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State of Kansas . . . John Carlin, *Governor*

DEPARTMENT OF HEALTH AND ENVIRONMENT

Barbara J. Sabol, *Secretary*

Forbes Field
Topeka, Kansas 66620
913-862-9360

May 7, 1984

Mr. Victor E. Ziegler
Ground Water Section
U.S. Environmental Protection
Agency
324 East 11th Street
Kansas City, Missouri 64106

Dear Mr. Ziegler:

In our recent telephone conversation, a request was made for chemical analysis of the deep well waste streams, and the mechanical integrity tests for these wells.

Co Wichita Ks.

Enclosed is the report of discharge data for deep wells #3, #4, #7, #8 and #9 for Vulcan Materials from 1-84 to 3-84. This report includes daily average flow rate, vacuum pressure daily average annular pressure for each well.

After reviewing this report, if you have any questions, please call me at 913-862-9360 Ext. 331.

Sincerely yours,

DIVISION OF ENVIRONMENT

Larry Knoche

Larry Knoche, Chief
Environmental Geology Section

LK:cas
Enclosure
cc: William R. Bryson

30299079
Superfund

RECEIVED
MAY 08 1984
DRINKING WATER BRANCH
WATER MANAGEMENT DIVISION

received attach to WATR memo of 5/11/84

Vulcan Materials Company

CHEMICALS DIVISION · P O BOX 12283 • WICHITA KANSAS 67277 2283 • TELEPHONE 316 524-4211 • TELEX NO 417 432 • TWX 910 741-6918

April 27, 1984

W. R. Bryson
Bureau of Environmental & Oil Field Geology
Kansas Department of Health & Environment
Forbes Field, Building 740
Topeka, Kansas 66620

Dear Mr. Bryson:

This report presents our discharge data for the First Quarter 1984. Deep Wells #3, #4, #7, #8, and #9 operated well throughout the quarter with no flow restrictions. Major maintenance continued in early January on Deep Well #8. Details of the repairs were discussed in the Fourth Quarter 1983 report. No other minor or major maintenance was required.

If you have any questions, please call me at 316-524-4211, extension 338.

Very truly yours,

Gary T. Mason

Gary T. Mason
Environmental Coordinator

GTM:di
Enclosure

KANSAS STATE DEPARTMENT OF HEALTH AND ENVIRONMENT
Division of Environment
Topeka, Kansas 66620

Vulcan Chemicals
P. O. Box 12283
Wichita, KS 67277

James M. Boyd
Name of Principal Executive Officer

Plant Manager
Title

Date

Signature of Prin. Exec. Off. or Authorized Agent

(1) (2) DW #3 (3) 1/1/84 To 3/31/84 (4)

GENERAL INSTRUCTIONS:

(1) Complete plant name and mailing address

(2) Kansas Permit Number

(3) Discharge or outfall number: 001,002,etc.

(4) Reporting Period day/month/year

(5) Quarterly Parameter Summary: to be used for grab and composite sample averages and maximums. Composite data shall be recorded on the reverse side of this form.

(5) A quantity value lbs/day or kg/day shall be calculated for each grab or composite sample taken. The quarterly average and maximum quantities shall be determined from this data.
lbs/day - mg/l x Flow MGD x 8.34
kg/day - lbs/day x .454

(5) % BOD and TSS Reduction shall be based on quarterly averages

(5) Fecal Coliform: Organisms/100 ml

(6) Flow shall be recorded in MGD, "million gallons per day".

(6) Check the box "*" to the left of the page if a sample was taken on that date.

(5) QUARTERLY PARAMETER SUMMARY

PARAMETER	CONCENTRATION		QUANTITY	
	Quarterly Average	Quarterly Maximum	Quarterly Average	Quarterly Maximum
BOD_5 (Influent)	mg/l	mg/l		
TSS (Influent)	mg/l	mg/l		
BOD_5 (Effluent)	mg/l	mg/l		
TSS (Effluent)	mg/l	mg/l		
Fecal Coliform				

Number of Samples taken this Quarter___
pH Range: Min.___Max.___

BOD_5 Reduction _____%
TSS Reduction_____%

Type of Flow Measurement:
Weir___Recording Meter_____
Other_____

Number of Times Flow Measured per Day (for methods other than cumulative recording devices) _____

Additional summary space available on supplemental data sheet.

(6) FLOW MEASUREMENT DATA

DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW

DEEP WELL REPORT
ANALYTICAL DATA FOR

DEEP WELL NUMBER 3

1st QUARTER OF 1984

DATE	TIME OF SAMPLING	pH	CHLORIDES MG/L	COD MG/L	TOC MG/L
1-03-84	140/A	12.4	21,700	250	
1-10-84	200/A	3.4	16,800	250	
1-17-84	415/A	12.5	36,000	5,140	
1-24-84	330/A	12.9	25,700	120	
1-31-84	235/A	10.8	75,800	2,500	
2-09-84	315/A	12.2	30,000	375	
2-14-84	400/A	9.9	34,194	52	
2-21-84	400/A	12.2	53,900	190	
2-28-84	230/A	8.7	27,709	1,290	
3-06-84	650/A	1.4	14,683	465	
3-13-84	515/A	1.4	21,362	443	
3-20-84	620/A	1.6	19,988	800	
3-27-84	245/A	12.8	10,686	143	

FLOWS TO DEEP WELL # 3

** MONTHLY REPORT FOR DEEPWELL # 3 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
1- 1	.4248	2.5	5.0/ 2.0	101.33
1- 2	.4140	3.2	6.0/ 2.0	101.67
1- 3	.4272	2.2	4.0/ 2.0	101.83
1- 4	.4296	2.0	2.0/ 2.0	102.17
1- 5	.4320	2.0	2.0/ 2.0	100.67
1- 6	.4704	2.3	5.0/ 0.0	109.83
1- 7	.4200	3.3	5.0/ 3.0	115.17
1- 8	.3960	4.3	5.0/ 3.0	115.08
1- 9	.3732	4.4	8.0/ 4.0	116.00
1-10	.3672	3.6	6.0/ 3.0	115.75
1-11	.4428	3.8	4.0/ 3.0	112.75
1-12	.4032	2.8	4.0/ 2.0	113.17
1-13	.3960	2.0	2.0/ 2.0	104.00
1-14	.4320	2.0	2.0/ 2.0	106.17
1-15	.4320	2.0	2.0/ 2.0	106.67
1-16	.4320	4.0	6.0/ 2.0	104.67
1-17	.4164	5.6	6.0/ 4.0	103.58
1-18	.4128	4.4	6.0/ 2.0	103.42
1-19	.4104	4.6	12.0/ 2.0	100.50
1-20	.4080	3.1	5.0/ 2.0	101.17
1-21	.4116	2.8	4.0/ 2.0	102.17
1-22	.3870	5.0	8.0/ 2.0	102.83
1-23	.4272	2.7	4.0/ 2.0	104.50
1-24	.4104	2.2	4.0/ 2.0	102.00
1-25	.4188	3.3	11.0/ 2.0	102.08
1-26	.4368	3.0	3.0/ 3.0	102.00
1-27	.4284	2.3	4.0/ 2.0	105.58
1-28	.3972	5.3	10.0/ 4.0	104.25
1-29	.4260	2.6	4.0/ 2.0	106.33
1-30	.4002	2.4	3.0/ 2.0	96.83
1-31	.4260	1.5	3.0/ 1.0	107.42

