

3926

30-045-26268

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 B Sec. 25 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #170E

cps 1844w

Elevation 6560' Completion Date 9/1/87 Total Depth 340' 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. 90' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 275', 265', 255', 245', 220', 210', 200', 109', 180', 170'

Depths vent pipes placed: N/A

Vent pipe perforations: 270'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV. I
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
9-2-87

Drilling Log (Attach Hereto) ☐

95-42301

Completion Date 9-1-87

CPS #	Well Name, Line or Plots:	Work Order #	Static:	Ins. Union Check
18440	Hertano 170 E.		.87 N	☒ Good ☐ Bad
Location: 325-26-10 Anode Size: 2" x 60" Anode Type: Duriron Size Bit: 6 3/4"				
Depth Drilled: 340	Depth Logged: 300'	Drilling Rig Time: 5 hrs	Total Lbs. Coke Used:	Lost Circulation Mat'l Used:
No. Sacks Mud Used:				
Anode Depth				
# 1 275	# 2 265	# 3 255	# 4 245	# 5 220
# 6 210	# 7 200	# 8 190	# 9 180	# 10 170
Anode Output (Amps)				
# 1 5.3	# 2 5.9	# 3 4.7	# 4 5.5	# 5 5.4
# 6 6.7	# 7 6.3	# 8 5.4	# 9 5.9	# 10 5.2
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	
Volts 12	Amps 21.2	Ohms .56	No. 2 C.P. Cable Used	

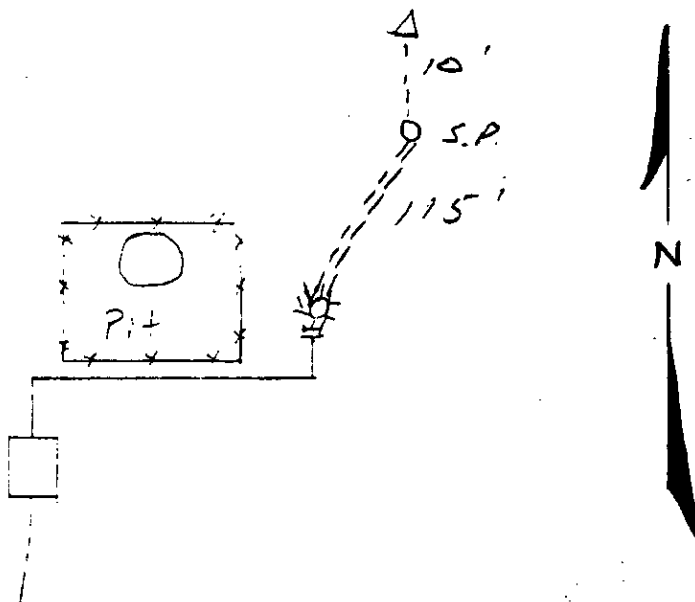
Remarks: Driller said water was at 90'. Water sample was taken. Vent pipe is perforated up to 70'. when driller hit water at 90'; shut down for 20 min., And made plenty of water.

Rectifier Size: 40 V 16 A 4300
 Addn'l Depth: 200' - 800' 2500 60
 Depth Credit: 30' 7.50' ✓
 Extra Cable: 10' 3.90' ✓
 Ditch & 1 Cable: 115' 59.80' ✓
 Ditch & 2 Cable: 115'
 25' Meter Pole:
 20' Meter Pole:
 10' Stub Pole: 150.00' ✓
 Junction Box: 40.50' ✓

3761.20
 Tx 188.06
 3949.26'

All Construction Completed

Randy Smith
(Signature)



6560

Date 9-1-87

DEEP WELL GROUND BED LOG

Company.

Well No.

Location

Haitians 170E

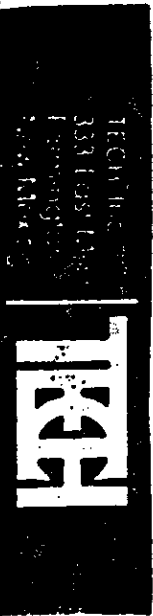
- Volts Applied

17.

Ampere

21-2

5		230	1.5		455	2.275	3.2	680	5.3
10		235	1.4		460	2.245	2.9	685	5.9
15		240	2.2		465	2.255	3.1	690	4.7
20		245	2.3	1	470	2.245	2.7	695	5.5
25		250	2.4		475	5.220	2.9	700	5.4
30		255	2.4	1	480	2.210	3.0	705	6.7
35		260	2.4		485	2.200	3.2	710	6.3
40		265	2.3	1	490	2.190	3.0	715	5.4
45		270	2.5		495	2.180	2.8	720	5.9
50		275	2.5	1	500	2.170	2.7	725	5.2
55		280	2.3		505			730	
60		285	2.3		510			735	
65		290	2.3		515			740	
70		295	2.1		520			745	
75	1.7	300	1.300		525			750	
80	1.0	305			530			755	
85	.9	310			535			760	
90	2.2	315			540			765	
95	2.5	320			545			770	
100	2.7	325			550			775	
105	2.5	330			555			780	
110	2.1	335			560			785	
115	1.9	340			565			790	
120	1.4	345			570			795	
125	1.5	350			575			800	
130	2.4	355			580			805	
135	2.6	360			585			810	
140	2.4	365			590			815	
145	2.5	370			595			820	
150	2.4	375			600			825	
155	2.1	380			605			830	
160	2.5	385			610			835	
165	2.1	390			615			840	
170	2.3	395			620			845	
175	2.5	400			625			850	
180	2.4	405			630			855	
185	2.4	410			635			860	
190	2.5	415			640			865	
195	2.6	420			645			870	
200	2.6	425			650			875	
205	2.2	430			655			880	
210	2.5	435			660			885	
215	2.5	440			665			890	
220	2.1	445			670			895	
		450			675			900	



