

30-045-20417

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

Operator MERIDIAN OIL Location: Unit G Sec. 6 Twp 25 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #187

cps 896w

Elevation 6723' Completion Date 8/31/87 Total Depth 400' 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. 170' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 330', 320', 295', 285', 275', 265', 255', 245', 235', 220'

Depths vent pipes placed: 370' OF 1" PVC VENT PIPE

Vent pipe perforations: BOTTOM 270'

Remarks: Qgb #2

RECEIVED
MAY 31 1991

OH CON

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 8-31-87

already in comp ✓

75:98201

CPS #	Well Name, Line or Plant: <u>HUERFANO # 187</u>	Work Order #	State:	Ins. Union Check: ☒ Good ☐ Bad
896-w 66-25-9 2" x 60" Duriron 6 3/4"				
Location	Anode Size:	Anode Type:	Size Bit:	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
400'	366'			
Anode Depth # 1 330' # 2 320' # 3 295' # 4 285' # 5 275' # 6 265' # 7 255' # 8 245' # 9 235' # 10 220'				
Anode Output (Amps) # 1 4.8 # 2 5.3 # 3 5.9 # 4 6.1 # 5 5.7 # 6 6.0 # 7 5.8 # 8 6.0 # 9 5.7 # 10 6.0				
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 12.2 Amps 26.1 Ohms .47			ELEVATION = 6723'	

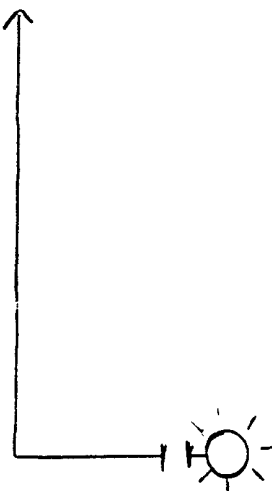
Remarks: Drilled 400' Logged 366'. Drilled SAID WATER AT 170'; CAUGHT SAMPLE. INSTALLED 370' OF 1" PVC VENT PIPE; PERFORATED BOTTOM 270'

Rectifier Size: _____ V _____ A
 Addn'l Depth _____
 Depth Credit: 134' ✓
 Extra Cable: 10' ✓
 Ditch & 1 Cable: 185'
 Ditch & 2 Cable: _____
 25' Meter Pole: _____
 20' Meter Pole: _____
 15' Meter Pole: _____

All Construction Completed

Mike Williams
 (Signature)

☐
 896-w



4300. ✓
 - 53. ✓
 3747.00
 2.50 ✓
 72.15 ✓
 40.00 ✓
 3373.65
 133.93
 4073.58

NEW
 G.B.

OLD
 GROUP
 BED

BURGE
CORROSION SYSTEMS

301 Ash St.

Aztec, New Mexico 87410

ANTUAN COUNTY
OPS 896W

Formations

Well Name HERFANO #102 S 6 T 25W R 9W
Company Name MIRAFLORES

FOOTAGES	WATER	SHALE	SAND	SAND STONE	RENT ONITE	CLAY	GRAVEL	ROCK	CASED
0 110 SAND SANDSTONE									
10 160 CLAY SHALE SANDSTONE									
160 170 SAND									
170 180 SANDSTONE SHALE									
180 190 SANDSTONE									
190 210 SANDSTONE SHALE BITUMINE									
210 220 SAND SHALE CLAY									
220 310 SHALE SAND									
310 330 SAND SHALE									
330 350 SHALE SAND									
350 400 SAND STONE									

Anode Depth	01	02	03	04	05	06	07	08	09	010
Anode Output (Amps)										
01	02	03	04	05	06	07	08	09	010	
Anode Depth	011	012	013	014	015	016	017	018	019	020
Anode Output (Amps)										
011	012	013	014	015	016	017	018	019	020	
Total Circuit Resistance							No. 5 C.P. Cable Used			No. 2 C.P. Cable Used
Volts	Amps			Ohms			Coke Breeze			

All Construction Completed

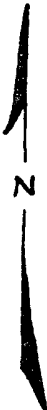
Frank Howe
Signature

GROUND BED LAYOUT SKETCH

8-30-87
Date

Remarks:

WATER SAMPLE AT 170 FT



Date 8-31-87

-896-u

5						230	2.5					455						680	① 330-3.3-48
10						235	2.4					460						685	② 320-3.2-5.3
15						240	2.3					465						690	③ 295-3.1-5.9
20						245	2.5					470						695	④ 285-3.2-6.1
25						250	2.5					475						700	⑤ 275-3.0-5.7
30						255	2.5					480						705	⑥ 265-3.4-6.0
35						260	2.5					485						710	⑦ 255-3.1-5.8
40						265	2.5					490						715	⑧ 245-3.3-6.0
45						270	2.5					495						720	⑨ 235-3.1-5.7
50						275	2.4					500						725	⑩ 220-3.0-6.0
55						280	2.5					505						730	
60						285	2.5					510						735	
65						290	2.6					515						740	
70						295	2.5					520						745	
75						300	2.0					525						750	0.1 185
80						305	1.5					530						755	
85						310	1.8					535						760	
90						315	2.4					540						765	
95						320	2.6					545						770	
100						325	2.7					550						775	
105						330	2.6					555						780	
110						335	2.4					560						785	
115						340	1.6					565						790	
120						345	1.0					570						795	
125						350	1.5					575						800	
130						355	1.5					580						805	
135						360	1.2					585						810	
140						365	1.2	74366				590						815	
145						370						595						820	
150						375						600						825	
155						380						605						830	
160						385						610						835	
165						390						615						840	
170						395						620						845	
175						400						625						850	
180	1.2					405						630						855	
185	2.0					410						635						860	
190	1.0					415						640							

TKH

CPS 89600

API WATER ANALYSIS REPORT FORM

Company <u>Meridian Oil Co.</u>		Sample No. <u>7</u>	Date Sampled <u>8-31-87</u>
Field <u>Ballard</u>	Legal Description <u>G 6-25-9</u>	County or Parish <u>Red Cliffs</u>	State <u>NM</u>
Lease or Unit <u>Huerfano</u>	Well <u>#187</u>	Depth	Formation
Type of Water (Produced, Supply, etc.)		Sampling Point <u>170'</u>	Water, B/D
			Sampled By <u>MW</u>

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>224</u>	<u>9.7</u>
Calcium, Ca	<u>85</u>	<u>4.2</u>
Magnesium, Mg	<u>7.7</u>	<u>.6</u>
Barium, Ba		

ANIONS

Chloride, Cl	<u>14.2</u>	<u>.4</u>
Sulfate, SO ₄	<u>414</u>	<u>8.6</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
Bicarbonate, HCO ₃	<u>340</u>	<u>5.6</u>

OTHER PROPERTIES

pH	<u>7.72</u>
Specific Gravity, 60/60 F.	<u>1.0044</u>
Resistivity (ohm-meters) <u>72.5 F.</u>	<u>9.00</u>
Conductivity	<u>1100 μmho</u>

Total Dissolved Solids (calc.) 1000

Iron, Fe (total) 0
Sulfide, as H₂S 0

REMARKS & RECOMMENDATIONS:

