

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator MERIDIAN OIL CO. Location: Unit NE Sec. 32 Twp. 30 Rng 7Name of Well/Wells or Pipeline Served San Juan 30-6 # 429Elevation _____ Completion Date 11/21/90 Total Depth 360 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. 43 ft. got water sample

Depths gas encountered: _____

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

335 ft. with 4500 lbs Ashbury Petroleum CokeDepths anodes placed: 325, 315, 230, 220 185, 175, 100, 90, 80, 70Depths vent pipes placed: 330 ft. of 1" PVCVent pipe perforations: Perforated 300 ft.

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.

API WATER ANALYSIS REPORT FORM

Exhibit E

Laboratory No. 25-901126-2A

Company <u>MERIDIAN OIL</u>		Sample No.		Date Sampled <u>10-20-90</u>	
Field <u>BLANCO FLD.</u>		Legal Description <u>NE 32-30-6</u>		County or Parish <u>SJ</u>	
Lease or Unit		Well <u>SJ 30-6 #429</u>		Depth	
Type of Water (Produced, Supply, etc.)		Sampling Point		Water, B/D	
				Sampled By <u>W. KNIGHT</u>	



TECH, Inc.
333 East Main
Farmington
New Mexico
87401

505/327-3311

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>147</u>	<u>6.4</u>
Calcium, Ca	<u>174</u>	<u>8.7</u>
Magnesium, Mg	<u>11</u>	<u>0.9</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>7.43</u>
Specific Gravity, 60/60 F.	<u>1.0012</u>
Resistivity (ohm-meters) <u>65</u> F.	<u>9.3</u>

Total Dissolved Solids (calc.) 938

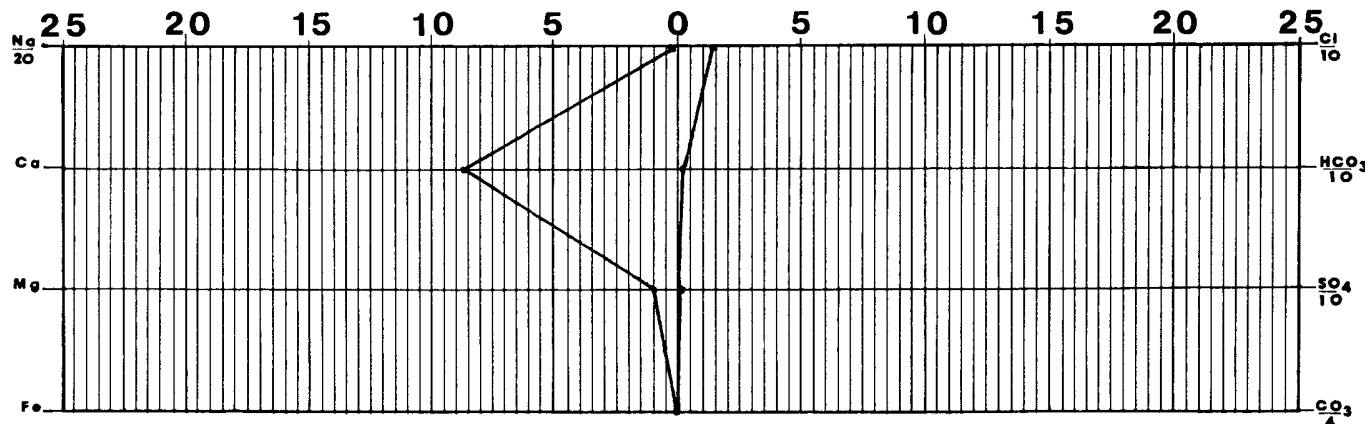
ANIONS

Chloride, Cl	<u>491</u>	<u>13.9</u>
Sulfate, SO_4	<u>54</u>	<u>1.1</u>
Carbonate, CO_3		
Bicarbonate, HCO_3	<u>61</u>	<u>1.0</u>

Iron, Fe (total) _____
Sulfide, as H_2S _____

REMARKS & RECOMMENDATIONS:

WARD ARNOLD
WILLIS KNIGHT



Date Received <u>11-26-90</u>	Preserved	Date Analyzed <u>11-28-90</u>	Analyzed By <u>MKL</u>
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**WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG**

