

30-045-05697

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. 27 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #121

cps 878w

Elevation 6655' Completion Date 6/16/71 Total Depth 520' 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'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

Type & amount of coke breeze used: 9750 lbs. **OIL COM**

Depths anodes placed: 410', 395', 385', 375', 365', 355', 345', 335', 325', 315'

Depths vent pipes placed: N/A

Vent pipe perforations: 300'

Remarks: cqb #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

Contract By C.P.S.

Drilling Log (Attach Hereto). ☐

Completion Date 6-16-71

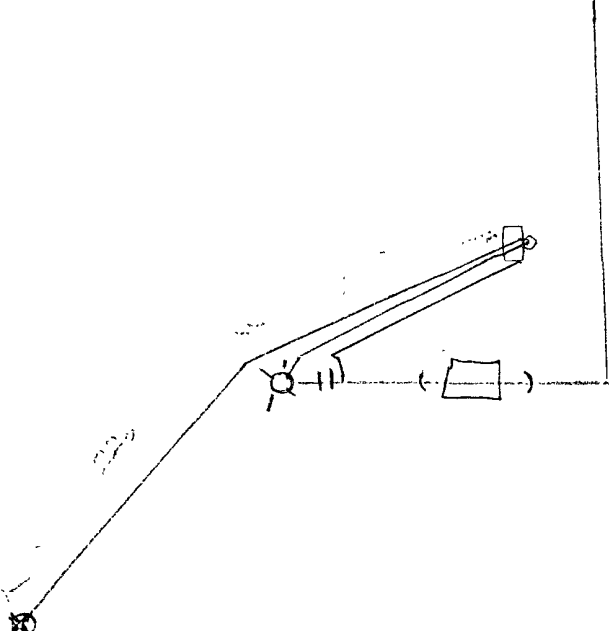
Well Name Huerfano #121		Location NW 27-26-10		CPS No. 878 W						
Type & Size Bit Used 6 3/4				Work Order No. 184-54014-50-20						
Anode Hole Depth 520'	Total Drilling Rig Time		Total Lbs. Coke Used 9750	Lost Circulation Mat'l Used						
No. Sacks Mud Used										
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	410	395	385	375	365	355	345	335	325	315
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	4.0	3.4	4.2	4.3	3.8	4.0	4.2	4.8	4.3	4.1
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	Volts 12.2		Amps 13.2		Ohms 0.92		No. 8 C.P. Cable Used 74'		No. 2 C.P. Cable Used	

Remarks: 1/3 600' NW = .72 - Vent Hose Perforated 300'
Coke Hauled in Bulk - Pump Coke until around Top Anode
Slurry rest of Hole - Estimate 9750 lbs
Water @ 300 - 310'

All Construction Completed

Raul P. Sorela
(Signature)

GROUND BED LAYOUT SKETCH



DAILY DRILLING REPORT

LEASE C.D. 828 CONTRACTOR doe monee RIG NO. 1 REPORT NO. 1 DATE 1-18 1971

MORNING						DAYLIGHT						EVENING					
Driller <u>Jim Watson</u>			Total Men In Crew <u>2</u>			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	55	SAND				188	292	Shale				420	425	WHS and Gravel			
55	120	Shale w/ sandstone	stands			292	300	Benitonic sand				435	455	Shale			
120	130	WET SAND				300	310	WTR. SAND				455	500	Benitonic sand			
130	188	Benitonic SAND				310	420	SDY. Shale									
BIT NO. <u>634</u>			NO. DC <u> </u> SIZE <u> </u> LENG. <u> </u>			BIT NO. <u> </u>			NO. DC <u> </u> SIZE <u> </u> LENG. <u> </u>			BIT NO. <u> </u>			NO. DC <u> </u> SIZE <u> </u> LENG. <u> </u>		
SERIAL NO. <u> </u>			STANDS <u> </u>			SERIAL NO. <u> </u>			STANDS <u> </u>			SERIAL NO. <u> </u>			STANDS <u> </u>		
SIZE <u> </u>			SINGLES <u> </u>			SIZE <u> </u>			SINGLES <u> </u>			SIZE <u> </u>			SINGLES <u> </u>		
TYPE <u> </u>			DOWN ON KELLY <u> </u>			TYPE <u> </u>			DOWN ON KELLY <u> </u>			TYPE <u> </u>			DOWN ON KELLY <u> </u>		
MAKE <u> </u>			TOTAL DEPTH <u> </u>			MAKE <u> </u>			TOTAL DEPTH <u> </u>			MAKE <u> </u>			TOTAL DEPTH <u> </u>		
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			

