

3881

30-045-26676

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 H Sec. 28 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #197E

cpa 1963w

Elevation 6621' Completion Date 6/16/88 Total Depth 280' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 270', 245', 235', 225', 215', 180'

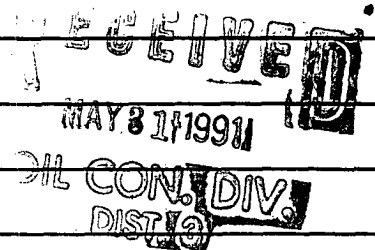
Depths vent pipes placed: 285'

Vent pipe perforations: 180'

Remarks: gb #2

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) ☒

Comp 6-23-88

Completion Date 6/16/88

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins. Union Check
1963 W	Huerfano * 197 E	54538A 2054538A	600' M = 82V	☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
H-28-26-10	2" x 60"	PURION	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat 1 Used
400'	385'			No. Sacks Mud Used
Anode Depth				
= 1 350'	= 2 340'	= 3 330'	= 4 305'	= 5 270'
= 6 245'	= 7 235'	= 8 225'	= 9 215'	= 10 180'
Anode Output (Amps)				
= 1 6.5	= 2 6.5	= 3 6.2	= 4 5.8	= 5 6.0
= 6 4.5	= 7 6.2	= 8 5.6	= 9 5.0	= 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 Output Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used
Volts 11.9		Amps 33.3		Ohms .357

Remarks: WATER AT 160, COULD NOT GET WATER SAMPLE
 INSTALLED 385' of 1" P.V.C. VENT pipe, PERFORATED 300'.
 CORDED 4 ANODES WITH COKE breeze AND HOLE FELL IN.
 DRILLED 2ND HOLE 280' LOGGED 280' INSTALLED 285' of 1"
 PVC VENT pipe; PERFORATED BOTTOM 180'

G.B. 4074.00 ✓

Rectifier Size:	40V	16A	669.00 ✓
Add'l Depth			
Depth Credit:	-115		-402.50 ✓
Extra Cable:	225'		54.00 ✓
Ditch & 1 Cable:	205'		143.50 ✓

All Construction Completed

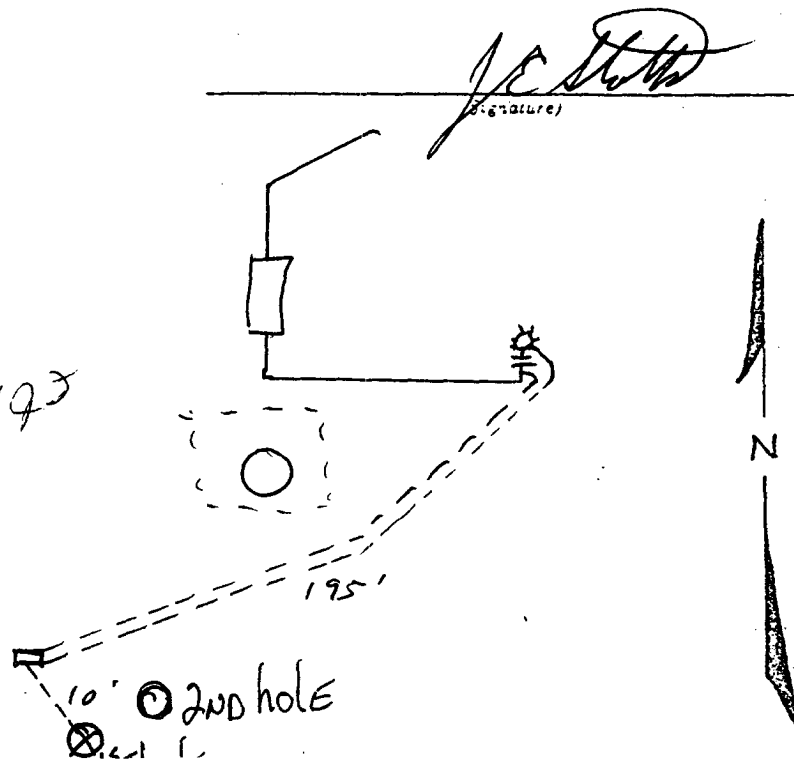
25' Meter Pole:		
20' Meter Pole:		
10' Stub Pole:	1	158.50 ✓
Junction Box:	1	225.00 ✓

4921.50

TAX - 246.98

85167.58 OK 73

6621



Catholic Protection Services Co.
1608 Schr d Ln.
P.O. Box 388
Farmington, NM 87499
(505) 327-9215
(505) 325-1946

Date 6/16/88

Company Meridian Oil

Well No. Huerfano #197B Location H-28-26-10

		Volts Applied		Amperes	
5		230	3.6	455	680
10		235	4.1	460	685
15		240	4.5 - (7)	465	690
20		245	2.4	470	695
25		250	1.9	475	700
30		255	1.8	480	705
35		260	1.8	485	710
40		265	2.9	490	715
45		270	2.9	495	720
50		275	4.2 -	500	725
55		280	4.3 - (6)	505	730
60		285	4.2 -	510	735
65		290	4.5	515	740
70		295	4.5 - (5)	520	745
75		300	4.4	525	750
80		305	4.4 - (4)	530	755
85		310	3.8	535	760
90		315	4.0	540	765
95		320	4.0	545	770
100		325	4.4	550	775
105		330	4.6 - (3)	555	780
110		335	4.3	560	785
115		340	4.7 - (2)	565	790
120		345	4.2	570	795
125		350	4.4 - (1)	575	800
130	4.2	355	4.9	580	805
135	3.8	360	5.0	585	810
140	3.3	365	4.2	590	815
145	3.1	370	3.7	595	820
150	3.0	375	2.0	600	825
155	3.1	380	1.8	605	830
160	4.3 WATER	385	.	610	835
165	4.5	390	.	615	840
170	4.7	395	.	620	845
175	4.6 - (10)	400	drilled to	625	850
180	4.8	405		630	855
185	4.7 - (9)	410		635	860
190	4.0	415		640	865
195	2.6	420		645	870
200	2.0	425		650	875
205	2.9	430		655	880
210	4.2	435		660	885
215	4.0 - (8)	440		665	890
220	3.7	445		670	895
225	3.6	450		675	900

Check 4 anodes
and hole fill in.

