

#41 30-039-18201

#445 30-039-24335

Exhibit D

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

Operator MERIDIAN OIL CO. Location: Unit L Sec. 13 Twp. 30 Rng. 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 # 445 & 41

Elevation _____ Completion Date 11/16/90 Total Depth 400 Land Type _____

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

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

90 ft. 8" PVC and 96 ft. 7" Casing Steel

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. 95 ft. water

Depths gas encountered: _____

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

4000 lbs . Ashbury Petroleum Coke

Depths anodes placed: 370. 360. 350. 340. 315. 305. 295. 235. 225. 215

Depths vent pipes placed: 400 ft. 1" PVC Cent Pipe

Vent pipe perforations: 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.

**WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG**

Exhibit A

Drilling Log (Attach Hereto) ☐Completion Date 11-16-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check																																																							
232-W	S.330-6 #445	43924		☒ Good ☐ Bad																																																							
	S.330-6 #41	69763																																																									
Location: L13-30-6	Anode Size: 2" x 60"	Anode Type: ANOTEC	Size Bit: 6 1/4																																																								
Depth Drilled 400'	Depth Logged	Drilling Rig Time	Total Lbs. Cable Used 4000	No. Sacks Mud Used																																																							
<table border="1"> <tr> <td>Anode Depth</td> <td># 1 370'</td> <td># 2 360'</td> <td># 3 350'</td> <td># 4 340'</td> <td># 5 315'</td> <td># 6 305'</td> <td># 7 295'</td> <td># 8 235'</td> <td># 9 225'</td> <td># 10 215'</td> </tr> <tr> <td>Anode Output (Amps)</td> <td># 1 2.4</td> <td># 2 3.3</td> <td># 3 2.8</td> <td># 4 2.8</td> <td># 5 2.8</td> <td># 6 3.8</td> <td># 7 3.3</td> <td># 8 2.5</td> <td># 9 3.0</td> <td># 10 3.0</td> </tr> <tr> <td>Anode Depth</td> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> <td># 19</td> <td># 20</td> </tr> <tr> <td>Anode Output (Amps)</td> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> <td># 19</td> <td># 20</td> </tr> <tr> <td>Total Circuit Resistance</td> <td colspan="2">Volts 11.9</td> <td colspan="2">Amps 13.3</td> <td colspan="2">Ohms 189</td> <td colspan="2">No. 8 C.P. Cable Used</td> <td colspan="2">No. 2 C.P. Cable Used</td> </tr> </table>					Anode Depth	# 1 370'	# 2 360'	# 3 350'	# 4 340'	# 5 315'	# 6 305'	# 7 295'	# 8 235'	# 9 225'	# 10 215'	Anode Output (Amps)	# 1 2.4	# 2 3.3	# 3 2.8	# 4 2.8	# 5 2.8	# 6 3.8	# 7 3.3	# 8 2.5	# 9 3.0	# 10 3.0	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	Volts 11.9		Amps 13.3		Ohms 189		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
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Remarks: Set 20' of 8" PVC casing. DRILLER DRILLED 200' of hole with hole caving in. Moved 25' NORTH and DRILLED 95' of 12" hole SET 87' of 8" PVC casing. Did NOT see sand-water off. SET 97' of 7" Steel casing, sealed off sand. RAN 400' of 1" PVC VENT PIPE Perforated 300' of VENT PIPE. Left COKE BREEZE APPROX. 185'

Rectifier Size: _____ V _____ A
 Addn'l Depth _____
 Depth Credit: _____
 Extra Cable: _____ 10'
 Ditch & 1 Cable: _____ 63'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: _____ 1

All Construction Completed

Willis Knight Jr
 (Signature)