Exhibit A

Drilling Log (Attach Hereto) ☐Completion Date 11-21-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
2168W	S.J. 30-6 # 429	470745		☐ Good ☐ Bad NOT hooked UP
Location: <u>NE 32-30-7</u>	Anode Size: <u>2" x 60"</u>	Anode Type: <u>ANOTEC</u>	Size Bit: <u>6 3/4"</u>	
Depth Drilled: <u>360</u>	Depth Logged: <u>335</u>	Drilling Rig Time	Total Lbs. Coke Used: <u>4500 #</u>	Low Circulation Mat'l Used
Anode Depth	# 1 <u>325</u>	# 2 <u>315</u>	# 3 <u>230</u>	# 4 <u>220</u>
Anode Output (Amps)	# 1 <u>2.8</u>	# 2 <u>3.2</u>	# 3 <u>2.6</u>	# 4 <u>2.9</u>
Anode Depth	# 5 <u>185</u>	# 6 <u>175</u>	# 7 <u>100</u>	# 8 <u>90</u>
Anode Output (Amps)	# 5 <u>3.2</u>	# 6 <u>3.0</u>	# 7 <u>3.9</u>	# 8 <u>4.6</u>
Anode Depth	# 9 <u>80</u>	# 10 <u>70</u>	# 11	# 12
Anode Output (Amps)	# 9 <u>4.9</u>	# 10 <u>4.4</u>	# 11	# 12
Total Circuit Resistance	# 13	# 14	# 15	# 16
Volts <u>11.1</u>	Amps <u>14.8</u>	Ohms <u>.75</u>	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

Remarks: Set 20' of 8" PVC casing. Driller said wet at 43', NEXT AN
Blew mud, got water sample. RAN 335' of 1" PVC VENT PIPE. PERFORATED
PERFORATED 300' of VENT PIPE. Left COKE BREEZE AT APPROXIMATE
40'

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

All Construction Completed

Miller Bright Jr
 (Signature)

GROUND BED LAYOUT SKETCH

RECEIVED

JAN 07 1991

**OIL CON. DIV
DIST. 3**

30-6 #429

G.B. #1

N

BURGE CORROSION SYSTEMS, INC.P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

COMPANY

Meridian Oil

DAILY DRILLING REPORT

*11-21**10-70*

WELL NAME: <i>SAN JUAN 30-6</i>	WELL NUMBER: <i>429</i>	SECTION: <i>32</i>	TOWNSHIP: <i>30</i>	RANGE: <i>7</i>
WATER AT: <i>38'</i>		FEET: <i>340'</i>		

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	18'	8" PVC CASING - SANDSTONE	
18'	38'	SANDSTONE / SAND / WATER	
38'	45'	SAND	
45'	55'	SHALE - SANDY	
55'	90'	SHALE	
90'	95'	SANDY SHALE	
95'	100'	SHALE	
100'	170'	SANDSTONE - BENTONITE MIX	
170'	185'	SHALE	
185'	215'	SANDSTONE - BENT. MIX	
215'	230'	SANDY BENTONITE	
230'	240'	SANDSTONE	
240'	340'	SANDSTONE - BENTONITE SAND MIX	

REMARKS: *SET 20' 8" PVC CASING HIT WATER AT 38' GOT MUD SAMPLE WENT TO INJECTION. DRILLED TO 240' LOGGED - DRILLED TO 340'*

Brian D. Burge

Driller

Tool Dresser

CONSTRUCTION LOGGING READINGS

Exhibit C

Meridian 011

CPS #:

WELL NAME: ST 30-6 = 429

LOCATION:

NE32-30-7

DATE: 11-21-90

TOTAL VOLTS: 11.1

TOTAL AMPS: 14.9

OHMS RESISTANCE: 75

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO	WITH
ANODE	ANODE	NO.	ANODE	ANODE	NO.	ANODE	ANODE	NO.	ANODE	ANODE	NO.			COKE	COKE
5			185	1.1	5	365			545			1	325	1.5	2.8
10			190	1.80		370			550			2	315	1.6	3.2
15			195	1.60		375			555			3	300	1.2	2.6
20			200	1.50		380			560			4	220	1.3	2.9
25			205	1.50		385			565			5	185	1.4	3.2
30			210	1.60		390			570			6	175	1.4	3.0
35			215	1.60		395			575			7	100	1.7	3.9
40			220	1.1	4	400			580			8	90	1.7	4.6
45	70		225	1.3		405			585			9	80	1.9	4.9
50	1.2		230	1.0	3	410			590			10	70	2.2	4.4
55	1.1		235	1.50		415			595						
60	1.4		240	1.40		420			600						
65	1.3		245	1.40		425			605						
70	1.7	10	250	1.40		430			610						
75	1.5		255	1.50		435			615						
80	1.6	9	260	1.50		440			620						
85	1.8		265	1.60		445			625						
90	1.8	8	270	1.70		450			630						
95	1.3		275	1.70		455			635						
100	1.5	7	280	1.0		460			640						
105	1.60		285	1.80		465			645						
110	1.40		290	1.70		470			650						
115	1.40		295	1.60		475			655						
120	1.30		300	1.70		480			660						
125	1.40		305	1.60		485			665						
130	1.40		310	1.70		490			670						
135	1.40		315	1.2	2	495			675						
140	1.40		320	1.4		500			680						
145	1.40		325	1.3	1	505			685						
150	1.30		330	1.3		510			690						
155	1.30		335	1.70		515			695						
160	1.40		340			520			700						
165	1.70		345			525			705						
170	1.80		350			530			710						
175	1.3	6	355			535			715						
180	1.2		360			540			720						

REMARKS: Set 20' of 8" PVC casing. DRILLER said wet
 at 43' Blew mud next A.M. Got water sample.