CPS 184412

API WATER ANALYSIS REPORT FORM

Company	Merriman Oil Co.	Sample No.	2	Date Sampled	
Field		Legal Description		County or Parish	State
Lease or Unit		Well	Huerfano 170E	Formation	Water, B/D
Type of Water (Produced, Supply, etc.)		Sampling Point	GB 100'		Sampled By

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	644	28.0
Calcium, Ca	24.4	1.2
Magnesium, Mg	1.5	
Barium, Ba		

ANIONS

	mg/l	me/l
Chloride, Cl	42.5	1.2
Sulfate, SO ₄	8.7	1.6
Carbonate, CO ₃	46.7	1.6
Bicarbonate, HCO ₃	51.4	8.4

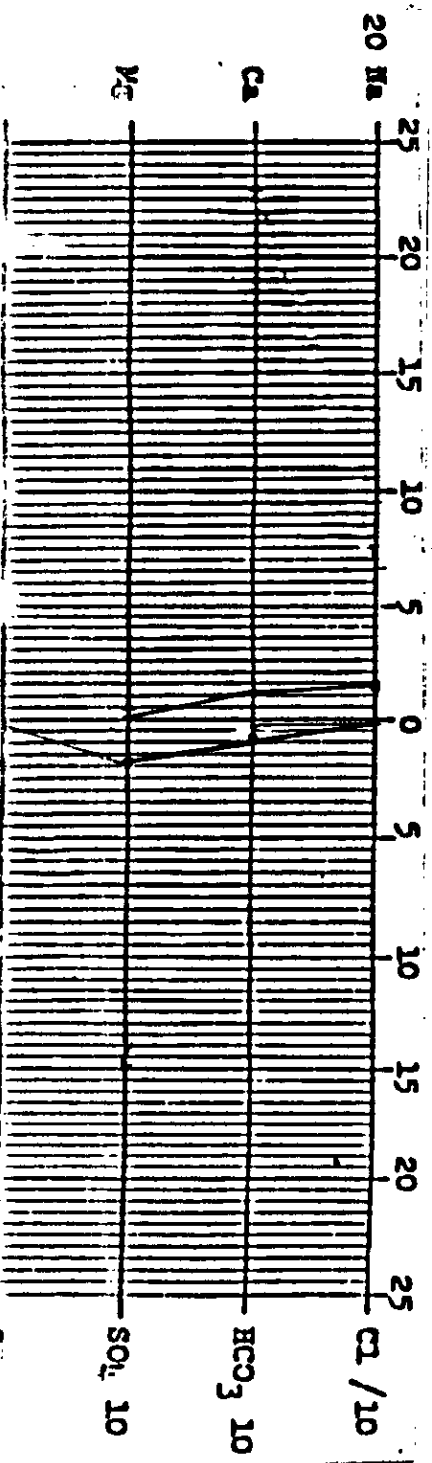
OTHER PROPERTIES

pH 8.77
Specific Gravity, 60/60 F. 1.0051
Resistivity (ohm-meters) 12.5 F. 5.00
Conductivity 2000 μ mho

Total Dissolved Solids (calc.) 2140

Iron, Fe (total) 0
Sulfide, as H₂S 0

REMARKS & RECOMMENDATIONS:



BURGE CORROSION SYSTEMS, INC.

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

CPS 1844 W

COMPANY Meridian

DAILY DRILLING REPORT

8-31-87

WELL NAME: <u>Huerfano</u>	WELL NUMBER: <u>170 E</u>	SECTION: <u>25</u>	TOWNSHIP: <u>26 N</u>	RANGE: <u>12</u>
WATER AT: <u>90</u> 100 ft.		FEET: <u>6 3/4</u>	HOLE MADE: <u>340 ft.</u>	

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	10	Sand & Clay	Tan
10	20	Sand	Tan
20	60	Sandy Shale	Purple
60	80	Sand Stone	Grey
80	90	Water Sand	Grey
90	110	Sandy Shale	Grey
110	130	Sand Stone	Grey
130	210 240	Shale	Purple
240	250	Sandy Shale	Grey
250	310	Shale	Purple
310	340	Sand Stone	Grey
		T.P. 340 ft.	

REMARKS: water sample at 90 ft.

Grant Gumm

Driller

Tool Dresser