

174-30-045-20233

241-30-045-21221

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

Operator MERIDIAN OIL Location: Unit NW Sec. 13 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANON UNIT #174, #241
cps 964w

Elevation 6551' Completion Date 9/8/87 Total Depth 420' 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. 160' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 355', 345', 335', 325', 275', 265', 255', 245', 235', 2

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #2

RECEIVED
MAY 31 1991

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

*already in
Computer*

Drilling Log (Attach Hereto) ☐Completion Date 9-8-81

CPS #	Well Name, Line or Plant:	Work Order #	State	Ins Union Check
9640	Huertano #174 Huertano #241	F 13-26-10 C 13-26-10	13-26-10 .60 13-26-10 .74	☒ Good ☐ Bad
Location:		Anode Size	Anode Type	Size Bit
NW 13-26-10		2" x 60"	Duriron	6 3/4"
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
420	392	6 hrs		
Anode Depth				
# 1 355	# 2 345	# 3 335	# 4 325	# 5 275
# 6 265	# 7 255	# 8 245	# 9 235	# 10 225
Anode Output (Amps)				
# 1 4.2	# 2 5.0	# 3 5.4	# 4 4.6	# 5 5.0
# 6 5.4	# 7 4.8	# 8 6.0	# 9 5.2	# 10 6.2
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		No. 2 C.P. Cable Used	
Volts 11.6	Amps 21.8	Ohms .53		

Remarks: Driller said water was at 160'. Water sample was taken. Vent pipe is perforated up to

Rectifier Size: _____ V _____ A	4300
Add'l Depth: _____	-432 ✓
Depth Credit: <u>108'</u> ✓	3868
Extra Cable: <u>10</u> ✓	2.50 ✓
Ditch & 1 Cable: <u>98</u>	3822 ✓
Ditch & 2 Cable: _____	40.00 ✓
25' Meter Pole: _____	3948.72
20' Meter Pole: _____	Tx 197.44
10' Stub Pole: _____	
Junction Box: <u>4000</u>	4146.16 ✓

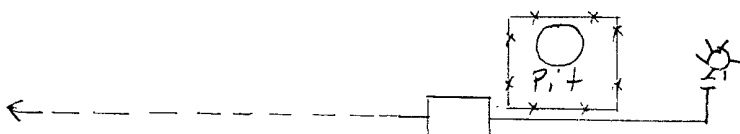
All Construction Completed

Pandy Smith
(Signature)

GB#1
△

GB#2
△

N



MERIDIAN OIL

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

Date 7-8-87

DEEP WELL GROUNDBED LOG

Company Meridian Oil (Burge Corrosion)

Well No. _____ Location Huertano 174 & 241 Volts Applied 11.6 Amperes 21

5		230	2.0		455	① 3 5 5	2.6	680	4.2				
10		235	1.9	✓ ⑨	460	② 3 4 5	2.9	685	5.0				
15		240	2.0		465	③ 3 3 5	3.2	690	5.4				
20		245	2.1	✓ ⑧	470	④ 3 2 5	2.7	695	4.6				
25		250	2.1		475	⑤ 2 7 5	2.6	700	5.0				
30		255	2.1	✓ ②	480	⑥ 2 6 5	2.9	705	5.4				
35		260	2.0		485	⑦ 2 5 5	3.1	710	4.8				
40		265	2.0	✓ ⑩	490	⑧ 2 4 5	3.0	715	6.0				
45		270	1.9		495	⑨ 2 3 5	2.7	720	5.2				
50		275	2.0	✓ ③	500	⑩ 2 2 5	3.0	725	6.2				
55		280	1.9		505			730					
60		285	1.3		510			735					
65		290	1.0		515			740					
70		295	1.1		520			745					
75		300	1.0		525			750					
80		305	.9		530			755					
85		310	.8		535			760					
90		315	1.0		540			765					
95		320	1.7		545			770					
100		325	2.1	✓ ④	550			775					
105		330	2.1		555			780					
110		335	2.2	✓ ③	560			785					
115		340	2.1		565			790					
120		345	2.1	✓ ②	570			795					
125		350	2.1		575			800					
130		355	1.9	✓ ①	580			805					
135		360	1.7		585			810					
140		365	1.1		590			815					
145		370	.9		595			820					
150	1.6	375	1.9		600			825					
155	2.0	380	1.9		605			830					
160	2.1	385	1.9		610			835					
165	2.0	390	TD 392		615			840					
170	2.0	395			620			845					
175	2.1	400			625			850					
180	1.8	405			630			855					
185	1.5	410			635			860					
190	1.3	415			640			865					
195	1.5	420			645			870					
200	1.5	425			650			875					
205	1.6	430			655			880					
210	1.6	435			660			885					
215	1.7	440			665			890					
220	1.9	445			670			895					
225	2.0	450			675			900					