MONTHLY AVERAGE FLOW: .4164 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 105.53

FLOWS TO DEEP WELL # 3

** MONTHLY REPORT FOR DEEPWELL # 3 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
2- 1	.4272	2.3	5.0/ 2.0	103.92
2- 2	.4332	1.0	1.0/ 1.0	102.67
2- 3	.4200	2.7	3.0/ 2.0	101.33
2- 4	.4212	2.3	3.0/ 2.0	100.00
2- 5	.4338	3.3	5.0/ 3.0	102.17
2- 6	.4872	2.7	4.0/ 2.0	102.92
2- 7	.4356	2.1	3.0/ 2.0	102.50
2- 8	.4428	2.0	2.0/ 2.0	103.50
2- 9	.4296	2.3	10.0/ 1.0	102.42
2-10	.4344	1.7	2.0/ 1.0	102.50
2-11	.4344	2.0	2.0/ 2.0	102.83
2-12	.4428	2.0	2.0/ 2.0	104.00
2-13	.4320	3.1	5.0/ 2.0	106.33
2-14	.4320	2.7	4.0/ 2.0	105.00
2-15	.4284	2.3	4.0/ 2.0	104.42
2-16	.3672	3.8	11.0/ 0.0	103.25
2-17	.4092	4.8	25.0/ 1.0	102.75
2-18	.4296	1.8	4.0/ 1.0	101.75
2-19	.4074	3.8	6.0/ 2.0	102.00
2-20	.3312	6.8	10.0/ 6.0	100.33
2-21	.2940	9.7	12.0/ 8.0	103.67
2-22	.2784	6.6	15.0/ 0.0	107.67
2-23	.3168	8.0	10.0/ 3.0	109.17
2-24	.4164	4.5	8.0/ 3.0	58.08
2-25	.4176	1.5	3.0/ 1.0	38.33
2-26	.4164	2.7	5.0/ 1.0	41.58
2-27	.3384	5.7	20.0/ 1.0	88.75
2-28	.3420	7.2	12.0/ 1.0	100.92
2-29	.4836	1.0	2.0/ 0.0	103.00

MONTHLY AVERAGE FLOW: .4063 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 96.82

FLOWS TO DEEP WELL # 3

** MONTHLY REPORT FOR DEEPWELL # 3 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
3- 1	.4308	1.2	2.0/ 1.0	101.50
3- 2	.3888	2.5	4.0/ 1.0	104.58
3- 3	.3864	4.2	5.0/ 2.0	101.75
3- 4	.4404	4.5	5.0/ 1.0	104.75
3- 5	.3720	3.8	5.0/ 2.0	104.08
3- 6	.3984	3.3	5.0/ 1.0	102.33
3- 7	.4932	1.4	3.0/ 1.0	99.92
3- 8	.3816	2.8	4.0/ 2.0	100.33
3- 9	.3480	2.8	4.0/ 1.0	102.67
3-10	.3600	2.3	4.0/ 1.0	102.00
3-11	.3600	2.8	4.0/ 1.0	110.00
3-12	.3600	2.5	4.0/ 2.0	110.67
3-13	.3492	2.8	4.0/ 1.0	105.25
3-14	.3624	4.3	6.0/ 3.0	104.33
3-15	.3912	3.8	6.0/ 2.0	104.50
3-16	.3840	2.8	4.0/ 1.0	102.75
3-17	.3900	2.3	5.0/ 1.0	103.67
3-18	.3948	2.7	5.0/ 1.0	103.67
3-19	.4044	4.0	6.0/ 2.0	102.50
3-20	.3876	5.5	6.0/ 4.0	102.00
3-21	.4008	4.2	5.0/ 2.0	102.75
3-22	.3732	3.2	5.0/ 3.0	102.92
3-23	.3876	3.0	4.0/ 2.0	103.00
3-24	.4032	2.2	4.0/ 1.0	101.83
3-25	.3948	4.3	8.0/ 3.0	102.75
3-26	.3864	3.2	5.0/ 2.0	102.67
3-27	.4368	1.6	3.0/ 1.0	104.83
3-28	.4092	1.0	1.0/ 1.0	106.00
3-29	.3924	1.2	2.0/ 1.0	105.83
3-30	.5004	4.7	6.0/ 2.0	110.08
3-31	.4296	2.2	3.0/ 2.0	112.67

MONTHLY AVERAGE FLOW: .3967 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 104.15

KANSAS STATE DEPARTMENT OF HEALTH AND ENVIRONMENT
Division of Environment
Topeka, Kansas 66620

Vulcan Chemicals
P. O. Box 12283
Wichita, KS 67277

James M. Boyd
Name of Principal Executive Officer

Plant Manager
Title

Date

Signature of Prin. Exec. Off. or Authorized Agent

(1) (2) (3) (4)

	DW #4	1/1/84	To	3/31/84

GENERAL INSTRUCTIONS:

(1) Complete plant name and mailing address

(2) Kansas Permit Number

(3) Discharge or outfall number: 001,002,etc.

(4) Reporting Period day/month/year

(5) Quarterly Parameter Summary: to be used for grab and composite sample averages and maximums. Composite data shall be recorded on the reverse side of this form.

(5) A quantity value lbs/day or kg/day shall be calculated for each grab or composite sample taken. The quarterly average and maximum quantities shall be determined from this data.
lbs/day - mg/l x Flow MGD x 8.34
kg/day - lbs/day x .454

(5) % BOD and TSS Reduction shall be based on quarterly averages

(5) Fecal Coliform: Organisms/100 ml

(6) Flow shall be recorded in MGD, "million gallons per day".