REMARKS -

3600 mud Ball out of Hole @ 120' Ball out of Increase in water @ 300-310'

SIGNED: Toolpusher _____ Company Supervisor _____

Date: _____

By: _____

Pump Coke until ground
all andes - Then slurry

Vent Hose Perf. 300'

Huertano #121 C.P.S. 878W W.O. 184-54014-50-20

MW	gas/mol
15	C1 6.4
30	C2 9.56
44	C3 10.42
58	IC4 12.38
72	NC4 13.93
86	IC5 15.50
100	NC5 17.2
114	IC6 18.85
128	NC6 20.5
142	IC7 22.15
156	NC7 23.8
170	IC8 25.45
184	NC8 27.1
198	IC9 28.75
212	NC9 30.4
226	IC10 32.05
240	NC10 33.7
254	IC11 35.35
268	NC11 37.0
282	IC12 38.65
296	NC12 40.3
310	IC13 41.95
324	NC13 43.6
338	IC14 45.25
352	NC14 46.9
366	IC15 48.55
380	NC15 50.2
394	IC16 51.85
408	NC16 53.5
422	IC17 55.15
436	NC17 56.8
450	IC18 58.45
464	NC18 60.1
478	IC19 61.75
492	NC19 63.4
506	IC20 65.05
520	NC20 66.7
534	IC21 68.35
548	NC21 70.0
562	IC22 71.65
576	NC22 73.3
590	IC23 74.95
604	NC23 76.6
618	IC24 78.25
632	NC24 79.9
646	IC25 81.55
660	NC25 83.2
674	IC26 84.85
688	NC26 86.5
702	IC27 88.15
716	NC27 89.8
730	IC28 91.45
744	NC28 93.1
758	IC29 94.75
772	NC29 96.4
786	IC30 98.05
800	NC30 99.7

MW	MSC	gas/mol
14	CO2	5.25
28	H2	5.17
42	N2	4.16
56	H2	3.18

100	2.9	80	3.0	60		wtr.	cake	
	2.4		2.8		1	410	2.6	4.4
10	2.3	90	2.7	70	2	395	2.4	3.7
	2.5		2.2		3	385	2.9	4.8
20	2.4	300	1.2	80	4	375	2.7	4.8
	2.3		1.1		5	365	2.5	4.4
30	1.6	10	1.0	90	6	355	2.8	4.4
	2.8		2.6		7	345	2.7	4.6
40	3.1	20	2.7	500	8	335	3.0	4.8
	3.1		2.8		9	325	2.9	4.7
50	3.3	30	2.7	10	10	315	2.6	4.5
	3.2		2.7					
60	3.0	40	2.8	20.			12.2V	13.2A
	2.5		2.8				0.92~	
70	1.5	50	2.8					
	1.6		2.7					
80	2.7	60	2.6					
	3.6		2.6					
90	3.4	70	2.7					
	3.6		2.7					
200	3.4	80	2.2					
	3.5		2.9					
10	3.2	90	2.5					
	2.3		2.2					
20	3.4	400	2.2					
	3.5		2.4					
30	3.7		2.5					
	3.5		2.0					
40	3.4	20	1.2					
	3.5		2.5					
50	3.6	30	2.7					
	3.3		3.2					
60	2.9	40	2.4					
	3.1		2.5					
70	3.1	50	1.2	Boh				
	3.1							

Bottom Ande + 20' = 435'

287' P.T.C.H @ 20' = 50.40
= 38' Hole Depth

Pay Total Depth = 473'