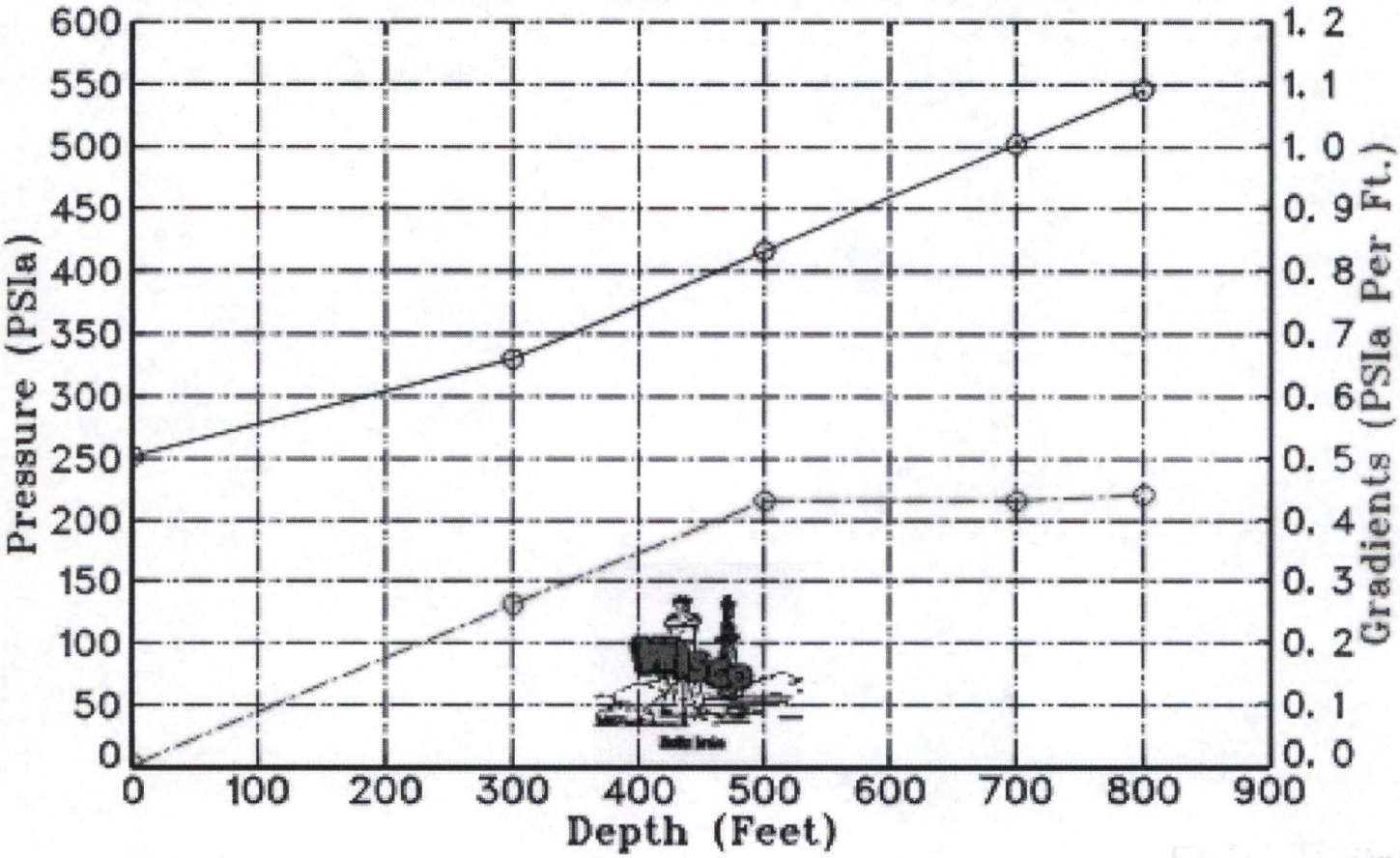
Pioneer Natural Resources, Biere 1-22C

Elec. Pressure Gradients, Bottom Probe R-63



ZZPC64.PH 3.tbl for Wisco Wireline, Williston N.D. Sept. 25, 2001 07:34:38

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Telephone (701) 572-2135
Fax (701) 572-9616
Wireline E-Mail wiscowl@epicinc.net
US Watts 1-800-437-2075

Wireline Service

JOB NAME: Bier 122 C

Co. E-Mail Address:

Copies To:

PO Box 2477
Highway 2, North
Williston, North Dakota 58801

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

Company: Pioneer Natural Resources Test Start Date: 9-21-2001

Well Name and Number: Biere #1-22C Co. Rep: Rusty

Field: County: Roosevelt State: MT

Type of Test: BHP/BHT Well Status: Perfs:

Test Operators: Ronin H. Starting TBG Press:

Top Gauge #: 17900 Engage Time: CT/MT Disengage:

Bottom Gauge #: L63 Engage Time: 12:03:47 CT/MT Disengage: 12:48:40

Pressured up: 12:02:10 Tripped in Hole: 12:12:10 On Bottom: 12:34:35 Shut In:

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Grad. Stops	World Time	Top Gauge Pressure	Grad.	Temp.	Bottom Gauge Pressure	Grad.	Temp.
Surface	12:07:10-12:12:10				252		80
300	12:14:45-12:19:45				330	.260	110
500	12:21:30-12:26:30				416	.430	114
700	12:28:20-12:33:20				503	.430	117
800	12:34:35-12:39:35				546	.440	119

Ending Surface Press: Pressured up: TIH to Fish:

BHP's Off Bottom: 12:39:35 Back @ Surface: 12:42:50 Bled Down Press: 12:43:35

Run Depth: 800' Datum Depth: Ending Test Date:

Top Data Points: Rem. Amp Hrs: Alarms: Max Temp:

Bot Data Points: 176 Rem. Amp Hrs: 7.878 Alarms: Max Temp:

WELL LOCATION PLAT

PIONEER NATURAL RESOUCES INC., 5205 O'CONNER BLVD, IRVING, TX 75039-3746
BIERE 22-ID
1984 feet from South line, 634 feet from West line
Section 22, Township 28 North, Range 51 East P.M.M.
Roosevelt County, Montana

