

#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.

44
MAY 31 1991
OIL CON. DIST. 3
D'

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto) ☒
 comp 7-22-88 Completion Date 7-19-88

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins Union Check
952W	Huron unit 259 " " U. 87	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 2155'	# 3	# 4	# 5	# 6
Anode Output (Amps)	# 7	# 8	# 9	# 10
# 1 18.5	# 2	# 3	# 4	# 5
Anode Depth	# 6	# 7	# 8	# 9
# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 16	# 17	# 18	# 19
# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 12.2	Amps 18.5	Ohms .65		

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 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:

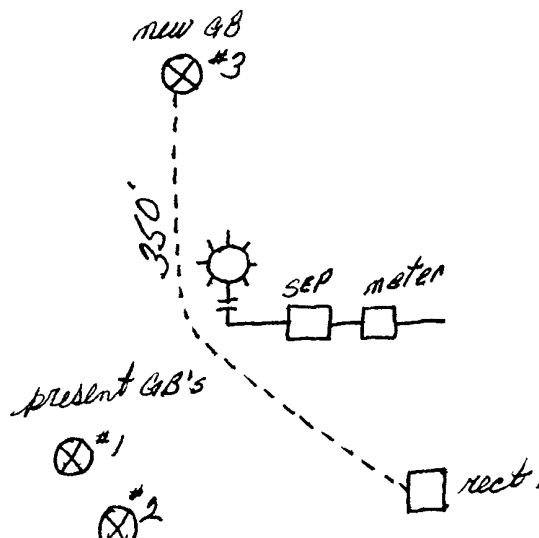
20' Meter Pole:

10' Stub Pole:

GROUND BED LAYOUT SKETCH

A+B and function box	4073.00 ✓
40' surface casing	220.00 ✓
2 hrs. rig time	276.00 ✓
	<u>3958.90</u> ✓
tot	<u>197.95</u> ✓
	<u>4156.85</u> ✓

All Construction Completed

 Caher 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 _____ Brn _____ 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'

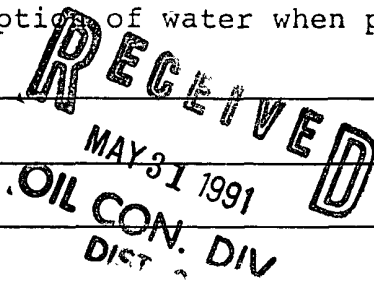
Depths vent pipes placed: 530' OF 1" PVC VENT PIPE

Vent pipe perforations: 350'

Remarks: gb #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 #	Status:	Ins. Union Check
952-W	HURFANO # 67	184-52999-19		☒ Good ☐ Bad
	HURFANO # 259	184-55608-21		
Location:	Anode Size:	Anode Type	Size Bit:	
NW 6-26-10	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	
Volts 13.8			No. 2 C.P. Cable Used	
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 BRIGED 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.
 SUPPLIED 4200# OF COKE BREEZE. NO CHARGE FOR SETTING CASING

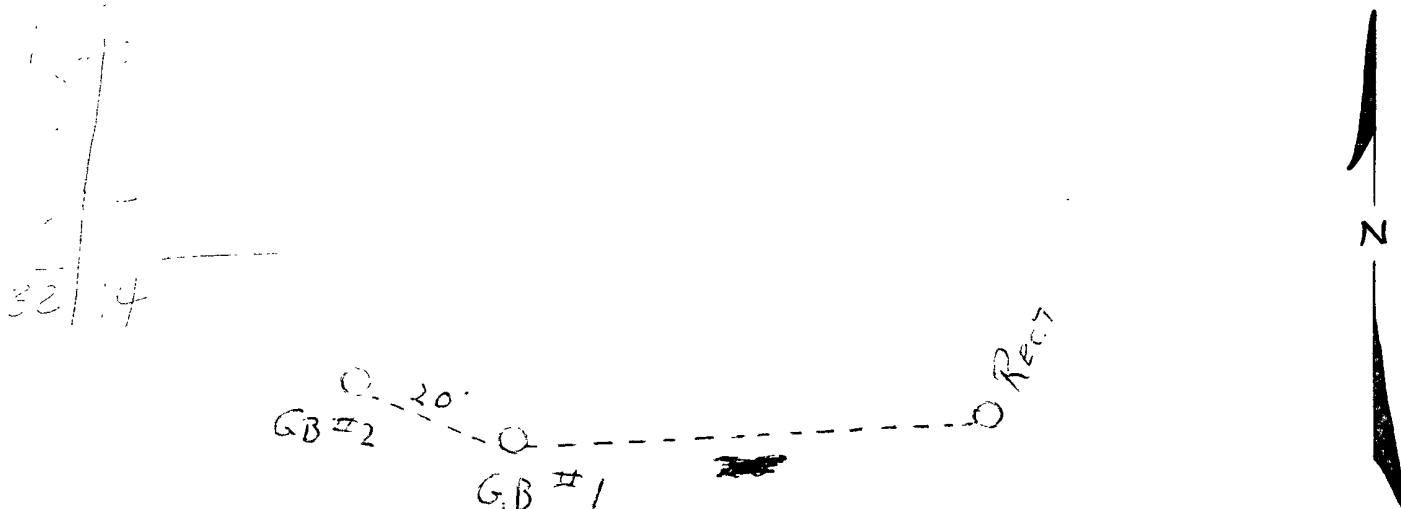
Rectifier Size: _____ V _____ A
 Addn'l Depth: 100'
 Depth Credit: _____
 Extra Cable: 5'
 Ditch & 1 Cable: 20'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____

Paid 600' hole

All Construction Completed

William Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



[illegible]

LEASE H WERFANO WELL NO. 6 T259 CONTRACTOR COFTIS CO RIG NO. IRI REPORT NO. DATE 8-9 1983

MORNING					DAYLIGHT					EVENING							
Driller		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	30	SAND			183	217	SAND STREAKS OF SANDSTONE										
30	68	SHALE			217	480	SHALE										
68	107	SAND STREAKS OF SANDSTONE			480	470	SAND										
107	183	SHALE			470	600	SHALE										
BIT NO.		NO. DC		SIZE	LENG.		BIT NO.		NO. DC		SIZE		LENG.				
SER. NO.		STANDS		SINGLES		TYPE		DOWN ON KELLY		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	
REMARKS -		Appr. 1 gpm of water			REMARKS -					REMARKS -							

SIGNED: Toolpusher

____ Company Supervisor

Roger 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
 Completion Date 9-2-7

Drilling Log (Attach Hereto). ☐

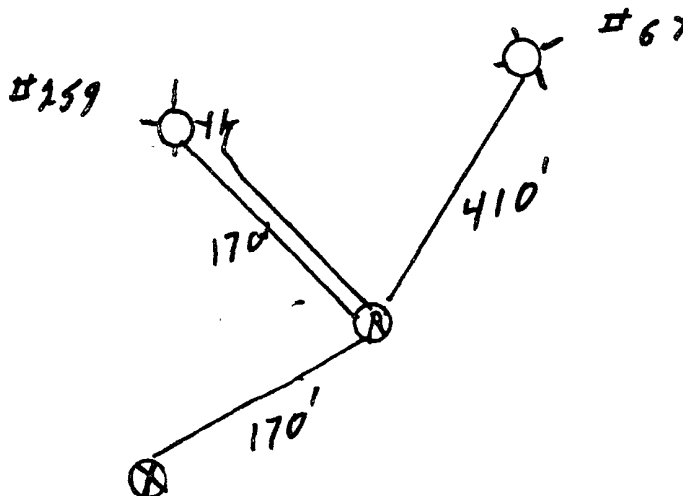
Well Name <u>Huerta No #259</u> <u>Huerta No #67</u>		Location <u>NW 6-26N-10W</u>		CPS No. <u>952 W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Well No. <u>55608.19-50-20</u> <u>52979.19-50-20</u>	
Anode Hole Depth <u>375</u>	Total Drilling Rig Time		Total Lbs. Coke Used <u>4,000</u>	Lost Circulation Mat'l Used	
Anode Depth				No. Sacks Mud Used	
#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 PER FOR
200'

All Construction Completed

Eduard R. Paulk
 (Signature)

GROUND BED LAYOUT SKETCH



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

952 W

MW	gals/min
16 C ₁	9.4
30 C ₂	10.4
44 C ₃	10.4
58 IC ₄	12.38
72 NC ₄	11.93
86 IC ₅	13.85
100 NC ₅	13.71
114 IC ₆	15.50
128 C ₆	15.57
142 IC ₇	17.2
156 C ₇	17.46
170 C ₈	19.57
184 C ₉	9.64
200 C ₁₀	9.67

MW	MISC
14 CO ₂	6.35
28 H ₂ O	3.13
42 N ₂	4.16
56 H ₂	1.35

190	2.2	70	Driller said water @ 190'		
	2.4		VENT Perforated 200'		
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					

1	340	2.6	5.9		
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	220	2.4	4.8		
9	210	2.4	4.8		
10	200	2.4	4.8		
		11.8	16.0	0.73	
	2800				
	300				
	3100				

356 Bottom