

36-30-045-05787
135-30-045-05770
240-30-045-21220

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. 23 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUFRANO UNIT #36, #135, #240

cps 882w

Elevation 6387' Completion Date 7/2/71 Total Depth 360' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 7800 lbs.

Depths anodes placed: 305', 295', 285', 255', 245', 235', 225', 195', 175'

Depths vent pipes placed: 305'

Vent pipe perforations: 250'

Remarks: (gb #1)

RECEIVED
MAY 31 1991

OIL CON. DIV.

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). ☐

Completion Date 7/2/71

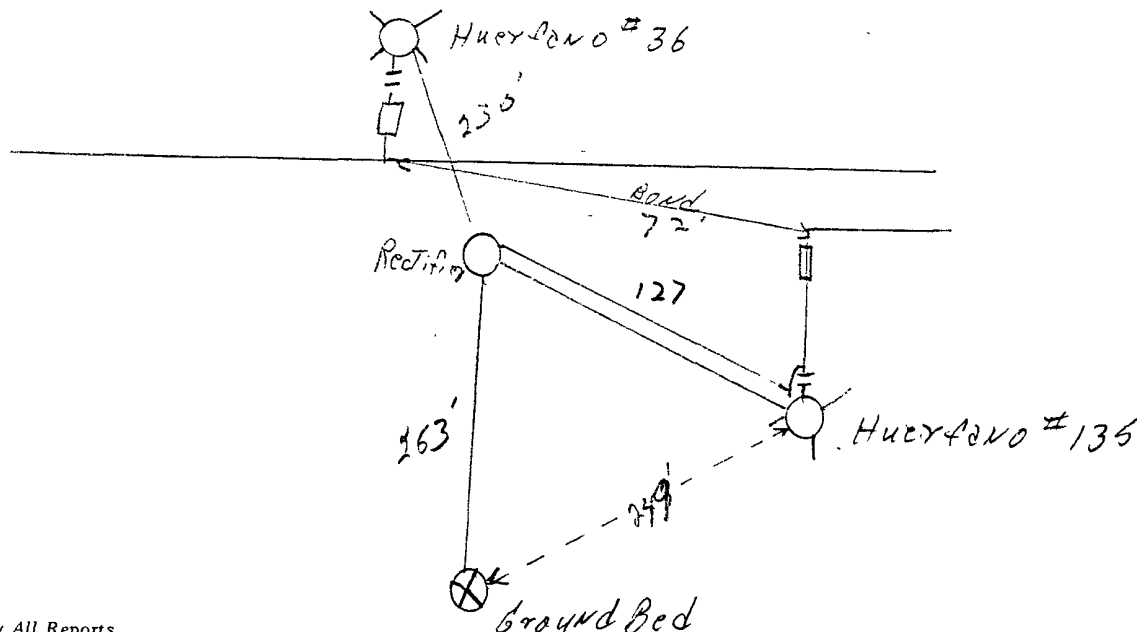
Well Name <u>Huerfano # 135</u> <u>Huerfano # 36</u>		Location <u>NW 23-26-9W</u>		CPS No. <u>882 W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>184-54295-19-50-</u> <u>194-20146-19-50-</u>	
Anode Hole Depth <u>360</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>7800</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>305'</u>	# 2 <u>295'</u>	# 3 <u>285'</u>	# 4 <u>255'</u>	# 5 <u>245'</u>	# 6 <u>235'</u>
# 7 <u>225'</u>	# 8 <u>195'</u>	# 9 <u>185'</u>	# 10 <u>175'</u>		
Anode Output (Amps)					
# 1 <u>4.6</u>	# 2 <u>5.6</u>	# 3 <u>5.2</u>	# 4 <u>3.4</u>	# 5 <u>5.5</u>	# 6 <u>5.8</u>
# 7 <u>4.8</u>	# 8 <u>4.4</u>	# 9 <u>5.9</u>	# 10 <u>4.0</u>		
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 <u>12</u>	Amps <u>19.2</u>	Ohms <u>62.4</u>		<u>890'</u>	
				No. 2 C.P. Cable Used	

Remarks: Huerfano # 135 STATIC 9/5 600' SE = .76 vent Hose Perforated
Huerfano # 36 STATIC 9/5 600' NE = .74 TO #1 ANODE
Pumping Hose plugged once AT 200'
Drilled WITH AIR WATER STANDING IN MORNING @ 90'
Pumped TO 50' COMPLETED BY SLURRY
Wires Marked 1 NOTCH = Huerfano # 135
2 NOTCHES = FLOWLINE
3 NOTCHES = Huerfano # 36

All Construction Completed

E. R. Paulk
(Signature)

GROUND BED LAYOUT SKETCH



DAILY DRILLING REPORT

LEASE			WELL NO. 882W			CONTRACTOR Joe Morrow			RIG NO. 1			REPORT NO.			DATE 7-2			1971		
MORNING						DAYLIGHT						EVENING								
Driller <i>Morrow</i>			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.				
BIT NO.		NO. DC ____ SIZE ____ LENG. ____				BIT NO.		NO. DC ____ SIZE ____ LENG. ____				BIT NO.		NO. DC ____ SIZE ____ LENG. ____						
SERI IO.		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.						
7:30																				
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN						
7:30	9:00	Pulled out of hole wait on C.P.S. To Log hole.																		
9:00	11:00	moved off hole stand by while C.P.S. logged and ran annometer in hole.																		
REMARKS -						REMARKS -						REMARKS -								

SIGNED: Toolpusher

SIGNED: Toolpusher Joe Merrett

____ Company Supervisor

DAILY DRILLING REPORT

LEASE _____ WELL NO. ¹³⁷~~136~~ ^{and} 882W CONTRACTOR Joe Morrow RIG NO. 1 REPORT NO. _____ DATE 7-1 1971

MORNING

DAYLIGHT

EVENING

Driller <i>Morrow</i> 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	10	surface sand			85	90	shale			180	195	shaly sand		
10	40	loose gravel and quartz boulders								195	210	sand water		
40	60	shale			90	110	wet sand			210	255	shale		
60	85	sand			110	180	shale			255	280	sand		

BIT NO. 1		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO. 280		NO. DC	SIZE	LENG.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE 6 3/4		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE <i>retip</i>		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.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
9:00	9:00	went back in hole on #136, removed hole flushed and pulled back out						
9:00	11:30	stand by while C.P.S. log and run auger						
11:30	12:30	moved to C.P.S. #882W rigged up drilled to 30 ft. hole saving gravel and quartz boulders						
12:30	3:30	removed hole drilled to 60 ft. cleaned hole dry again started back by air						
3:30	7:00	drilled to 300 ft.						

REMARKS -	REMARKS -	REMARKS -

SIGNED: Toolpusher

Joe Morrow

Company Supervisor

Hubbard #135
CPS 882W

MW	gate/mol
16	C ₁ 6.4
30	C ₂ 9.56
44	C ₃ 10.42
58	C ₄ 12.38
72	C ₅ 13.85
86	C ₆ 15.50
100	C ₇ 17.2
114	C ₈ 19.16
128	C ₉ 21.44
142	C ₁₀ 24.07

MW	gate/mol
44	C ₃ 10.42
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114	C ₈ 19.16
128	C ₉ 21.44
142	C ₁₀ 24.07

				Anodes in Series			
				Depth	Water	Cath	
90	2.2	60	1.10	1	305	2.2	4.6
	2.0		.87	2	295	2.4	5.6
100	1.62	70	.96	3	285	2.3	5.2
	1.07		1.04	4	255	2.0	3.4
10	1.63	80	1.38	5	245	2.6	5.5
	2.2		2.1	6	235	2.6	5.8
20	2.4	90	2.2	7	225	2.5	4.8
	2.4		2.2	8	195	2.3	4.4
30	2.4	300	2.3	9	185	2.6	5.9
	2.3		1.2	10	175	2.6	4.0
40	2.3	10	1.79				
	2.3		.99			12V	19.2A .62A
50	2.3	20	.92			Anodes in Parallel	
	2.1		.99			12V	19.2A
60	2.1	30	1.06	1	18		
	2.3		.90	2	2.2		
70	2.3	40	.78	3	2.1		
	2.3		.64	4	1.22		
80	2.4	50	.83	5	1.2		
	2.4		1.85	6	1.2		
90	2.5	60	BOTTOM	7	1.8		
	2.1			8	1.75		
200	1.73			9	2.5		
	1.26			10	1.5		
10	1.12						
	1.08						
20	1.80						
	2.3						
30	2.3						
	2.4						
40	2.4						
	2.4						
50	2.1						
	1.80						

BOTTOM ANODE + 20 = 330'
 DITCH = 592' @ 20'/ft = 11840
 = 79'

Pay Total 409'
 Credit EP&S 71'