

30-045-20778

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 10 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #211

cps 958w

Elevation 6721' Completion Date 8/19/75 Total Depth 480' 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. 300'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4400 lbs.

Depths anodes placed: 430', 420', 410', 400', 390', 380', 370', 360', 350', 335'

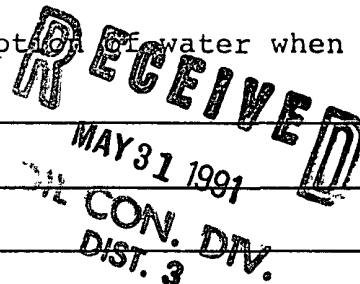
Depths vent pipes placed: N/A

Vent pipe perforations: 215'

Remarks: qb #1

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 **8-19-75**

Well Name Huerfano Unit #211		Location NW 10-26-10		CPS No. 958W	
Type & Size Bit Used 6 3/4				Work Order No. 54862	
Anode Hole Depth 480	Total Drilling Rig Time 4400	Total Lbs. Coke Used 4400	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5
	430	420	410	400	390
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5
	4.9	5.0	5.0	5.4	4.6
Anode Depth	# 6	# 7	# 8	# 9	# 10
	380	370	360	350	335
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
	5.2	5.2	5.3	5.3	3.9
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts 10.6		Amps 19.5		Ohms 0.54
					4.50
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

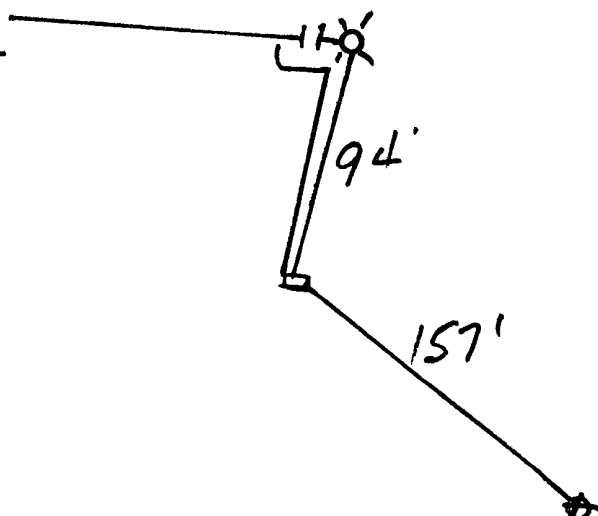
Remarks: **Drilled to 320 with Air - Muddy Next A.M. - Start water injection Vent Perforated 215'**

Driller 933.10
mate 437.84
Ward 385.95
Cable 264.00
Anodes 264.60
T Box 86.00
Vent 23.00
Ret 194.50
misc. 25.00
2638.99

All Construction Completed

Handwritten signature: Daniels
(Signature)

GROUND BED LAYOUT SKETCH



8-18-68 19-75

DAILY DRILLING REPORT

LEASE		WELL NO. 275-4		CONTRACTOR		RIG NO. 3791		REPORT NO.		DATE		19		
MORNING					DAYLIGHT					EVENING				
Driller					Driller					Driller				
Total Men In Crew					Total Men In Crew					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.
00	2'	Shale			26'	40'	Sandstone			214'	222'	Sandstone		
2'	10'	Claystone			40'	54'	Shale			222'	255'	Shale		
10'	16'	Sandstone			54'	200'	Sandstone			255'	257'	Sandstone		
16'	26'	Shale			200'	214'	Shale			257'	270'	Shale		
BIT NO.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.		
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			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		
270'	330'	Sandstone			326'	337'	Sandstone							
330'	335'	Shale			337'	400'	Shale							
335'	348'	Sandstone			400'	410'	Sandstone							
348'	358'	Shale			410'	435'	Shale							
358'	363'	Sandstone			435'	440'	Sandstone							
363'	386'	Shale			440'		TD							
REMARKS -					REMARKS -					REMARKS -				
Damp 80' to 160'														
" 135' to 164'														
" 180' to 194'														
Cut at 300' to 320'														
Project at 300' to 480'														

SIGNED: Toolpusher

Company Supervisor

958w-8-19-25

MW		g/mol
16	C ₁	6.4
30	C ₂	10.12
44	C ₃	10.42
58	IC ₄	12.38
"	NC ₄	11.93
72	IC ₅	13.85
"	NC ₅	13.71
86	IC ₆	15.50
	C ₆	15.57
100	IC ₇	17.2
"	C ₇	17.46
114	C ₈	19.71
28	C ₂	9.64
42	C ₃	9.67

MISC		
MW		gals/mol
44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.38

Drill 320 with air
Next A.M. Muddy
Start inj -

VENT PRESS 21.5"
44 Cofc

Depth	Pressure	Temperature	Notes
320	1.6		Drill 320 with air
	1.8		Next A.M. Muddy
30	1.1		Start inj -
	1.1		
40	1.0		
	1.1		
50	1.2		VENT PERF 21.5'
	1.2		
60	1.2		44 Coke
	1.2		
70	1.3		
	1.3		
80	1.3		
	1.3		
90	1.3		
	1.3		
400	1.5		
	1.5		
10	1.6		
	1.8		
20	1.8		
	1.9		
30	1.9		
	1.9		
40	1.9		
	2.0		
50	4.51' = TD		
60			
70			

Depth	Pressure	Temperature	Notes
1	430	1.9	4.9
2	420	2.2	5.0
3	410	1.7	5.0
4	400	2.0	5.4
5	390	1.5	4.6
6	380	1.5	5.2
7	370	1.4	5.2
8	360	1.6	5.3
9	350	1.7	5.3
10	335	1.4	3.9

Depth	Pressure	Temperature	Notes
10.6V	19.5 A	0.54 R	