

30-045-20416

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. 21 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #196

cps 979w

Elevation 6590' Completion Date 8/29/75 Total Depth 450' 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. WET AT 85'-110', 215'-242' & 340'-360'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4600 lbs.

Depths anodes placed: 355', 345', 335', 325', 315', 305', 295', 285', 275', 265'

Depths vent pipes placed: N/A

Vent pipe perforations: 250'

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

[Signature]
Completion Date **8-29-75**

Drilling Log (Attach Hereto) ☐

Well No. Hucfano #196		Location SE21-26-10		CPS No. 979W	
Pipe & Size Bit Used 6 3/4				Work Order No. 5457-5465	
Anode Hole Depth 450	Total Drilling Rig Time	Total Lbs. Coke Used 4600	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 355	# 2 345	# 3 335	# 4 325	# 5 315	# 6 305
# 7 295	# 8 285	# 9 275	# 10 265		
Anode Output (Amps)					
# 1 4.0	# 2 4.4	# 3 5.2	# 4 5.2	# 5 6.5	# 6 5.1
# 7 5.6	# 8 4.9	# 9 5.0	# 10 4.7		
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 11.0	Amps 19.5	Ohms 0.56		3500	

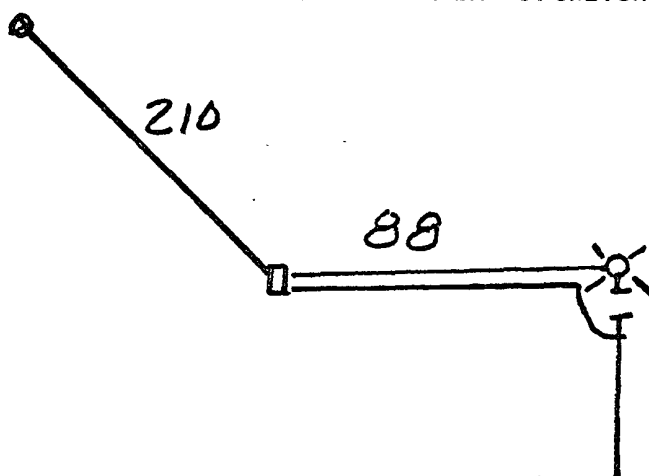
Remarks: **Wet at 85 to 110, 215 to 242 & 340 to 360**
Start Water injection at 360' - Drilled to 450' - Broke
Cable on Rig - Filled water to 100' & Logged to 435
Next A.M. Water at 100' & T.D. at 406 -
Vent Perforated 250'

[Signature]

All Construction Completed

[Signature]
(Signature)

GROUND BED LAYOUT SKETCH



6590'

19

Company Supervisor

979W

MW	gas/mol
16	C ₁ 6.4
28	C ₂ 10.12
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 11.93
86	IC ₅ 13.85
100	NC ₅ 13.71
114	IC ₆ 15.50
128	NC ₆ 15.57
142	IC ₇ 17.2
156	NC ₇ 17.46
170	IC ₈ 19.39
184	NC ₈ 19.64
200	IC ₉ 21.6

MW	MISC	gas/mol
44	CO ₂	6.38
34	H ₂ S	6.17
28	N ₂	4.16
2	H ₂	1.38

200	1.5	280	2.4	wet at 85-100		
	2.2		2.4	215 to 242		
10	2.6	90	2.3	340 to 360		
	2.5		2.5	Start wtr in at		
20	2.4	300	2.4	360' - Drill to 450		
	2.5		2.5	Broke cable -		
30	2.6	10	2.4	Fill water to 100		
	2.6		2.4	Log -		
40	2.5	20	2.6	Water Next A Mat		
	2.5		2.6	100' -		
50	2.5	30	2.4	Bottom at 406'		
	2.6		2.4			
60	2.6	40	2.4			
	2.6		2.4			
70	2.5	50	2.3			
	2.6		2.2			
80	2.6	60	1.8			
	2.6		1.1			
90	2.5	70	1.1			
	2.5		1.2			
200	2.6	80	1.2			
	2.4		1.2	1	355	2.5 4.0
10	2.2	90	1.4	2	345	2.5 4.4
	1.7		2.1	3	335	2.6 5.2
20	1.4	400	1.8	4	325	2.7 5.2
	1.6		1.8	5	315	3.0 6.5
30	1.6	10	1.7	6	305	2.6 5.1
	2.2		1.2	7	295	2.6 5.6
40	2.5	20	1.0	8	285	2.5 4.9
	2.5		1.6	9	275	2.5 5.0
50	2.4	30	1.9	10	265	2.8 4.7
	2.5	435				
60	2.5	40				
	2.4					
70	2.4	50	11.0V	19.5A. = 0.56 J		
	2.4					