

89-30-039-07177

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

52-30-039-07155

Operator MERIDIAN OIL CO. Location: Unit L Sec. 4 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 # 89 & 52

Elevation _____ Completion Date 9/27/90 Total Depth 420 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. 60 ft.

Depths gas encountered: _____

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

410 ft. with 8000 lbs of Ashbury Petroleum Coke

Depths anodes placed: 375, 365, 285, 275, 150, 140, 130, 120, 110, 95

Depths vent pipes placed: 420 ft. 1" PVC

Vent pipe perforations: 360 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

Drilling Log (Attach Hereto) ☐Completion Date 9-27-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check																																																																			
738-W	SJ 27-5 #89			☒ Good ☐ Bad																																																																			
	SJ 27-5 #52																																																																						
Location: <u>L4-27-5</u>		Anode Size: <u>2" x 60"</u>	Anode Type: <u>ANOTEC</u>																																																																				
			Size Bit: <u>6 3/4</u>																																																																				
Depth Drilled <u>420'</u>	Depth Logged <u>410'</u>	Drilling Rig Time	Total Lbs. Coke Used <u>8000#</u>	No. Sacks Mud Used																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Anode Depth</td> <td># 1 375</td> <td># 2 365</td> <td># 3 285</td> <td># 4 275</td> <td># 5 150</td> <td># 6 140</td> <td># 7 130</td> <td># 8 120</td> <td># 9 110</td> <td># 10 95</td> </tr> <tr> <td>Anode Output (Amps)</td> <td># 1 4.4</td> <td># 2 4.9</td> <td># 3 5.2</td> <td># 4 4.2</td> <td># 5 4.5</td> <td># 6 5.7</td> <td># 7 7.8</td> <td># 8 6.8</td> <td># 9 5.8</td> <td># 10 5.1</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="5"></td> <td colspan="5">No. 8 C.P. Cable Used</td> <td>No. 2 C.P. Cable Used</td> </tr> <tr> <td>Volts <u>11.8</u></td> <td>Amps <u>19.8</u></td> <td>Ohms <u>.60</u></td> <td colspan="5"></td> <td colspan="3"></td> </tr> </table>					Anode Depth	# 1 375	# 2 365	# 3 285	# 4 275	# 5 150	# 6 140	# 7 130	# 8 120	# 9 110	# 10 95	Anode Output (Amps)	# 1 4.4	# 2 4.9	# 3 5.2	# 4 4.2	# 5 4.5	# 6 5.7	# 7 7.8	# 8 6.8	# 9 5.8	# 10 5.1	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 <u>11.8</u>	Amps <u>19.8</u>	Ohms <u>.60</u>								
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Remarks: Set 20' of 8" PVC casing. Driller said water at 60', said
water standing at 40' this A.M. Ran 420' of 1" PVC Vent Pipe.
Perforated 360' of Vent Pipe. Left coke breeze approximately
50'

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10
 Ditch & 1 Cable: 110'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

GROUND BED LAYOUT SKETCH

O.G.B. #1

27-5 #52

CONSTRUCTION LOGGING READINGS

Meridian 011

CPI #: 738-W WELL NAME: S.J. 275th 89+52 LOCATION: L4-27-5 DATE: 9-27-90

TOTAL VOLTS: 11.8 TOTAL AMPS: 19.8 OHMS RESISTANCE: 60.