(6) Check the box "*" to the left of the page if a sample was taken on that date.

(5) QUARTERLY PARAMETER SUMMARY

PARAMETER	CONCENTRATION Quarterly Average	CONCENTRATION Quarterly Maximum	QUANTITY Quarterly Average	QUANTITY Quarterly Maximum
BOD_5 (Influent)	mg/l	mg/l		
TSS (Influent)	mg/l	mg/l		
BOD_5 (Effluent)	mg/l	mg/l		
TSS (Effluent)	mg/l	mg/l		
Fecal Coliform				

Number of Samples taken this Quarter___
pH Range: Min.___Max.___

BOD_5 Reduction _____%
TSS Reduction_____%

Type of Flow Measurement:
Weir___Recording Meter_____
Other_____

Number of Times Flow Measured per Day (for methods other than cumulative recording devices) _____

Additional summary space available on supplemental data sheet.

(6) FLOW MEASUREMENT DATA

DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW

DEEP WELL REPORT
ANALYTICAL DATA FOR

DEEP WELL NUMBER 4

1st QUARTER OF 1984

DATE	TIME OF SAMPLING	pH	CHLORIDES MG/L	COD MG/L	TOC MG/L
1-03-84	130/A	12.8	23,300	675	
13-1-84	250/A	0.4	24,300	120	
2-09-84	330/A	12.1	22,800	163	
2-14-84	400/A	1.9	19,331	15	
3-06-84	700/A	11.3	22,214	443	
3-13-84	530/A	11.8	24,156	1,270	
3-27-84	235/A	12.8	14,086	380	

FLOWS TO DEEP WELL = 4

** MONTHLY REPORT FOR DEEPWELL # 4 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
1- 1	.2994	8.7	26.0/ 0.0	110.00
1- 2	.1164	3.8	26.0/+ 8.0	110.00
1- 3	0.0000	10.9	20.0/ 1.0	110.00
1- 4	0.0000	7.8	16.0/ 4.0	110.00
1- 5	0.0000	6.3	14.0/ 2.0	110.00
1- 6	0.0000	3.7	15.0/ 1.0	110.00
1- 7	.1332	3.7	5.0/ 0.0	110.67
1- 8	.0240	9.0	16.0/ 5.0	110.67
1- 9	0.0000	5.4	12.0/ 3.0	110.67
1-10	0.0000	1.1	5.0/ 0.0	111.17
1-11	.3060	+ 1.7	0.0/+ 2.0	111.67
1-12	.1008	.7	6.0/+ 4.0	112.00
1-13	0.0000	+ 6.0	+ 6.0/+ 6.0	110.67
1-14	0.0000	+ 6.0	+ 6.0/+ 6.0	110.33
1-15	0.0000	+ 7.2	+ 6.0/+ 8.0	111.17
1-16	0.0000	+ 5.7	+ 4.0/+ 8.0	104.00
1-17	0.0000	+ 1.3	0.0/+ 4.0	100.00
1-18	.1680	0.0	0.0/ 0.0	100.50
1-19	.4692	.8	2.0/ 0.0	102.75
1-20	.4092	1.3	3.0/ 1.0	102.75
1-21	.3612	2.8	5.0/ 2.0	102.25
1-22	.1440	3.3	6.0/ 2.0	102.00
1-23	0.0000	2.0	2.0/ 2.0	101.33
1-24	0.0000	2.0	2.0/ 2.0	102.00
1-25	0.0000	2.5	4.0/ 2.0	103.00
1-26	0.0000	2.0	2.0/ 2.0	102.00
1-27	.0360	2.8	6.0/ 2.0	103.00
1-28	0.0000	0.0	2.0/+ 4.0	104.67
1-29	.3972	+ 5.0	+ 4.0/+10.0	101.58
1-30	0.0000	+ 8.7	+ 8.0/+10.0	101.67
1-31	0.0000	+ 7.5	+ 6.0/+ 8.0	104.50

MONTHLY AVERAGE FLOW: .0956 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 106.35

FLOWS TO DEEP WELL = 4

** MONTHLY REPORT FOR DEEPWELL # 4 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
2- 1	.3204	+ 3.2	+ 2.0/+ 6.0	102.00
2- 2	.3264	.2	6.0/+ 2.0	102.00
2- 3	.3438	5.3	10.0/ 3.0	102.00
2- 4	.4104	3.4	8.0/ 2.0	100.00
2- 5	.3984	11.2	15.0/ 8.0	102.17
2- 6	.4344	5.4	12.0/+ 4.0	101.08
2- 7	.3936	6.3	12.0/ 4.0	104.33
2- 8	.4296	14.0	16.0/ 10.0	100.75
2- 9	.4392	4.7	10.0/ 1.0	103.00
2-10	.4344	4.2	6.0/ 2.0	100.17
2-11	.4320	+ 1.3	4.0/+ 4.0	100.00
2-12	.4380	+ 8.5	+ 4.0/+10.0	101.33
2-13	.4320	+ 2.3	2.0/+10.0	100.67
2-14	.4332	3.2	4.0/ 2.0	100.00
2-15	.3852	4.6	8.0/ 4.0	100.67
2-16	.2040	1.3	10.0/+ 4.0	101.92
2-17	.2400	.3	8.0/+10.0	102.17
2-18	.4188	5.3	8.0/ 2.0	102.67
2-19	.2220	12.2	21.0/ 4.0	103.00
2-20	.1080	4.3	8.0/ 4.0	102.00
2-21	.2640	3.5	4.0/ 2.0	102.00
2-22	.3768	2.9	6.0/+ 2.0	101.83
2-23	.4092	+ .8	4.0/+ 4.0	104.58
2-24	.3600	1.9	5.0/ 0.0	102.00
2-25	.4332	6.3	18.0/ 4.0	102.17
2-26	.3960	+ 1.0	5.0/+ 4.0	100.67
2-27	.1272	5.8	18.0/ 0.0	100.00
2-28	.1212	2.0	20.0/+10.0	100.00
2-29	.2028	25.4	26.0/ 22.0	100.00

MONTHLY AVERAGE FLOW: .3426 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 101.56

