

3928

30-045-26263

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 L Sec. 13 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #174E

cps 1846w

Elevation 6598' Completion Date 9/3/87 Total Depth 440' 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. 180' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 355', 345', 275', 265', 255', 245', 235', 225', 215', 205'

Depths vent pipes placed: N/A

Vent pipe perforations: 260'

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.

✓ comp
9-4-87

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐Completion Date 9-3-87

295-42201

CPS #	Well Name, Line or Plant: <u>Hartano #174E</u>	Work Order #	Static: <u>- 88 IV</u>	Ins. Union Check ☒ Good ☐ Bad
1876W 				
Location: <u>SW 13-26-10</u>	Anode Size: <u>2" x 60"</u>	Anode Type: <u>Duriron</u>	Size Bit: <u>6 3/4</u>	
Depth Drilled: <u>440'</u>	Depth Logged: <u>385'</u>	Drilling Rig Time: <u>6 hrs.</u>	Total Lbs. Coke Used	Lost Circulation Mat'l Used
No. Sacks Mud Used				
Anode Depth #1 <u>355'</u> #2 <u>345'</u> #3 <u>275'</u> #4 <u>265'</u> #5 <u>255'</u> #6 <u>245'</u> #7 <u>235'</u> #8 <u>225'</u> #9 <u>215'</u> #10 <u>205'</u>				
Anode Output (Amps) #1 <u>6.1</u> #2 <u>5.4</u> #3 <u>5.7</u> #4 <u>6.5</u> #5 <u>5.6</u> #6 <u>5.7</u> #7 <u>5.8</u> #8 <u>6.8</u> #9 <u>6.6</u> #10 <u>5.8</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 Volts <u>11.8</u> Amps <u>20.7</u> Ohms <u>.57</u>			No. 8 C.P. Cable Used No. 2 C.P. Cable Used	

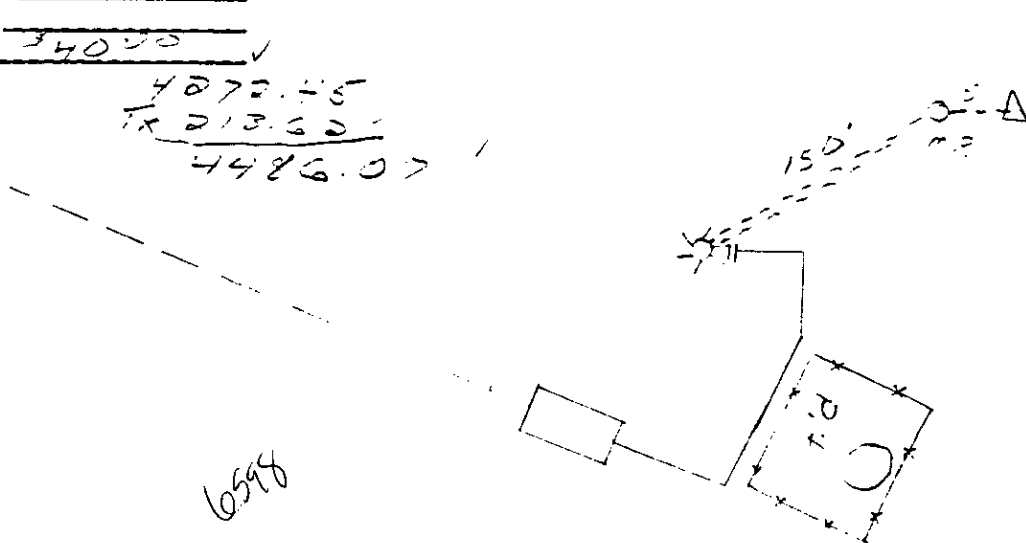
Remarks: Driller said water was at 180'. Water sample was taken. Joint pipe is perforated up to 180'

Rectifier Size: 40 V 16 A 4300 ✓
 Addn'l Depth _____
 Depth Credit: 115 V - 462 V 3840 W
 Extra Cable: 30 V - 7.50 V
 Ditch & 1 Cable: 5 - 1.95 V
 Ditch & 2 Cable: 150 - 78.00
 25' Meter Pole: 305.00 ✓
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 340.00 ✓

All Construction Completed

Randy Smith
(Signature)

