

#62 30-045-06020
#224 30-045-20834

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. 4 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #62, #224

cps 950w

Elevation 6698' Completion Date 8/22/75 Total Depth 525' 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. 280'

Depths gas encountered: N/A

Type & amount of coke breeze used: 2500 lbs.

Depths anodes placed: 450', 440', 430', 420', 410', 400', 390', 380', 350', 340'

Depths vent pipes placed: N/A

Vent pipe perforations: 250'

Remarks: gb #1, gb #2

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MAY 31 1991
OIL CON
DIE

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 8-22-75

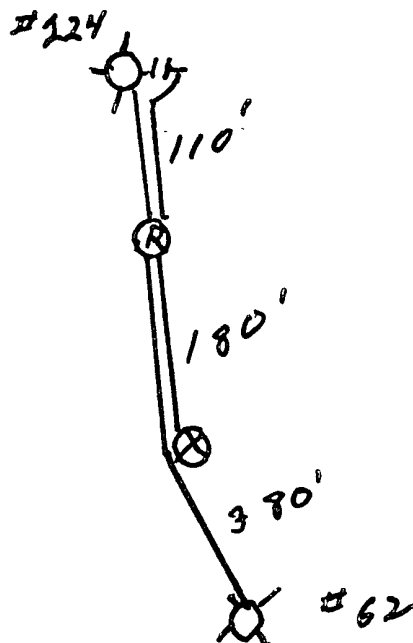
Well Name: <u>Huerfano #224</u> <u>Huerfano #62</u>		Location: <u>SE 4-26N-10W</u>		CPS No. <u>950W</u>						
Type & Size Bit Used: <u>6 3/4</u>				W. <u>54920.19-50-2</u> <u>53020.19-50-2</u>						
Anode Hole Depth: <u>525'</u>	Total Drilling Rig Time	Total Lbs. Coke Used: <u>2,500</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used						
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	<u>450</u>	<u>440</u>	<u>430</u>	<u>420</u>	<u>410</u>	<u>400</u>	<u>390</u>	<u>380</u>	<u>350</u>	<u>30</u>
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	<u>3.4</u>	<u>3.4</u>	<u>3.6</u>	<u>3.4</u>	<u>4.0</u>	<u>4.0</u>	<u>3.8</u>	<u>3.8</u>	<u>3.2</u>	<u>3.</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	Volts <u>11.8</u>		Amps <u>14.5</u>		Ohms <u>0.81</u>		No. 8 C.P. Cable Used: <u>4300</u>		No. 2 C.P. Cable Used	

Remarks: Drill with Air. Driller said water at
280'. Logging anode went to 310. Driller
went back in hole to clean out. 2nd time
logging anode went to 501'. All anodes
responded to coke but apparently coke br.
up hole left tied off over weekend vent per 25
8-25-75 coke still had not settled
in hole. set Junc. Box

All Construction Completed

Edward R. Pauk
(Signature)

GROUND BED LAYOUT SKETCH



1503



Ph. Office 405/584-6000
Mobile 584-6860
Night 420-3248

Work Order No. 54921-19-17-20

CUSTOMER <i>Elmer L. Luce</i>		SERVICE ADDRESS <i>Box 940 Zer 2 14011</i>		CITY <i>Farmington N.H.</i>	
TEL. NO. <i>603-938-61</i>	REQ. NO.	SERVICEMAN <i>W. J. G. L. L. L. L. L.</i>	VEHICLE NO. <i>T4</i>	DATE COMPLETED	

[illegible]

Date _____

Customer's Signature
By Edward R. Paulik

950 W

VW	g/lb/mol
16	C ₁
30	C ₂
44	C ₃
58	C ₄
72	C ₅
86	C ₆
100	C ₇
114	C ₈
128	C ₉
142	C ₁₀