FLOWS TO DEEP WELL # 4

** MONTHLY REPORT FOR DEEPWELL # 4 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
3- 1	.2376	6.7	26.0/+ 8.0	100.00
3- 2	0.0000	0.0	0.0/ 0.0	100.00
3- 3	0.0000	0.0	0.0/ 0.0	100.00
3- 4	.1320	12.6	25.0/+12.0	102.50
3- 5	.3048	16.2	26.0/ 0.0	100.67
3- 6	.3120	17.7	25.0/ 4.0	100.00
3- 7	.1704	17.5	28.0/ 0.0	100.00
3- 8	.1872	16.1	25.0/ 0.0	100.08
3- 9	.2280	6.4	25.0/+ 4.0	100.00
3-10	.2880	+ 5.2	+ 4.0/+ 6.0	100.00
3-11	.4320	+ 4.7	+ 4.0/+ 6.0	100.00
3-12	.1440	+ 1.3	0.0/+ 4.0	100.00
3-13	.3492	2.8	4.0/ 1.0	105.25
3-14	.3624	4.3	6.0/ 3.0	104.33
3-15	.3912	3.8	6.0/ 2.0	104.50
3-16	.4332	+ 5.2	+ 2.0/+ 8.0	100.00
3-17	.3672	+ .9	10.0/+ 8.0	100.00
3-18	.4344	+ .8	3.0/+ 6.0	100.00
3-19	.3240	+ 6.0	+ 6.0/+ 6.0	100.00
3-20	.0480	+ 7.0	+ 6.0/+ 8.0	100.00
3-21	.0240	+ 5.3	+ 2.0/+ 6.0	100.00
3-22	0.0000	+ 5.7	+ 4.0/+ 6.0	100.00
3-23	0.0000	+ 5.7	+ 4.0/+ 8.0	100.00
3-24	.4032	2.2	4.0/ 1.0	101.83
3-25	.0384	+ 6.3	+ 4.0/+ 8.0	100.00
3-26	0.0000	+ 4.0	+ 4.0/+ 4.0	100.00
3-27	.1356	+ .4	4.0/+ 2.0	100.00
3-28	.3600	+ 2.0	+ 2.0/+ 2.0	100.00
3-29	.4332	.7	4.0/+ 2.0	100.00
3-30	.1140	1.0	5.0/ 0.0	100.00
3-31	.1080	.9	10.0/+ 4.0	100.00

MONTHLY AVERAGE FLOW: .2181 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 100.62

KANSAS STATE DEPARTMENT OF HEALTH AND ENVIRONMENT
Division of Environment
Topeka, Kansas 66620

Vulcan Chemicals
P. O. Box 12283
Wichita, KS 67277

James M. Boyd
Name of Principal Executive Officer

Plant Manager
Title

Date

Signature of Prin. Exec. Off. or Authorized Agent

(1) (2) DW #7 (3) 1/1/84 To 3/31/84 (4)

GENERAL INSTRUCTIONS:

(1) Complete plant name and mailing address

(2) Kansas Permit Number

(3) Discharge or outfall number: 001,002,etc.

(4) Reporting Period day/month/year

(5) Quarterly Parameter Summary: to be used for grab and composite sample averages and maximums. Composite data shall be recorded on the reverse side of this form.

(5) A quantity value lbs/day or kg/day shall be calculated for each grab or composite sample taken. The quarterly average and maximum quantities shall be determined from this data.
lbs/day - mg/l x Flow MGD x 8.34
kg/day - lbs/day x .454

(5) % BOD and TSS Reduction shall be based on quarterly averages

(5) Fecal Coliform: Organisms/100 ml

(6) Flow shall be recorded in MGD, "million gallons per day".

(6) Check the box "*" to the left of the page if a sample was taken on that date.

(5) QUARTERLY PARAMETER SUMMARY

PARAMETER	CONCENTRATION		QUANTITY	
	Quarterly Average	Quarterly Maximum	Quarterly Average	Quarterly Maximum
BOD_5 (Influent)	mg/l	mg/l		
TSS (Influent)	mg/l	mg/l		
BOD_5 (Effluent)	mg/l	mg/l		
TSS (Effluent)	mg/l	mg/l		
Fecal Coliform				

Number of Samples taken this Quarter___
pH Range: Min.___Max.___

BOD_5 Reduction _____%
TSS Reduction_____%

Type of Flow Measurement:
Weir___Recording Meter_____
Other_____

Number of Times Flow Measured per Day (for methods other than cumulative recording devices) _____

Additional summary space available on supplemental data sheet.

(6) FLOW MEASUREMENT DATA

DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW

DEEP WELL REPORT
ANALYTICAL DATA FOR

DEEP WELL NUMBER 7

1st QUARTER OF 1984

DATE	TIME OF SAMPLING	pH	CHLORIDES MG/L	COD MG/L	TOC MG/L
1-03-84	135/A	<0.1	26,000	1,545	394
1-03-84	130/A	12.8	23,300	675	
1-10-84	145/A	<0.1	46,500	2,575	
1-10-84	215/A	12.5	17,000	350	
1-17-84	430/A	<0.1	36,000	8,260	4,200
1-24-84	315/A	<0.4	55,900	4,075	463
1-31-84	245/A	<0.4	28,200	130	21
2-09-84	300/A	<0.4	75,300	9,975	6,390
2-14-84	400/A	<0.1	65,570	315	25
2-21-84	415/A	<0.4	46,100	4,375	4,375
2-28-84	245/A	0.5	37,703	6,260	4,390
3-06-84	640/A	0.7	30,314	610	139
3-13-84	500/A	0.6	33,250	340	418
3-20-84	600/A	0.7	24,298	2,798	1,130
3-27-84	230/A	0.7	15,543	507	480