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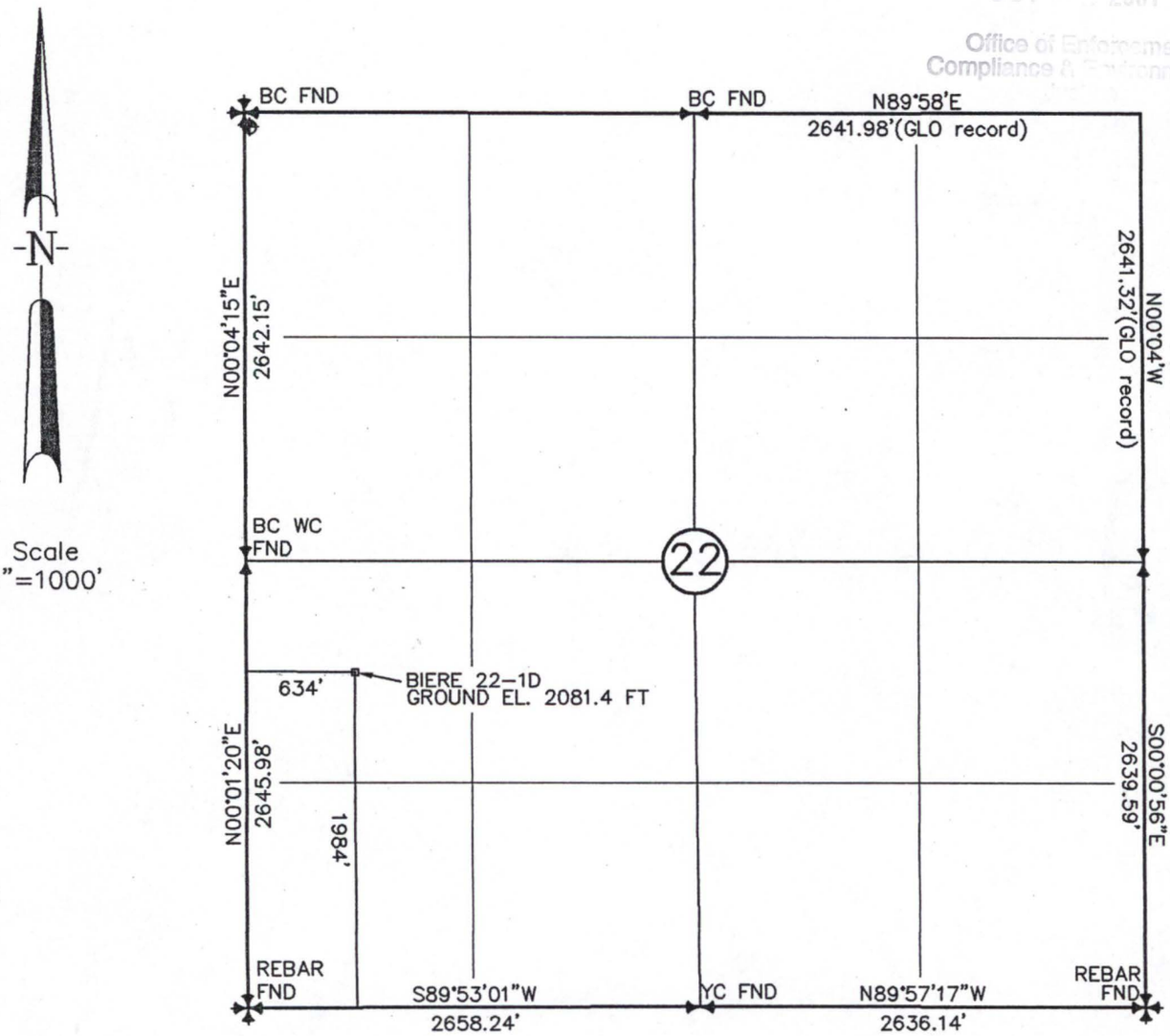

APR 2001
Received
Board of Oil & Gas Cons.
State of MT / Billings

Authorized by:

_____

_____

I, Jimmie L. Brewer, certify that this plat correctly represents work performed by me or under my responsible charge, and is true and correct to the best of my knowledge and belief.

MONTANA
JIMMIE L. BREWER
7155 S
REGISTERED
PROFESSIONAL LAND SURVEYOR

Jimmie L. Brewer, PLS
Montana licence No. 7155LS

Date Staked 4-25-2001

Basis of Vertical Datum
USGS BM B 544

HKM ENGINEERING
215 S. Lake
Miles City, Mt 59301
406/232-6666

Biere 1-22D
SW Poplar Field
Roosevelt Co, Montana

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Wellbore schematic 9-24-01
Remedial Well

Chronology of significant events:

Drilled to 62'

Ran 13 3/8" and cmt w/ 200 sx – circ to surf

Drilled to 130' well began flowing salt water at 72' at 2 bpm and continued throughout

Squeeze with 2000 sx Class G followed by 150 sx Class G + 2% CaCl

Drill out of cmt at 70' – flow at 2 bpm

Squeeze with 550 sx Class G followed by 150 sx Class G + 2% CaCl

Drill out of cmt at 70' – flow at 2 bpm

Squeeze with 550 sx Class G followed by 150 sx Class G + 2% CaCl

Drill out of cmt at 70' – flow at 2 bpm

Squeeze with 700 sx Class G + 2% CaCl

Drill out of cmt at 76' – flow at 1 - 1 1/2 bpm

Squeeze with 500 sx Class G + 3% CaCl + 35% Silica Flour + 1/4 #/sx celloflake

Squeeze with 500 sx Class G + 3% CaCl + 35% Silica Flour + 1/4 #/sx celloflake

Squeeze with 280 sx Class G + 3% CaCl + 35% Silica Flour + 1/4 #/sx celloflake cement breached to surface

Drill out of cmt at 76' – flow at 1 - 1 1/2 bpm

Squeeze with 500 sx Class G + 3% CaCl + 35% Silica Flour + 1/4 #/sx celloflake

Squeeze with 200 sx Class G + 3% CaCl + 35% Silica Flour + 1/4 #/sx celloflake follow w/ 300 sx Class G + 3% CaCl + 1/4 #/sx celloflake

Squeeze with 500 sx Class G + 3% CaCl + 1/4 #/sx celloflake

Drilled out good cmt to 85', ratty cmt below, flow began at 100', continue drilling to 255'

