

#194E 30-045- 26232

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 N Sec. 16 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #194E

cps 1854w

Elevation 6564' Completion Date 9/16/87 Total Depth 420' Land Type* N/A

Casing, Sizes, Types & Depths 20' OF CASING

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. 120' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 375', 365', 355', 345', 335', 325', 315', 305', 295', 280'

Depths vent pipes placed: N/A

Vent pipe perforations: 320'

Remarks: (gb #1)

RECEIVED

MAY 31 1991

OIL CON. DIV.
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

Drilling Log (Attach Hereto) ☐Completion Date 9-16-87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
185400	Huerfano 194E		83 IV	☒ Good ☐ Bad
Location:	Anode Size:	Anode Type:	Size Bar:	
5016-2670	2" x 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
470	412	6 hrs		Flew 6564
Anode Depth				
# 1 375	# 2 365	# 3 355	# 4 345	# 5 335
# 6 325	# 7 315	# 8 305	# 9 295	# 10 280
Anode Output (Amps)				
# 1 5.6	# 2 6.4	# 3 6.6	# 4 5.5	# 5 6.3
# 6 6.3	# 7 5.7	# 8 6.5	# 9 6.2	# 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 11.6	Amps 21.2	Ohms .55		

Remarks: Driller said water was at 120'. Vent pipe is perforated up to 100'. Set 20' of casing due to blow sand. A total of 15 minutes casing time

Rectifier Size: 40 V 16 A
 Addn'l Depth: 88 ✓
 Depth Credit: 30' ✓
 Extra Cable: 11' ✓
 Ditch & 1 Cable: 85'
 Ditch & 2 Cable: 85'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: 150.00
 Junction Box: 40.00

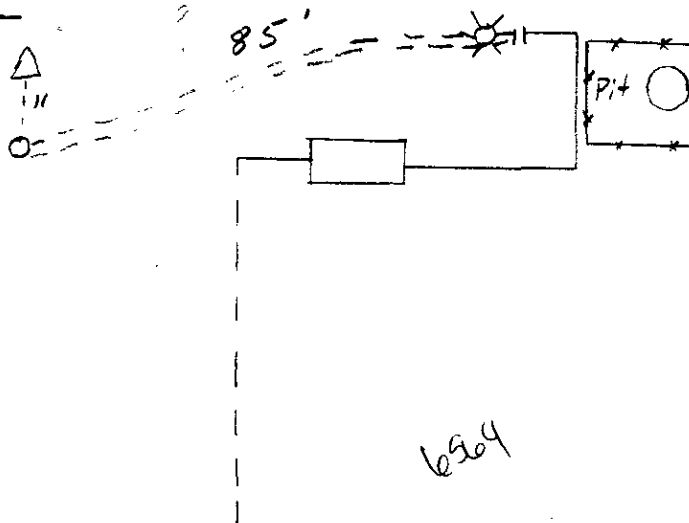
4300
 -352 ✓
 3948
 7.50 ✓
 4.29 ✓
 4420 ✓

All Construction Completed

Randy Smith
 (Signature)

20' eq. pvc
 @ \$22.00

440.00
 4633.19
 231.70
 4865.69



MERIDIAN OIL

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

Date 9-16-87

DEEP WELL GROUND BED LOG

Company

Burge Corrosion

Well No.

194E

Location

Huerfano

Volts Applied

11.6

Amperes

21.2

5						230	1.6					455	375	31	680	5.6				
10						235	1.9					460	365	3.2	685	6.4				
15						240	2.5					465	355	3.0	690	6.6				
20						245	2.7					470	345	2.9	695	5.5				
25						250	2.6					475	335	3.2	700	6.3				
30						255	2.7					480	325	3.0	705	6.3				
35						260	2.6					485	315	2.9	710	5.7				
40						265	2.5					490	305	3.0	715	6.5				
45						270	2.6					495	295	2.8	720	6.2				
50						275	2.7					500	280	2.9	725	5.7				
55						280	2.6					505			730					
60						285	2.4					510			735					
65						290	2.5					515			740					
70						295	2.5					520			745					
75						300	2.4					525			750					
80						305	2.7					530			755					
85						310	2.7					535			760					
90						315	2.5					540			765					
95						320	2.5					545			770					
100	1.5					325	2.5					550			775					
105	1.4					330	2.6					555			780					
110	2.1					335	2.7					560			785					
115	2.7					340	2.5					565			790					
120	2.7					345	2.5					570			795					
125	2.7					350	2.2					575			800					
130	2.9					355	2.5					580			805					
135	3.0					360	2.9					585			810					
140	2.8					365	2.8					590			815					
145	2.8					370	2.7					595			820					
150	2.6					375	2.4					600			825					
155	2.4					380	2.5					605			830					
160	1.7					385	2.3					610			835					
165	1.9					390	1.7					615			840					
170	2.0					395	1.2					620			845					
175	2.6					400	1.2					625			850					
180	2.7					405	1.7					630			855					
185	2.6					410	TD412					635			860					
190	2.7					415						640			865					
195	2.5					420						645			870					
200	1.9					425						650			875					
205	1.8					430						655			880					
210	1.8					435						660			885					
215	1.8					440						665			890					
220	1.4					445						670			895					
225	1.4					450						675			900					