MW	MISC
14	CO ₂
34	H ₂ S
28	N ₂
2	H ₂

280	1.2	60	1.4	Driller said water AT 280 Vent Perforated 250'	
	1.2		1.4		
90	1.2	70	1.2		
	1.2		1.2		
300	1.0	80	1.2		
	.8		1.0		
10	.8	90	1.0		
	.8		.8		
20	1.0	500		501 BOTTOM	
	1.0				
30	1.0	10			
	1.4				
⑩ 40	1.8	20			
	1.8				
⑪ 50	1.5				
	1.4				
60	1.4				
	1.2				
70	1.4				
	1.6				
⑫ 80	2.0				
	2.0				
⑬ 90	1.8				
	1.8				
⑭ 400	2.0				
	1.8				
⑮ 10	1.8				
	1.8				
⑯ 20	2.0				
	1.8				
⑰ 30	1.5				
	1.8				
⑱ 40	1.8				
	1.8				
⑲ 50	1.8				
	1.5				

4			
1	450	2.2	3.4
2	440	2.2	3.4
3	430	2.2	3.6
4	420	2.4	3.4
5	410	2.4	4.0
6	400	2.4	4.0
7	390	2.4	3.8
8	380	2.4	3.8
9	350	1.8	3.2
10	340	2.2	3.6

4010 11.8 14.5 0.8
300
4310

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NORTHWESTERN NEW MEXICO
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Operator MERIDIAN OIL Location: Unit SE Sec. 4 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #62, #224

cps 950w

Elevation 6698' Completion Date 11/8/85 Total Depth 500' 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. 170', 220', 300'

Depths gas encountered: N/A

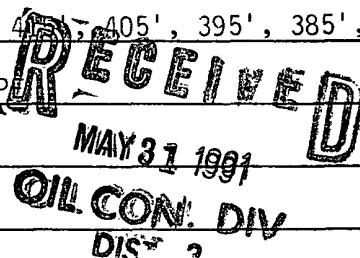
Type & amount of coke breeze used: N/A

Depths anodes placed: 465', 455', 445', 435', 425', 415', 405', 395', 385', 355'

Depths vent pipes placed: 500' OF 1" PVC VENT PIPE

Vent pipe perforations: ALL BUT TOP 100'

Remarks: qb #2



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If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☒

Redwell

Completion Date 11-8-85

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins. Union Check
950-W	HUERFANO #224	54920		☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
SEA-26-10	2" x 60"	Duriron	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
500'	490'			
Anode Depth				
# 1 465	# 2 455	# 3 445	# 4 435	# 5 425
# 6 415	# 7 405	# 8 395	# 9 385	# 10 355
Anode Output (Amps)				
# 1 4.7	# 2 5.5	# 3 5.6	# 4 6.3	# 5 5.7
# 6 6.1	# 7 4.6	# 8 6.1	# 9 5.4	# 10 5.6
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 12.2	Amps 25.2	Ohms .48		

Remarks: Drilled to 500' LOGGED 490' WATER AT 170', 220' + 300'
UNABLE TO GET ENOUGH WATER FOR SAMPLE. INSTALLED 500'
of 1" PVC VENT PIPE; PERFORATED ALL BUT TOP 100' of
VENT PIPE

Rectifier Size: _____ V _____ A
Addn'l Depth: _____
Depth Credit: 10' x 3.00 = 30.00
Extra Cable: 10' x 37 = 370
Ditch & 1 Cable: 55' x 1.35 = 74.25
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: _____