Ran 9 5/8" and cmt w/ 150 sx – circ to surf

Hole unloaded and flowing 30 - 40 bph

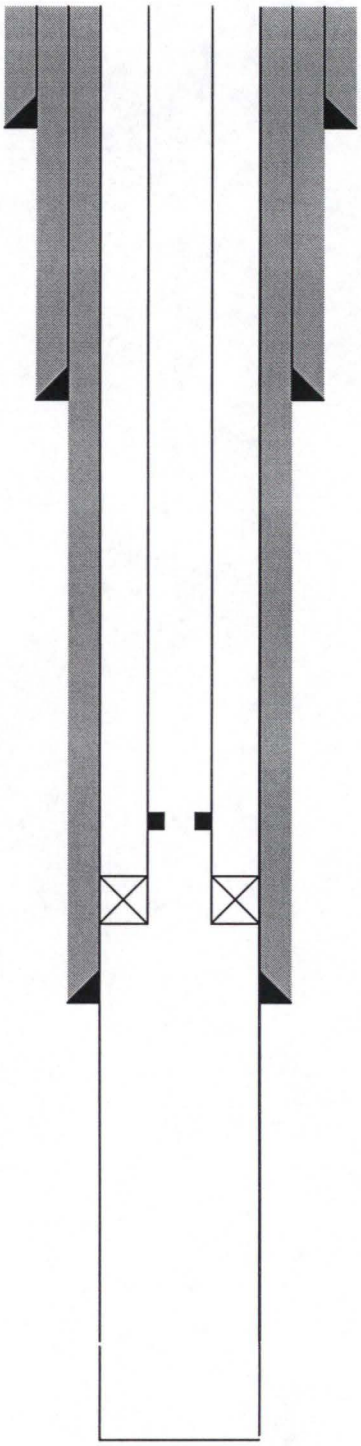
Squeeze behind 9 5/8" w/ 200 sx

Drilled to 700' – no flow

Ran and cmt 5 1/2" casing – circ to surf

Drilled to 729' – no flow

Ran packer and tubing



MBOGC permit # 17383

KB elev.	2090'
GL elev.	2081'

2 7/8", 6.5#, J55, 8rd EUE tubing as follows:

ITEM	LENGTH(ft)	DEPTH(ft)
20 jts tbg	630.26	6.00
2.25" F nipple	1.02	636.26
1 - pup	6.19	637.28
Baker size 45	4.43	643.47
J-Lok packer		
Total	641.90	
End of Tubing		647.90

13 3/8", 54.50#, J55, STC casing @ 49.72'

TOC - surface

9 5/8", 36#, J55, STC casing @ 244.33'

TOC @ surface

5 1/2", 15.50#, J55 LTC casing @ 696.85'

TOC @ surface

4 3/4" open hole to 729'

GRC

9/24/01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

INJECTION WELL MONITORING REPORT

Form Approved
OMB No. 2000-0042

YEAR 2001	MONTH	MONTH	MONTH
Injection Pressure (PSI)	August, 2001	September, 2001	
1. Minimum	(Biere 1-22D)		
2. Average	No Injection	No Injection	
3. Maximum			
Injection Rate (Gal/Min)			
1. Minimum			
2. Average			
3. Maximum			
Annular Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Volume (Gal)			
1. Monthly Total			
2. Yearly Cumulative			
Temperature (F°)			
1. Minimum			
2. Average			
3. Maximum			
pH			
1. Minimum			
2. Average			
3. Maximum			
Other Activities For Aug & Sept 2001; Drilling & Completing Injection Wells			

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Name and Address of Permittee		Permit Number
Pioneer Natural Resources USA, Inc.		MT 5913-00000
Name and Official Title *(Please type or print)*	Signature	Date Signed
Wilbur L. Dover-MGR, Oper. Servs	Wilbur L. Dover	9-26-01

EPA Form 7520-8 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

COMPLETION FORM FOR INJECTION WELLS

ADMINISTRATIVE INFORMATION

1. Permittee

Pioneer Natural Resources USA, Inc.

Address *(Permanent Mailing Address) (Street, City, State, and ZIP Code)*

5205 N. O'Connor Blvd., Ste. 1400
Irving, Texas 75039

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OCT 2001
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Compliance & Environmental

2. Operator

Pioneer Natural Resources USA, Inc.

Address *(Street, City, State, and ZIP Code)*

SAME

3. Facility Name	**Telephone Number**
Biere 1-22D (Injection Well)	972-969-3920

Address *(Street, City, State, and ZIP Code)*

SAME

4. Surface Location Description of Injection Well(s)

State	**County**
Montana	Roosevelt

¼ of	**¼ of**	**¼ section**
NW	SW	22

Township	**Range**
28N	51E

Feet from (N/S)	**Line of quarter section and**
1984	22

Feet from (E/W)	**Line of quarter section**
634	22

Submit with this Completion Form the attachments listed in ***Attachments for Completion Form.***

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur L. Dover-Manager Oper.Servs.	Wilbur L. Dover	9-26-01

CONTINUED ON REVERSE

Attachments to be submitted with the Completion report:

I. Geologic Information

1. Lithology and Stratigraphy

A. Provide a geologic description of the rock units penetrated by name, age, depth, thickness, and lithology of each rock unit penetrated.

B. Provide a description of the injection unit.

(1) Name
(2) Depth (drilled)
(3) Thickness
(4) Formation fluid pressure
(5) Age of unit
(6) Porosity (avg.)
(7) Permeability
(8) Bottom hole temperature
(9) Lithology
(10) Bottom hole pressure
(11) Fracture pressure

C. Provide chemical characteristics of formation fluid (attach chemical analysis).

D. Provide a description of freshwater aquifers.

(1) Depth to base of fresh water (less than 10,000 mg/1 TDS).

(2) Provide a geologic description of aquifer units with name, age, depth, thickness, lithology, and average total dissolved solids.

II. Well Design and Construction

1. Provide data on surface, intermediate, and long string casing and tubing. Data must include material, size, weight, grade, and depth set.

2. Provide data on the well cement, such as type/class, additives, amount, and method of emplacement.

3. Provide packer data on the packer (if used) such as type, name and model, setting depth, and type of annular fluid used.

4. Provide data on centralizers to include number, type and depths.

5. Provide data on bottom hole completions.

6. Provide data on well stimulation used.

III. Description of Surface Equipment

1. Provide data and a sketch of holding tanks, flow lines, filters, and injection pump

IV. Monitoring Systems

1. Provide data on recording and nonrecording injection pressure gauges, casing-tubing annulus pressure gauges, injection rate meters, temperature meters, and other meters or gauges.

2. Provide data on constructed monitor wells such as location, depth, casing diameter, method of cementing, etc.

V. Logging and Testing Results

Provide a descriptive report interpreting the results of geophysical logs and other tests. Include a description and data on deviation checks run during drilling.

VI. Provide an as-built diagrammatic sketch of the injection well(s) showing casing, cement, tubing, packer, etc., with proper setting depths. The sketch should include well head and gauges.

VII. Provide data demonstrating mechanical integrity pursuant to 40 CFR 146.08.

VIII. Report on the compatibility of injected wastes with fluids and minerals in both the injection zone and the confining zone.