QPS 185460

API WATER ANALYSIS REPORT FORM

Company	MERIDIAN OIL Co.	Sample No.	1	Date Sampled	9/16/57
Field	Ballard	Legal Description	County or Parish	State	
Lease or Unit	Hurland	Well	194E	Depth	120
Type of Water (Produced, Supply, etc.)	Produced	Formation	Ground Bed	Water, B/D	
		Sampling Point	Ground Bed	Sampled By	R.S.

DISSOLVED SOLIDS

CATIONS

Sodium, Na (calc.)
Calcium, Ca
Magnesium, Mg
Barium, Ba

mg/l

me/l

374
104
0.5

16.3
0.5
0.0

OTHER PROPERTIES

pH
Specific Gravity, 60/60 F.
Resistivity (ohm-meters)
Conductivity

9.11
1.0036
730
1400

Total Dissolved Solids (calc.)

1250

ANIONS

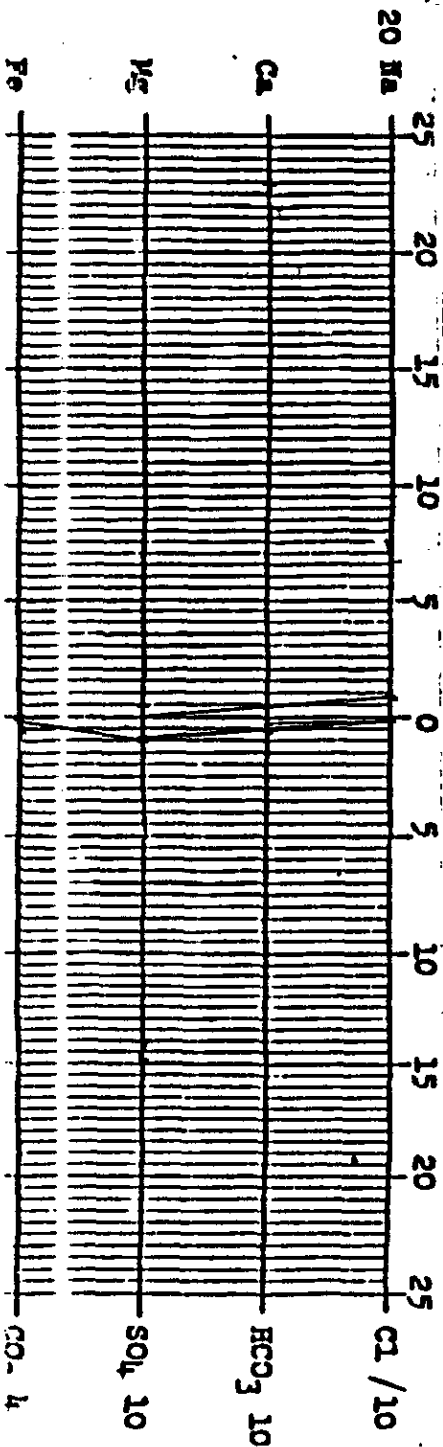
Chloride, Cl
Sulfate, SO₄
Carbonate, CO₃
Bicarbonate, HCO₃

25.5
461
19.2
357

0.7
9.6
0.6
2.9

Iron, Fe (total)
Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:



BURGE CORROSION SYSTEMS, INC.

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

CPS 1854W

COMPANY Meridian DAILY DRILLING REPORT 9-16 1987

WELL NAME: <u>Huerfano</u> 100 ft	WELL NUMBER: <u>194 E</u>	SECTION: <u>16</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>420 ft</u>		

DESCRIPTION OF FORMATION			
FROM	TO	FORMATION IS	COLOR
0	15	Sand	tan
15	60	Sand Stone	tan grey
60	80	Shale	grey
80	115	Water Sand	grey
115	160	Sandy shale & Shale	grey, purple
160	180	Sandstone	grey
180	210	Shale	grey
210	260	Sandstone	grey
260	400	Shale	Purple
400	420	Sand Stone	Grey
		T.P. 420 ft	
		SET 20ft. PVC casing	

REMARKS: water sample at 120 ft set 20ft. of casing.

Grant Summ Driller Tool Dresser