FLOWS TO DEEP WELL # 7

** MONTHLY REPORT FOR DEEPWELL # 7 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
1- 1	.4680	5.1	6.0/ 5.0	157.33
1- 2	.3426	19.3	25.0/ 8.0	156.17
1- 3	.2838	15.7	24.0/ 6.0	152.25
1- 4	.4680	12.6	20.0/ 5.0	155.83
1- 5	.2766	11.0	20.0/ 5.0	152.67
1- 6	.3774	14.1	26.0/ 10.0	161.17
1- 7	.4680	6.3	8.0/ 5.0	152.50
1- 8	.4404	13.8	25.0/ 6.0	156.25
1- 9	.3414	15.9	26.0/ 8.0	156.00
1-10	.4656	17.1	26.0/ 4.0	160.83
1-11	.3318	18.4	25.0/ 4.0	163.00
1-12	.2400	24.0	25.0/ 22.0	156.00
1-13	.2592	23.7	24.0/ 22.0	150.17
1-14	.2592	23.3	24.0/ 20.0	150.33
1-15	.2592	24.0	24.0/ 24.0	150.33
1-16	.2592	24.7	25.0/ 24.0	150.00
1-17	.2664	23.8	25.0/ 20.0	155.25
1-18	.2988	23.0	26.0/ 18.0	154.33
1-19	.2748	23.7	26.0/ 15.0	154.58
1-20	.2592	25.8	26.0/ 25.0	157.08
1-21	.2592	25.8	26.0/ 24.0	156.33
1-22	.2592	26.2	28.0/ 26.0	156.25
1-23	.2592	26.0	26.0/ 26.0	152.00
1-24	.2592	25.8	26.0/ 24.0	152.50
1-25	.3186	22.0	26.0/ 8.0	153.00
1-26	.2592	16.1	26.0/ 6.0	153.17
1-27	.2592	20.3	78.0/ 4.0	159.67
1-28	.2838	24.3	26.0/ 15.0	159.00
1-29	.2592	25.5	26.0/ 20.0	160.00
1-30	.2808	22.3	26.0/ 15.0	158.33
1-31	.3618	16.6	26.0/ 10.0	159.67

MONTHLY AVERAGE FLOW: .3129 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 155.55

FLOWS TO DEEP WELL # 7

** MONTHLY REPORT FOR DEEPWELL # 7 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
2- 1	.2592	24.8	26.0/ 20.0	152.17
2- 2	.2592	24.1	29.0/ 15.0	153.83
2- 3	.2940	22.3	26.0/ 11.0	156.00
2- 4	.2592	24.8	26.0/ 24.0	158.08
2- 5	.2592	25.6	26.0/ 25.0	156.83
2- 6	.3240	22.4	25.0/ 18.0	159.33
2- 7	.2592	24.6	26.0/ 22.0	160.50
2- 8	.2592	25.8	26.0/ 25.0	156.50
2- 9	.2592	25.8	26.0/ 24.0	160.00
2-10	.2592	25.8	26.0/ 25.0	160.00
2-11	.2592	22.3	26.0/ 20.0	158.17
2-12	.2592	24.5	26.0/ 20.0	156.17
2-13	.2592	22.2	26.0/ 20.0	161.33
2-14	.2592	20.4	24.0/ 18.0	160.00
2-15	.2592	23.8	26.0/ 18.0	157.67
2-16	.2448	25.3	26.0/ 24.0	155.75
2-17	.2646	23.2	26.0/ 15.0	154.92
2-18	.2592	25.8	26.0/ 25.0	150.33
2-19	.2448	26.2	28.0/ 26.0	151.75
2-20	.2592	26.0	26.0/ 26.0	150.00
2-21	.2592	26.0	26.0/ 26.0	150.17
2-22	.2592	25.0	26.0/ 20.0	151.92
2-23	.2592	25.8	26.0/ 24.0	155.75
2-24	.2592	25.8	26.0/ 25.0	156.33
2-25	.2592	26.0	27.0/ 25.0	156.92
2-26	.2592	25.9	26.0/ 25.0	158.33
2-27	.3084	23.4	26.0/ 11.0	155.83
2-28	.3012	22.7	26.0/ 8.0	154.50
2-29	.2592	20.3	26.0/ 13.0	157.17

MONTHLY AVERAGE FLOW: .2650 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 156.08

FLOWS TO DEEP WELL # 7

** MONTHLY REPORT FOR DEEPWELL # 7 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
3- 1	.2592	26.0	26.0/ 26.0	150.00
3- 2	.2664	24.3	26.0/ 16.0	155.75
3- 3	.3288	20.7	26.0/ 8.0	156.00
3- 4	.3330	14.3	26.0/ 7.0	155.25
3- 5	.4080	18.6	25.0/ 6.0	155.50
3- 6	.3216	19.7	24.0/ 10.0	155.92
3- 7	.2592	22.5	26.0/ 20.0	158.58
3- 8	.2664	21.2	26.0/ 15.0	159.67
3- 9	.2160	16.2	22.0/ 10.0	160.00
3-10	.1536	18.7	25.0/ 10.0	161.67
3-11	.4164	12.4	24.0/ 10.0	163.00
3-12	.4680	11.3	12.0/ 10.0	164.83
3-13	.4212	15.2	24.0/ 12.0	163.33
3-14	.4590	12.4	17.0/ 10.0	166.17
3-15	.4680	12.7	18.0/ 8.0	166.17
3-16	.4680	9.8	12.0/ 8.0	167.75
3-17	.4680	10.0	12.0/ 8.0	167.92
3-18	.4680	9.4	11.0/ 6.0	164.25
3-19	.4680	9.5	12.0/ 8.0	160.33
3-20	.4680	10.5	12.0/ 10.0	164.00
3-21	.4710	10.7	14.0/ 10.0	161.50
3-22	.3384	20.8	25.0/ 12.0	159.67
3-23	.3810	14.2	24.0/ 6.0	161.58
3-24	.4680	10.0	12.0/ 8.0	148.42
3-25	.4680	14.3	20.0/ 11.0	157.33
3-26	.4272	20.3	26.0/ 12.0	153.67
3-27	.2592	23.7	26.0/ 18.0	153.17
3-28	.2592	25.6	26.0/ 25.0	150.17
3-29	.2592	25.4	26.0/ 25.0	152.17
3-30	.2952	20.1	25.0/ 16.0	158.58
3-31	.4506	17.7	26.0/ 10.0	154.08

MONTHLY AVERAGE FLOW: .3697 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 158.92

KANSAS STATE DEPARTMENT OF HEALTH AND ENVIRONMENT
Division of Environment
Topeka, Kansas 66620

Vulcan Chemicals
P. O. Box 12283
Wichita, KS 67277

James M. Boyd
Name of Principal Executive Officer

Plant Manager
Title

Date

Signature of Prin. Exec. Off. or Authorized Agent

(1) _____ (2)

DW #8 (3)

1/1/84 To 3/31/84 (4)

GENERAL INSTRUCTIONS:

(1) Complete plant name and mailing address

(2) Kansas Permit Number

(3) Discharge or outfall number: 001,002,etc.

