

30-045-20216

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

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

Name of Well/Wells or Pipeline Serviced HUERFANON UNIT #173,

HUERFANO UNIT NP #254, HUERFANO WATER WELL #1 cps 965w

Elevation 6609' Completion Date 9/1/87 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. 140' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 365', 355', 345', 335', 270', 260', 250', 230', 220', 210'

Depths vent pipes placed: N/A

Vent pipe perforations: UP TO 120'

Remarks: g5 #2

RECEIVED
MAY 31 1991

OIL CON. DIV
DIST 7

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 9-1-87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
965W	Hufford 173	5 13-26-10	- 67	☒ Good ☐ Bad
"	" 254	0 13-26-10	- 72	
	Water Well #1		none	
Location	Anode Size:	Anode Type:	Size Bit:	
SE 13-26-10	2" x 60"	Duration	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
440	396	6 hrs		
Anode Depth				
# 1 365	# 2 355	# 3 345	# 4 335	# 5 270
# 6 260	# 7 250	# 8 230	# 9 220	# 10 210
Anode Output (Amps)				
# 1 4.7	# 2 4.4	# 3 5.6	# 4 5.3	# 5 4.4
# 6 5.4	# 7 4.8	# 8 4.4	# 9 5.1	# 10 4.9
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 12	Amps 19.8	Ohms .61		

Remarks: Driller said water was at 140'. Water sample was taken. Vent pipe is perforated up to 120'

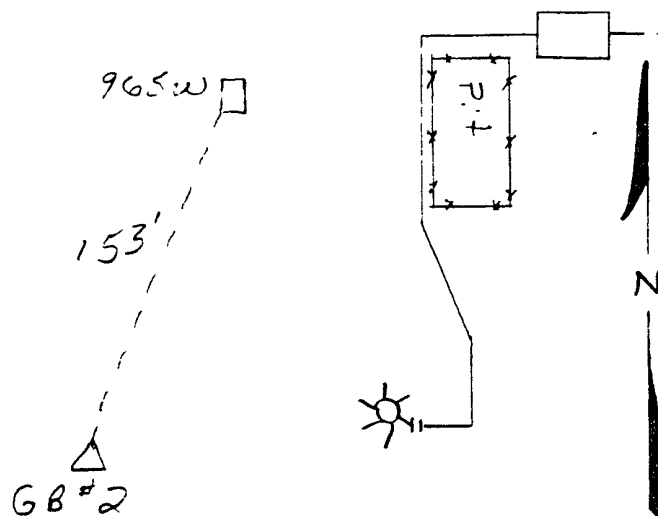
Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: 104 ✓
 Extra Cable: 10
 Ditch & 1 Cable: 153' ✓
 Ditch & 2 Cable: _____
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 40 20'

3986.17
 Ty 199.31
 4185.48

4300
 -416 ✓
 3884 ✓
 250 ✓
 59.67 ✓

All Construction Completed

Randy Smith
 (Signature)



DEEP WELL GROUNDBED LOG

Company

Well No.

Location

Hurricane 173 & 254

- Volts Applied

Ampere

79.8

5						230	1.9	✓	②	455	①	365	2.5	680	4.7				
10						235	1.6			460	②	355	2.3	685	4.4				
15						240	1.6			465	③	345	2.6	690	5.6				
20						245	1.7			470	④	335	2.4	695	5.3				
25						250	2.1	✓	②	475	⑤	320	2.3	700	4.4				
30						255	2.1			480	⑥	310	2.4	705	5.4				
35						260	1.9	✓	⑤	485	⑦	300	2.4	710	4.8				
40						265	2.0			490	⑧	290	2.2	715	4.4				
45						270	1.9	✓	⑤	495	⑨	280	2.8	720	5.1				
50						275	1.7			500	⑩	270	2.5	725	4.9				
55						280	1.5			505				730					
60						285	1.7			510				735					
65						290	1.1			515				740					
70						295	1.6			520				745					
75						300	1.6			525				750					
80						305	1.5			530				755					
85						310	1.3			535				760					
90						315	1.3			540				765					
95						320	1.4			545				770					
100						325	1.9			550				775					
105						330	2.0		x	555				780					
110						335	2.0	✓	⑭	560				785					
115						340	2.1		x	565				790					
120	-6					345	2.1	✓	③	570				795					
125	-7					350	1.8		x	575				800					
130	-5					355	2.0	✓	②	580				805					
135	-6					360	2.2		x	585				810					
140	6					365	2.0	✓	①	590				815					
145	9					370	1.9		x	595				820					
150	53					375	1.7			600				825					
155	9					380	1.4			605				830					
160	5					385	1.6			610				835					
165	27					390	1.7			615				840					
170	5					395	TD 396			620				845					
175	2					400				625				850					
180	20					405				630				855					
185	9					410				635				860					
190	5					415				640				865					
195	27					420				645				870					
200	-8					425				650				875					
205	2					430				655				880					
210	3				⑩	435				660				885					
215	3			x		440				665				890					
220	1				⑨	445				670				895					
225	1			x		450				675				900					

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141

AZTEC, NEW MEXICO 87410

CPS 965W

COMPANY

Meridian

Oil/

DAILY DRILLING REPORT

9-1

19

WELL NAME:

Huerfano

WELL NUMBER:

1734 254

SECTION:

13

TOWNSHIP:

26 IV

RANGE:

10

WATER AT:

140 ft

FEET

HOLE MADE

6 3/4

420 ff

DESCRIPTION OF FORMATION

[illegible]

REMARKS:

Water sample at ~~150~~ 140 ft.

Grant & Gunn

Driller

Tool Dresser



CPS 965W

API WATER ANALYSIS REPORT FORM

Company <u>Meridian Oil Co.</u>		Sample No. <u>9</u>	Date Sampled <u>9-1-87</u>
Field <u>Huerfano</u>	Legal Description	County or Parish <u>San Juan</u>	State <u>N.M.</u>
Lease or Unit	Well <u>Huerfano #173</u>	Depth <u>140'</u>	Formation <u>ground bed</u>
Type of Water (Produced, Supply, etc.)		Sampling Point	Water, B/D
			Sampled By

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>259</u>	<u>11.3</u>
Calcium, Ca	<u>28.5</u>	<u>1.4</u>
Magnesium, Mg	<u>1.5</u>	<u>.1</u>
Barium, Ba		

ANIONS

Chloride, Cl	<u>23.6</u>	<u>.7</u>
Sulfate, SO ₄	<u>339</u>	<u>7.1</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
Bicarbonate, HCO ₃	<u>311</u>	<u>5.1</u>

OTHER PROPERTIES

pH	<u>8.00</u>
Specific Gravity, 60/60 F.	<u>1.0044</u>
Resistivity (ohm-meters) <u>12.5° F.</u>	<u>10.0</u>
Conductivity	<u>1000 μmho</u>
Total Dissolved Solids (calc.)	<u>962</u>
Iron, Fe (total)	<u>0</u>
Sulfide, as H ₂ S	<u>0</u>

REMARKS & RECOMMENDATIONS:

