

9 - 30-045-12187
12 - 30-045-20893

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator MERIDIAN OIL CO. Location: Unit A Sec. 29 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced Mansfield # 9 & # 12

Elevation _____ Completion Date 8/15/90 Total Depth 295 Land Type _____

Casing Strings, Sizes, Types & Depths 20 ft. 8" PVC Casing

If Casing Strings are cemented, show amounts & types used _____

If Cement or Bentonite Plugs have been placed, show depths & amounts used _____

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 100 to 110 sample taken

Depths gas encountered: _____

Ground bed depth with type & amount of coke breeze used: _____

3300 lbs. Ashbury Petroleum Coke

Depths anodes placed: 270, 260, 250, 240, 230, 220, 210, 200, 190, 180

Depths vent pipes placed: 1" PVC Pipe 300 ft.

Vent pipe perforations: Perforated 200 ft.

Remarks: _____

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DIST. 3

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

#14

Drilling Log (Attach Hereto)

Completion Date 8-15-90

CPS #	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check								
842-W	MANSfield #9 MANSfield #12			<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad								
Location:	Anode Size:	Anode Type:	Size Bit:									
A29-30.9	2" X 60"	ANOTEC	6 3/4"									
Depth Drilled	Depth Logged	Drilling Rig Type	Total Lbs. Coke Used	Lost Circulation Mat'l Used								
295'	285'		3300#									
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10		
	270	260	250	240	230	220	210	200	190	180		
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10		
	4.5	4.3	4.5	4.3	3.4	4.7	5.8	5.5	5.7	4.3		
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 11.7	Amps 15.6	Ohms .75										

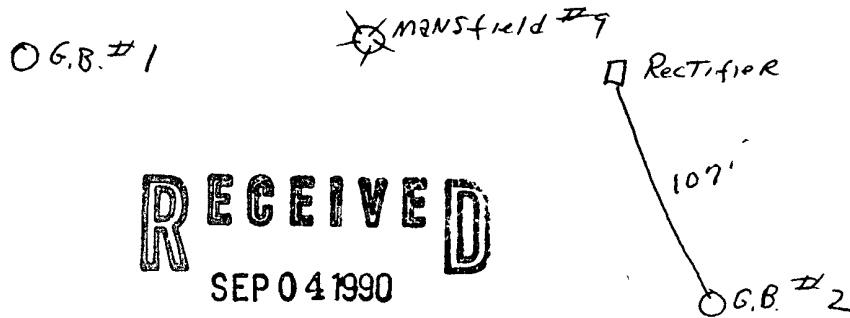
Remarks: DRILLER SAID WET 110' TO 120'. WAITED 2 HRS. WHILE DRILLER WENT TO SHOP. BLEW WATER AND GOT WATER SAMPLE ON 8-14-90. 8-15-90 LOADED HOLE. RAN 300' OF 1" PVC VENT PIPE - PERFORATED 200' OF VENT PIPE. LEFT COKE APPROXIMATELY 130'

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 107'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

Willis Langford Jr.
(Signature)

GROUND BED LAYOUT SKETCH



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MANSfield #12

CONSTRUCTION LOGGING READINGS

Meridan Oil

CPS #: 842-W WELL NAME: Mansfield # 9+12 LOCATION: A29-30-9 DATE: 8-15-90

TOTAL VOLTS: 11.7 TOTAL AMPS: 15.6 OHS RESISTANCE: .75

DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE No.	DEEP	LOG ANODE	ANODE No.	ANODE READINGS			
												NO.	DEPTH	NO COKE	WITH COKE
5			185	2.9		365			545			1	270	3.0	4.5
10			190	2.8	9	370			550			2	260	2.3	4.3
15			195	2.7		375			555			3	250	2.5	4.5
20			200	2.6	8	380			560			4	240	2.5	4.3
25			205	2.5		385			565			5	230	1.9	3.4
30			210	2.8	7	390			570			6	220	2.6	4.7
35			215	3.0		395			575			7	210	3.3	5.8
40			220	2.3	6	400			580			8	200	3.0	5.5
45			225	1.9		405			585			9	190	3.4	5.7
50			230	1.7	5	410			590			10	180	1.5	4.3
55			235	2.2		415			595						
60			240	2.1	4	420			600						
65			245	2.1		425			605						
70			250	2.1	3	430			610						
75			255	2.0		435			615						
80			260	2.2	2	440			620						
85			265	2.8		445			625						
90			270	2.5	1	450			630						
95			275	2.2		455			635						
100	1.90		280	2.0		460			640						
105	1.0		285	2.0	T.D	465			645						
110	1.0		290			470			650						
115	1.0		295			475			655						
120	1.1		300			480			660						
125	1.4		305			485			665						
130	2.5		310			490			670						
135	2.4		315			495			675						
140	2.2		320			500			680						
145	2.2		325			505			685						
150	1.8		330			510			690						
155	1.4		335			515			695						
160	1.3		340			520			700						
165	1.2		345			525			705						
170	1.4		350			530			710						
175	1.4		355			535			715						
180	2.0	10	360			540			720						