(4) Reporting Period day/month/year

(5) Quarterly Parameter Summary: to be used for grab and composite sample averages and maximums. Composite data shall be recorded on the reverse side of this form.

(5) A quantity value lbs/day or kg/day shall be calculated for each grab or composite sample taken. The quarterly average and maximum quantities shall be determined from this data.
lbs/day - mg/l x Flow MGD x 8.34
kg/day - lbs/day x .454

(5) % BOD and TSS Reduction shall be based on quarterly averages

(5) Fecal Coliform: Organisms/100 ml

(6) Flow shall be recorded in MGD, "million gallons per day".

(6) Check the box "*" to the left of the page if a sample was taken on that date.

(5) QUARTERLY PARAMETER SUMMARY

PARAMETER	CONCENTRATION		QUANTITY	
	Quarterly Average	Quarterly Maximum	Quarterly Average	Quarterly Maximum
BOD_5 (Influent)	mg/l	mg/l		
TSS (Influent)	mg/l	mg/l		
BOD_5 (Effluent)	mg/l	mg/l		
TSS (Effluent)	mg/l	mg/l		
Fecal Coliform				

Number of Samples taken this Quarter___
pH Range: Min.___Max.___

BOD_5 Reduction _____%
TSS Reduction_____%

Type of Flow Measurement:
Weir___Recording Meter____
Other_____

Number of Times Flow Measured per Day (for methods other than cumulative recording devices) _____

Additional summary space available on supplemental data sheet.

(6) FLOW MEASUREMENT DATA

DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW

DEEP WELL REPORT
ANALYTICAL DATA FOR

DEEP WELL NUMBER 8

1st QUARTER OF 1984

DATE	TIME OF SAMPLING	pH	CHLORIDES MG/L	COD MG/L	TOC MG/L
1-03-84	130/A	12.8	23,300	670	
1-31-84	250/A	<0.4	24,300	120	
2-09-84	245/A	12.1	22,800	163	
2-14-84	400/A	1.9	19,331	15	
2-28-84	250/A	1.4	26,761	795	
3-06-84	700/A	11.3	22,214	443	
3-13-84	530/A	11.8	24,156	1,270	
3-27-84	235/A	12.8	14,086	380	

FLOWS TO DEEP WELL = 8

** MONTHLY REPORT FOR DEEPWELL # 8 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
1- 1	0.0000	0.0	0.0/ 0.0	0.00
1- 2	0.0000	0.0	0.0/ 0.0	0.00
1- 3	0.0000	0.0	0.0/ 0.0	0.00
1- 4	0.0000	0.0	0.0/ 0.0	0.00
1- 5	0.0000	0.0	0.0/ 0.0	0.00
1- 6	0.0000	0.0	0.0/ 0.0	0.00
1- 7	0.0000	0.0	0.0/ 0.0	0.00
1- 8	0.0000	0.0	0.0/ 0.0	0.00
1- 9	0.0000	0.0	0.0/ 0.0	0.00
1-10	0.0000	0.0	0.0/ 0.0	0.00
1-11	0.0000	0.0	0.0/ 0.0	0.00
1-12	0.0000	0.0	0.0/ 0.0	156.00
1-13	0.0000	0.0	0.0/ 0.0	0.00
1-14	.3360	+10.8	+10.0/+12.0	0.00
1-15	.3600	+10.0	+10.0/+10.0	0.00
1-16	.2498	+ 3.3	0.0/+10.0	25.50
1-17	.1464	0.0	0.0/ 0.0	82.00
1-18	.1416	0.0	0.0/ 0.0	87.08
1-19	.1548	.2	2.0/ 0.0	86.83
1-20	.1824	.2	1.0/ 0.0	87.58
1-21	.0240	.8	5.0/ 0.0	86.92
1-22	0.0000	0.0	0.0/ 0.0	87.33
1-23	0.0000	0.0	0.0/ 0.0	85.83
1-24	0.0000	0.0	0.0/ 0.0	84.42
1-25	0.0000	0.0	0.0/ 0.0	96.67
1-26	.0720	5.4	25.0/ 0.0	142.50
1-27	.2016	13.9	28.0/ 5.0	143.58
1-28	.1752	1.2	5.0/+ 6.0	143.83
1-29	0.0000	+ 3.2	+ 2.0/+ 6.0	141.67
1-30	0.0000	+ 8.2	+ 4.0/+10.0	138.67
1-31	0.0000	+ 8.3	+ 6.0/+10.0	139.92

MONTHLY AVERAGE FLOW: .0659 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 58.59

FLOWS TO DEEP WELL # 8

** MONTHLY REPORT FOR DEEPWELL # 8 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
2- 1	.2064	+ 3.4	5.0/+ 6.0	139.33
2- 2	.2664	13.6	22.0/ 1.0	139.00
2- 3	.2880	13.8	20.0/ 6.0	136.67
2- 4	.0300	6.0	18.0/ 0.0	138.58
2- 5	.4404	15.3	18.0/ 12.0	136.00
2- 6	.1368	9.4	15.0/ 5.0	138.75
2- 7	0.0000	10.8	12.0/ 10.0	138.67
2- 8	.1428	12.9	20.0/ 10.0	138.17
2- 9	.1992	21.0	26.0/ 10.0	138.67
2-10	.2064	+ 3.0	+ 2.0/+ 6.0	135.00
2-11	.3288	2.2	10.0/+ 4.0	131.00
2-12	.2784	8.5	10.0/ 8.0	138.67
2-13	.2340	14.9	26.0/ 8.0	135.67
2-14	.3432	14.8	20.0/ 8.0	135.33
2-15	.3648	14.1	28.0/ 8.0	139.75
2-16	.2796	14.2	20.0/ 8.0	140.17
2-17	.4152	10.4	18.0/ 5.0	138.08
2-18	.2928	7.4	10.0/ 5.0	132.83
2-19	.2424	14.6	25.0/ 6.0	133.50
2-20	.3528	6.5	10.0/ 4.0	134.17
2-21	.4056	5.3	8.0/ 2.0	132.67
2-22	.2796	1.9	6.0/ 0.0	136.33
2-23	.3792	3.8	5.0/+ 2.0	136.58
2-24	.5052	.1	6.0/+ 2.0	141.50
2-25	.3336	6.9	16.0/ 0.0	143.00
2-26	.5220	+ 7.2	+ 4.0/+ 8.0	143.00
2-27	.3348	.3	4.0/+ 8.0	142.08
2-28	.4416	3.3	20.0/+ 2.0	143.25
2-29	.3828	3.7	12.0/+ 6.0	140.83

