

44-30.045-10927
99-30.045-23274

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

Operator MERIDIAN OIL CO. Location: Unit G Sec. 11 Twp. 31 Rng. 10

Name of Well/Wells or Pipeline Serviced SAN JUAN 32 - 9 & 44 & 99

Elevation _____ Completion Date 10/26/90 Total Depth 320 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. water @ 95. ft., got a sample

Depths gas encountered: _____

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

300 ft. with 3300 lbs of Ashbury Petroleum Coke

Depths anodes placed: 285, 275, 265, 255, 245, 235, 225, 215, 205, 195

Depths vent pipes placed: 320 ft.

Vent pipe perforations: Perforated 220 of 1" PVC Pipe

Remarks: _____

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.

CATHODIC PROTECTION CONSTRUCTION REPORT

Exhibit A

DAILY LOG

Drilling Log (Attach Hereto) ☐Completion Date 10-26-90

CPS #	Well Name, Line or Plant:	Work Order #	Station:	Ina. Union Check:
424-W	SJ. 32-9 # 44 SJ 32-9 # 99			☒ Good ☐ Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
G-11-31-10	2" x 60"	ANOTEC	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Cath Used	Lost Circulation Mat'l Used
320	300		3300	
Anode Depth				
# 1 285	# 2 275	# 3 265	# 4 255	# 5 245
# 6 235	# 7 225	# 8 215	# 9 205	# 10 195
Anode Output (Amps)				
# 1 4.9	# 2 5.2	# 3 4.8	# 4 4.2	# 5 3.3
# 6 4.1	# 7 4.6	# 8 5.1	# 9 5.0	# 10 4.9
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	Amps 16.0	Ohms 75		

Remarks: Set 20' of 8" PVC casing. DRILLER said wet at 95'; waited 20 minutes Blew water. Got water sample - RON. 320' of 1" PVC VENT pipe. Perforated 220' of VENT pipe. Left COKE Breeze approximately 165'

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 30'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed:

Heidi Knight Jr
 (Signature)

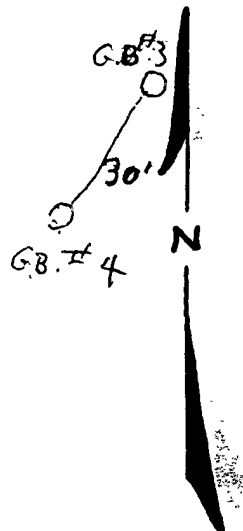
GROUND BED LAYOUT SKETCH

RECEIVED
 NOV 20 1990
 OIL CON. DIV.
 DIST. 3

32-9 # 44

✱

Rectifier



32-9 # 99

Exhibit B

COMPANY Meridian Oil DAILY DRILLING REPORT 10 26, 1990

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
S J 32-9	44	11	31-N	10 W
WATER AT:	FEET:	HOLE MADE:		
90'		320'		

[illegible]

REMARKS: SET 20' 8" Plastic Casing to 18' in 12 1/4" hole. CEMENTED - Drilled hole 90' water. Went to injection.