WELL TYPE GROUNDED DATA

C. A SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: 6-20-88
 WELL: HUERTANO # 197E PIPELINE: _____
 LOCATION: SEC 28 TWP. 36 RGE. 10 CO. SAN JUAN STATE N.M.
 ELEV. _____ FT: ROTARY 280 FT: CABLE TOOL -0- FT: CASING -0- FT.
 GROUNDED: DEPTH 280 FT: DIA. 6 3/4 IN. GAS _____ LBS. ANODES _____

DEPTH. FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	ANODE NO.	DEPTH. TOP OF ANODES
		E	I	R	I	I		
50	TEST WATER 140							
5.5	#2 HOLE							
60								
65								
70								
75								
80								
85								
90								
95								
100								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
200								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								

GROUNDED RESISTANCE: (1) VOLTS 11.9 - AMPS 33.3 - OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUGENS COMPANY

DATA SHEET NO. _____

WELL: _____ PIPELINE: _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDSED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANCHORS _____

GROUNDING RESISTANCE: (1) VOLTS _____ - AMPS _____ = _____ OHMS

(2) VIDEOGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

• LUKENS : 2000

WELL TYPE GROUNDED DATA

C A SHEET NO. _____

COMPANY _____ JOB NO. _____ DATE: 6-16-88

WELL: HURFANO # 197 E PIPELINE: _____

LOCATION: SEC 28 TWP. 24 RGE. 10 CO. SAN JUAN STATE N.M.

ELEV. _____ FT: ROTARY 400 FT: CABLE TOOL -0- FT: CASING -0- FT.

GROUNDED: DEPTH 380 FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH. FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	ANODE NO.	DEPTH. TOP OF ANODES
		E	I	R				
	<u>First water 160</u>							
50								
55	<u>lost hole</u>							
60	<u>4 anodes in hole</u>							
65								
70								
75								
80								
85								
90								
95								
100								
5								
10								
15								
20								
25								
30				4.2				
35				3.8				
40				3.3				
45				3.1				
50				3.0				
55				3.1				
60				4.3				
65				4.5				
70				4.7				
75				4.6				
80				4.8			10	175
85				4.7			9	186
90				4.0				
95				2.6				
200				2.0				
5				2.9				
10				4.2				
15				4.0			8	215
20				3.7				
25				3.6				
30				3.6				
35				4.1				
40				4.5			7	240
45				4.1				
50				2.4				
55				1.9				

GROUNDED RESISTANCE: (1) VOLTS _____ - AMPS _____ - OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LLOYD'S COMPANY

WELL TYPE GROUNDED DATA

DATA SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____
 WELL: _____ PIPELINE: _____
 LOCATION: SEC _____ TWP. _____ RGE. _____ CO. _____ STATE _____
 ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.
 GROUNDED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH. FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	ANODE NO.	DEPTH. TOP OF ANODES
		E	I	R	I	I		
60			1.8					
65			2.9					
70			4.5					
75			4.2					
80			4.3					
85			4.2					
90			4.5					
95			4.5					
300			4.4					
5			4.4		5.2	7.0	4	305
10			3.8					
15			4.0					
20			4.0					
25			4.4					
30			4.6		5.2	7.0	3	330
35			4.3					
40			4.7		5.9	7.6	2	340
45			4.2					
50			4.4		5.4	7.3	1	350
55			4.9					
60			5.0					
65			4.2					
70			3.7					
75			3.3					
80								
85	T. D. 985							
90								
95								
100								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								

GROUNDED RESISTANCE: (1) VOLTS _____ - AMPS 19.2 - OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

2nd hole
D. Cress DRILLING CO. 1963

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Huefauw 1975 OK Date 6-20-88
Client Meridian Oil Co. Prospect _____
County Sauvigny State New Mex.

If hole is a redill or if moved from original stated position show distance and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
0	20	sand
20	35	sandy shale.
35	90	sandstone
90	140	shale
140	160	sand ✓
160	190	shale
190	240	sandy shale
240	260	shale
260	280	sandstone

Mud _____ Brn _____ Lime _____

Rock Bit Number _____ Mate _____

Remarks: _____

Driller Lonnie Brown

D. Cress DRILLING CO. 1963

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Huefauw 1975 OK Date 6-15-88
Client Meridian Oil Co. Prospect _____
County Sauvigny State New Mexico

If hole is a redill or if moved from original stated position show distance and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
0	50	sand
50	100	sandy shale
100	130	shale
130	160	sand ✓
160	190	shale
190	210	sandy shale
210	215	sand ✓
215	235	sandstone
235	260	shale
260	280	sandstone
280	400	shale

Mud _____ Brn _____ Lime _____

Rock Bit Number _____ Mate _____

Remarks: water @ 100' and 215'

Driller Lonnie Brown