MONTHLY AVERAGE FLOW: .2977 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 137.84

FLOWS TO DEEP WELL # 8

** MONTHLY REPORT FOR DEEPWELL # 8 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
3- 1	.3960	10.0	16.0/ 6.0	141.33
3- 2	.2160	10.4	15.0/ 5.0	141.50
3- 3	.2160	7.3	8.0/ 5.0	142.75
3- 4	.3204	6.3	15.0/+ 6.0	155.25
3- 5	.0624	4.4	26.0/ 0.0	139.17
3- 6	.1836	0.0	0.0/ 0.0	141.17
3- 7	.4164	4.7	16.0/ 0.0	140.33
3- 8	.1440	3.3	20.0/ 0.0	140.00
3- 9	.1440	0.0	0.0/ 0.0	140.00
3-10	.1440	0.0	0.0/ 0.0	140.00
3-11	.1440	0.0	0.0/ 0.0	144.00
3-12	.2400	0.0	0.0/ 0.0	143.33
3-13	.3360	1.2	3.0/ 0.0	141.25
3-14	.3720	2.0	6.0/ 0.0	137.75
3-15	.3756	1.3	5.0/ 0.0	138.00
3-16	.2976	2.1	10.0/+ 4.0	143.33
3-17	.4380	.2	4.0/+ 4.0	141.75
3-18	.4152	+ .4	5.0/+ 4.0	141.50
3-19	.4368	+ 4.0	+ 4.0/+ 4.0	140.00
3-20	.1800	4.5	25.0/+ 6.0	140.00
3-21	.0360	10.3	18.0/ 5.0	141.67
3-22	0.0000	9.8	11.0/ 8.0	140.75
3-23	.1056	12.3	16.0/ 10.0	142.25
3-24	.2280	8.4	11.0/ 8.0	140.67
3-25	.2784	6.4	10.0/ 4.0	140.17
3-26	.2160	10.1	15.0/ 8.0	140.00
3-27	.1560	9.9	20.0/ 4.0	141.25
3-28	.2148	5.9	6.0/ 5.0	141.67
3-29	.2052	4.8	10.0/ 0.0	141.67
3-30	.1320	11.3	25.0/ 0.0	137.83
3-31	0.0000	10.3	26.0/ 2.0	132.42

MONTHLY AVERAGE FLOW: .2274 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 141.06

KANSAS STATE DEPARTMENT OF HEALTH AND ENVIRONMENT
Division of Environment
Topeka, Kansas 66620

Vulcan Chemicals
P. O. Box 12283
Wichita, KS 67277

James M. Boyd
Name of Principal Executive Officer

Plant Manager
Title

Date

(1)

(2)

DW #9
(3)

Signature of Prin. Exec. Off. or Authorized Agent

1/1/84 To 3/31/84
(4)

GENERAL INSTRUCTIONS:

(1) Complete plant name and mailing address

(2) Kansas Permit Number

(3) Discharge or outfall number: 001,002,etc.

(4) Reporting Period day/month/year

(5) Quarterly Parameter Summary: to be used for grab and composite sample averages and maximums. Composite data shall be recorded on the reverse side of this form.

(5) A quantity value lbs/day or kg/day shall be calculated for each grab or composite sample taken. The quarterly average and maximum quantities shall be determined from this data.
lbs/day - mg/l x Flow MGD x 8.34
kg/day - lbs/day x .454

(5) % BOD and TSS Reduction shall be based on quarterly averages

(5) Fecal Coliform: Organisms/100 ml

(6) Flow shall be recorded in MGD, "million gallons per day".

(6) Check the box "*" to the left of the page if a sample was taken on that date.

(5) QUARTERLY PARAMETER SUMMARY

PARAMETER	CONCENTRATION		QUANTITY	
	Quarterly Average	Quarterly Maximum	Quarterly Average	Quarterly Maximum
BOD_5 (Influent)	mg/l	mg/l		
TSS (Influent)	mg/l	mg/l		
BOD_5 (Effluent)	mg/l	mg/l		
TSS (Effluent)	mg/l	mg/l		
Fecal Coliform				

Number of Samples taken this Quarter___
pH Range: Min.___Max.___

BOD_5 Reduction _____%
TSS Reduction_____%

Type of Flow Measurement:
Weir___Recording Meter____
Other_____

Number of Times Flow Measured per Day (for methods other than cumulative recording devices) _____

Additional summary space available on supplemental data sheet.

(6) FLOW MEASUREMENT DATA

DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW	*	DATE	FLOW

DEEP WELL REPORT
ANALYTICAL DATA FOR

DEEP WELL NUMBER 9

1st QUARTER OF 1984

DATE	TIME OF SAMPLING	pH	CHLORIDES MG/L	COD MG/L	TOC MG/L
1-03-84	130/A	12.8	23,300	675	
1-31-84	250/A	<0.4	24,300	120	
2-09-84	245/A	12.1	22,800	163	
2-14-84	400/A	1.9	19,331	15	
2-28-84	250/A	1.4	26,761	795	
3-06-84	700/A	11.3	22,214	443	
3-13-84	530/A	11.8	24,156	1,270	
3-27-84	235/A	12.8	14,086	380	