BURGE CORROSION SYSTEMS, INC.

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

964
CPS 946-10

COMPANY: ~~Huerfano~~ Meridian DAILY DRILLING REPORT 9-8 1987

WELL NAME: Huerfano	WELL NUMBER: 174	SECTION: 13	TOWNSHIP: 26 N	RANGE: 10 W
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WATER AT: 160 ft. FEET: HOLE MADE: 6 3/4 420 ft

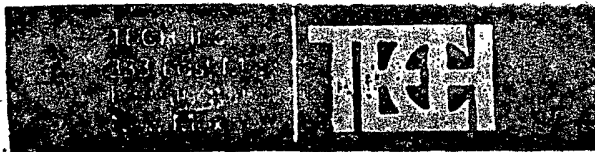
DESCRIPTION OF FORMATION			
FROM	TO	FORMATION IS	COLOR
0	30	Sand	tan
30	100	Sandstone	tan grey
100	130	Shale - Bent	Purple-grey
130	150 150	Sandstone	Grey
150	160	Water sand	Grey
160	190	Shale	Grey
190	220	Sandstone	Grey
220	280	Shale	Purple
280	340	Sandstone	Grey
340	370	Shale	Grey
370	390	Sandstone	Grey
390	400	Shale	Grey
400	420	Sandstone - water sand	Grey
T.O. 420 ft.			

REMARKS: Water sample at 160 ft.

Brent Burr

Driller

Tool Dresser



CPS 964
9/16/87

API WATER ANALYSIS REPORT FORM

Company <u>Meridian Oil Co</u>		Sample No. <u>5</u>	Date Sampled <u>9-8-87</u>
Field <u>Ballard</u>	Legal Description		County or Parish <u>San Juan</u> State <u>NM</u>
Lease or Unit <u>Huerfano</u>	Well <u>174 & 241</u>	Depth <u>160'</u>	Formation _____ Water, B/D _____
Type of Water (Produced, Supply, etc.)		Sampling Point <u>Ground Bed 160'</u>	Sampled By _____

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>339</u>	<u>14.7</u>
Calcium, Ca	<u>8</u>	<u>.4</u>
Magnesium, Mg	<u>0</u>	<u>0</u>
Barium, Ba	_____	_____
_____	_____	_____

ANIONS

Chloride, Cl	<u>24.8</u>	<u>.7</u>
Sulfate, SO ₄	<u>400</u>	<u>8.3</u>
Carbonate, CO ₃	<u>24.6</u>	<u>.8</u>
Bicarbonate, HCO ₃	<u>325</u>	<u>5.3</u>
_____	_____	_____
_____	_____	_____

OTHER PROPERTIES

pH	<u>9.18</u>
Specific Gravity, 60/60 F.	_____
Resistivity (ohm-meters) <u>725</u> F.	<u>8.2</u>
_____	_____
Conductivity	<u>1200 μmho</u>

Total Dissolved Solids (calc.) 1120

Iron, Fe (total) 0
Sulfide, as H₂S 0

REMARKS & RECOMMENDATIONS:

Not enough sample for Sp. gr. determination