IX. Report the status of corrective action on defective wells in the area of review.

X. Include the anticipated maximum pressure and flow rate at which injection will operate.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

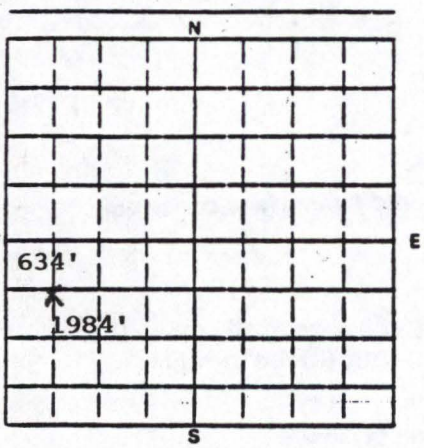
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042

NAME AND ADDRESS OF EXISTING PERMITTEE
Pioneer Ntural Resources USA, Inc.
5205 N. O'Connor Blvd. Ste. 1400
Irving, Texas 75039

NAME AND ADDRESS OF SURFACE OWNER
Lyle Lockman
5715 Road 75
Poplar, MT. 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



SECTION 22

STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 5913-00000

SURFACE LOCATION DESCRIPTION
NW 1/4 of SW 1/4 of — 1/4 of — 1/4 of Section 22 Township 28N Range 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1984 ft. from (N/S) S Line of quarter section

and 634 ft. from (E/W) W Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☒ Area
- Number of Wells 3

Class V Emergency

Estimated Fracture Pressure of Injection Zone 455 PSI

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average To Be Determined	Maximum 5,160 BBLS	Feet 697	to Feet 729
Anticipated Daily Injection Pressure (PSI)		**Depth to Bottom of Lowermost Freshwater Formation (Feet)**	
Average To BE Determined	Maximum 455 PSI	±65'	

Type of Injection Fluid *(Check the appropriate block(s))*
- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☒ Other Injectrol "U"

Lease Name Biere
Well Number 1-22D

Name of Injection Zone Judith River

Date Drilling Began 9-7-01
Date Well Completed 9-18-01
Permeability of Injection Zone N/A
Date Drilling Completed 9-17-01
Porosity of Injection Zone N/A

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CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter
13 3/8"	54.50#/ft.J55STC-New	49.72'	200 SXS.	Class"G"w/2%CaCl2	62'	17 1/2"
9 5/8"	36#/ft.J55 STC-New	244.33'	150 SXS.	Class"G"w/2%CaCl2	255'	12 1/4"
5 1/2"	15.5#/ft, J55 LTC-New	696.85	150 SXS.	Class"G"w/2%CaCl2	700'	8 3/4"

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED
Wilbur L. Dover Manager-Operations Services	Wilbur L. Dover	9-27-01

EPA Form 7520-10

ATTACHMENTS

A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.

B. Describe the method and results of mechanical integrity testing.

C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection and adjacent formations.

D. Present the status of corrective action on defective wells in the area of review.

E. Provide to EPA, with the completion report, one final print of all geophysical logs run.

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated at an average of 4 hours per well, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Form Approved. OMB No. 2040-0042.

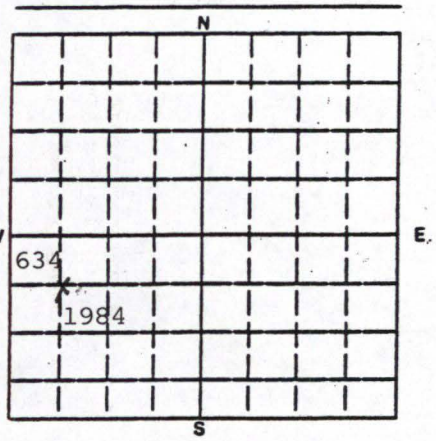
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE
Pioneer Natural Resources USA, Inc.
5205 N. O'Connor, Ste. 1400
Irving, Texas 75039

NAME AND ADDRESS OF SURFACE OWNER
Lyle Lockman
5715 Road 75
Poplar, Montana 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
TX	Roosevelt	MT 5913-00000

SURFACE LOCATION DESCRIPTION
MT 1/4 of SW 1/4 of ___ 1/4 of ___ 1/4 of Section 22 Township 28N Range 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1984 ft. from (N/S) S Line of quarter section 22

and 634 ft. from (E/W) W Line of quarter section 22

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☐ Area
- Number of Wells 3

Emergency Permit
Class V Remediation Project

X Injectrol "U" Sealant

Lease Name Biere Well Number 1-22D

MONTH YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG
INJECTION OF INJECTROL "U" SEALANT HAS NOT COMMENCED AS OF 9-30-01						

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Office of Enforcement Compliance & Environmental

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Wilbur L. Dover Manager-Operations Services	Wilbur L. Dover	9-25-01

EPA Form 7520-11

PAPERWORK REDUCTION ACT NOTICE

Public reporting burden for this collection of information is estimated at an average of 16 hours per operator, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency 401 M Street, SW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

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Office of Enforcement
Compliance & Environmental

EPA Witness: _____ Date: 9/21/01
Test conducted by: Gary Cooper
Others present: Larry Poff

Well Name: Biere 1-22D Type: ER SWD Status: AC TA UC
Field: SE Poplar
Location: SW NW Sec: 22 T 28 N/S R 51 E/W County: Roosevelt State: Mt
Operator: Pioneer Natural Resources
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: -0- psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	60 psig	psig	psig
End of test pressure	146 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	517 psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	531 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:
Temp survey showed low temp. Pos inc. Probably from well heating up
Signature of Witness: Larry Poff

Telephone (701) 572-2155
Fax (701) 572-0664
Wireline Fax (701) 572-9616
US Watts 1-800-437-2075
wiscowl@epicinc.net

P.O. Box 2477
Highway 2 North
Williston, North Dakota 58802-2477

Wireline Service

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

ELECTRONIC PRESSURE and TEMPERATURE DATA

Company: Pioneer Natural Resources
Well Name & No.: Biere 1-22D
Field: n/a
County: Roosevelt
State: Montana
Company Rep: Rusty Cooper
Test Operators: Kevin D. H. and Kevin L. H.
Perforations: n/a
Tbg Pressure: 15 PSIa at Start of Test
Tbg. Size: n/a
Depth of Tbg. n/a

Test Date: September 21, 2001
Type of Test: Static BHP & Gradients
Well Status: Shut In
Recorder: Bottom Probe R-63
Probe Run Depth: 700' G/L
Time on Bottom: 14:26 pm MT 09/21/01
Time off Bottom: 14:31 pm MT 09/21/01
Temperature: 121 Deg F.
Tool Zero Point: Wireline G/L
Comments: Gradients Calculated from Stops Made while Tripping in the Hole.

Depth (Feet)	*Pressure (PSIa)*	*Press. Gradients*	*Temperature (Deg F)*	*Temp. Gradients*
Initial Surface	15	----	89	----
300'	147	0.440	121	0.107
500'	234	0.435	121	0.000
700'	322	0.440	121	0.000

RECEIVED
OCT - 1 2001
Office of Enforcement
Compliance & Environmental

Company	Pioneer Natural Resources
Well	Biere #1-22D
Location	Roosevelt Co., Montana
Test Date(s)	September 21, 2001
Service Company	WISCO Wireline Service
Probe Number	Bottom Probe R-63
Probe Run Depth	700' G/L
Probe Start Time	Friday September 21, 2001 at 14:02:09 MT

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Services Performed by Kevin D. Hammer and Kevin L. Hammer

Index	Date	World Time	Cum.Time HR	Pressure PSIA	Temperature DEG F	
1	2001/09/21	14:02:09	0.0000	14.692	86.68	Engaged the Probe
2	2001/09/21	14:02:24	0.0042	14.692	86.72	
3	2001/09/21	14:02:39	0.0083	14.692	86.77	
4	2001/09/21	14:02:54	0.0125	14.692	86.82	
5	2001/09/21	14:03:09	0.0167	14.692	86.91	
6	2001/09/21	14:03:24	0.0208	14.692	87.00	
7	2001/09/21	14:03:39	0.0250	14.692	87.09	
8	2001/09/21	14:03:54	0.0292	14.692	87.17	
9	2001/09/21	14:04:09	0.0333	14.692	87.24	
10	2001/09/21	14:04:24	0.0375	14.692	87.31	
11	2001/09/21	14:04:39	0.0417	14.692	87.40	
12	2001/09/21	14:04:54	0.0458	14.692	87.49	
13	2001/09/21	14:05:09	0.0500	14.692	87.59	Initial Surface
14	2001/09/21	14:05:24	0.0542	14.692	87.70	
15	2001/09/21	14:05:39	0.0583	14.692	87.81	
16	2001/09/21	14:05:54	0.0625	14.692	87.92	
17	2001/09/21	14:06:09	0.0667	14.692	88.03	
18	2001/09/21	14:06:24	0.0708	14.692	88.14	
19	2001/09/21	14:06:39	0.0750	14.731	88.24	
20	2001/09/21	14:06:54	0.0792	14.747	88.34	
21	2001/09/21	14:07:09	0.0833	14.783	88.44	
22	2001/09/21	14:07:24	0.0875	14.829	88.53	
23	2001/09/21	14:07:39	0.0917	14.853	88.63	
24	2001/09/21	14:07:54	0.0958	14.859	88.71	
25	2001/09/21	14:08:09	0.1000	14.916	88.79	
26	2001/09/21	14:08:24	0.1042	14.949	88.87	
27	2001/09/21	14:08:39	0.1083	14.970	88.94	
28	2001/09/21	14:08:54	0.1125	15.017	89.01	
29	2001/09/21	14:09:09	0.1167	15.026	89.08	
30	2001/09/21	14:09:24	0.1208	15.068	89.14	
31	2001/09/21	14:09:39	0.1250	15.098	89.19	
32	2001/09/21	14:09:54	0.1292	15.154	89.24	
33	2001/09/21	14:10:09	0.1333	19.257	89.29	Tripped In the Hole
34	2001/09/21	14:10:24	0.1375	29.687	89.40	
35	2001/09/21	14:10:39	0.1417	42.551	90.02	
36	2001/09/21	14:10:54	0.1458	55.513	91.67	
37	2001/09/21	14:11:09	0.1500	68.256	94.41	
38	2001/09/21	14:11:24	0.1542	82.061	97.86	

39	2001/09/21	14:11:39	0.1583	95.964	101.30	
40	2001/09/21	14:11:54	0.1625	109.042	104.31	
41	2001/09/21	14:12:09	0.1667	121.922	106.93	
42	2001/09/21	14:12:24	0.1708	134.794	109.19	
43	2001/09/21	14:12:39	0.1750	146.957	111.09	
44	2001/09/21	14:12:54	0.1792	147.742	112.63	300' Gradient Stop
45	2001/09/21	14:13:09	0.1833	147.711	113.90	
46	2001/09/21	14:13:24	0.1875	147.579	114.96	
47	2001/09/21	14:13:39	0.1917	147.446	115.85	
48	2001/09/21	14:13:54	0.1958	147.323	116.61	
49	2001/09/21	14:14:09	0.2000	147.279	117.28	
50	2001/09/21	14:14:24	0.2042	147.193	117.86	
51	2001/09/21	14:14:39	0.2083	147.171	118.37	
52	2001/09/21	14:14:54	0.2125	147.160	118.83	
53	2001/09/21	14:15:09	0.2167	147.151	119.24	
54	2001/09/21	14:15:24	0.2208	147.183	119.61	
55	2001/09/21	14:15:39	0.2250	147.197	119.94	
56	2001/09/21	14:15:54	0.2292	147.148	120.24	
57	2001/09/21	14:16:09	0.2333	147.148	120.52	
58	2001/09/21	14:16:24	0.2375	147.161	120.77	
59	2001/09/21	14:16:39	0.2417	147.192	121.00	.440 Static Gradient
60	2001/09/21	14:16:54	0.2458	147.183	121.23	
61	2001/09/21	14:17:09	0.2500	147.215	121.42	
62	2001/09/21	14:17:24	0.2542	147.212	121.61	
63	2001/09/21	14:17:39	0.2583	147.262	121.77	End of Gradient Stop
64	2001/09/21	14:17:54	0.2625	153.516	121.93	
65	2001/09/21	14:18:09	0.2667	167.325	122.06	
66	2001/09/21	14:18:24	0.2708	181.412	122.12	
67	2001/09/21	14:18:39	0.2750	195.926	122.12	
68	2001/09/21	14:18:54	0.2792	210.693	122.09	
69	2001/09/21	14:19:09	0.2833	225.289	122.05	
70	2001/09/21	14:19:24	0.2875	233.378	122.01	500' Gradient Stop
71	2001/09/21	14:19:39	0.2917	233.770	121.95	
72	2001/09/21	14:19:54	0.2958	233.797	121.89	
73	2001/09/21	14:20:09	0.3000	233.839	121.82	
74	2001/09/21	14:20:24	0.3042	233.849	121.76	
75	2001/09/21	14:20:39	0.3083	233.871	121.69	
76	2001/09/21	14:20:54	0.3125	233.874	121.63	
77	2001/09/21	14:21:09	0.3167	233.907	121.57	
78	2001/09/21	14:21:24	0.3208	233.926	121.51	
79	2001/09/21	14:21:39	0.3250	233.956	121.45	
80	2001/09/21	14:21:54	0.3292	233.986	121.39	
81	2001/09/21	14:22:09	0.3333	233.996	121.34	
82	2001/09/21	14:22:24	0.3375	234.022	121.29	.435 Static Gradient
83	2001/09/21	14:22:39	0.3417	234.036	121.24	
84	2001/09/21	14:22:54	0.3458	234.066	121.19	
85	2001/09/21	14:23:09	0.3500	234.100	121.14	
86	2001/09/21	14:23:24	0.3542	234.131	121.10	
87	2001/09/21	14:23:39	0.3583	234.154	121.05	
88	2001/09/21	14:23:54	0.3625	234.188	121.01	
89	2001/09/21	14:24:09	0.3667	234.209	120.97	
90	2001/09/21	14:24:24	0.3708	234.223	120.93	End of Gradient Stop
91	2001/09/21	14:24:39	0.3750	243.966	120.89	
92	2001/09/21	14:24:54	0.3792	257.091	120.86	
93	2001/09/21	14:25:09	0.3833	270.660	120.84	
94	2001/09/21	14:25:24	0.3875	284.442	120.85	
95	2001/09/21	14:25:39	0.3917	298.869	120.87	
96	2001/09/21	14:25:54	0.3958	312.703	120.91	
97	2001/09/21	14:26:09	0.4000	327.315	120.95	

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98	2001/09/21	14:26:24	0.4042	328.832	120.96	
99	2001/09/21	14:26:39	0.4083	322.041	120.96	Initial 700' G/L
100	2001/09/21	14:26:54	0.4125	322.089	120.95	
101	2001/09/21	14:27:09	0.4167	322.087	120.94	
102	2001/09/21	14:27:24	0.4208	322.104	120.92	
103	2001/09/21	14:27:39	0.4250	322.105	120.91	
104	2001/09/21	14:27:54	0.4292	322.120	120.88	
105	2001/09/21	14:28:09	0.4333	322.150	120.86	
106	2001/09/21	14:28:24	0.4375	322.171	120.84	
107	2001/09/21	14:28:39	0.4417	322.200	120.82	.440 Static Gradient
108	2001/09/21	14:28:54	0.4458	322.221	120.80	
109	2001/09/21	14:29:09	0.4500	322.221	120.79	
110	2001/09/21	14:29:24	0.4542	322.258	120.77	
111	2001/09/21	14:29:39	0.4583	322.271	120.75	
112	2001/09/21	14:29:54	0.4625	322.301	120.73	
113	2001/09/21	14:30:09	0.4667	322.332	120.72	
114	2001/09/21	14:30:24	0.4708	322.366	120.70	
115	2001/09/21	14:30:39	0.4750	322.373	120.68	
116	2001/09/21	14:30:54	0.4792	322.410	120.66	
117	2001/09/21	14:31:09	0.4833	322.424	120.65	
118	2001/09/21	14:31:24	0.4875	322.435	120.63	
119	2001/09/21	14:31:39	0.4917	322.463	120.62	
120	2001/09/21	14:31:54	0.4958	322.497	120.61	
121	2001/09/21	14:32:09	0.5000	322.505	120.60	
122	2001/09/21	14:32:24	0.5042	322.529	120.59	
123	2001/09/21	14:32:39	0.5083	322.551	120.57	
124	2001/09/21	14:32:54	0.5125	322.582	120.57	
125	2001/09/21	14:33:09	0.5167	322.606	120.55	
126	2001/09/21	14:33:24	0.5208	322.615	120.54	
127	2001/09/21	14:33:39	0.5250	322.640	120.53	
128	2001/09/21	14:33:54	0.5292	322.655	120.52	Final 700' G/L
129	2001/09/21	14:34:09	0.5333	314.072	120.52	Tripped Out of the Hole
130	2001/09/21	14:34:24	0.5375	296.557	120.52	
131	2001/09/21	14:34:39	0.5417	280.359	120.56	
132	2001/09/21	14:34:54	0.5458	258.608	120.62	
133	2001/09/21	14:35:09	0.5500	238.269	120.67	
134	2001/09/21	14:35:24	0.5542	217.796	120.70	
135	2001/09/21	14:35:39	0.5583	195.792	120.72	
136	2001/09/21	14:35:54	0.5625	174.294	120.73	
137	2001/09/21	14:36:09	0.5667	152.456	120.71	
138	2001/09/21	14:36:24	0.5708	130.694	120.73	
139	2001/09/21	14:36:39	0.5750	108.663	120.86	
140	2001/09/21	14:36:54	0.5792	86.309	121.25	
141	2001/09/21	14:37:09	0.5833	64.371	122.19	
142	2001/09/21	14:37:24	0.5875	42.081	124.09	
143	2001/09/21	14:37:39	0.5917	22.605	126.09	
144	2001/09/21	14:37:54	0.5958	18.829	127.14	Final Surface
145	2001/09/21	14:38:09	0.6000	19.734	127.51	
146	2001/09/21	14:38:24	0.6042	20.051	127.57	
147	2001/09/21	14:38:39	0.6083	20.053	127.41	
148	2001/09/21	14:38:54	0.6125	18.905	127.01	
149	2001/09/21	14:39:09	0.6167	17.734	126.45	
150	2001/09/21	14:39:24	0.6208	15.896	125.75	Equalized the Lubricator
151	2001/09/21	14:39:39	0.6250	15.505	125.00	
152	2001/09/21	14:39:54	0.6292	15.267	124.21	
173	2001/09/21	14:45:09	0.7167	14.692	111.00	
174	2001/09/21	14:45:24	0.7208	14.692	110.58	End of Test Data