4072.45
18213.60
4486.07



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

DEEP WELL GROUND BED LOG

Well No. _____ Location Houston 124E Volts Applied 11.8 Amperes 20.2

5		230	2.5		455	3.55	3.0	680	6.1
10		235	2.5	✓12	460	3.45	3.0	685	5.4
15		240	2.4		465	3.25	2.9	690	5.7
20		245	2.3	✓9	470	3.25	2.9	695	6.5
25		250	2.5		475	3.255	3.1	700	5.6
30		255	2.5	✓13	480	3.245	2.9	705	5.7
35		260	2.6		485	3.235	3.0	710	5.8
40		265	2.6	✓4	490	3.225	3.3	715	6.8
45		270	2.8		495	3.215	2.8	720	6.6
50		275	2.5	✓13	500	3.205	2.9	725	5.8
55		280	2.4		505			730	
60		285	2.2		510			735	
65		290	1.7		515			740	
70		295	.9		520			745	
75		300	1.7		525			750	
80		305	2.7		530			755	
85		310	1.7		535			760	
90		315	1.0		540			765	
95		320	.9		545			770	
100		325	1.3		550			775	
105		330	1.6		555			780	
110		335	2.3		560			785	
115		340	2.0		565			790	
120		345	2.4	✓12	570			795	
125		350	2.6		575			800	
130		355	2.6	✓11	580			805	
135		360	2.3		585			810	
140		365	2.1		590			815	
145		370	2.3		595			820	
150		375	2.2		600			825	
155		380	TD RST		605			830	
160	1.3	385			610			835	
165	1.2	390			615			840	
170	2.6	395			620			845	
175	2.7	400			625			850	
180	2.5	405			630			855	
185	2.6	410			635			860	
190	2.4	415			640			865	
195	2.5	420			645			870	
200	2.4	425			650			875	
205	2.5	430			655			880	
210	2.4	435			660			885	
215	2.6	440			665			890	
220	2.7	445			670			895	



QPS 1846 cc

API WATER ANALYSIS REPORT FORM

Company	Merriman Oil Co.	Sample No.	10	Date Sampled	4-8-87
Field	Huagard	Legal Description		County or Parish	State
Lease or Unit	Huagard	Well	174E	Depth	80'
Type of Water (Produced, Supply, etc.)		Formation	Q.B.	Water, B/D	
		Sampling Point	ground level	180'	Sampled By
					R.S.

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	333	14.5
Calcium, Ca	16.4	1.8
Magnesium, Mg	2.7	.2
Barium, Ba		

OTHER PROPERTIES	
pH	8.99
Specific Gravity, 60/60 F.	1.0048
Resistivity (ohm-meters)	2.00
Conductivity	1300

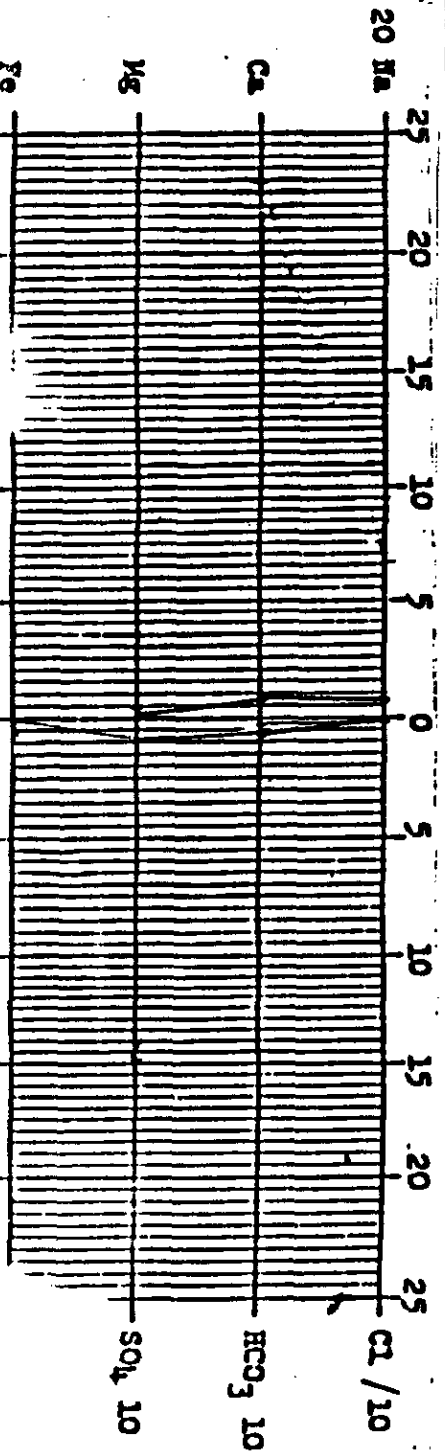
Total Dissolved Solids (calc.) 1140

ANIONS	mg/l	me/l
Chloride, Cl	31.9	1.9
Sulfate, SO ₄	409	8.5
Carbonate, CO ₃	28.3	.9
Bicarbonate, HCO ₃	324	5.3
Hydrosulfide, HS	0	0