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO COKE	WITH COKE
5			185	.50		365	1.7	2	545			1	375	1.6	4.4
10			190	.40		370	1.6	2	550			2	365	1.7	4.9
15			195	.30		375	1.5	1	555			3	285	2.2	5.2
20			200	.40		380	1.3		560			4	275	1.6	4.2
25			205	.30		385	.80		565			5	150	1.9	4.5
30			210	.50		390	.80		570			6	140	2.7	5.7
35			215	.30		395	.60		575			7	130	3.4	7.8
40			220	.80		400	.50		580			8	120	1.9	6.8
45			225	1.2		405	.40		585			9	110	2.2	5.8
50			230	1.3		410	.40	TD	590			10	95	2.3	5.1
55			235	1.1		415			595						
60	1.80		240	1.0		420			600						
65	1.1		245	.70		425			605						
70	1.6		250	.50		430			610						
75	2.0		255	.40		435			615						
80	2.2		260	.90		440			620						
85	2.0		265	.50		445			625						
90	2.1		270	.90		450			630						
95	1.8	10	275	1.6	4	455			635						
100	1.4		280	2.0		460			640						
105	1.5		285	1.7	3	465			645						
110	2.1	9	290	1.1		470			650						
115	1.9		295	.30		475			655						
120	2.0	8	300	.30		480			660						
125	2.6		305	.30		485			665						
130	2.7	7	310	.30		490			670						
135	2.4		315	.70		495			675						
140	2.2	6	320	1.0		500			680						
145	1.3		325	.90		505			685						
150	1.7	5	330	.40		510			690						
155	1.2		335	.30		515			695						
160	.80		340	.30		520			700						
165	.90		345	.30		525			705						
170	.90		350	.60		530			710						
175	.90		355	1.2		535			715						
180	.70		360	1.2		540			720						

REMARKS: Set 20' of 8" PVC casing. Driller said water at 60', said water standing at 40' this AM.

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

Kevin Bunge Driller Tool Dresser

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-901002-008A

Company MERIDIAN OIL		Sample No. CPS 738-W		Date Sampled 9-27-90	
Field Blanco		Legal Description L4-17-5		County or Parish RIO ARriba	
Lease or Unit		Well 27-5 #89		Depth 60'	
Type of Water (Produced, Supply, etc.)		Sampling Point		Water, B/D	
				Sampled By W. Knight Jr.	



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

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	802	34.85
Calcium, Ca	46	2.3
Magnesium, Mg	4	0.3
Barium, Ba	-	-

OTHER PROPERTIES

pH	7.83
Specific Gravity, 60/60 F.	1.0035
Resistivity (ohm-meters) 71.5 F.	3.85

Total Dissolved Solids (calc.)

2649

ANIONS

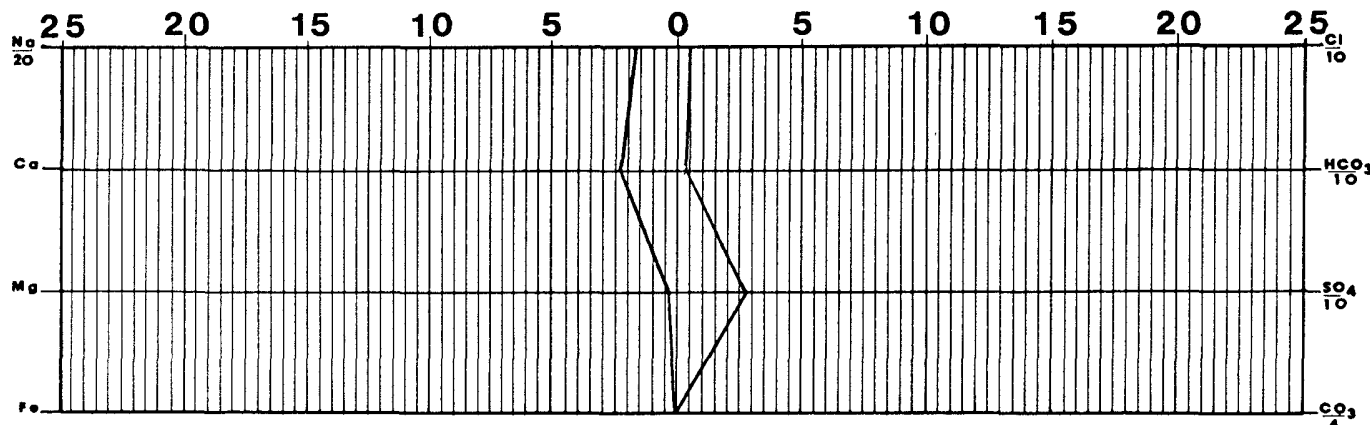
Chloride, Cl	170	4.8
Sulfate, SO_4	1346	28.05
Carbonate, CO_3	-	-
Bicarbonate, HCO_3	281	4.6

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:

ATTN. M.O. McFarland



Date Received 2nd Oct, 1990.	Preserved	Date Analyzed 5th Oct, 1990.	Analyzed By R.H.
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