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738

1A- 30-045-21720
303- 30-045-26933

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. 21 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL K #1A, #303

cps 1059w

Elevation 5857' Completion Date 8/10/76 Total Depth 287' 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. WET AT 70'

Depths gas encountered: N/A

Type & amount of coke breeze used: 42 SACKS

Depths anodes placed: 280', 270', 260', 250', 230', 220', 210', 200', 145', 135'

Depths vent pipes placed: N/A

Vent pipe perforations: 198'

Remarks: qb #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
CA1 DIC PROTECTION CONSTRUCTION RE. RT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 8-10-76

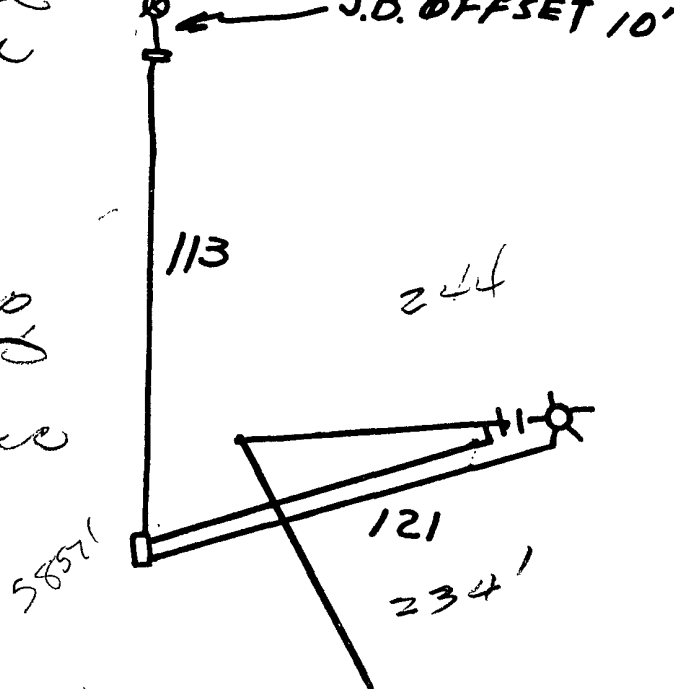
Well Name Howell K #1A		Location NW 21-30-8		CPS No. 1059W	
Type & Size Bit Used 6 3/4		Work Order No. 57026			
Anode Hole Depth 409 287	Total Drilling Rig Time	Total Lbs. Coke Used 42	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 280	# 2 270	# 3 260	# 4 250	# 5 230	# 6 220
# 7 210	# 8 200	# 9 145	# 10 135		
Anode Output (Amps)					
# 1 2.1	# 2 2.9	# 3 3.3	# 4 2.5	# 5 2.6	# 6 4.2
# 7 4.5	# 8 3.7	# 9 2.9	# 10 2.7		
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		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 12.1	Amps 13.5	Ohms 0.9			

Remarks: **Driller said wet at 70 - start injection**
Drill to 290 - Water Next AM at 123'
Vent Perforated 198'
Slurry 42 Sacks Coke

All Construction Completed

Donels
(Signature)

GROUND BED LAYOUT SKETCH



19 2/

EVENING

____ Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
Date: _____
By: _____
File: _____

Howell K#1A - 8-10-76

Driller said wet at 70'
Wtr Next AM at 123'

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

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

70					
80					
90					
100					
110					
120					
130	1.6				
140	1.0				
150	1.2				
160	2.4				
170	1.5				
180	8				
190	9				
200	8				
210	8				
220	7				
230	7				
240	7				
250	1.6				
260	2.0				
270	2.2				
280	2.7				
290	2.6				
300	4.2				
310	4.5				
320	3.7				
330	2.9				
340	2.7				
350	2.7				
360	2.7				
370	2.7				
380	2.7				
390	2.7				
400	2.7				
410	2.7				
420	2.7				
430	2.7				
440	2.7				
450	2.7				
460	2.7				
470	2.7				
480	2.7				
490	2.7				
500	2.7				
510	2.7				
520	2.7				
530	2.7				
540	2.7				
550	2.7				
560	2.7				
570	2.7				
580	2.7				
590	2.7				
600	2.7				
610	2.7				
620	2.7				
630	2.7				
640	2.7				
650	2.7				
660	2.7				
670	2.7				
680	2.7				
690	2.7				
700	2.7				
710	2.7				
720	2.7				
730	2.7				
740	2.7				
750	2.7				
760	2.7				
770	2.7				
780	2.7				
790	2.7				
800	2.7				
810	2.7				
820	2.7				
830	2.7				
840	2.7				
850	2.7				
860	2.7				
870	2.7				
880	2.7				
890	2.7				
900	2.7				
910	2.7				
920	2.7				
930	2.7				
940	2.7				
950	2.7				
960	2.7				
970	2.7				
980	2.7				
990	2.7				
1000	2.7				

Vent Perf. 198'

1	280	1.4	2.1
2	270	2.0	2.9
3	260	2.4	3.3
4	250	1.5	2.5
5	230	1.7	2.6
6	220	3.0	4.2
7	210	3.1	4.5
8	200	2.4	3.7
9	145	1.8	2.9
10	135	1.9	2.7

13.5 12.10V 13.5A = 0.9V

95
300