

4386

30-045-12165

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 5 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL A #2

cps 12w

Elevation 6378' Completion Date 9/13/84 Total Depth 620' 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. 140' & 550'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: N/A

Depths anodes placed: 545', 54', 530', 480', 476', 462', 420', 410', 385', 280'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #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) ☐

Completion Date 6/21/74

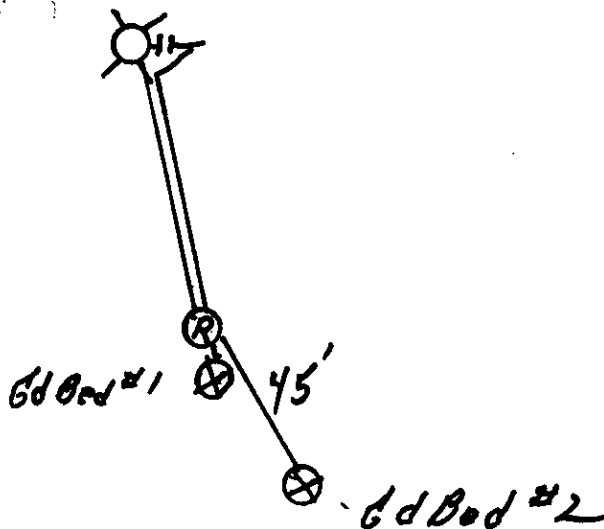
Well Name <u>Howell A #2</u>		Location <u>SW 5-30N-8W</u>		CPS No. <u>12W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>184-52010-19-50</u>	
Anode Hole Depth <u>580'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>10,400.55</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>500</u>	#2 <u>490</u>	#3 <u>480</u>	#4 <u>470</u>	#5 <u>460</u>	#6 <u>440</u>
#7 <u>430</u>	#8 <u>420</u>	#9 <u>380</u>	#10 <u>365</u>		
Anode Output (Amps)					
#1 <u>2.8</u>	#2 <u>2.8</u>	#3 <u>3.5</u>	#4 <u>3.6</u>	#5 <u>2.6</u>	#6 <u>2.2</u>
#7 <u>2.7</u>	#8 <u>2.0</u>	#9 <u>2.6</u>	#10 <u>1.8</u>		
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 <u>11.5</u>	Amps <u>10.0</u>	Ohms <u>1.15</u>		<u>50'</u>	

Remarks: Drilled Hole #1 Cased and Filled in To 485'. Drilled Hole #2 To 580' Driller said water @ 100' water standing in Hole @ 360' After 45 minutes. Vent Hose Perforated 400'. Pumped Above Top Anode 1 load water. Pump Hose stuck @ 325' unable to pull. Pumped second load water.

All Construction Completed

Eduard R. Paulik
(Signature)

GROUND BED LAYOUT SKETCH



STORM WATER WELL DRILLING INC.

GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Hole #2

Date 6-21-74

Location _____
City Springer State N.M. County _____

INJECTION AT 100
WATER AT 350

C.P.S. Time _____

S.W.W.D.I. Time _____

Total Footage _____

Approval of
C.P.S. Engineer _____

C.P.S. Engineer _____

Helper _____

Approval of
C.P.S. Engineer _____

Hole #1

12W 6-13-74 X=8.7

MW	gas/mol
16	C ₁ 5.4
30	C ₂ 9.56
44	C ₃ 10.42
58	C ₄ 12.16
72	C ₅ 11.93
86	C ₆ 13.85
100	C ₇ 13.71
114	C ₈ 15.50
128	C ₉ 15.57
142	C ₁₀ 17.2
156	C ₁₁ 17.46
170	C ₁₂ 19.38
184	C ₁₃ 19.64
198	C ₁₄ 21.67

100	.6	280		60	.5	Driller Said water at 100
	.6	⑤	1.1	①	1.0	Water level at 250 overnight
10	.6	90	.6	70	1.1	Water stand 360' at 100
	.5		⑤	1.2	30 min @ 1:30 PM 52	
20	.4	300	.4	80	1.4	Hole Filled and chd
	.2		3	②	1.1	to 485 in 30 min
30	.2	10	.2	90	.9	usable to 450
	.2		①	.9		
40	.2	30	.2	500	.7	
	.2		3	.7	BET 52	
50	.2	30	.2	10		
	.2		2			
60	.2	40	.4			Water
	.4	70	.4	1	495	
70	.6	40		2	485	
	.6			3	475	
80	.2	50		4	465	
	.2			5	440	
90	.2	60	.6	6	430	
	.8		.3	7	395	
100	.7	70	.1	8	385	
	.6		.6	9	375	
110	.5	80	1.1	10	340	
	.6	⑤	1.0			
120	.6	400	.2			
	.5		.2			
30	.4	10	.2			
	.2		.3			
① 40	1.0	20	.5			
	.7		1.0			
50	.4	⑥ 30	1.0			
	.4		.8			
60	.5	⑤ 40	.9			
	.7		.7			
70	.8	50	.6			
② 80	1.2		.5			

MW	gas/mol
16	C ₁ 5.4
30	C ₂ 9.56
44	C ₃ 10.42
58	C ₄ 12.16
72	C ₅ 11.93
86	C ₆ 13.85
100	C ₇ 13.71
114	C ₈ 15.50
128	C ₉ 15.57
142	C ₁₀ 17.2
156	C ₁₁ 17.46
170	C ₁₂ 19.38
184	C ₁₃ 19.64
198	C ₁₄ 21.67

12 hr

Hole #2

X = 8.7

MW	gas/mol
16	C ₁ 8.4
30	C ₂ 9.56
44	C ₃ 10.42
58	C ₄ 12.38
72	C ₅ 13.85
86	C ₆ 15.50
100	C ₇ 17.2
114	C ₈ 19.38
128	C ₉ 21.64
142	C ₁₀ 24.07

360	.4	400	2.01	Drilling fluid water	
	.7		2.2	@ 100'	
70	.6	500	1.4	Water standing @ 360'	
	.3		1.9	Water 45 min	
80	.2	60	1.9	vent case perforated	
	1.0		1.1	HAC	
90	1.0	70	1.1	T Start loading Anode 11:45	
	.4	574	Bot	Pumped Above Anodes	
400	.3	80		1 load water pump	
	.3			Hose stuck @ 325'	
10	.3			unable to pull	
	.4				
20	.8			Water O.K.	
	.7	1	420	.9	2.8
30	.9	2	490	1.1	2.8
	.9	3	480	1.2	3.5
40	.7	4	470	1.2	3.6
	.6	5	460	1.0	2.6
50	.5	6	440	1.0	2.2
	.5	7	430	1.0	2.7
60	.9	8	420	1.0	2.0
	1.0	9	380	1.0	2.6
70	1.1	10	365	.8	1.8
	1.4				
80	1.2		11.5V	10.00	1.15
	1.1				
90	1.1				
	1.0				
500	.6				
	.6				
10	.6				
	.7				
20	.7				
	.4				
30	1.9				
	2.0				

Pumped second load water
measured 100' NO O.K.
Told Contractor to pump
to water zone

MW	MISC.	gas/mol
44	CO ₂	5.38
72	N ₂	4.16
72	H ₂	3.58

Pumped second load water
measured 100' no cable
told contractor to pump
to water zone