REMARKS: Driller said wet at 110' to 120'. waited 2 hrs. while driller went shop. Blew water. Got water sample

API WATER ANALYSIS REPORT FORM

4197



TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Laboratory No.		Company <i>Meridian</i>		Sample No.	Date Sampled <i>8-14-90</i>
Field <i>CPS-842-W</i>		Legal Description <i>A 29-30-9</i>		County or Parish	State
Lease or Unit	Well <i>Mansfield #9</i>	Depth <i>110'-120'</i>	Formation	Water, B/D	
Type of Water (Produced, Supply, etc.)			Sampling Point	Sampled By	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>170</u>	<u>5.7</u>
Calcium, Ca	<u>400</u>	<u>20</u>
Magnesium, Mg	<u>41</u>	<u>3.4</u>
Barium, Ba	_____	_____
_____	_____	_____

OTHER PROPERTIES

pH	<u>7.70</u>
Specific Gravity, 60/60 F.	<u>1.005</u>
Resistivity (ohm-meters) <i>75°</i> F.	<u>3.95</u>
_____	_____
_____	_____

Total Dissolved Solids (calc.) 1968

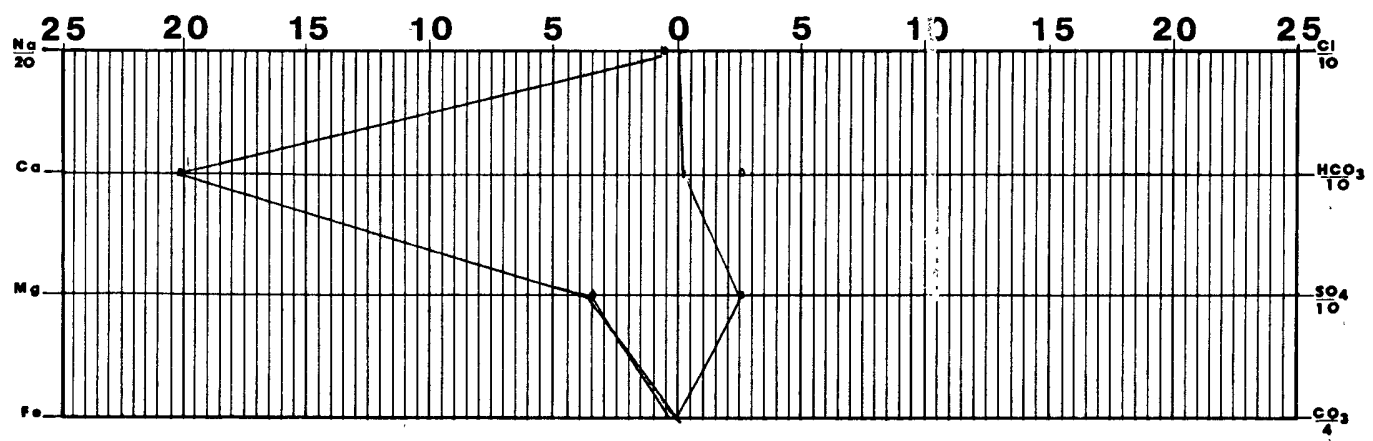
ANIONS

Chloride, Cl	<u>27</u>	<u>35</u>
Sulfate, So ₄	<u>1230</u>	<u>26</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
Bicarbonate, HCO ₃	<u>140</u>	<u>2.3</u>
_____	_____	_____
_____	_____	_____

Iron, Fe (total) _____
Sulfide, as H₂S _____

REMARKS & RECOMMENDATIONS:

Mark McFarland



Date Received <i>8-22-90</i>	Preserved	Date Analyzed <i>8-23-90</i>	Analyzed By <i>RA</i>
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