

1A- 30-045-21776
350- 30-045-26921

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. 28 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL D #1A, #350

cps 995w

Elevation 6520' Completion Date 7/28/76 Total Depth 549' 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. 340'

Depths gas encountered: N/A

Type & amount of coke breeze used: 64 SACKS

Depths anodes placed: 495', 485', 475', 465', 455', 445', 415', 370', 360', 350'

Depths vent pipes placed: N/A

Vent pipe perforations: 325'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 2

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

Log 995W
Completion Date **7-28-76**

Drilling Log (Attach Hereto). ☐

Well Name Howell D #1A		Location NW 28-31-8		CPS No. 995W	
Type & Size Bit Used 6 3/4				Work Order No. 57041	
Anode Hole Depth 409 549		Total Drilling Rig Time 64		Lost Circulation Mat'l Used	
Anode Depth		Total Lbs. Coke Used		No. Sacks Mud Used	
# 1 495	# 2 485	# 3 475	# 4 465	# 5 455	# 6 445
# 7 415	# 8 370	# 9 360	# 10 350		
Anode Output (Amps)					
# 1 2.3	# 2 2.5	# 3 3.0	# 4 3.7	# 5 3.3	# 6 2.2
# 7 1.9	# 8 2.0	# 9 2.5	# 10 3.0		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance				No. 8 C.P. Cable Used	
Volts 12.0	Amps 11.5	Ohms 1.0 Ω			No. 2 C.P. Cable Used

Remarks: **Drill to 460 with air. Got Logging Anode to 340' Next A.M. - Anode was Muddy when Retrieved Ran Pipe Back & Start injection & Drilled to 560' Fill with water to 340' & Log to 549' Vent Perforated 325' Slurry 64 Sacks Coke**

All Construction Completed

Sorels
(Signature)

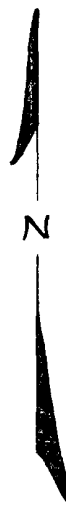
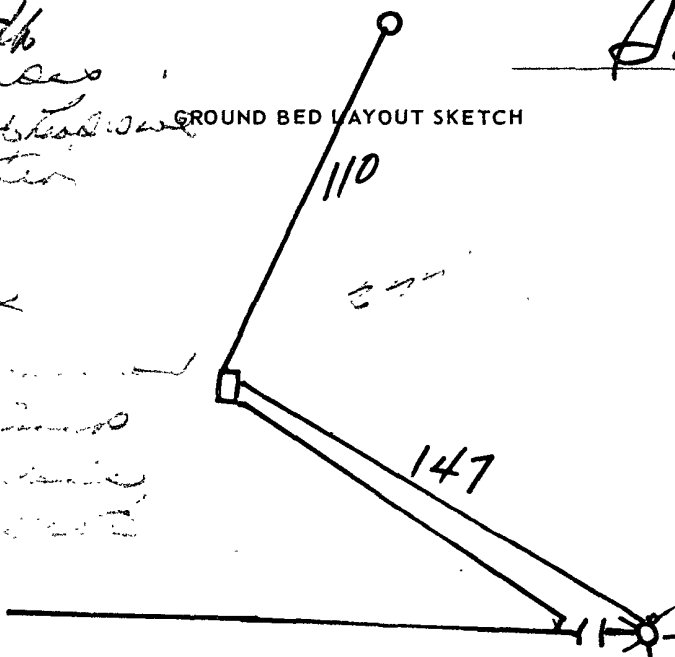
2248.50
1955.20 Depth
170.00 inches
229.57 ~~inches~~
00.48 ~~inches~~

3669.75
146.79 ft

3816.54
213.40 inches
384.00 inches
194.50 inches

4208.44

GROUND BED LAYOUT SKETCH



6500

DAILY DRILLING REPORT

PS # 9952

LEASE *Hibbels* WELL NO. *#118* CONTRACTOR *Motrow* RIG NO. *33* REPORT NO. _____ DATE *7/29* 19*76*

MORNING

DAYLIGHT

EVENING

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.					
0	50	<i>Sand</i>			130	140	<i>Sand</i>			460	490	<i>Bested off</i>							
50	80	<i>Dry shale</i>			140	200	<i>Dry shale</i>			490	560	<i>Shale</i>							
80	100	<i>Sand</i>			200	460	<i>Sand</i>			560	590	<i>Sand</i>							
100	130	<i>Dry shale</i>			<i>Intersected at 2180</i>					<i>Hole lost at 549</i>									
				NO. DC	SIZE	LENG.					NO. DC	SIZE	LENG.						
BIT NO.				NO. DC				SIZE	LENG.	BIT NO.				NO. DC				SIZE	LENG.
SERIAL NO.				STANDS				SERIAL NO.				STANDS							
SIZE				SINGLES				SIZE				SINGLES							
TYPE				DOWN ON KELLY				TYPE				DOWN ON KELLY							
MAKE				TOTAL DEPTH				MAKE				TOTAL DEPTH							
MUD RECORD				MUD, ADDITIVES USED AND RECEIVED				MUD RECORD				MUD, ADDITIVES USED AND RECEIVED							
Time				Time				Time				Time							
WT.				Vis.				WT.				Vis.							
FROM				TO				FROM				TO							
TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN							
REMARKS -				REMARKS -				REMARKS -				REMARKS -							

SIGNED: Toolpusher _____ Conf my supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

495
321
17

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	9.84
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

995W

50		525	16	Drill to 460 With air -
10		30	4	Drill Pipe Nct at 340
20		40	3	Boot at 340 Next A.M.
30		50	549TD	Log Above Muddy -
40		60		Ran Drill Pipe Back
50	1.0			Drill to 560 With air
60	1.6			Fill to 340 & Log to 549
70	1.5			
80	1.4			
90	1.1			
100	.8			
110	.5			
120	.4			
130	.4			
140	.6			
150	.8			
160	.8			
170	.8			
180	1.1			
190	.8			
200	.6			
210	.6			
220	.6			
230	.7			
240	1.0			
250	1.3			
260	1.4			
270	1.7			
280	1.7			
290	1.5			
300	1.6			
310	1.7			
320	1.4			
330	1.3			
340	1.3			
350	.9			
360	.8			
370	.6			
380	.6			
390	.6			

Drill to 460 With air -
Drill Pipe Nct at 340
Boot at 340 Next A.M.
Log Above Muddy -
Ran Drill Pipe Back
Drill to 560 With air
Fill to 340 & Log to 549

Vent Perf. 325
64 Coke

1	495	16	2.3
2	495	17	2.5
3	475	16	3.0
4	465	22	3.7
5	455	19	3.3
6	445	15	2.2
7	435	13	1.9
8	370	15	2.0
9	360	19	2.5
10	350	22	3.0

115 120V 115A = 1.57 ~