

30-045-27599

4847

EXHIBIT D

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit N/A Sec. 32 Twp. 32N Rng. 9EName of Well/Wells or Pipeline Serviced SAN JUAN 32-9 #226cps 430wElevation 6700' Completion Date 12/9/90 Total Depth 500 ft Land Type N/ACasing Strings, Sizes, Types & Depths 20' 8" PVC casingIf Casing Strings are cemented, show amounts & types used N/A

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

Bentonite plug set at 200 ft. 4 sacks Bentonite used.

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. water at 120' water sample takenDepths gas encountered: N/AGround bed depth with type & amount of coke breeze used: 300 ft. --5500# Ashbury Petroleum Coke BreezeDepths anodes placed: 425, 415, 405, 360, 350, 345, 335, 285, 250, 220Depths vent pipes placed: 480 ft. 1" vent pipeVent pipe perforations: 200'Remarks: qb #1**RECEIVED**

MAY 31 1991

OIL CON. DIV
DIST 2

If any of the above data is unavailable, please indicate so. Copies of a 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
CATH. IC PROTECTION CONSTRUCTION REPORT
DAILY LOG

EXHIBIT A

Drilling Log (Attach Hereto) ☐

Completion Date 12-9-90

CPS #	Well Name, Line or Plot:	Work Order #	State:	Ins. Union Check
0430W	SAN JUAN 32-9 #226			☐ Good ☐ Bad NO PIPE FROM W/IT
Location:	Anode Size:	Anode Type:	Size Bit:	
SEC. 32, T-32N, R-9W	2" x 60"	ANOTEC	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Cable Used	Less Circulation Mat'l Used
500'	475'		5500#	
Anode Depth				
#1 425	#2 415	#3 405	#4 360	#5 350
#6 345	#7 335	#8 285	#9 250	#10 220
Anode Output (Amps)				
#1 3.7	#2 3.7	#3 3.5	#4 4.0	#5 4.7
#6 4.7	#7 4.7	#8 3.4	#9 2.4	#10 3.4
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 12.25	Amps 15.7	Ohms 1.78		

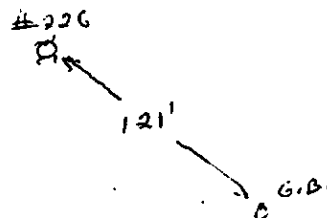
Remarks: SET 20' 8" PVC CASING MOISTURE AT ~~90'~~ 130'. DRILLED TO 130'. WAITED FOR WATER TO COLLECT. TOOK WATER SAMPLE. DRILLED TO 500'. COKE TO 200' 5500#. PUT IN 4 SACKS BENTONITE. INSTALLED 450' 1" PVC PIPE PERFORATED TO 200'

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

All Construction Completed

Edward J. Janning
(Signature)

GROUND BED LAYOUT SKETCH



BURGE CORROSION SYSTEMS, INC.P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410COMPANY MERIDIAN OIL DAILY DRILLING REPORT 12-7-91 1990

WELL NAME: <u>SAN JUAN 32-9</u>	WELL NUMBER: <u># 226</u>	SECTION: <u>32</u>	TOWNSHIP: <u>32</u>	RANGE: <u>9</u>
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WATER AT:

90'

FEET:

HOLE MADE:

500'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	18'	8" PVC CASING - SAND - SANDSTONE	
18'	80'	SHALE	
80'	90'	SAND - WATER - SAMPLE TAKEN	
90'	100'	SAND SHALE	
100'	140'	SHALE	
140'	160'	SAND BENTONITE MIX	
160'	180'	SAND SHALE MIX	
180'	320'	SAND - BENTONITE - SANDSTONE STREAMERS	
320'	330'	SANDSTONE	
330'	360'	BENTONITE - SHALE MIX	
360'	400'	SANDSTONE	
400'	420'	SHALE - SAND MIX	
420'	500'	SANDSTONE - SAND MIX	

REMARKS:

DRILLED 320' HAD WATER AT 90' GOT WATER SAMPLE
approx. 3 gpm. Good Quality (No smell, etc) SETTLES OUT WELL to the
NAKED EYE - Drilled to 500' SET A BENTONITE PLUG AT 200'
Duan E. Burge

Tool Dresser

Meridian Oil

EXHIBIT C

CPS #:

WELL NAME: SAN JUAN 32-9 #226

LOCATION: 32-32-9 DATE: 12-9-90

TOTAL VOLTS: 12.25

TOTAL AMPS: 15.7

OHMS RESISTANCE: .78

DEEP	LOG ANODE NO.	ANODE	DEEP	LOG ANODE NO.	ANODE	DEEP	LOG ANODE NO.	ANODE	DEEP	LOG ANODE NO.	ANODE	ANODE HEADINGS			
												NO.	DEPTH	NO COKE	WITH COKE
5			185	.1		365	.8		545			1	425	1.0	3.7
10			190	.4		370	.7		550			2	415	1.0	3.7
15			195	.5		375	.4		555			3	405	1.1	3.5
20			200	.3		380	.3		560			4	360	1.2	4.0
25			205	.2		385	.1		565			5	350	1.7	4.7
30			210	.2		390	.1		570			6	345	1.7	4.7
35			215	.6		395	.2		575			7	335	1.2	4.7
40			220	.9	10	400	.2		580			8	285	1.2	3.4
45			225	.7		405	.9	3	585			9	250	.9	2.4
50			230	.7		410	1.0		590			10	220	1.1	3.4
55			235	.6		415	1.0	2	595						
60			240	.4		420	1.6		600						
65			245	.7		425	.8	1	605						
70			250	.9	9	430	.2		610						
75			255	.6		435	.1		615						
80			260	.4		440	.2		620						
85			265	.2		445	.2		625						
90			270	.1		450	.2		630						
95			275	.2		455	.7		635						
100	1.0		280	.6		460	.8		640						
105	1.1		285	.9	8	465	.5		645						
110	1.1		290	.7		470	.5		650						
115	1.2		295	.5		475	.4		655						
120	1.1		300	.3		480			660						
125	1.0		305	.3		485			665						
130	.8		310	.4		490			670						
135	.6		315	.2		495			675						
140	.3		320	.2		500			680						
145	.2		325	.5		505			685						
150	.2		330	.3		510			690						
155	.3		335	1.1	7	515			695						
160	.2		340	1.0		520			700						
165	.2		345	1.1	6	525			705						
170	.3		350	.9	5	530			710						
175	.4		355	.8		535			715						
180	.1		360	.9	4	540			720						

REMARKS: SET 20' 8" PVC CASING. WATER AT 90'. WAITED FOR WATER TO COLLECT. TOOK WATER SAMPLE. DRILLED TO 500' COKE TO 200'. 5500#, PUT IN 4 SACKS BENTONITE INSTALLED 480' 1" PVC PIPE. PERFORATED TO 800'

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-901210-1

Exhibit E

Company MERIDIAN OIL		Sample No.		Date Sampled 12-7-90	
Field	Legal Description Sec 32 T32N R9W	County or Parish SAN JUAN		State NM	
Lease or Unit	Well SAN JUAN 32-9 #226	Depth 120'	Formation	Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point		Sampled By EO L.	



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

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	368	16
Calcium, Ca	467	23.3
Magnesium, Mg	14.6	1.2
Barium, Ba	-	-

OTHER PROPERTIES

pH	7.88
Specific Gravity, 60/60 F.	1.0041
Resistivity (ohm-meters) 62 F.	2.35

ANIONS

Chloride, Cl	39.1	1.67
Sulfate, So ₄	1780	37
Carbonate, CO ₃	-	-
Bicarbonate, HCO ₃	113	1.85

Total Dissolved Solids (calc.)

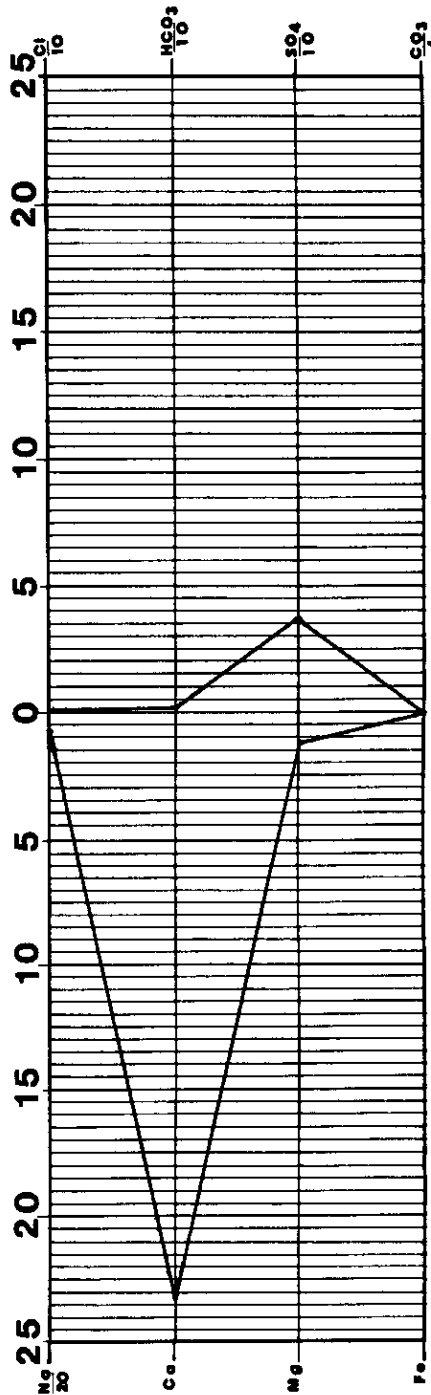
2,802

Iron, Fe (total)
Sulfide, as H₂S

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REMARKS & RECOMMENDATIONS:

ATTN. MIKE WILLIAMS



Date Received 10th Dec., 1990.	Preserved	Date Analyzed 10th Dec, 1990.	Analyzed By R.H.
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