

1086

30-045-26231

8

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. 2 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #109E

cps 1828w

Elevation 6600' Completion Date 9/22/87 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. 100' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 400', 390', 380', 370', 360', 350', 340', 330', 320', 310'

Depths vent pipes placed: N/A

Vent pipe perforations: 340'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. D^{IV}
DIST

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) ☐Completion Date 9-22-87

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins Union Check
1828W	Huerfano 109E		.84 S	☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
A2-24-10	2" x 60"	Puricon	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
440	422	7600	7600	
Anode Depth				
#1 400	#2 390	#3 380	#4 370	#5 360
#6 350	#7 340	#8 330	#9 320	#10 310
Anode Output (Amps)				
#1 6.7	#2 5.8	#3 5.0	#4 5.9	#5 5.8
#6 5.7	#7 6.8	#8 6.0	#9 5.0	#10 5.7
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 11.5	Amps 20.2	Ohms .57		

Remarks: Driller said water was at 110'. Water sample was taken. Vent pipe is perforated up to 100'

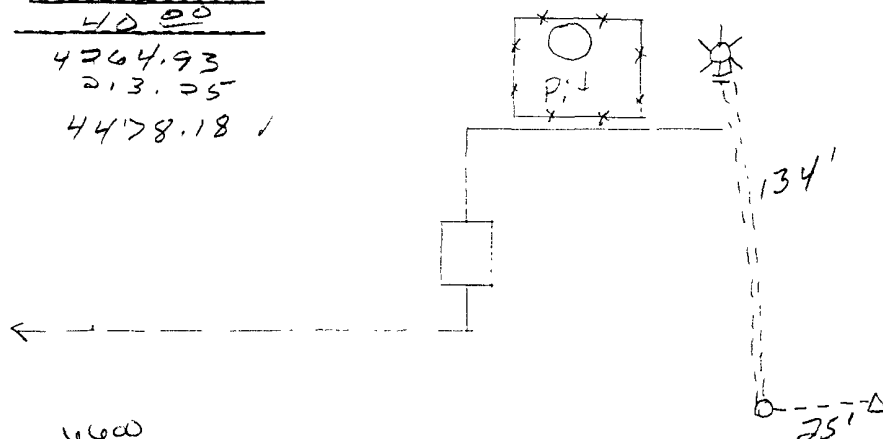
Rectifier Size: 40 V 16 A
 Add'l Depth: _____
 Depth Credit: 78'
 Extra Cable: 30'
 Ditch & 1 Cable: 25'
 Ditch & 2 Cable: 134'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: 150.00
 Junction Box: 40.00

4264.93
 213.25
 4478.18 ✓

4300
 -312
 3988
 7.50 ✓
 9.75 ✓
 69.68 ✓

All Construction Completed

Randy Smith
 (Signature)



N



OPS 1828W

API WATER ANALYSIS REPORT FORM

Company <u>MERIDIAN OIL Co.</u>		Sample No. <u>1</u>	Date Sampled <u>9/22/87</u>	
Field <u>Ballard</u>	Legal Description		County or Parish <u>San Juan</u>	State <u>NM</u>
Lease or Unit <u>Huertano</u>	Well <u>109 E</u>	Depth <u>110</u>	Formation	Water, B/D
Type of Water (Produced, Supply, etc.) <u>Ground Bed (supply)</u>		Sampling Point <u>Ground Bed</u>		Sampled By <u>R.S</u>

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>318</u>	<u>13.8</u>
Calcium, Ca	<u>13.2</u>	<u>0.7</u>
Magnesium, Mg	<u>0.5</u>	<u>0.0</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>8.64</u>
Specific Gravity, 60/60 F.	<u>1.0036</u>
Resistivity (ohm-meters) <u>72 F.</u>	<u>880 cm</u>
conductivity	<u>1100 μMhos</u>

Total Dissolved Solids (calc.)

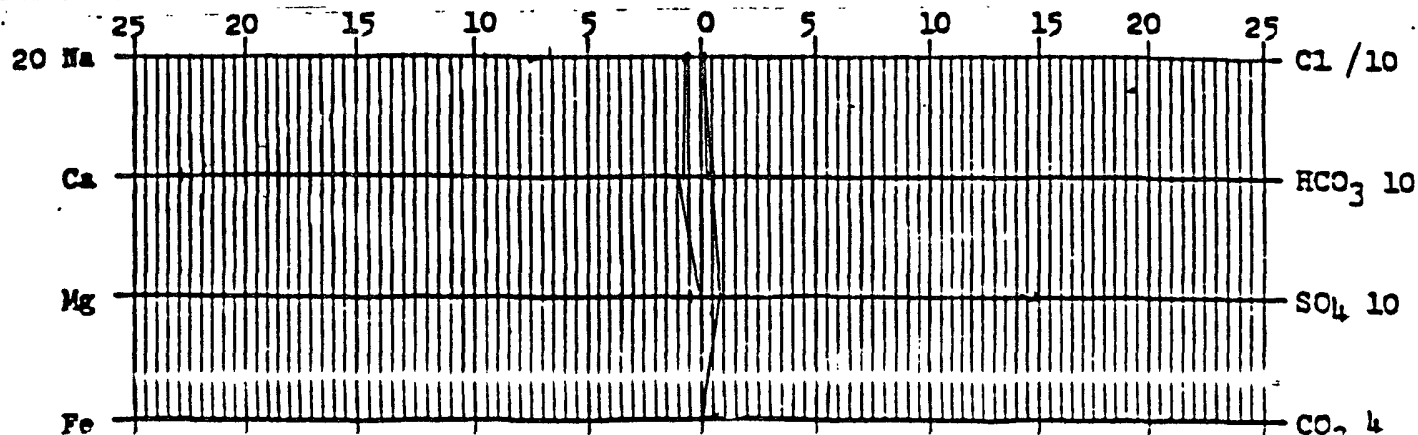
1080 ppm

ANIONS

Chloride, Cl	<u>14.2</u>	<u>0.4</u>
Sulfate, SO ₄	<u>414</u>	<u>8.6</u>
Carbonate, CO ₃	<u>15.6</u>	<u>0.5</u>
Bicarbonate, HCO ₃	<u>305</u>	<u>5.0</u>

Iron, Fe (total)
Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:



BURGE CORROSION SYSTEMS, INC.

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

CPS 1828 W

COMPANY Meridian DAILY DRILLING REPORT 9-22 1997

WELL NAME: <u>Huerfano</u>	WELL NUMBER: <u>109 IE</u>	SECTION: <u>2</u>	TOWNSHIP: <u>26 N</u>	RANGE: <u>10 W</u>
WATER AT: <u>100 ft</u>		FEET: <u>6 3/4</u> HOLE MADE: <u>440</u>		

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	20	Sand	tan
20	50	Shale & clay	dk Grey
50	90	Sand Stone	lt Grey
90	110	Water Sand	md Grey
110	120	Shale	dk Grey
120	140	water sand	md Grey
140	160	Shale	dk Grey
160	170	Sand Stone	lt Grey
170	200	Shale	dk Grey
200	240	Sand Stone	md Grey
240	280	Shale	Purple
280	320	Sandy Shale	md Grey
320	440	Shale	Purple & dk Gr.

REMARKS: Water sample at 100 ft

Blant Barm

Driller

Tool Dresser