

121 - 30-039-08086
46 - 30-039-07434
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator MERIDIAN OIL CO. Location: Unit G Sec. 15 Twp. 28 Rng. 6

Name of Well/Wells or Pipeline Serviced San Juan 28-6 # 121 & # 46

Elevation _____ Completion Date 9/10/90 Total Depth 500 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. 270 ft. got sample

Depths gas encountered: _____

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

480 ft. with 3300 lbs. Ashbury Petroleum Coke

Depths anodes placed: 465, 450, 440, 430, 420, 410, 400, 390, 380, 370

Depths vent pipes placed: 500 ft. 1" PVC Vent Pipe

Vent pipe perforations: 230'

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

#26

Drilling Log (Attach Hereto) ☐Completion Date 9-10-90

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins. Union Check
1152-W	SJ 28-6 #121			☒ Good ☐ Bad
	SJ 28-6 #46			
Location: G15-28-6		Anode Size: 2" X 60"	Anode Type: ANOTEC	Size Bit: 6 3/4
Depth Drilled: 500'	Depth Logged: 480'	Drilling Rig Time:	Total Lbs. Coke Used: 3300#	Lost Circulation Mat'l Used:
No. Sacks Mud Used:				
Anode Depth:				
# 1 465'	# 2 450'	# 3 440'	# 4 430'	# 5 420'
# 6 410'	# 7 400'	# 8 390'	# 9 380'	# 10 370'
Anode Output (Amps):				
# 1 3.7	# 2 2.8	# 3 4.1	# 4 4.5	# 5 4.4
# 6 3.7	# 7 4.0	# 8 3.3	# 9 3.6	# 10 3.6
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 12.3 Amps 14.2 Ohms .86				

Remarks: DRILLER SAID WET AT 270' DRILLED TO 290' LEFT OVER WEEK-END, BLEW WATER. GOT SAMPLE. SET 20' of 8" PVC CASING, RAN 500' of 1" PVC VENT PIPE. LEFT COKE BREEZE APPROXIMATELY 340'.
 PERFORATED 230' of VENT PIPE

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 44'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Sub Pole: _____
 Junction Box: 1

All Construction Completed

Willis Knight Jr
 (Signature)

GROUND BED LAYOUT SKETCH

⊗ 28-6 #46

New location

O.G.B. #1

O.G.B. #2

44'

Rect

⊗ 28-6 #121

N

Meridian 0.1

CPS #: 1152-W WELL NAME: 5528-6 #121+46 LOCATION: 61528-6 DATE: 9-10-90

TOTAL VOLTS: 12.3 TOTAL AMPS: 14.2 OHMS RESISTANCE: 186

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO	WITH
ANODE	NO.	NO.	ANODE	NO.	NO.	ANODE	NO.	NO.	ANODE	NO.	NO.			COKE	COKE
5			185			365	1.6		545			1	465	2.0	3.7
10			190			370	1.1	10	550			2	450	1.2	2.8
15			195			375	1.2		555			3	440	2.1	4.1
20			200	.90		380	1.2	9	560			4	430	2.0	4.5
25			205	.80		385	1.1		565			5	420	1.9	4.4
30			210	.80		390	1.1	8	570			6	410	1.5	3.7
35			215	.70		395	1.9		575			7	400	2.1	4.0
40			220	.80		400	1.5	7	580			8	390	1.1	3.3
45			225	1.0		405	1.4		585			9	380	1.3	3.6
50			230	1.3		410	1.5	6	590			10	370	1.3	3.6
55			235	.80		415	1.8		595						
60			240	.50		420	1.8	5	600						
65			245	.30		425	1.8		605						
70			250	.20		430	1.8	4	610						
75			255	.30		435	1.9		615						
80			260	.40		440	1.5	3	620						
85			265	.50		445	1.2		625						
90			270	.70		450	1.0	2	630						
95			275	.80		455	.70		635						
100			280	1.2		460	.70		640						
105			285	1.6		465	1.7	1	645						
110			290	1.3		470	1.7		650						
115			295	1.3		475	1.5		655						
120			300	1.3		480	1.4	T.D	660						
125			305	1.1		485			665						
130			310	.90		490			670						
135			315	.80		495			675						
140			320	.80		500			680						
145			325	.80		505			685						
150			330	1.3		510			690						
155			335	1.0		515			695						
160			340	.80		520			700						
165			345	1.7		525			705						
170			350	1.9		530			710						
175			355	1.8		535			715						
180			360	1.8		540			720						

REMARKS: Driller said wet at 270. drilled to 290'. Sitover Weekend, Blew muddy water. Got sample, But it may not settle out. Set 20' of 8" PVC casing

2 INSULATED UNION ON THIS WELL 5528-6 #121

BURGE CORROSION SYSTEMS, INC.

