

4A-30-045-21783
302-30-045-20875

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

Operator MERIDIAN OIL Location: Unit J Sec. 34 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL L #4A, #302

cps 1098w

Elevation 6285' Completion Date 6/15/88 Total Depth 520' 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 80', 150', 170' WATER AT 280'

Depths gas encountered: N/A

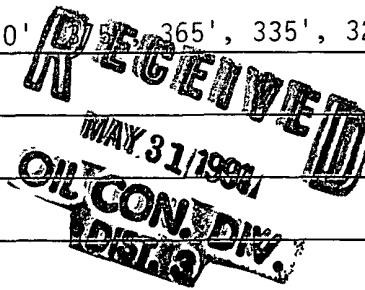
Type & amount of coke breeze used: N/A

Depths anodes placed: 495', 485', 420', 410', 400', 365', 335', 325', 315'

Depths vent pipes placed: 520

Vent pipe perforations: 420'

Remarks: gb #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

Drilling Log (Attach Hereto) ☐

Comp 6-21-88

Completion Date 6/15/88

CFS #	Well Name, Line or Plant	Work Order #	Strat.	Ins. Union Check
1098V	Howell L-4A Howell L-3P2	2047988A 071056808		☐ Good ☐ Bad NO INS. UNIONS ON HOWELL L-3C
Location	Anode Size	Anode Type	Size Bit	
J-34-30-8	2" x 60"	Durion	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Cable Used	Lost Circulation Mat. Used
520'	520'			
Anode Details				
= 1 495	= 2 485	= 3 420	= 4 410	= 5 400
= 6 375	= 7 365	= 8 335	= 9 325	= 10 315
Anode Output (Amps)				
= 1 3.7	= 2 3.6	= 3 3.4	= 4 3.6	= 5 3.2
= 6 2.9	= 7 3.0	= 8 2.8	= 9 2.6	= 10 2.7
Anode Details				
= 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 11.9 Amps 13.1 Ohms .91				

Remarks: WATER AT 80, 150, 170 & LOTS of WATER AT 280, Did NOT get WATER SAMPLE. INSTALLED 520' of 1" P.V.C. Vent pipe, Perforated 420'.

G.B. \$ 4074.00 ✓

Rectifier Size: — V — A

Add'l Depth: +20' 140.00 ✓

Depth Credit: —

Extra Cable: 20' 4.80 ✓

Ditch & 1 Cable: 340' 238.00 ✓

25' Meter Pole: —

20' Meter Pole: —

10' Stub Pole: —

Junction Box: 1 225.00 ✓

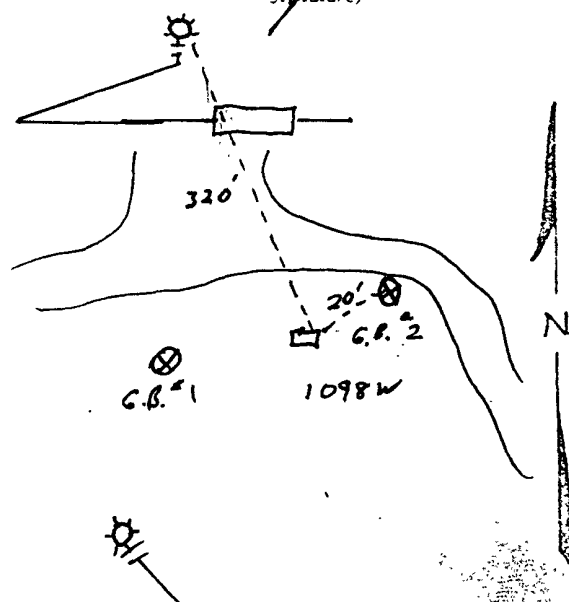
4681.80

TAX 234.09

B 4915.89 OK

All Construction Completed

Signature



6285

②

D. Crass DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Howell "L" 302 Date 6-14-88
Client Meridian Oil Co. Prospect _____
County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance
and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
185	200	SANDstone
200	210	Shale
210	270	SANDstone
270	285	SAND ✓
285	315	SANDstone
315	330	SANDy Shale
330	400	SANDstone
400	440	Shale
440	520	SANDstone & SANDy Shale

Mud _____ Brm _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: _____

Driller RONNIE BROWN

①

D. Crass DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Howell "L" 302 Date 6-14-88
Client Meridian Oil Co. Prospect _____
County SAN JUAN State New Mexico

If hole is a redrill or if moved from original staked position show distance
and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
0	75	SANDstone
75	80	SAND ✓
80	95	Shale
95	110	SANDy Shale
110	125	SANDstone
125	135	Shale
135	140	SANDstone
140	150	SAND ✓
150	155	Shale
155	160	SANDstone
160	170	SAND ✓
170	185	Shale

Mud _____ Brm _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 80' 150' 170'
And 280'

Driller RONNIE BROWN

Cathodic Protection Services Co.

1608 Schenfield Ln.

P.O. Box 3

Farmington, NM 87499

(505) 327-9215

(505) 325-1946

Date

6/15/88

Company Meridian O.L.Well No. Howell L-302 Location J-34-30-8 Volts Applied 11.9 V Amperes 13.1 A

5		230		455	1.0	680	
10		235		460	1.2	685	
15		240		465	1.3	690	1-495- 2.4-3.7
20		245		470	1.3	695	2-485- 2.2-3.6
25		250		475	1.4	700	3-470- 2.3-3.4
30		255		480	1.5	705	4-410- 2.1-3.6
35		260		485	1.6- (2)	710	5-400- 2.0-3.2
40		265		490	1.8	715	6-375- 2.1-2.9
45		270	.8	495	1.9- (1)	720	7-365- 2.0-3.0
50		275	1.0	500	1.9	725	8-325- 2.0-2.8
55		280	.8 WATER	505	1.6	730	9-325- 1.9-2.6
60		285	.8	510	1.4	735	10-315- 2.0-2.7
65		290	.7	515	1.0 T.D	740	
70		295	.7	520	Drilled To	745	
75		300	.7	525		750	
80	WET	305	.8	530		755	
85		310	1.0	535		760	
90		315	1.5- (10)	540		765	
95		320	1.6	545		770	
100		325	1.6- (9)	550		775	
105		330	1.7	555		780	
110		335	1.6- (8)	560		785	
115		340	1.4	565		790	
120		345	1.2	670		795	
125		350	1.2	575		800	
130		355	1.1	580		805	
135		360	1.1	585		810	
140		365	1.5- (7)	590		815	
145		370	1.8	595		820	
150	WET	375	1.5- (6)	600		825	
155		380	1.2	605		830	
160		385	1.1	610		835	
165		390	1.1	615		840	
170	WET	395	1.2	620		845	
175		400	1.4- (5)	625		850	
180		405	1.5	630		855	
185		410	1.7- (4)	635		860	
190		415	1.8	640		865	
195		420	1.8- (3)	645		870	
200		425	1.4	650		875	
205		430	1.0	655		880	
210		435	1.0	660		885	
215	.5	440	1.1	665		890	
220		445	1.1	670		895	
225		450	1.0	675		900	