GROUND BED LAYOUT SKETCH

RECEIVED
 JAN 07 1991
 OIL CON. DIV
 DIST. 3

GB #2
 63'
 RECTIFIER

ST.30-6 #445
 ST.30-6 #41
 GB #1

N

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

COMPANY MERIDIAN OIL DAILY DRILLING REPORT 11-16 1990

WELL NAME: <u>SAN JUAN 30-6</u>	WELL NUMBER: <u>445</u>	SECTION: <u>L-13</u>	TOWNSHIP: <u>30</u>	RANGE: <u>6</u>
WATER AT: <u>CPS-232-N</u>		FEET: <u>40'</u>	HOLE MADE: <u>400'</u>	

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	90'	8" PVC CASING	
0	96'	7" STEEL CASING	
0	95'	SAND-GRAVEL-WATER SAND	
95'	120'	SANDSTONE - SOME BENTONITE	
120'	130'	SHALE	
130'	170'	SANDSTONE - SOME BENTONITE	
170'	235'	SHALE	
235'	270'	SANDSTONE - SAND - SHALE	
270'	320'	SHALE - SANDSTONE STREAMERS	
320'	335'	SAND-SHALE MIX	
335'	370'	SHALE	
370'	400'	SANDSTONE	

REMARKS: DRILLED HOLE #1 COULD NOT STAND - DRILLED #2 - 12 1/4 TO 95' SET 90' 8" PVC
COULD NOT GET TO BOTTOM - SET 96' 7" STEEL CASING THROUGH 8" - PUT 1 SACK OF MUD
BETWEEN CASINGS - ALSO TRIED DRILLING WITH MUD - COULD NOT MAKE IT STAND

Brian E. Burge

Driller

Tool Dresser

Meridian 011

CPS #: 232-W WELL NAME: 5530-6 #445 LOCATION: 43-30.6 DATE: 11-16-90

TOTAL VOLTS: 11.9 TOTAL AMPS: 13.3 OHMS RESISTANCE: 89.

												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	1.4		365	1.6		545			1	370	1.1	2.4
10			190	1.1		370	1.1	1	550			2	360	1.8	3.3
15			195	1.8		375	1.80		555			3	350	1.3	2.8
20			200	1.2		380	1.40		560			4	340	1.6	2.8
25			205	1.3		385	1.40	T.D	565			5	315	1.3	2.8
30			210	1.3		390			570			6	305	2.1	3.8
35			215	1.3	10	395			575			7	295	1.6	3.3
40			220	1.2		400			580			8	235	1.3	2.5
45			225	1.4	9	405			585			9	225	1.5	3.0
50			230	1.3		410			590			10	215	1.3	3.0
55			235	1.2	8	415			595						
60			240	1.0		420			600						
65			245	1.0		425			605						
70			250	1.0		430			610						
75			255	1.30		435			615						
80			260	1.50		440			620						
85			265	1.70		445			625						
90			270	1.60		450			630						
95			275	1.60		455			635						
100	1.5		280	1.40		460			640						
105	1.1		285	1.70		465			645						
110	1.90		290	1.2		470			650						
115	1.50		295	1.5	7	475			655						
120	1.40		300	1.6		480			660						
125	1.40		305	1.8	6	485			665						
130	1.30		310	1.7		490			670						
135	1.90		315	1.2	5	495			675						
140	1.2		320	1.90		500			680						
145	1.90		325	1.70		505			685						
150	1.90		330	1.80		510			690						
155	1.50		335	1.90		515			695						
160	1.40		340	1.4	4	520			700						
165	1.40		345	1.7		525			705						
170	1.30		350	1.1	3	530			710						
175	1.50		355	1.3		535			715						
180	1.3		360	1.6	2	540			720						

REMARKS: Drilled 95' of 12" hole, set 87' of 8" PVC casing. Did NOT seal off sand and water. Set 97' of 7" steel casing. Sealed off sand and water. WATER STANDING AT 35'.

1st. Hole set 20' of 8" PVC casing. DRILLER DRILLED 200' WITH HOLE CASING IN. MOVED 25' NORTH OF HOLE DRILLED HOLE #2