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

COMPANY MERIDIAN Oil DAILY DRILLING REPORT 9-10 1990

WELL NAME: <u>SAN JUAN</u>	WELL NUMBER: <u>46 1/2 121</u>	SECTION: <u>15</u>	TOWNSHIP: <u>28</u>	RANGE: <u>6</u>
-------------------------------	-----------------------------------	-----------------------	------------------------	--------------------

WATER AT: <u>270-290'</u>	FEET: <u>500'</u>	HOLE MADE:
------------------------------	----------------------	------------

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	18'	8" PVC CASING - SANDSTONE	
18'	53'	SAND - MOISTURE	
53'	80'	shale	
80'	100'	SANDSTONE	
100'	110'	shale	
110'	130'	SANDSTONE / BENTONITE	
130'	160'	shale	
160'	190'	SANDSTONE - SAND	
190'	200'	shale	
200'	220'	SANDSTONE	
220	235'	SAND	
235	255'	shale	
255'	280'	SANDSTONE / SAND - WATER	
280'	290'	SAND - WATER	
290'	305'	shale	
305	325'	SANDSTONE	
325	500'	shale - SAND MIX	

REMARKS:

Set 20' 8" PVC casing drilled to 290' on 9/6/90
Lead water standing at 270' on 9-10-90 - Hot water sample
Drilled to 500' on 9-10-90

Driller

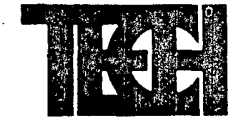
Brian E. Burge

Tool Dresser

API WATER ANALYSIS REPORT FORM

Laboratory No.

Company MERIDIAN OIL COMPANY		Sample No. CPS 1152-W		Date Sampled 10th Sept., 1990	
Field		Legal Description		County or Parish	
Lease or Unit		Well SAN JUAN 28-6 # 46 & 121 G 15-28-6		Depth	
Type of Water (Produced, Supply, etc.)		Formation		Water, B/D	
Sampling Point C 270'		Sampled By M.O. McFARLAND			



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

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>3255</u>	<u>141.54</u>
Calcium, Ca	<u>40</u>	<u>2.00</u>
Magnesium, Mg	<u>4</u>	<u>0.35</u>
Barium, Ba	<u>-</u>	<u>-</u>

OTHER PROPERTIES

pH	<u>7.19</u>
Specific Gravity, 60/60 F.	<u>0.9656</u>
Resistivity (ohm-meters) <u>66.2 F.</u>	<u>5.3</u>

Total Dissolved Solids (calc.)

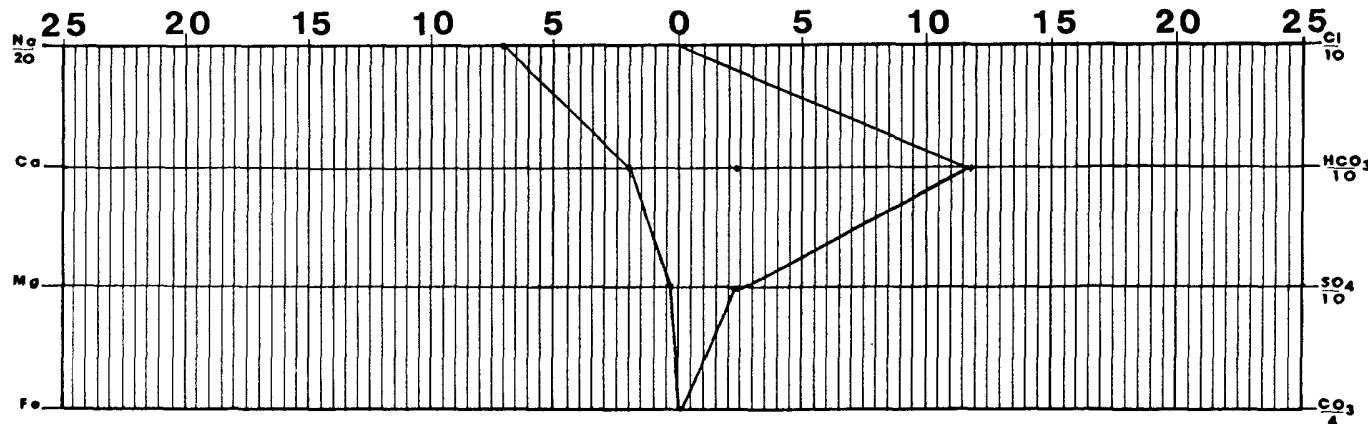
11,742

ANIONS

Chloride, Cl	<u>31</u>	<u>0.88</u>
Sulfate, SO_4	<u>1153</u>	<u>24.01</u>
Carbonate, CO_3	<u>-</u>	<u>-</u>
Bicarbonate, HCO_3	<u>7259</u>	<u>119</u>

Iron, Fe (total)	<u>-</u>
Sulfide, as H_2S	<u>-</u>

REMARKS & RECOMMENDATIONS:



Date Received 17th Sept., 1990	Preserved	Date Analyzed 18th Sept., 1990	Analyzed By R.H.
--	-----------	--	----------------------------