

729

4A - 30-045-21660

E

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. 3 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL J #4A

cps 1051w

Elevation 6208' Completion Date 8/4/76 Total Depth 670' 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. 320'

Depths gas encountered: N/A

Type & amount of coke breeze used: 65 SACKS

Depths anodes placed: 650', 640', 625', 615', 506', 595', 585', 575', 565', 525'

Depths vent pipes placed: N/A

Vent pipe perforations: 456'

Remarks: gb #1

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MAY 31 1991.
OIL CON. DIV
DIST

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
CAT. JIC PROTECTION CONSTRUCTION RE
DAILY LOG

AT

Drilling Log (Attach Hereto). ☐

Completion Date **8-4-76**

Well Name Howell J#4A		Location NW 3-30-8		CPS No. 1051W	
Type & Size Bit Used 63/4				Work Order No. 57004	
Anode Hole Depth Log 670	Total Drilling Rig Time	Total Lbs. Coke Used 65	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 650	# 2 640	# 3 625	# 4 615	# 5 605	# 6 595
# 7 585	# 8 575	# 9 565	# 10 525		
Anode Output (Amps)					
# 1 2.2	# 2 1.8	# 3 3.0	# 4 3.2	# 5 2.6	# 6 4.1
# 7 4.4	# 8 4.4	# 9 3.6	# 10 2.5		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance					
Volts 11.7	Amps 14.0	Ohms 0.83			
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

Remarks: **Drill with Air to 380' - Water Next A.M. at 320**
Start Water Injection Drill to 680' - Water Next A.M. at 320

Vent Perforated 456

Slurry 65 Coke

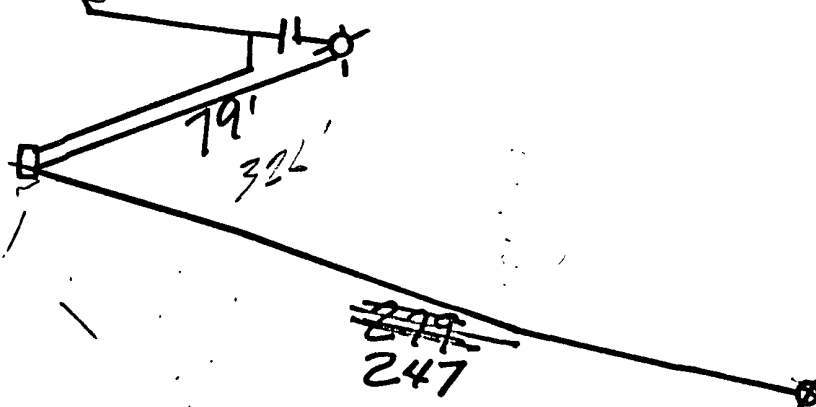
Had Bridge Trouble. Deep - Pulled #2 Anode up From Formation - Did Not Go Back Down Did Not Respond.

Construction Completed

Daniels
(Signature)

GROUND BED LAYOUT SKETCH

2248.50 Depth
1536.10
170.20
78.24
321.64
4354.38
273.40
390.20
194.50
5326.45



976

EVENING

[illegible]

____ Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

1051W Howell J# 4A

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	9.64
42.08	C ₃	9.67

320	SUS	8	Drill to 320 with air
30	50	1.3	Tight at 320-
40	60	1.2	Wtr Next Annul 320
		2.0	Starting Drill to 680
50	70	2.0	
		2.2	
60	80	2.4	
		2.5	
70	90	2.6	
		2.9	
80	100	2.9	
		3.1	
90	110	1.7	
		2.2	
100	120	2.1	
		2.0	
110	130	1.6	
		1.4	
120	140	1.9	
		2.3	
130	150	2.0	
		1.5	
140	160	9	
		1.2	
150	170	T.D.	
160			
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970			
980			
990			
1000			

Vent Perf 456
Slurry 65 cote

1	650	1.9	2.2
2	640	2.1	1.8
3	625	2.1	3.0
4	615	2.4	3.2
5	605	1.8	2.6
6	595	3.4	4.1
7	585	3.4	4.4
8	575	2.9	4.4
9	565	2.7	3.6
10	525	2.0	2.5

83
34.11.70 140A =

100
120

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