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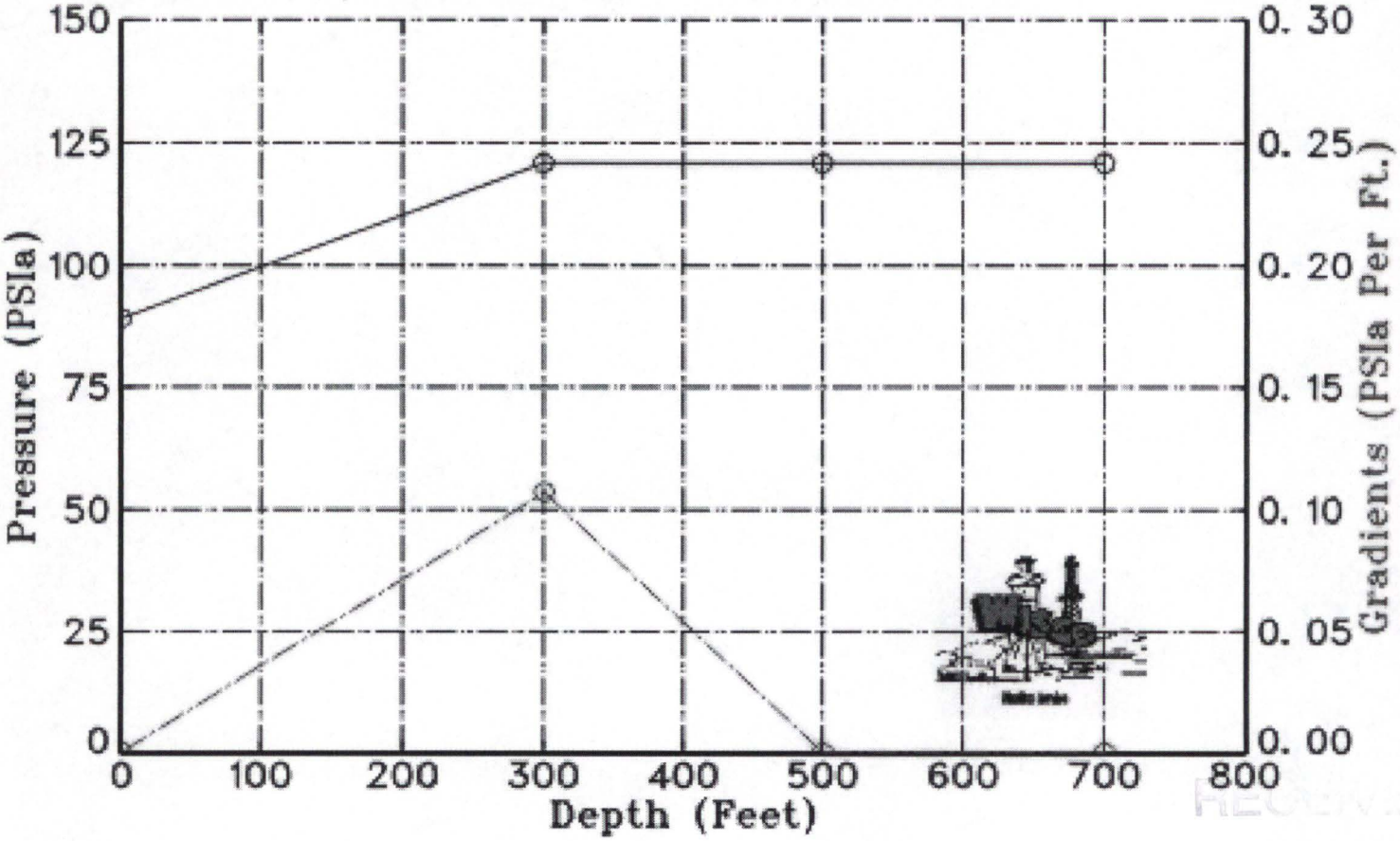
Elec. Temperature Gradients, Bottom Probe R-63



ZIPGRAPH 3.1b6 for Wilcox Wireline, Williston N.D. Sept. 23, 2001 10:30:28

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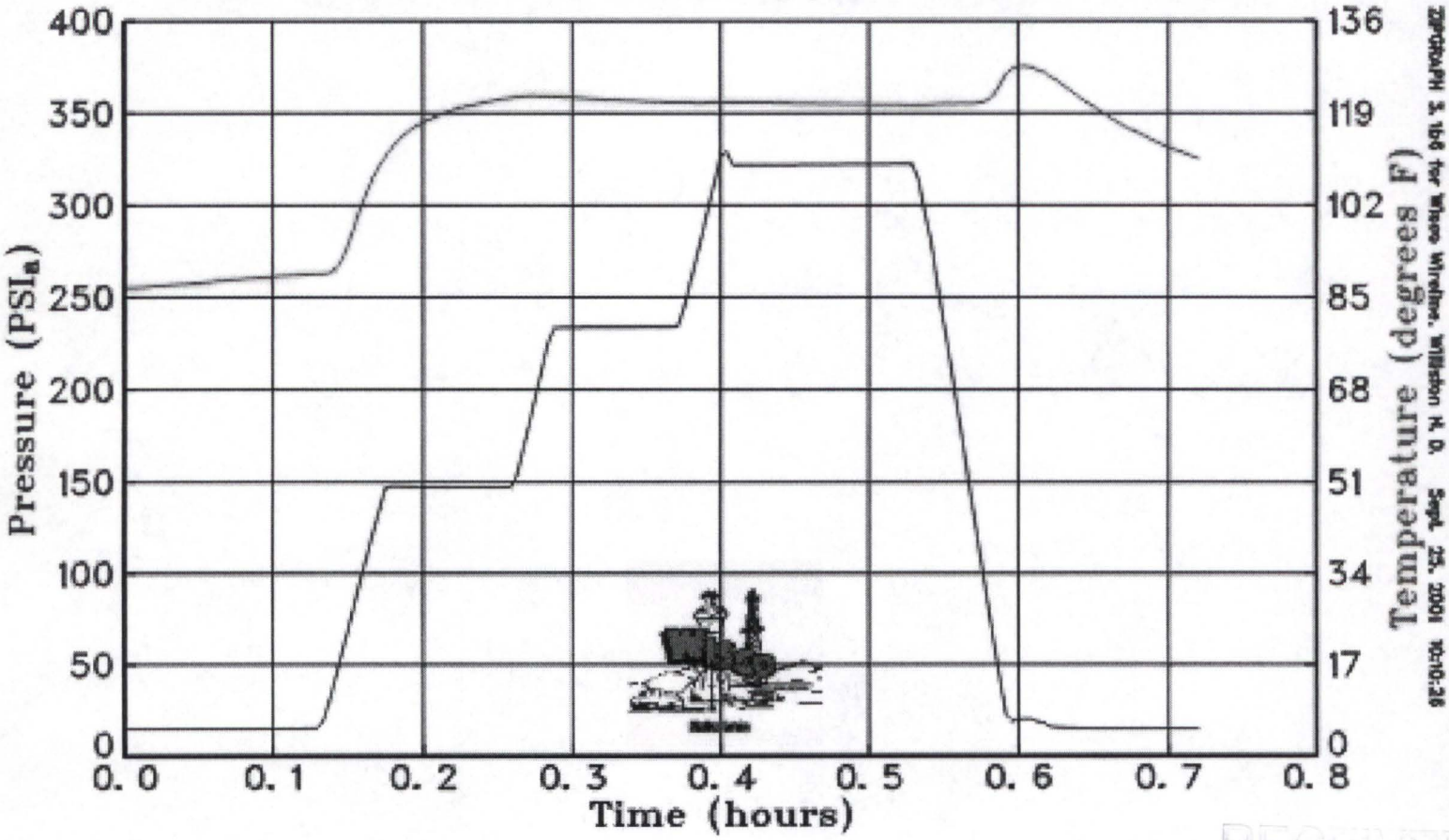
Elec. Static BHP & Gradients, Bottom Probe R-63



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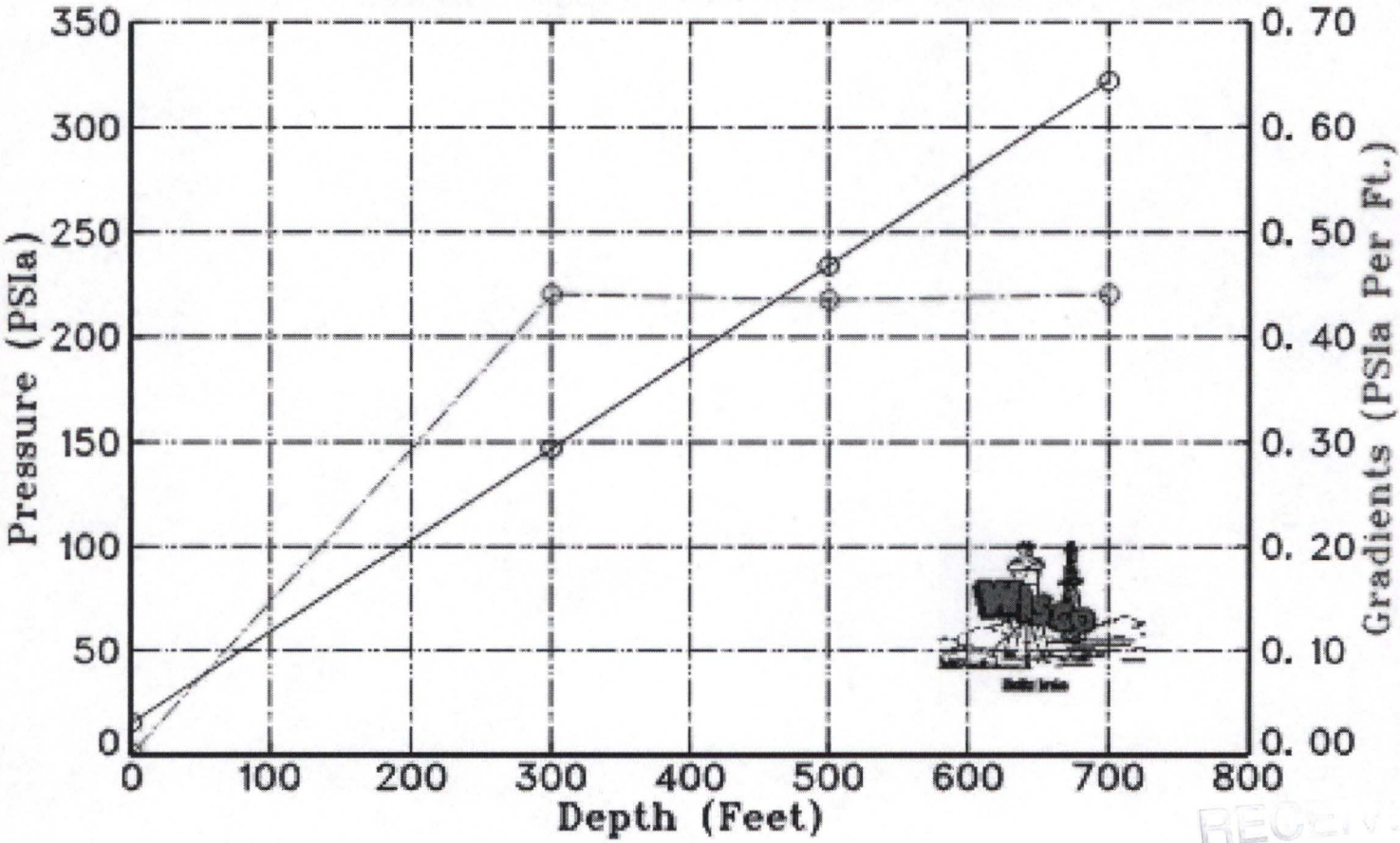
Pioneer Natural Resources, Biere 1-22D

Elec. Pressure Gradients, Bottom Probe R-63



ZIPGRAPH 3.1b6 for Wiese Wireline, Williston N.D. Sept. 23, 2001 10:27:18

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Telephone (701) 572-2135
Fax (701) 572-9616
Wireline E-Mail wiscowl@epicinc.net
US Watts 1-800-437-2075

Wireline Service

JOB NAME: Bier 1-22D

Co. E-Mail Address:

Copies To:

PO Box 2477
Highway 2, North
Williston, North Dakota 58801

SERVING THE OIL FIELDS IN THE ENTIRE WILLISTON BASIN

Company: Pioneer Natural Resources Test Start Date: 9-21-2001

Well Name and Number: Biere #1-22D Co. Rep: Rusty

Field: County: Roosevelt State: Mt

Type of Test: BHP/BHT Well Status: Perfs:

Test Operators: Kevin H Starting TBG Press:

Top Gauge #: 17900 Engage Time: CT/MT Disengage:

Bottom Gauge #: R-63 Engage Time: 14:01:04 CT/MT Disengage: 14:35:40

Pressured up: 14:05:00 Tripped in Hole: 14:10:00 On Bottom: 14:26:35 Shut In:

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Grad. Stops	World Time	Top Gauge Pressure	Grad.	Temp.	Bottom Gauge Pressure	Grad.	Temp.
Surface	14:05:00-14:10:00				15	—	89
300	14:12:45-14:17:45				147	.440	191
500	14:19:25-14:24:25				234	.435	191
700	14:26:35-14:31:35				322	.440	191

Ending Surface Press: Pressured up: TIH to Fish:

BHP's Off Bottom: 14:35:39 Back @ Surface: 14:37:50 Bled Down Press:

Run Depth: 700' Datum Depth: Ending Test Date:

Top Data Points: Rem. Amp Hrs: Alarms: Max Temp:

Bot Data Points: 174 Rem. Amp Hrs: 7.869 Alarms: Max Temp:

PA

-BIERE 1-22 Remedial Wells-
-Initial Completions-

- 10-4-01 -

	1A	1B	1C	1D
	700 sx	330 sx	175 sx	200 sx
		350 sx	2000 sx	2000 sx
		750 sx	200 sx	550 sx
		200 sx	200 sx	300 sx
		100 sx	250 sx	700 sx
		35 sx	2825 sx	700 sx
		350 sx		500 sx
		350 sx		500 sx
		200 sx		280 sx
		2665 sx		500 sx
				200 sx
				300 sx
				500 sx
				150 sx
				200 sx
				7580 sx
				2825
				2665
				700
				13,970 sx

MAIP: ?
KCl H_2O
Fract Press 455 psi
Kjr

CBL Surf.	NA	OK	OK	OK	
CBL Longst.	NA	poor	OK	OK	
Depth	729' TD	686'-729'	open hole 679'-844'	697'-729'	
MIT	NA	Fail @ 513 (→403) air in line Pass @ 499 → 494	Pass @ 549 → 549	Pass @ 517 → 531 psi	
BHP	NA	50 9-21-01 (surf) 317 9-21-01	270 9-21-01 (surf) 546 9-21-01 "	60 9-21-01 (surf.) 322 9-21-01	
BHT	NA	123°F	119°F	121°F	