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439

#1-A 30-045-22489
#15 30-045-22137

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 16 Twp 31 Rng 10
Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM #1A, #15
cps 1212w,
Elevation 6110' Completion Date 6/28/78 Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 120' - 140' & 355' - 360'

Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 355', 340', 330', 320', 310', 300', 290', 280', 270', 260'
Depths vent pipes placed: 400'
Vent pipe perforations: 300'
Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐ *Comp #15*

Completion Date *6-28-78*

Well Name <i>BROOKHAVEN Com #1A</i>		Location <i>NW 16-31-10</i>		CPS No. <i>1212 W</i>	
Type & Size Bit Used <i>6 3/4"</i>				Work Order No. <i>57225-21</i>	
Anode Hole Depth <i>400-395TD</i>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
<i>1 355</i>	<i>2 340</i>	<i>3 330</i>	<i>4 320</i>	<i>5 310</i>	<i>6 300</i>
<i>7 290</i>	<i>8 280</i>	<i>9 270</i>	<i>10 260</i>		
Anode Output (Amps)					
<i>1 3.4</i>	<i>2 3.6</i>	<i>3 3.9</i>	<i>4 4.3</i>	<i>5 3.9</i>	<i>6 3.6</i>
<i>7 3.6</i>	<i>8 3.8</i>	<i>9 4.1</i>	<i>10 4.4</i>		
Anode Depth					
<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>
<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>		
Anode Output (Amps)					
<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>
<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>		
Total Circuit Resistance	No. 8 C.P. Cable Used			No. 2 C.P. Cable Used	
Volts <i>9.0</i>	Amps <i>10.8</i>	Ohms <i>.83</i>			

Remarks: *STATIC = .88 CABLE TOOLS DRILLED 50' 44' PIP SET 4' GRAVEL & 10' BOULDERS 26 1/2 HRS. DRILLED TO 400' LOGGED TO 395' DAMP AT 80 GOOD WATER AT 120-160' DRILL TO 260' WATER AT 30' NEXT AM. WATER AT 350-360' 300' 1" PERF. VENT 100'-1" PLAIN VENT*

DITCH #1 WIRE = 282'

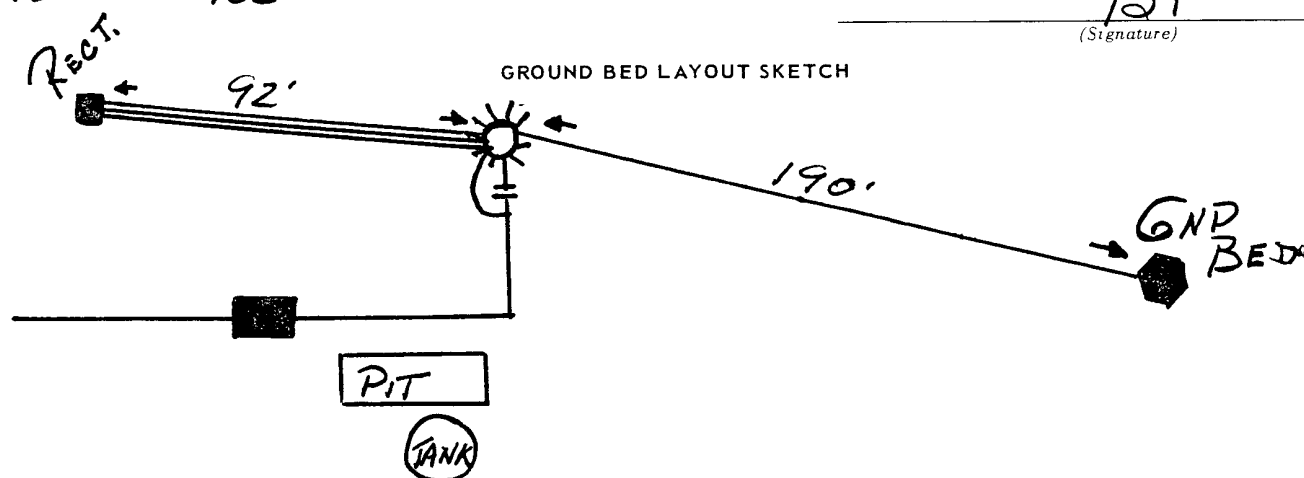
EXTRA WIRE = 184'

40/16T STUB POLE

HOLE = -105'

All Construction Completed

BT
(Signature)



DISTRIBUTION:

- WHITE - Division Corrosion Office
- YELLOW - Area Corrosion Office
- PINK - Originator File

6110

12 12 W

$$STATIC = .88$$

BROOK HAVEN Com #1A

NW 16-31-10

DRILLED TO 400' LOGGED TO 398' ^{2.5 gal/min} BOLE = 1.
DAMPAT 80' GOOD WATER SAND 120' TO 160' DRILLED TO
260 WATER STANDING AT 38' NEXT AM. WATER SAND
AT 350' TO 360' MAKING 20-30 GAL MIN. FILLED W/ WATER
TO 150' TO LOG. 300' 1" PERFORATED VENT 100' 1" PLAIN VENT

MW	gals/mol	
16 04	C ₁	6 4
30 07	C ₂	10 12
44 10	C ₃	10 42
58 12	iC ₄	12 38
58 12	nC ₄	11 93
72 15	iC ₅	13 85
72 15	nC ₅	13 71
86 18	iC ₆	15 50
86 18	C ₆	15 57
100 21	iC ₇	17 2
100 21	C ₇	17 46
114 23	C ₈	19 39
28.05	C ₂ ²	9 64
42.08	C ₃ ²	9 67

