

#8 30-045-10869 E

#11Y 30-045-23519

#29 30-045-28210

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

Operator MERIDIAN OIL Location: Unit L Sec. 7 Twp 31 Rng 9

Name of Well/Wells or Pipeline Serviced JOHNSTON FEDERAL #29
#8 #11-Y

Elevation _____ Completion Date 10-19-91 Total Depth 478 Land Type F

Casing Strings, Sizes, Types & Depths 8" PVC SURFACE CASING
100' DEEP

If Casing Strings are cemented, show amounts & types used yes with
23 SACKS NEAT CEMENT

If Cement or Bentonite Plugs have been placed, show depths & amounts used
NO

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Fresh 180'

Depths gas encountered: NO

Ground bed depth with type & amount of coke breeze used: 478' DEEP
with 7100 lbs LORESCO TYPE SW + ASBURY 4518

Depths anodes placed: 445, 435, 425, 415, 400, 310, 300, 290, 280, 270, 261, 252

Depths vent pipes placed: 478

Vent pipe perforations: BOTTOM 350

Remarks: _____

RECEIVED

FEB 24 1992

OIL CON. DIV

DIST. 3

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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2317	P/L NAME (S), NUMBER (S) Johnston Federal #29, 11-9, 48					
TOTAL	VOLTS 11.97	AMPS 20.1	OHMS 60	DATE 10-19-91	NAME MRW	
REMARKS (notes for construction log)						
100' CASING, 23 SACKS						
WATER 180' Drilled 480, LOGGED 478						
PERFORATED 350'						
71 SAGS LONGSCU						

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
	ANODE	*		ANODE	*		ANODE	*		ANODE	*	
100			295	2.2-		490			685			
105			300	2.9-		495			690			
110			305	3.0-		500			695			
115			310	2.8-		505			700			
120			315	2.4-		510			ANODE	DEPTH	NO	FULLY
125			320	1.3		515			*		COKE	COKE D
130			325	1.0		520			1	445	2.6	4.9
135			330	.8		525			2	435	3.0	5.1
140			335	1.0		530			3	425	3.0	4.4
145			340	.7		535			4	415	2.3	4.2
150			345	.7		540			5	400	2.6	3.8
155			350	1.0		545			6	310	2.9	5.3
160			355	1.1		550			7	300	2.8	5.5
165			360	1.3		555			8	290	2.6	5.2
170			365	2.0		560			9	280	3.0	5.4
175			370	1.5		565			10	270	3.4	6.0
180	1.7		375	1.3		570		261	11	260	3.1	6.3
185	1.3		380	1.3		575			12	252	2.3	5.4
190	1.1		385	1.1		580			13			
195	1.1		390	1.1		585			14			
200	1.0		395	1.6		590			15			
205	1.0		400	2.6-		595			16			
210	1.0		405	1.8		600			17			
215	1.1		410	1.9		605			18			
220	1.2		415	2.2-		610			19			
225	1.3		420	2.9		615			20			
230	1.2		425	2.8-		620			21			
235	1.2		430	3.0		625			22			
240	1.4		435	3.0-		630			23			
245	1.7		440	2.7		635			24			
250	2.1		445	2.6-		640			25			
255	2.6		450	1.9		645			26			
260	3.0		455	1.6		650			27			
265	3.2		460	1.6		655			28			
270	3.2		465	1.6		660			29			
275	3.0		470	1.2		665			30			
280	2.9		475	TD	478	670						
285	2.9		480			675						
30	2.4-		485			680						

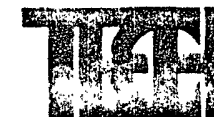
DISTRIBUTION - original - permanent CPS FILE

copy - Division Corrosion Supervisor
copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No 25-91108-15

Company <u>MERIDIAN OIL</u>		Sample No		Date Sampled <u>10-18-91</u>	
Field <u>2317W</u>		Legal Description <u>L F - 31-9</u>		County or Parish <u>San Juan</u>	
Lease or Unit		Well <u>JOHNSON FEDERAL #29</u>	Depth <u>180'</u>	Formation <u>FC</u>	Water, B/D
Type of Water (Produced, Supply, etc)		Sampling Point <u>Ground Bed</u>			Sampled By <u>MRW</u>



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

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>4,670</u>	<u>203</u>
Calcium, Ca	<u>5</u>	<u>0.25</u>
Magnesium, Mg	<u>73</u>	<u>3.7</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>8.12</u>
Specific Gravity, 60/60 F.	<u>1.0120</u>
Resistivity (ohm-meters) <u>66</u> F.	<u>1.2</u>

Total Dissolved Solids (calc.)

15,900

ANIONS

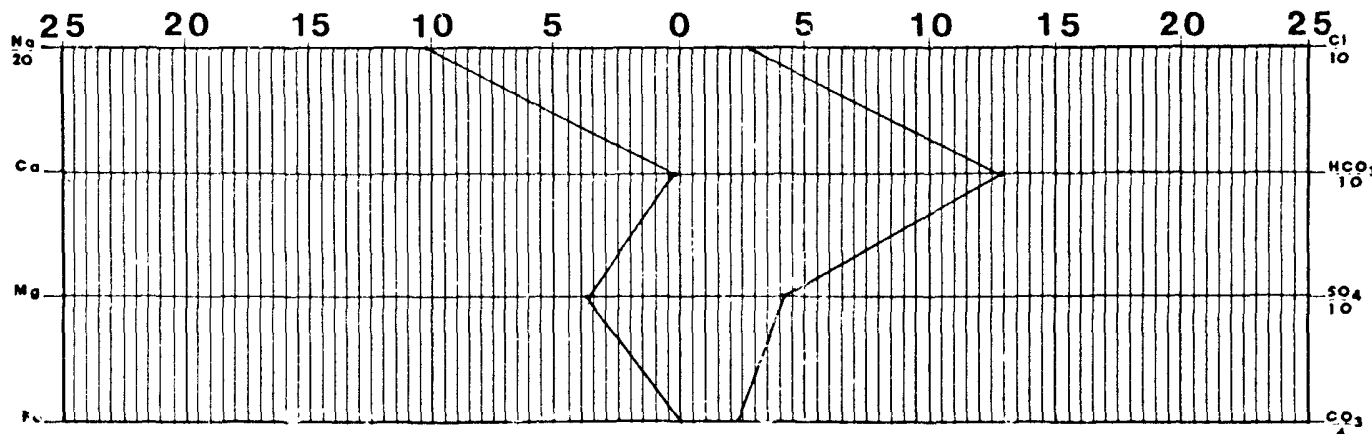
Chloride, Cl	<u>1010</u>	<u>28.5</u>
Sulfate, SO_4	<u>2,000</u>	<u>41</u>
Carbonate, CO_3	<u>280</u>	<u>9.3</u>
Bicarbonate, HCO_3	<u>7,330</u>	<u>128</u>

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:

ATTN: DONOTUE



Date Received <u>8th Nov, 1991.</u>	Preserved	Date Analyzed <u>9th Jan, 1992.</u>	Analyzed By <u>R. H.</u>
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