

3923

30-045-26238

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 H Sec. 18 Twp 26 Rng 9Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #161E

cps 1841w

Elevation 6457' Completion Date 8/28/87 Total Depth 400' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf 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' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 300', 290', 280', 270', 260', 250', 215', 200', 190', 180'Depths vent pipes placed: 360'Vent pipe perforations: 300'Remarks: gb #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
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

✓ Comp
9-1-87

Drilling Log (Attach Hereto) ☐

9537801

Completion Date 8/20/87

CPS #	Tell Name, Line or Plant:	Work Order #	State:	Ins. Union Check					
1841 W	HUCFALU UNIT #1615		.85V N	☒ Good ☐ Bad					
Location: H # 18-26-9	Anode Size: 2" X 60"	Anode Type: DURIUM	Size Bar: 6 3/4"						
Depth Drilled: 400'	Depth Logged: 360'	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used					
No. Sacks Mud Used									
Anode Depth									
# 1 300	# 2 290	# 3 280	# 4 270	# 5 260	# 6 250	# 7 215	# 8 200	# 9 190	# 10 180
Anode Output (Amps)									
# 1 5.0	# 2 3.5	# 3 5.5	# 4 6.6	# 5 6.3	# 6 5.4	# 7 5.8	# 8 5.1	# 9 4.7	# 10 4.7
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 11.9	Amps 19.7	Ohms .6							

Remarks: Installed 360' of 1" P.V.C. vent pipe Perforated 300'

WATER AT 140' (TOOK WATER SAMPLE)

GND. Del \$4300.00 ✓

Rectifier Size: 40V 16A P.P.

Add'l Depth

Depth Credit: -140' ✓

Extra Cable: 30' ✓

Ditch & 1 Cable: 20' ✓

Ditch & 2 Cable: 185' ✓

25' Meter Pole: + (OFF LOCATION) 305.00 ✓

20' Meter Pole: -

10' Stub Pole: 1

Junction Box: 1

560.00 ✓

7.50 ✓

7.80 ✓

96.20 ✓

150.00 ✓

40.00 ✓

4346.50

217.33

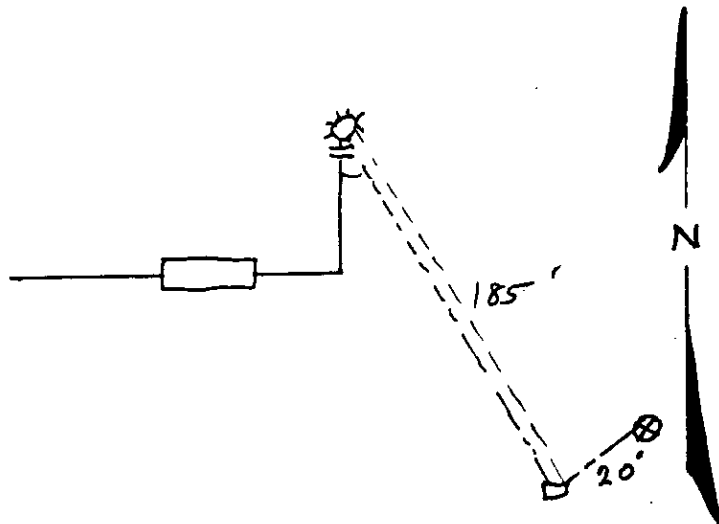
4563.83

TAX

TOTAL

All Construction Completed

JE Deth
(Signature)



6457

ERIDIAN OIL

P. O. BOX 4289-Phone 327-0251
FARMINGTON, NM

Date

8/28/87

CPS 1841 W

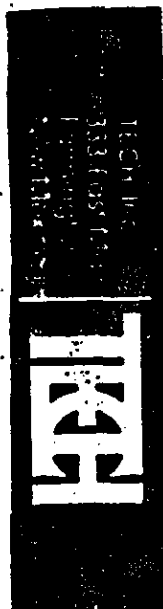
DEEP WELL GROUND BED LOG

Company Meridian Oil

Well No. Hachano #615 Location NE 18-26-9

Volts Applied 11.90 Amperes 19.7

5		230	1.2	455		680	
10		235	.9	460		685	
15		240	1.4	465		690	
20		245	1.8	470		695	
25		250	2.0 - (6)	475		700	
30		255	2.0	480		705	
35		260	1.9 - (5)	485		710	
40		265	2.0	490		715	1-300-2.5-5.0
45		270	2.1 - (4)	495		720	2-290-2.4-3.5
50		275	2.1	500		725	3-280-2.7-5.5
55		280	1.9 - (3)	505		730	4-270-3.0-6.6
60		285	1.2	510		735	5-260-2.8-6.3
65		290	1.8 - (2)	515		740	6-250-2.7-5.4
70		295	2.0	520		745	7-215-3.0-5.8
75		300	1.9 - (1)	525		750	8-200-3.1-5.1
80		305	1.6	530		755	9-190-2.7-4.7
85		310	1.2	535		760	10-180-2.8-4.7
90		315	1.0	540		765	
95		320	1.0	545		770	
100		325	.9	550		775	
105		330	1.5	555		780	
110		335	1.8	560		785	
115		340	1.9	565		790	
120		345	1.9	570		795	
125		350	1.6	575		800	
130		355		580		805	
135		360	T.D.	585		810	
140	WATER	365		590		815	
145	1.3	370		595		820	
150	1.1	375		600		825	
155	1.1	380		605		830	
160	1.1	385		610		835	
165	1.6	390		615		840	
170	1.8	395		620		845	
175	1.9	400	Drilled To	625		850	
180	2.0 - (10)	405		630		855	
185	1.9	410		635		860	
190	1.9 - (9)	415		640		865	
195	1.9	420		645		870	
200	2.0 - (8)	425		650		875	
205	2.0	430		655		880	
210	2.1	435		660		885	
215	2.0 - (7)	440		665		890	
220	1.8	445		670		895	
225	1.5	450		675		900	



CPS 1841M

API WATER ANALYSIS REPORT FORM

Company	Meridian Oil Co.		Sample No.	1	Date Sampled	8-27-87
Field	Ballard	Legal Description	County or Parish		San Juan	State
Lease or Unit	Well	Flowline	Depth	140'	Formation	Water, B/D
Type of Water (Produced, Supply, etc.)	Sampling Point		140'	Sampled By		

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	384	16.7
Calcium, Ca	8	.9
Magnesium, Mg	1	.1
Barium, Ba		

ANIONS

Chloride, Cl	28.4	0.8
Sulfate, SO ₄	43.2	4.0
Carbonate, CO ₃	34.9	1.2
Bicarbonate, HCO ₃	41.0	6.7

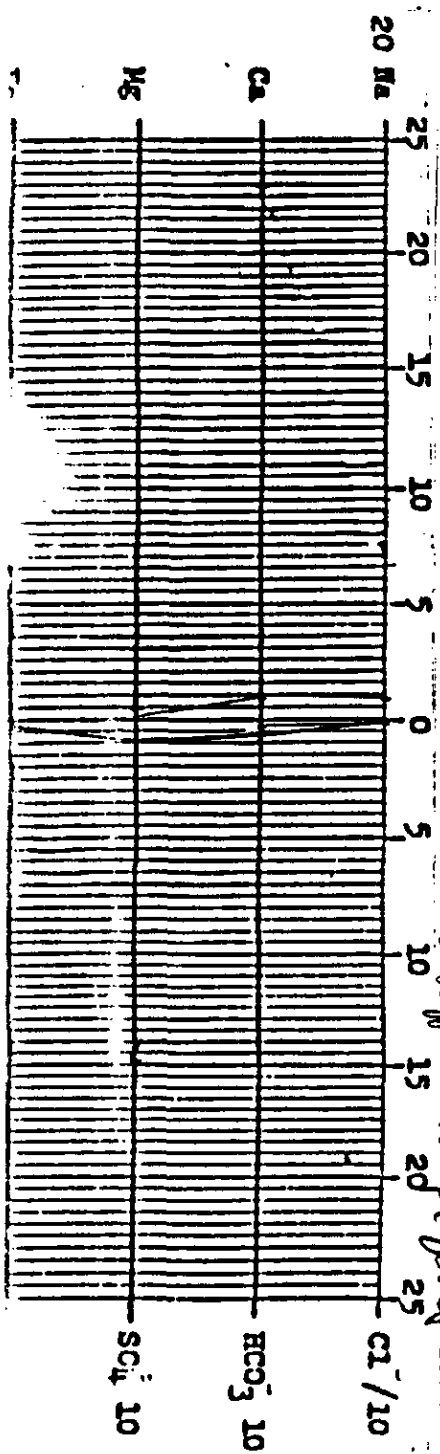
OTHER PROPERTIES

pH	8.74
Specific Gravity, 60/60 F.	1.0
Resistivity (ohm-meters)	72.5 F.
Conductivity	1440

Total Dissolved Solids (calc.) 1310

Iron, Fe (total) 0
Sulfide, as H₂S 0

REMARKS & RECOMMENDATIONS:
Insufficient sample for Sp. Gr. Detn.



BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

CPS 1841 W

COMPANY Meridian Oil DAILY DRILLING REPORT Aug 27 1987

WELL NAME: <u>Huerfano Unit 6457' G.L.</u>	WELL NUMBER: <u>161 E</u>	SECTION: <u>H 18</u>	TOWNSHIP: <u>26 N</u>	RANGE: <u>9 W</u>
WATER AT: <u>140 ft.</u>		FEET: <u>6 3/4</u>	HOLE MADE: <u>400 ft</u>	

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	10	ALLUVIAL SAND	BRN
10	20	SANDSTONE	lt brn
20	30	SHALE	m gy
30	40	SANDSTONE w/shale stringer	lt gy
40	80	SHALE + sand	m gy
80	100	SANDSTONE	lt gy, wht
100	120	SHALE	lt gy - mgy
120	130	SANDSTONE & SHALE STRINGERS	mgy
130	140 160	SANDSTONE (WATER)	lt gy
140 160	180	Sandstone	Grey
180	230	Shale	Purple
230	260	Sandstone - water sand	Grey
260	320	Shale	Purple
320	340	Watersand	Grey
340	370	Shale	Purple
370	400	Sandy shale	Grey

REMARKS: Water sample at 140 ft.

B. A. Bann

Driller

Tool Dresser