MW	MISC gals/mol	
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

100		60	3.2	- (10)
			3.0	
10		70	2.8	
			2.8	- (9)
20		80	2.8	
			2.6	- (8)
30		90	2.8	
			2.8	- (7)
40		300	2.6	
			2.5	- (6)
50	2.2	10	2.7	
	2.4		2.8	- (5)
60	2.6	20	3.0	
	2.4		3.0	- (4)
70	2.3	30	2.8	
	1.9		2.8	- (3)
80	2.8	40	2.6	
	3.3		2.4	- (2)
90	3.1	50	2.6	
	3.0		2.6	- (1)
200	2.7	60	2.6	
	2.3		2.2	
10	2.0	70	2.0	
	1.8		2.0	
20	1.6	80	2.1	
	1.5		2.8	
30	1.4	90	2.6	
	1.4		2.6	
40	1.4	400		
	1.4			
50	1.5			
	3.0			

$$9.0V \quad 10.8A = .83 \Omega$$

1 =	355 - 2.6 -	3.4
2 =	340 - 2.8 -	3.6
3 =	330 - 3.2 -	3.9
4 =	320 - 3.3 -	4.3
5 =	310 - 2.8 -	3.9
6 =	300 - 2.8 -	3.6
7 =	290 - 3.0 -	3.6
8 =	280 - 3.0 -	3.8
9 =	270 - 3.0 -	4.1
10 =	260 - 3.5 -	4.4

#1212-W

LEASE		WELL NO.		CONTRACTOR <i>Pasey</i>		RIG NO.		REPORT NO.		DATE <i>6-28</i>		19 <i>78</i>					
MORNING						DAYLIGHT						EVENING					
Driller _____ Total Men In Crew <i>400'</i>						Driller _____ Total Men In Crew _____						Driller _____ Total Men In Crew _____					
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.			
BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.
SERIAL NO.		NO. DC		SIZE	LENG.	SERIAL NO.		NO. DC		SIZE	LENG.	SERIAL NO.		NO. DC		SIZE	LENG.
SIZE		STANDS				SIZE		STANDS				SIZE		STANDS			
TYPE		SINGLES				TYPE		SINGLES				TYPE		SINGLES			
MAKE		DOWN ON KELLY				MAKE		DOWN ON KELLY				MAKE		DOWN ON KELLY			
TOTAL DEPTH						TOTAL DEPTH						TOTAL DEPTH					
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	WT.	Vis.				Time	WT.	Vis.				Time	WT.	Vis.			
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN			
REMARKS - <i>0-45 Cabel Tool</i>						REMARKS -						REMARKS -					
<i>45-60 Shale</i>						<i>280-355- Sandy Shale</i>						<i>making water 120-140</i>					
<i>60-110 Sand Stone</i>						<i>355-360 Sand making water</i>						<i>2-3 gal thin</i>					
<i>110-120 Shale</i>						<i>360-400 Sandy Shale</i>						<i>making water 355-360</i>					
<i>120-140 Sand wet</i>												<i>20-30 gal mi</i>					
<i>140-200 Shale</i>																	
<i>200-240 Sandy Shale</i>																	
<i>240-280 Shale</i>																	

SIGNED: Toolpusher

Company Supervisor

SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230

DATE COMPLETED 7-6-78

WELL NAME	LOCATION	DATE SECURED	GAL./ - DAY	PPM T.D.S.	pH	PPM CHLORIDES	PPM SULFATE
	S T R						
Jones A #1A MV	10-28-8	6-20	24	7452	7.0	4320	7840
Jones A #1A PC	10-28-8	6-20	1	39	6.8	13	1000
Lughes #4A	20-29-8	6-20	54	6858	7.2	4830	1280
Lay A #5A	18-29-8	6-20	38	7632	7.1	6320	2500
Lay #1A	17-29-8	6-20	80	6670	7.4	6390	500
Lay A #1A	17-29-8	6-20	106	7527	7.4	7170	1000
Lay #3A	18-29-8	6-20	42	6913	6.7	7170	1000
Lay A #2A	7-29-8	6-20	96	5887	7.6	6320	64
1 Paso #1A	20-29-9	6-17	8	9493	6.8	6745	7080
Lansfield #2A 1241-W	19-30-9	6-19		1019	7.3	24	1520
Luigley #1A 1275W	6-30-9	6-19		430	7.1	20	600
Lorance #2A 1220W	21-30-9	6-19		1373	7.3	16	2520
San Juan #11A 1252W	11-30-10	6-19		636	6.4	24	800
San Ray A #1A 1263W	15-30-10	6-19		210	6.2	8	600
Atlantic D Com #5A 1209W	12-30-10	6-19		1493	6.6	16	3000
Bernaghan #4A 1237W	30-31-8	6-19		432	7.3	12	600
Bernaghan #2A 1235W	28-31-8	6-19		190	7.2	16	680
Bernaghan #1A 1234W	33-31-8	6-19		571	6.9	32	800
Walker 1A 1271W	31-31-9	6-19		1664	7.0	32	3520
Atlantic A #8A 1199W	29-31-10	6-19		2637	7.1	152	5560
Atlantic "C" 4A 1200W	31-31-10	6-19		6720	7.7	504	9800
Cott #4A 1258W	17-31-10	6-19		4506	7.0	186	7760
Brookhaven Com A-1 1212W	16-31-10	6-19		3979	6.7	270	6920