

2 = 30-045-09519
300 = 30-045-26918

3562

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

Operator MERIDIAN OIL INC. Location: Unit A Sec. 14 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL E #2, #300
cps 2096w

Elevation 5704' Completion Date 6/14/77 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths 36' OF 8 5/8" JUNK CASING

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. 195'

Depths gas encountered: N/A

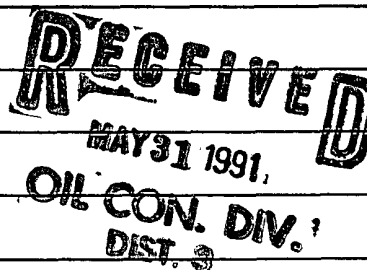
Type & amount of coke breeze used: N/A

Depths anodes placed: 275', 265', 255', 245', 235', 225', 215', 205'

Depths vent pipes placed: 275'

Vent pipe perforations: 100'

Remarks: gb #4



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). ☐

300

Completion Date 6-14-77

Well Name <u>Howell E #2</u>		Location <u>NE 14-30-8</u>		CPS No. <u>17W 2094</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>52029</u>	
Anode Hole Depth <u>380-</u>	Total Drilling Rig Time <u>298</u>	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>275'</u>	# 2 <u>265'</u>	# 3 <u>255'</u>	# 4 <u>245'</u>	# 5 <u>235'</u>	# 6 <u>225'</u>
# 7 <u>215'</u>	# 8 <u>205'</u>	# 9	# 10		
Anode Output (Amps)					
# 1 <u>3.1</u>	# 2 <u>3.2</u>	# 3 <u>5.2</u>	# 4 <u>5.0</u>	# 5 <u>3.6</u>	# 6 <u>2.6</u>
# 7 <u>3.7</u>	# 8 <u>4.7</u>	# 9	# 10		
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>12.3</u>	Amps <u>15</u>	Ohms <u>0.82</u>			

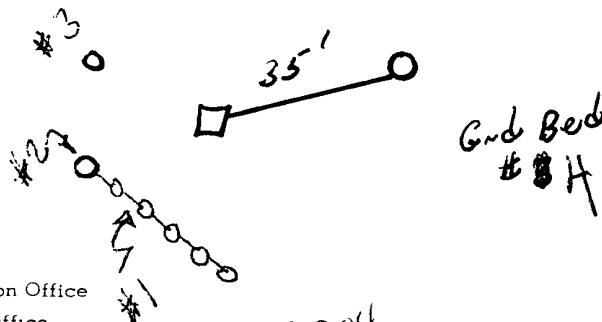
Remarks: 5- Anode Gnd. Bed. Added 3 EXTRA Anodes Installed 36' of
8 5/8" Junk Casing. Charged 46' of 8 5/8" Junk Casing. Driller said
started making water @ 195'. Did not have to try. Next AM water
standing @ 50'. Logged Hole. Logging Anode stopped @ 298'. Perforated
100' of 1" PVC Vent Pipe. Installed 275' of 1" PVC Vent Pipe
shipped 46 SACKS of COKE

All Construction Completed

W. Z. Lued

(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

5704

Howells E #2 NE 14-30-8

52029

17 W

MW	gas/mol
16	C ₁ 6.4
20	C ₂ 9.56
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 11.93
72	NC ₅ 13.65
86	IC ₅ 15.50
100	GC ₆ 15.57
100	IC ₆ 17.2
114	C ₇ 17.46
114	C ₈ 19.38
128	C ₉ 9.44
142	C ₁₀ 9.57

MW	MISC	gas/mol
44	CO ₂	0.28
44	N ₂	5.17
28	H ₂	4.16
2	H ₂	3.38

46' of Junk Pipe
Set 36' of 8 5/8" O.D. casing
started making water @ 195'
Driller did not have to trip.
Perforated 100' of 1" PVC vent pipe
+ installed 225' of 1" PVC vent pipe
Next fm water standing @ 50'

100	2.1	40	2.4
	2.2		2.3 (4)
10	2.2	50	1.8
	2.8		1.2 (3)
20	2.4	60	1.4
	1.8		1.3 (2)
30	1.6	70	1.9
	1.5		1.7 (1)
40	1.5	80	1.4
	1.5		1.3
50	1.7	90	1.6
	1.8		2.98 T.D
60	1.5	300	
	1.3		
70	1.3	10	
	1.3		
80	1.3	20	
	1.4		
90	1.6	30	
	1.6		
200	2.4	40	
	1.4 (8)		
10	1.4	50	
	1.3 (7)		
20	1.2	60	
	1.9 (6)		
30	1.6	70	
	2.4 (5)		

380 logged 298
Shut in 46 SACKS
of COKE

(1) 225 - 2.0 - 3.1
(2) 235 - 2.0 - 3.2
(3) 255 - 3.5 - 5.2
(4) 245 - 3.3 - 5.0
(5) 235 - 2.2 - 3.6
(6) 235 - 1.5 - 2.6
(7) 210 - 1.9 - 3.7
(8) 205 - 3.0 - 4.7

12.3 Volts 15 Amps 0.82 ~

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE		WELL NO. <i>rw</i>		CONTRACTOR <i>Pony</i>		RIG NO.		REPORT NO.		DATE <i>6-14-</i>		19 <i>77</i>					
MORNING					DAYLIGHT					EVENING							
Driller _____ Total Men In Crew _____					Driller <i>Pony</i> 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.			
BIT NO.		NO. DC _____ SIZE _____ LENG. _____		BIT NO. <i>6 3/4</i>		NO. DC _____ SIZE _____ LENG. _____		BIT NO.		NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____					
SERIAL NO.		STANDS		SERIAL NO.		STANDS		SERIAL NO.		STANDS		SERIAL NO.					
SIZE		SINGLES		SIZE		SINGLES		SIZE		SINGLES		SIZE					
TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE					
MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		MAKE					
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN					
<i>40</i>	<i>50</i>	<i>shale</i>			<i>160</i>	<i>165</i>	<i>shale</i>			<i>565</i>	<i>380</i>	<i>Sandy shale</i>					
<i>50</i>	<i>55</i>	<i>Sand stone</i>			<i>165</i>	<i>190</i>	<i>Sand wet making water</i>										
<i>55</i>	<i>60</i>	<i>Sand wet</i>			<i>190</i>	<i>320</i>	<i>shale</i>										
<i>60</i>	<i>135</i>	<i>shale</i>			<i>320</i>	<i>340</i>	<i>Sand stone</i>										
<i>135</i>	<i>140</i>	<i>Sand Dry</i>			<i>340</i>	<i>350</i>	<i>Sandy shale</i>										
<i>140</i>	<i>140</i>	<i>Sand wet gm</i>			<i>350</i>	<i>365</i>	<i>shale</i>										
REMARKS -					REMARKS -					REMARKS -							

SIGNED: Toolpusher _____

Company Supervisor _____