

30045-20599

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. 20 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #207

cps 977w

Elevation 6516' Completion Date 8/28/75 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. 130'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4300 lbs.

Depths anodes placed: 245', 235', 225', 215', 195', 815', 175', 165', 155'

Depths vent pipes placed: 245'

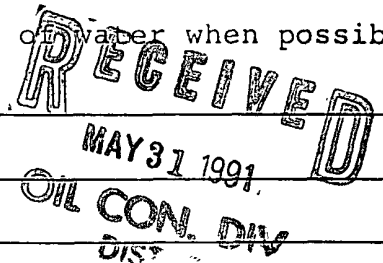
Vent pipe perforations: 245'

Remarks: (gb #1) ALL ANODES TIGHT. BELEIVE HOLE CAVED. COKE AROUND #10

ANODE ONLY.

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

[Handwritten Signature]

Drilling Log (Attach Hereto). ☐

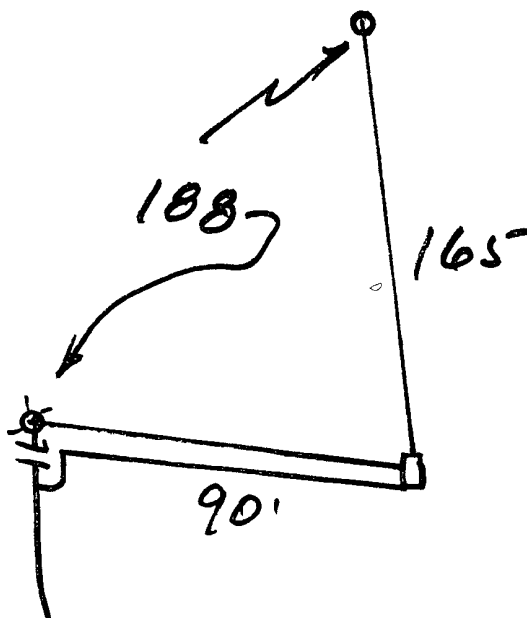
Completion Date 8-28-75

Well Name Huerfano #207		Location SE 20-26-10		CPS No. 977W	
Type & Size Bit Used 6 3/4				Work Order No. 54746	
Anode Hole Depth 280	Total Drilling Rig Time	Total lbs. Coke Used 4300	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 245	# 2 235	# 3 225	# 4 215	# 5 205	# 6 195
# 7 185	# 8 175	# 9 165	# 10 155		
Anode Output (Amps)					
# 1 2.0	# 2 2.4	# 3 2.3	# 4 2.5	# 5 2.2	# 6 2.2
# 7 2.3	# 8 2.1	# 9 2.4	# 10 6.6		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance					
Volts 11.8	Amps 16.0	Ohms 0.73	No. 8 C.P. Cable Used 2300		No. 2 C.P. Cable Used

Remarks: Wet at 130, Start water injection at 140'
Drilled 240' - Water Next A.M. at 130'
Vent Perforated 245' - (ALL)
NOTE: - No 10 Anode. After Approx 4 sacks of Coke
was Down Hole. ALL Anodes Got Tight at once
was able to Get No 10 Anode loose -
Believe Hole Caved -
Coke Around #10 Anode only

All Construction Completed
[Signature]
(Signature)

GROUND BED LAYOUT SKETCH



8-27 to 8-28-75

DAILY DRILLING REPORT

LEASE					WELL NO. 977-W					CONTRACTOR					RIG NO.					REPORT NO.					DATE					19				
MORNING										DAYLIGHT										EVENING														
Driller					Total Men In Crew					Driller					Total Men In Crew					Driller					Total Men In Crew									
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.																				
0.0	55'	Sand			140'	146'	Shale			172'	176'	Shale																						
55'	105'	Sandstone			146'	152'	Sandstone			176'	198'	Sandstone																						
105'	114'	Shale			152'	170'	Shale			178'	190'	Shale																						
114'	140'	Sandstone			170'	172'	Sandstone			190'	195'	Sandstone																						
NO. DC _____ SIZE _____ LENG. _____					1					NO. DC _____ SIZE _____ LENG. _____					NO. DC _____ SIZE _____ LENG. _____																			
BIT NO. _____					NO. DC _____ SIZE _____ LENG. _____					BIT NO. _____					NO. DC _____ SIZE _____ LENG. _____																			
SERIAL NO. _____					STANDS _____					SERIAL NO. _____					STANDS _____																			
SIZE _____					SINGLES _____					SIZE _____					SINGLES _____																			
TYPE _____					DOWN ON KELLY _____					TYPE _____					DOWN ON KELLY _____																			
MAKE _____					TOTAL DEPTH _____					MAKE _____					TOTAL DEPTH _____																			
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED							MUD RECORD			MUD, ADDITIVES USED AND RECEIVED							MUD RECORD			MUD, ADDITIVES USED AND RECEIVED											
Time	Wt.	Vis.								Time	Wt.	Vis.								Time	Wt.	Vis.												
FROM	TO	TIME BREAKDOWN							FROM	TO	TIME BREAKDOWN							FROM	TO	TIME BREAKDOWN														
195'	205'	Shale																																
205'	207'	Sandstone																																
207'	213'	Shale																																
213'	221'	Sandstone																																
221'	227'	Shale																																
227'	240'	Sandstone																																
REMARKS - 280' T-D.										REMARKS -										REMARKS -														
Damp at 122-140																																		
WATER @ 140 - 8-28-75																																		
Inlet at 140 to 280'																																		

SIGNED: Toolpusher

Jimmy Jones

Company Supervisor

977W - 8-28-75

Wet at 130
Start inj at 140
Water Next AM at 130

MW	gas/mol
16 C ₁	6.4
30 C ₂	10.12
44 C ₃	10.42
58 C ₄	12.38
72 C ₅	11.91
86 C ₆	13.85
100 C ₇	13.71
114 C ₈	15.58
128 C ₉	15.57
142 C ₁₀	17.2
156 C ₁₁	17.46
170 C ₁₂	19.39
184 C ₁₃	9.64
198 C ₁₄	9.67

MW	MISC	gas/mol
44 CO ₂	0.38	
34 H ₂ S	5.17	
28 N ₂	4.18	
2 H ₂	3.38	

120	.8			
	.8			
30	.6			
	1.0			
40	1.2			
	1.1			
50	1.2			
	1.2			
60	1.2			
	1.4			
70	1.4			
	1.6			
80	1.6			
	1.7			
90	1.8			
	1.7			
200	1.7			
	1.6			
10	1.5	1	245	2.0 2.0
	1.6	2	235	2.4 2.4
20	1.7	3	225	2.3 2.3
	1.6	4	215	2.4 2.5
30	1.6	5	205	2.0 2.2
	1.6	6	195	2.2 2.2
40	1.6	7	185	2.3 2.3
	1.5	8	175	1.8 2.1
50	1.4	9	165	1.8 2.4
	1.6	10	155	2.2 6.6
60	1.3			
266				
70				
80				

T.D

$$10 \text{ Amides} = 11.8 \text{ V} - 16.0 \text{ A} = 0.73 \text{ A}$$

$$1 \text{ Thru } 9 = 12.20 \text{ V} \quad 13.0 \text{ A} = 0.94 \text{ A}$$