FLOWS TO DEEP WELL = 9

** MONTHLY REPORT FOR DEEPWELL # 9 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
1- 1	0.0000	+ 4.3	+ 2.0/+10.0	102.17
1- 2	.0480	2.3	12.0/+ 8.0	99.42
1- 3	.1320	+ 3.1	4.0/+ 6.0	100.00
1- 4	.0288	+ 4.2	+ 4.0/+ 6.0	100.00
1- 5	0.0000	+ 2.0	+ 2.0/+ 2.0	100.00
1- 6	0.0000	+ 3.8	10.0/+ 8.0	115.42
1- 7	.0750	1.2	10.0/+ 6.0	97.67
1- 8	.0456	5.7	12.0/ 2.0	123.83
1- 9	0.0000	+ 2.6	10.0/+ 6.0	93.33
1-10	0.0000	+ 7.5	+ 6.0/+12.0	113.33
1-11	0.0000	+ 9.8	+ 8.0/+10.0	93.08
1-12	.3540	+ 8.2	+ 6.0/+12.0	92.58
1-13	.4500	+ 7.3	+ 6.0/+ 8.0	92.67
1-14	.4320	+ 5.7	+ 4.0/+ 8.0	94.83
1-15	.4320	+ 4.0	+ 4.0/+ 4.0	96.00
1-16	.1440	+ 4.0	+ 4.0/+ 4.0	97.33
1-17	0.0000	+ 2.2	0.0/+ 4.0	92.75
1-18	0.0000	0.0	0.0/ 0.0	92.83
1-19	.0288	+ .3	0.0/+ 2.0	93.00
1-20	.0624	0.0	0.0/ 0.0	93.92
1-21	.0288	0.0	0.0/ 0.0	92.83
1-22	.0432	0.0	0.0/ 0.0	92.58
1-23	0.0000	+ 2.0	0.0/+ 4.0	96.50
1-24	0.0000	+ 2.3	+ 2.0/+ 4.0	96.00
1-25	.2064	4.0	26.0/+ 2.0	92.17
1-26	0.0000	10.0	20.0/+ 4.0	94.00
1-27	0.0000	2.3	6.0/ 0.0	93.75
1-28	0.0000	+ 4.0	0.0/+10.0	91.83
1-29	0.0000	+ 9.3	+ 8.0/+10.0	93.83
1-30	0.0000	+13.7	+10.0/+16.0	94.67
1-31	0.0000	+13.2	+10.0/+14.0	93.58

MONTHLY AVERAGE FLOW: .0810 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 97.29

FLOWS TO DEEP WELL = 9

** MONTHLY REPORT FOR DEEPWELL # 9 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
2- 1	.4524	+ 4.5	+ 4.0/+ 6.0	92.50
2- 2	.5088	+ .7	2.0/+ 2.0	91.50
2- 3	.4728	6.1	10.0/ 3.0	91.33
2- 4	.1296	2.0	5.0/+ 4.0	91.00
2- 5	.4620	12.5	18.0/ 10.0	91.58
2- 6	.2760	2.3	14.0/+10.0	90.75
2- 7	.2952	+ 1.8	16.0/+ 6.0	93.33
2- 8	.2976	4.8	14.0/ 1.0	92.25
2- 9	.3360	3.5	12.0/+ 4.0	95.42
2-10	.3936	+ 3.5	+ 2.0/+ 8.0	92.58
2-11	.4416	+ 7.8	+ 4.0/+12.0	94.00
2-12	.5424	+13.3	+12.0/+14.0	96.50
2-13	.3720	+ 7.3	+ 4.0/+14.0	90.00
2-14	.2880	+ 1.1	3.0/+ 4.0	90.00
2-15	.4584	3.8	11.0/ 0.0	91.33
2-16	.4512	2.3	15.0/+ 6.0	92.17
2-17	.4620	+ 4.5	2.0/+10.0	93.00
2-18	.4800	+ 3.9	3.0/+ 6.0	85.42
2-19	.2640	8.1	28.0/+ 2.0	93.17
2-20	.4092	2.2	4.0/ 2.0	91.67
2-21	.3468	3.3	4.0/ 1.0	92.00
2-22	.3564	+ 1.3	4.0/+ 6.0	91.08
2-23	.3402	+ 1.0	0.0/+ 4.0	94.67
2-24	.4152	+ 2.3	4.0/+ 4.0	95.17
2-25	.2184	3.8	10.0/ 0.0	91.67
2-26	.4488	+ 6.2	+ 6.0/+ 8.0	94.00
2-27	.0360	+ 4.3	+ 2.0/+ 6.0	85.58
2-28	.1800	+ 1.3	16.0/+16.0	92.17
2-29	.4758	+ 3.8	6.0/+ 8.0	93.50

MONTHLY AVERAGE FLOW: .3659 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 92.05

FLOWS TO DEEP WELL # 9

** MONTHLY REPORT FOR DEEPWELL # 9 **

DATE	DAILY AVE. FLOW MGD	DAILY AVE. VACUUM INCHES HG	DAILY HI/LO VAC/PRESS(+) INCHES HG	DAILY AVE. ANNULAR PRESSURE
3- 1	.2160	10.0	15.0/ 7.0	93.17
3- 2	.0960	12.3	18.0/ 8.0	94.00
3- 3	.2280	7.8	12.0/ 0.0	93.33
3- 4	.2712	5.9	25.0/+12.0	93.17
3- 5	.3600	3.4	8.0/+10.0	92.17
3- 6	.4632	7.4	12.0/+ 6.0	91.50
3- 7	.3300	8.3	13.0/ 0.0	95.83
3- 8	.2880	5.3	10.0/+ 2.0	92.75
3- 9	.4320	1.8	8.0/+ 6.0	94.00
3-10	.4320	5.4	10.0/ 2.0	92.83
3-11	.4320	+ .1	12.0/+ 8.0	92.83
3-12	.4080	+ 3.3	+ 2.0/+ 8.0	91.33
3-13	.3840	+ .8	6.0/+ 2.0	92.00
3-14	.3948	.4	5.0/+ 2.0	97.00
3-15	.4140	+ 1.0	0.0/+ 4.0	101.00
3-16	.5052	+ 6.2	+ 2.0/+10.0	99.83
3-17	.4872	+ 1.1	4.0/+ 8.0	100.00
3-18	.5100	+ 3.7	2.0/+ 8.0	100.17
3-19	.5148	+ 6.3	+ 6.0/+ 8.0	102.00
3-20	.4968	+ 8.0	+ 6.0/+10.0	102.00
3-21	.4920	+ 9.5	+ 6.0/+10.0	102.50
3-22	.5484	+ 9.5	+ 8.0/+10.0	102.67
3-23	.5220	+ 5.7	+ 4.0/+10.0	102.83
3-24	.4584	+ 8.7	+ 8.0/+10.0	102.33
3-25	.4914	+ 6.8	+ 4.0/+10.0	102.00
3-26	.4512	+ 3.5	+ 2.0/+ 4.0	111.33
3-27	.4608	+ .8	2.0/+ 2.0	111.25
3-28	.4728	+ 2.3	+ 2.0/+ 4.0	110.33
3-29	.4656	+ 1.2	2.0/+ 2.0	111.75
3-30	.4158	4.0	11.0/ 0.0	109.75
3-31	.0720	+ 1.8	5.0/+ 4.0	110.00

MONTHLY AVERAGE FLOW: .4037 MGD
MONTHLY AVERAGE ANNULAR PRESSURE: 99.60