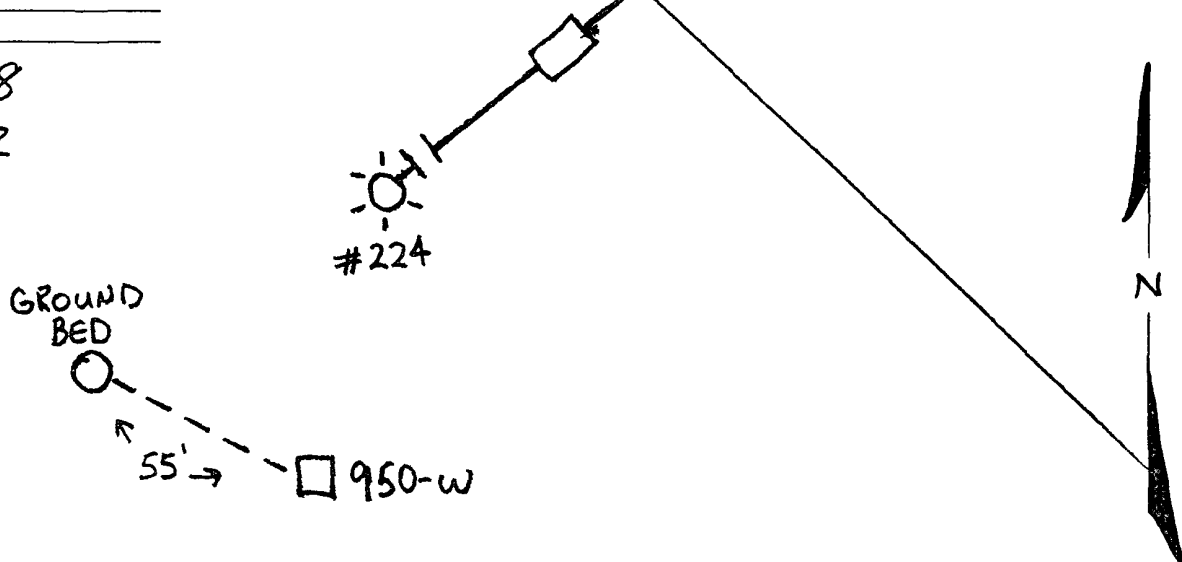
Reg. HRS 8
OT. HRS 2

#4740.00
- 30.00
3.70
74.25
#4787.95
300.00 JT. Box
5087.95

All Construction Completed

Mark R. Williams
(Signature)

GROUND BED LAYOUT SKETCH



EL PASO NATURAL GAS COMPANY
CONSTRUCTION LOGGING READINGS

CPS #: 950-W WELL NAME: HUERFANO #224 LOCATION: SE4-26-10 DATE: 11-8-85

TOTAL VOLTS: 12.2 TOTAL AMPS: 25.2 OHMS RESISTANCE: .48

												ANODE READINGS			
DEEP	LOG ANODE NO.	DEEP	LOG ANODE NO.	DEEP	LOG ANODE NO.	DEEP	LOG ANODE NO.	DEEP	LOG ANODE NO.	DEEP	LOG ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5		185		365	2.3	545						①	465	2.7	4.7
10		190		370	2.3	550						②	455	2.7	5.5
15		195		375	2.2	555						③	445	2.7	5.6
20		200		380	2.5	560						④	435	2.8	6.3
25		205		385	2.7 ⑨	565						⑤	425	2.8	5.7
30		210		390	2.3	570						⑥	415	2.8	6.1
35		215		395	2.6 ⑧	575						⑦	405	2.8	4.6
40		220		400	2.6	580						⑧	395	2.8	6.1
45		225		405	2.7 ⑦	585						⑨	385	2.7	5.4
50		230		410	2.8	590						⑩	355	2.7	5.6
55		235		415	2.7 ⑥	595									
60		240		420	2.7	600									
65		245		425	2.6 ⑤	605									
70		250	1.4	430	2.5	610									
75		255	.8	435	3.1 ④	615									
80		260	1.0	440	2.5	620									
85		265	1.1	445	2.9 ③	625									
90		270	.9	450	2.8	630									
95		275	1.1	455	2.6 ②	635									
100		280	1.6	460	2.7	640									
105		285	1.9	465	2.7 ①	645									
110		290	2.0	470	2.4	650									
115		295	1.9	475	2.5	655									
120		300	1.5	480	2.3	660									
125		305	1.2	485	2.3	665									
130		310	1.5	490	2.3	670									
135		315	2.0	495		675									
140		320	2.3	500		680									
145		325	1.9	505		685									
150		330	1.6	510		690									
155		335	1.6	515		695									
160		340	1.7	520		700									
165		345	1.7	525		705									
170		350	2.6	530		710									
175		355	2.7 ⑩	535		715									
180		360	2.6	540		720									

REMARKS: DRILLED TO 500' LOGGED 490' WATER AT 170' 220' & 300' UNABLE TO GET ENOUGH WATER FOR SAMPLE; PERFORATED 400' OF 500' OF 1" PVC VENT PIPE.

DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher _____ Company Supervisor _____