Iron, Fe (total) 0

Sulfide, as H₂S 0

REMARKS & RECOMMENDATIONS:





205 1846 cc

API WATER ANALYSIS REPORT FORM

Company	Merriman Oil Co.	Sample No.	6	Date Sampled	9-4-87
Field	Ballard	Legal Description		County of Parish	San Juan
Lease or Unit	Phudano	Well	174E	Depth	
Type of Water (Produced, Supply, etc.)		Sampling Point	Around bed	Formation	
				Water, B/D	
				Sampled By	R.S.

DISSOLVED SOLIDS

CATIONS

Sodium, Na (calc.)	mg/l	me/l
Calcium, Ca	330	14.3
Magnesium, Mg	8	0.4
Barium, Ba	0	0

OTHER PROPERTIES

pH _____
Specific Gravity, 60/60 F. 72.5 F. _____
Resistivity (ohm-meters) _____

Conductivity _____

Total Dissolved Solids (calc.) 1100

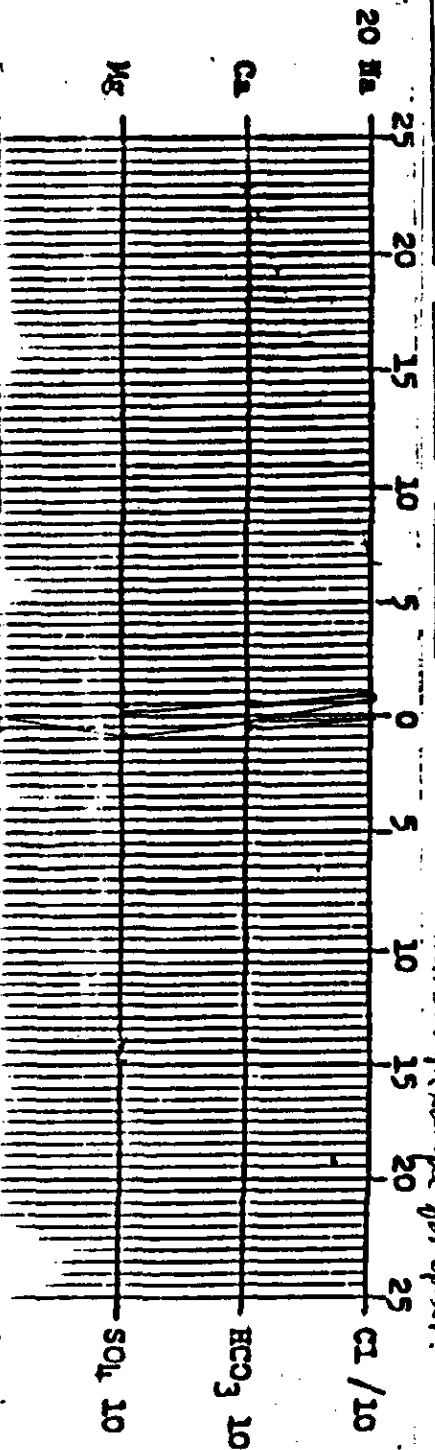
ANIONS

Chloride, Cl	195	.6
Sulfate, SO ₄	385	8.2
Carbonate, CO ₃	11.7	.4
Bicarbonate, HCO ₃	340	5.6

Iron, Fe (total) _____
Sulfide, as H₂S _____

REMARKS & RECOMMENDATIONS:

not enough sample for Sp. Gr.



BURGE CORROSION SYSTEMS, INC.

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

CPS 1846 u

COMPANY Meridian DAILY DRILLING REPORT 9-2 1987

WELL NAME: Huerfano	WELL NUMBER: 174 E	SECTION: 13	TOWNSHIP: 26 N	RANGE: 10 W
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WATER AT:	FEET:	HOLE MADE:
1100 ft 180 ft		6 3/4 440 ft

DESCRIPTION OF FORMATION

[illegible]

REMARKS:

Water Sample at 180 ft.

Grant, Burr

Driller

Tool Dresser: