

#67 30-045-05905

#259 30-045-21411

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDAIN OIL Location: Unit C Sec. 6 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #67, #259

cps 952w

Elevation 6528' Completion Date 7/19/88 Total Depth 260' Land Type* N/A

Casing, Sizes, Types & Depths 40' OF SURFACE CASING

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. 30' & 95'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 155', 145', 135', 125', 115'

Depths vent pipes placed: 265' OF 1" PVC VENT PIPE

Vent pipe perforations: BOTTOM 220'

Remarks: gb #3, gb #2, gb #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.

46
MAY 31 1991
OIL COM. DIST. 3
D'

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☒

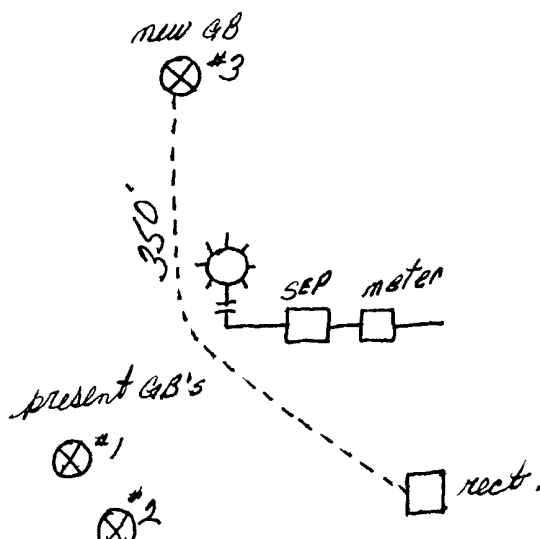
Completion Date 7-19-88

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins Union Check
952W	Huron unit 11259 " " U. 67	43895A 51070A ✓		☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
C 06-26-10	1/2" x 20"	Lida	6"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs Coke Used	Lost Circulation Mat'l Used
260'	255'			
Anode Depth				
# 1 115' to 2 155'	# 3	# 4	# 5	# 6
Anode Output (Amps)				
# 1 18.5	# 2	# 3	# 4	# 5
Anode Depth				
# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance				
Volts 12.2	Amps 18.5	Ohms .65	No. 8 C.P. Cable Used	
			No. 2 C.P. Cable Used	

Remarks: Driller said water to be at 30' and 95'. No water sample. Installed 40' surface casing, 2 hrs rig time. Installed 265' of 1" PVC vent pipe, bottom 220' perforated. Hole was logged with 2 1/2" x 2' duriron anode. 1 five anode string, anodes 10' center to center, total length 40'. Metallurgical coke from bottom to 165'. Carbon 60 coke with anodes to 75'. Possible coke and sand above anodes

Rectifier Size: 40 V 16 A
Addn'l Depth
Depth Credit: 245' @ 3.50 = 857.50 ✓
Extra Cable: 10' @ .24 = 2.40 ✓
Ditch & 1 Cable: 350 @ .70 = 245.00 ✓
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: _____

GROUND BED LAYOUT SKETCH



G+B and function box 4043.00 ✓
40' surface casing 220.00 ✓
2 hrs. rig time 276.00 ✓
3958.90 ✓
tot 197.95 ✓
4156.85 ✓

All Construction Completed

Cahen Rodman
(Signature)

D. Crass DRILLING CO.

952W

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Huerfano #259 Date 7-18-88

Client Meridian Oil Co. Prospect _____

County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance
and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
0	30	SAND ✓
30	85	Shale
85	100	SAND -
100	180	Shale
180	215	SANDY Shale
215	250	Shale
250	260	SAND

Mud _____ Bran _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 30' 4" 95'
Set 40' CASING 2 Hrs.

Driller RONNIE BROWN

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. 6 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #67, #259

cps 952w

Elevation 6528' Completion Date 8/9/83 Total Depth 600' Land Type* N/A

Casing, Sizes, Types & Depths 80' OF 8" PVC CASING

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. 480'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4200 lbs.

Depths anodes placed: 505', 495', 485', 475', 465', 455', 445', 435', 325', 415'

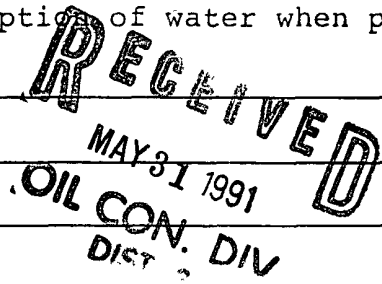
Depths vent pipes placed: 530' OF 1" PVC VENT PIPE

Vent pipe perforations: 350'

Remarks: Log #2 FIRST HOLE CAVED AT 420'.

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If Federal or Indian, add Lease Number.



WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐Completion Date 8-9-83

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins. Union Check
952-W	HUERFANO # 67	184-52979-19		☒ Good ☐ Bad
	HUERFANO # 259	184-55608-21		
Location	Anode Size	Anode Type	Size Bit	
NW 4-26-10	2"	DURIRON TYPED	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
600	530			
Anode Depth				
# 1 505'	# 2 495'	# 3 485'	# 4 475'	# 5 465'
# 6 455'	# 7 445'	# 8 435'	# 9 425'	# 10 415'
Anode Output (Amps)				
# 1 4.4	# 2 3.2	# 3 5.6	# 4 4.6	# 5 5.6
# 6 6.0	# 7 6.2	# 8 5.9	# 9 5.6	# 10 4.5
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 13.8		Amps 24.5		Ohms 52

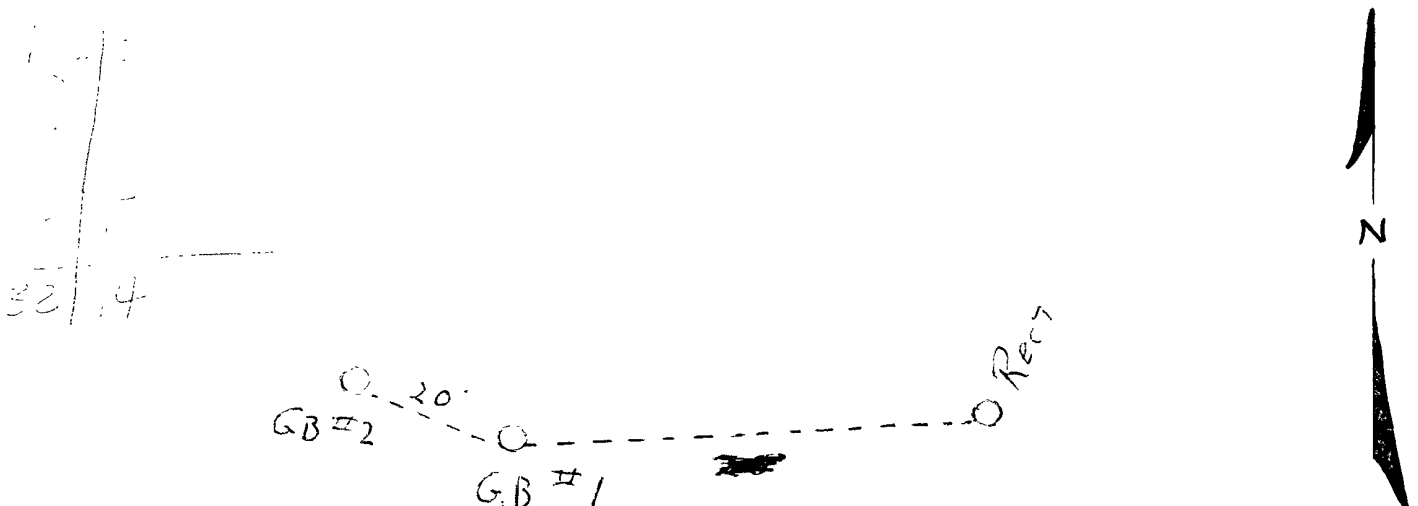
Remarks: SET 80' of 8" PVC CASING @ HRS. (NO CHARGE FOR CASING.)
 DRILLER said damp at 20' & 70', said wet at 180'. Next A.M. blew
 APPROX 1 gal of mud. DRILLED to 420', hole bridged at 200'. moved 20' &
 drilled 600'. HIT some sand at 480', MAKING some WATER Did NOT get wai
 Sample. Installed 530 of 1" vent pipe PERFORATED 350' of vent pipe.
 SLURRIED 4200# of COKE Breeze. NO CHARGE FOR SETTING CASING

Rectifier Size: _____ V _____ A Paid 600' hole
 Addn'l Depth: 100'
 Depth Credit: _____
 Extra Cable: 5'
 Ditch & 1 Cable: 20'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____

All Construction Completed

Willis Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



CPS 952-2
HUEKANO # 67
HUEKANO # 269

W/D
184-52979-14-50-20-63
184-55608-21-50-20-63

NW 6-26-10

1	180	1.80	85	27	90	DRILLER Said damp at
2	85	2.0	90	25	95	20' + 70' Said wet
3	90	2.15	95	2.5	600	DRILLED AT 180'. Next A.M. Blow
4	95	2.4	400	2.1	05	APPROX 1901. of mud out
5	200	2.4	05	2.1	10	of hole DRILLED TO 420'
6	05	2.4	10	2.0	15	Hole bridged at 200'. Decided
7	10	2.4	15	2.3 (10)	20	To go deeper TO TRY AND
8	15	2.5	20	2.4		get more water, HIT
9	20	2.5	25	2.5 (9)		Some sand at 480'.
10	25	2.4	30	2.5		Believe IT'S making Some
11	30	2.6	35	2.5 (8)		water. Hole caved in
12	35	2.3	40	2.6		moved 20' SET 80'
13	40	2.0	45	2.5 (7)		or 8" PVC casing.
14	45	1.9	50	2.5		INSTALLED 530' of 1" VENT
15	50	1.8	55	2.6 (6)		Pipe Perforated 350' of
16	55	1.5	60	2.5		VENT. Pipe STOPPED
17	60	1.6	65	2.5 (5)		4200' of COKE Breeze
18	65	1.2	70	2.4		
19	70	1.2	75	2.2 (4)		
20	75	1.3	80	1.9		
21	80	2.0	85	2.4 (3)		
22	85	2.4	90	2.5		
23	90	2.4	95	2.4 (2)		
24	95	2.5	500	2.5		
25	300	2.6	05	2.4 (1)		
26	05	2.6	10	2.3		
27	10	2.6	15	2.3		
28	15	2.5	20	2.5		
29	20	2.6	25	2.5		
30	25	2.6	30			
31	30	2.4	35			
32	35	2.5	40			
33	40	2.5	45			
34	45	2.6	50			
35	50	2.7	55			
36	55	2.6	60			
37	60	2.6	65			
38	65	2.6	70			
39	70	2.6	75			
40	75	2.5	80			
41	80	2.5	85			

T.D.

13.8 V 24.5 A .52 R

①	505	3.10	4.4
②	495	2.90	3.2
③	485	3.20	5.6
④	475	3.10	4.6
⑤	465	3.5	5.6
⑥	455	3.5	6.0
⑦	445	3.4	6.2
⑧	435	3.3	5.9
⑨	425	3.2	5.6
⑩	415	3.4	4.5

DAILY DRILLING REPORT

CPS 952.44

LEASE H WERFANO WELL NO. 6 T259 CONTRACTOR COFTIS CO RIG NO. IRI REPORT NO. DATE 8-9 19 83

[illegible]

SIGNED: Toolpusher

____ Company Supervisor

Rex Smith

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. 6 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #67, #259

cps 952w

Elevation 6528' Completion Date 9/4/75 Total Depth 375' Land Type* N/A

Casing, Sizes, Types & Depths 78' OF STEEL PIPE

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. 190'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4000 lbs.

Depths anodes placed: 340', 330', 320', 310', 300', 290', 280', 220', 210', 200'

Depths vent pipes placed: N/A

Vent pipe perforations: 200'

Remarks: gb #1

RECEIVED

MAY 31 1991

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If Federal or Indian, add Lease Number.

WELL CASING
 CATHODIC PROTECTION CONSTRUCTION REPORT
 DAILY LOG

Log 9
 Completion Date 9-2-7

Drilling Log (Attach Hereto). ☐

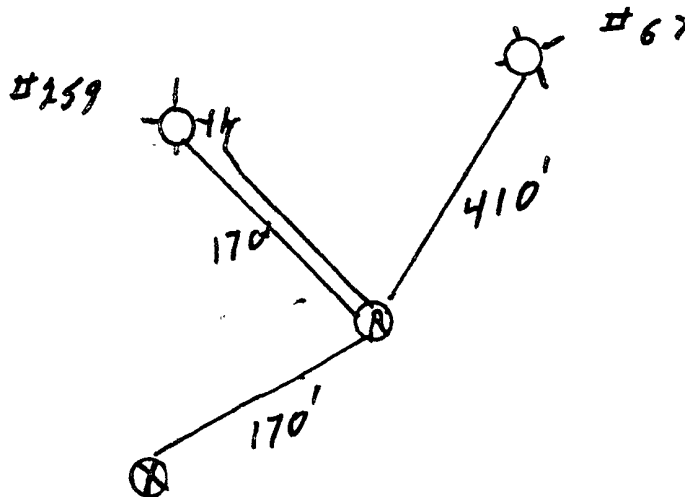
Well Name <u>Huerta No #259</u> <u>Huerta No #67</u>		Location <u>NW 6-26N-10W</u>		CPS No. <u>952 W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Well No. <u>55608.19-50-20</u> <u>52978.19-50-20</u>	
Anode Hole Depth <u>375</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>4,000</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>340</u>	# 2 <u>330</u>	# 3 <u>320</u>	# 4 <u>310</u>	# 5 <u>300</u>	# 6 <u>290</u>
# 7 <u>280</u>	# 8 <u>220</u>	# 9 <u>210</u>	# 10 <u>20</u>		
Anode Output (Amps)					
# 1 <u>5.4</u>	# 2 <u>4.6</u>	# 3 <u>4.6</u>	# 4 <u>5.6</u>	# 5 <u>4.6</u>	# 6 <u>5.0</u>
# 7 <u>4.6</u>	# 8 <u>4.8</u>	# 9 <u>4.8</u>	# 10 <u>4</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		No. 2 C.P. Cable Used	
Volts <u>11.8</u>	Amps <u>16.0</u>	Ohms <u>0.73</u>	<u>3100</u>		

Remarks: Drill With Air Driller said water at 18
Switch To Mud AT 250' NO CUTTINGS RETURN
ATTEMPT TO LOG Hole CAVING. SET 78' STEEL
CASING. 5 HRS Rig Time setting casing
CLEANING OUT Hole. VENT Hose Perfor
200'

All Construction Completed

E. Duval R. Paulk
 (Signature)

GROUND BED LAYOUT SKETCH



$$\begin{array}{r} 1064 \\ 250 \\ \hline 1318 \end{array}$$

952 W

NW	SEC	T14N
16	C1	5.4
30	C2	5.4
44	C3	10.42
58	C4	12.38
72	C5	11.93
86	C6	13.85
100	C7	13.71
114	C8	15.56
128	C9	15.57
142	C10	17.2
156	C11	17.46
170	C12	17.57
184	C13	19.64
198	C14	19.67

NW	SEC	T14N
16	C1	5.4
30	C2	5.4
44	C3	10.42
58	C4	12.38
72	C5	11.93
86	C6	13.85
100	C7	13.71
114	C8	15.56
128	C9	15.57
142	C10	17.2
156	C11	17.46
170	C12	17.57
184	C13	19.64
198	C14	19.67

190	2.2	70	Driller said water @ 190' VENT Perforated 200'		
	2.4				
⑩ 200	2.4	80			
	2.4				
⑨ 10	2.4	90			
	2.4				
⑧ 20	2.4	400			
	2.4				
30	2.1				
	1.9				
40	1.8				
	1.4				
50	1.4				
	1.2				
60	1.0				
	1.2				
70	1.4				
	1.6				
⑦ 80	2.2				
	2.4				
⑥ 90	2.4				
	2.4				
⑤ 300	2.4				
	2.4				
④ 10	2.4				
	2.4				
③ 20	2.2				
	2.2				
② 30	2.4				
	2.4				
① 40	2.6				
	2.4				
50	2.4				
50					

356 BOTTOM

1	340	2.6	5.4		
2	330	2.6	4.6		
3	320	2.4	4.6		
4	310	2.4	5.6		
5	300	2.4	4.6		
6	290	2.4	5.0		
7	280	2.2	4.6		
8	270	2.4	4.8		
9	260	2.4	4.8		
10	250	2.4	4.8		
		11.8	16.0	0.73	
	2800				
	300				
	3100				