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3A-30-045-21770

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

Operator MERIDIAN OIL Location: Unit SE Sec. 31 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL D #3A

cps 1094w

Elevation 6362' Completion Date 5/31/77 Total Depth 630' 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. DAMP AT 155' WET AT 190' WATER AT 530'

Depths gas encountered: 630'

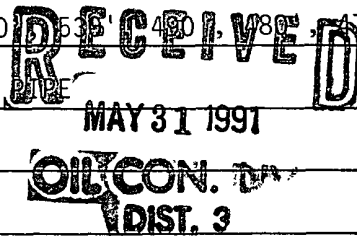
Type & amount of coke breeze used: 55 SACKS

Depths anodes placed: 580', 570', 560', 550', 540', 530', 480', 470', 460'

Depths vent pipes placed: 580' OF 1" PVC VENT

Vent pipe perforations: 400'

Remarks: gb #1



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

Hand File

Drilling Log (Attach Hereto). ☐ *#5*

Completion Date *5-31-77*

Well Name Howell "D" #3A				Location SE 31-31-8				CPS No. 1094W	
Type & Size Bit Used 6 3/4"								Work Order No. 57077	
Anode Hole Depth <i>630 - 620</i>		Total Drilling Rig Time		Total Lbs. Coke Used		Lost Circulation Mat'l Used		No. Sacks Mud Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9
	580	570	560	550	540	530	490	480	470
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9
	2.6	2.5	3.4	3.7	4.2	2.5	2.0	3.0	3.0
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19
Total Circuit Resistance				No. 8 C.P. Cable Used				No. 2 C.P. Cable Used	
Volts 10.8		Amps 13.5		Ohms 0.80					

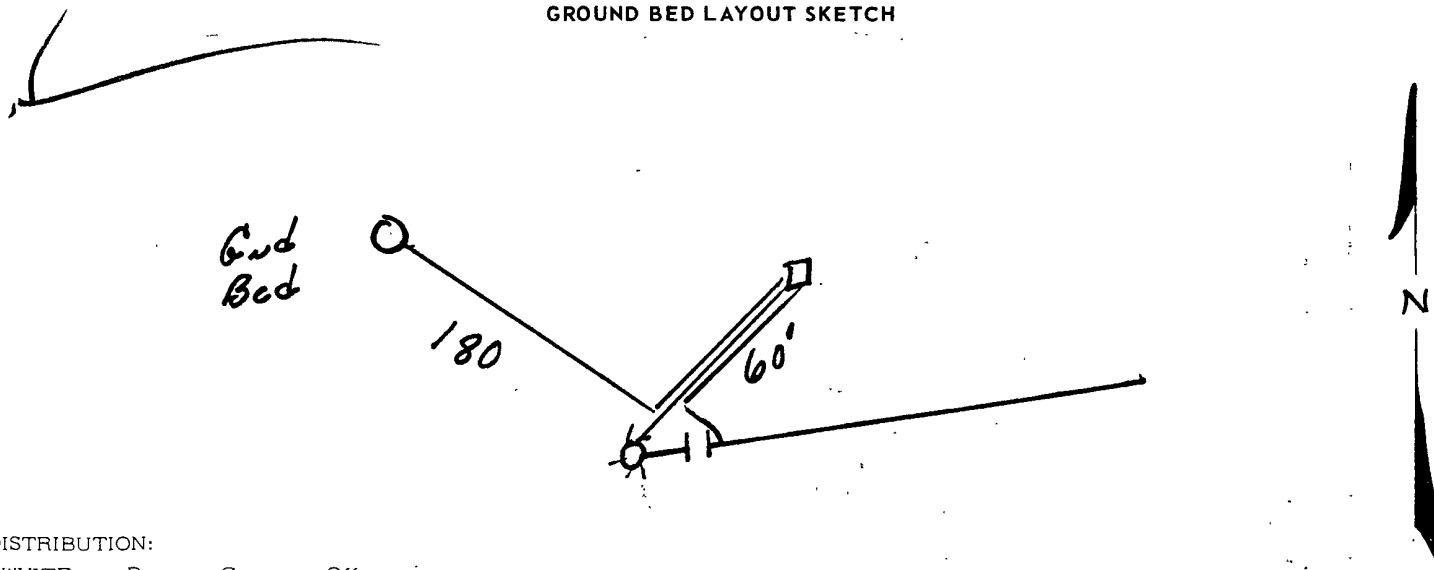
Remarks: *DRILLER SAID DAMP @ 155' wet @ 190. STARTED MAKING SOME WATER @ 530. STARTED ENJ. @ 530'. HOLE STARTED MAKING GAS @ 630'. STOPPED DRILLING. FILLED HOLE TO 300' & LOGGED. INSTALLED 580' OF 1" PVC VENT PIPE. PERFORATED VENT PIPE 400'. SLURRIED 55 SACKS OF COKE*

*Rectifier & Rectifier
Pole needs to be installed*

All Construction Completed

W. L. Lott
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6362

DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher

____ Company Supervisor

580
1000
720

Howe L L "D" #3A

1094 W

MW	gas/mol
16	C ₁ 6.4
10	C ₂ 7.55
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 13.93
72	IC ₄ 13.85
86	NC ₅ 15.71
86	IC ₅ 15.50
100	C ₆ 17.2
114	C ₇ 19.46
128	C ₈ 21.38
142	C ₉ 23.64
156	C ₁₀ 26.17

MW	MISC.	gas/mol
44	CO ₂	9.38
44	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.18

Driller Said Dam									
100		70		40	1.0	10	.7		②
					1.3		.7		Perforated 400'
10		80		50	1.5	70	.7		at 1" PVC Vent Pipe
					1.6				Started to make
20		90		60	1.7	⑩	30		some water @ 530
					1.6				Started Inj. ⑩
30		300	.4	70	1.5	⑨	40		Hole started to
			.4		1.4				make gas @ 630'
40		10	1.1	80	1.3	⑧	50		stopped Drilling,
			1.4		1.3				TD 620
50		20	1.4	90	1.2	⑦	60		
			.9		1.0				
60		30	1.0	500	1.0		70		
			1.1		1.0				
70		40	1.1	10	1.0		80		
		⑩	1.4		1.0				
80		50	1.6	20	.7		90		
			1.6		.2				
90		60	1.6	30	1.3	⑥	700		
			.9		1.9				① 580 - 1.7 - 2.6
200		70	.7	40	1.9	⑤			② 570 - 1.6 - 2.5
			.8		1.8				③ 560 - 2.0 - 3.4
10		80	.9	50	1.6	④			④ 550 - 2.7 - 3.7
			.8		1.3				⑤ 540 - 3.1 - 4.2
20		90	.5	60	1.3	③			⑥ 530 - 1.5 - 2.5
			.3		1.3				⑦ 490 - 1.6 - 2.0
30		400	.3	70	1.3	②			⑧ 480 - 2.0 - 3.0
			.3		1.2				⑨ 470 - 2.0 - 3.0
40		10	1.3	x 80	1.3	①			⑩ 460 2.4 - 3.1
			1.3		1.3				
50		20	1.3	90	1.3				10.80 13.5
			1.3		1.0				
60		30	1.1	600	.7				0.80 ~
			.8		.5				