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30-045-26672

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 K Sec. 14 Twp 26 Rng 10Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #179E

cps 1968w

Elevation 6632' Completion Date 6/23/88 Total Depth 400' Land Type* N/ACasing, Sizes, Types & Depths NONEIf 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' NO SAMPLEDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 365', 355', 345', 335', 300', 285', 275', 260', 255', 235'Depths vent pipes placed: 400'Vent pipe perforations: 300'Remarks: gb #1**RECEIVED**

MAY 81 1991

OIL CON. DIV.
DIST. 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 6-24-88 JZ

Completion Date 6-23-88

CPS #	Well Name, Line or Plan	Work Order #	Static:	Ins Union Check
196BW	Wuerfano 179E	54532H 2054532H	600W = .637	☒ Good ☐ Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
K14-26-10	2" x 60"	Duriron	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Goke Used	Last Circulation Mar'l Used
400'	390'			
Anode Depth				
# 1 365	# 2 355	# 3 345	# 4 335	# 5 300
# 6 285	# 7 275	# 8 260	# 9 255	# 10 235
Anode Output (Amps)				
# 1 4.5	# 2 3.7	# 3 4.2	# 4 4.3	# 5 3.8
# 6 3.8	# 7 4.8	# 8 4.4	# 9 3.5	# 10 4.5
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 12.4	Amps 24.2	Ohms .51	No. 2 C.P. Cable Used	

Remarks: Driller said water to be 160' max water sample. No surface casing was set. Installed 400' 1" PVC vent pipe, bottom 300' perforated.

Rectifier Size: 40 V 16 A 664.00

Add'n'l Depth _____

Depth Credit: 110 @ 3.50 = 385.00 ✓

Extra Cable: 70' @ .24 16.80 ✓

Ditch & 1 Cable: 20' @ .70 14.00 ✓

25' Meter Pole: 1 @ 307 307.00 ✓

20' Meter Pole: _____

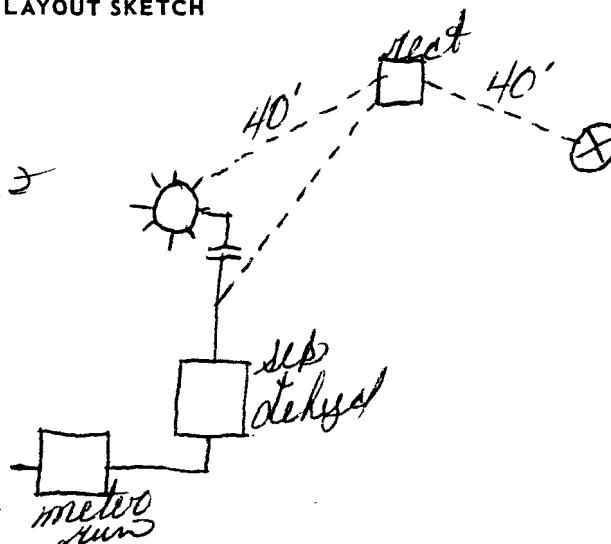
10' Stub Pole: _____

GROUND BE

All Construction Completed

Calvin Rodman
(Signature)

GROUND BED LAYOUT SKETCH



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WELL TYPE GROUNDED DATA

DATA SHEET NO. _____

COMPANY _____ JOB No. 13128 DATE: 6-23-88
 WELL: HUERRANO # 179 E PIPELINE: _____
 LOCATION: SEC 14 TWP. 26 RGE. 10 CO. SAN JUAN STATE N MEX
 ELEV. _____ FT: ROTARY 400 FT: CABLE TOOL -0- FT: CASING -0- FT:
 GROUNDED: DEPTH 400 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	FRESH WATER 160							
55								
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					1.3			
85					2.7			
90					2.8			
95					2.8			
200					2.7			
5					2.7			
10					2.6			
15					2.8			
20					2.7			
25					2.6			
30					2.6			
35					2.4	2.7	4.5	10.
40					2.0			
45					1.9			
50					2.0			
55					2.4	2.3	3.5	9. 255

GROUNDED RESISTANCE: (1) VOLTS 12.4 - AMPS 24.2 - OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

C - A SHEET NO. _____

DEPTH. F.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	ANODE NO.	DEPTH TOP OF ANODES
		E	I	R	I	I		
60			2.8		2.5	4.4	8	260
65			3.2					
70			3.0					
75			2.6		2.7	4.8	7	275
80			2.4					
85			2.2		2.4	4.3	6	285
90			3.2					
95			2.7					
300			2.5		2.9	3.8	5	300
5			2.2					
10			1.7					
15			1.1					
20			0.9					
25			0.7					
30			1.5					
35			2.5		2.6	4.3	4	235
40			2.6					
45			2.8		2.8	4.2	3	245
50			3.0					
55			2.8		2.8	3.7	2	255
60			2.6					
65			2.6		2.5	4.5	1	265
70			2.0					
75			2.3					
80			2.3					
85			2.1					
90			2.0					
95								
400	T. D. - 400							
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								

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

(2) VIDEOGROUND _____ CHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A. LUKENS *Chair*

D. CRASS DRILLING CO.

Drill No. 3

1968

DRILLER'S WELL LOG

S P. No. Huerfano-179.EDK Date 6-23-88
Client Meridian Oil Co. Prospect _____
County SAN JUAN State New Mex.

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	35	SANDY Shale
35	70	SAND
70	160	Shale
160	175	SAND ✓
175	240	Shale
240	260	SANDSTONE
260	280	Shale
280	290	SANDSTONE
290	300	Shale
300	335	SANDSTONE
335	385	Shale
385	400	SANDY Shale

Mud _____ Brn _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 160'

Driller Ronnie Brown