Driller

Tool Dresser

Meridian Oil

Exhibit C

CPS #: 424-W WELL NAME: S.J. 32-9-244-99 LOCATION: G-11-31-10 DATE: 10-26-90

TOTAL VOLTS: 12.0 TOTAL AMPS: 16 OHMS RESISTANCE: 175

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	1.3		365			545			1	285	2.4	4.9
10			190	1.6		370			550			2	275	2.7	5.2
15			195	1.8	10	375			555			3	265	2.5	4.8
20			200	1.9		380			560			4	255	2.2	4.2
25			205	2.1	5	385			565			5	245	1.7	3.3
30			210	2.2		390			570			6	235	1.8	4.1
35			215	1.8	8	395			575			7	225	2.1	4.6
40			220	1.7		400			580			8	215	2.4	5.7
45			225	1.6	7	405			585			9	205	2.6	5.0
50			230	1.6		410			590			10	195	2.3	4.9
55			235	1.4	6	415			595						
60			240	1.6		420			600						
65			245	1.7	5	425			605						
70			250	1.8		430			610						
75			255	1.9	4	435			615						
80			260	1.8		440			620						
85			265	2.1	3	445			625						
90			270	2.0		450			630						
95			275	1.9	2	455			635						
100	70		280	2.0		460			640						
105	70		285	1.8	1	465			645						
110	60		290	1.9		470			650						
115	60		295	1.8		475			655						
120	50		300	1.8	TD	480			660						
125	30		305			485			665						
130	30		310			490			670						
135	10		315			495			675						
140	20		320			500			680						
145	1.2		325			505			685						
150	1.8		330			510			690						
155	1.7		335			515			695						
160	1.5		340			520			700						
165	1.0		345			525			705						
170	1.40		350			530			710						
175	1.80		355			535			715						
180	1.60		360			540			720						

REMARKS: Set 20' of 8" PVC casing. Driller said wet 95', waited 20 minutes. Got water sample

Foreman: Mark D. McFarland

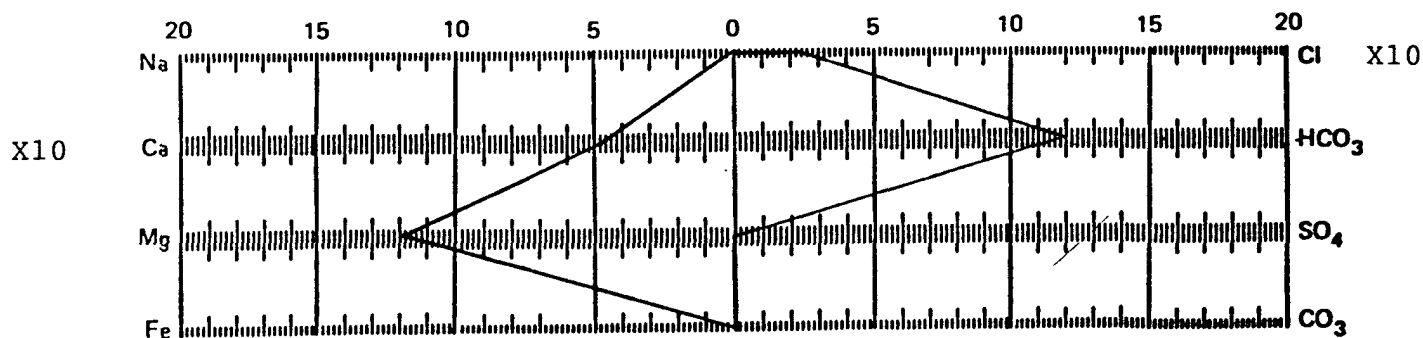
Exhibit E

STRICKCO
Water Analysis Laboratories
 FARMINGTON, NEW MEXICO 87401

File WA/0209/90Company MERIDIAN OIL INC. Well Name S.J. 32-9 #44 Sample No. CPS-424-WFormation N/A Depth 95' Sampled From ProducedLocation N/A Field N/A County San Juan State N.M.Date Sampled 10/26/90 Date Analyzed 10/30/90 Engineer WDSTotal Dissolved Solids 2,690 mg/L Calculated Sp. Gr. 1.001 @ 70 °F.Resistivity 2.9 ohm-meters @ 70 °F. Measured pH 7.24 @ 70 °F. Measured

Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	<u>-0-</u>	<u>-0-</u>	Chloride	<u>24.0</u>	<u>852</u>
Calcium	<u>48.0</u>	<u>960</u>	Bicarbonate	<u>12.0</u>	<u>732</u>
Magnesium	<u>12.0</u>	<u>146</u>	Sulfate	<u>-0-</u>	<u>-0-</u> (Grav.)
Iron	<u>-0-</u>	<u>-0-</u>	Carbonate	<u>-0-</u>	<u>-0-</u>
Hydrogen Sulfide	<u>Absent</u>		Hydroxide	<u>-0-</u>	<u>-0-</u>

Scale: meq/L



All analyses except iron determination performed on a filtered sample.