

#1 30-045-10356

E

#352 30-045-27650

4266

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Location: Unit A Sec. 27 Twp 31 Rng 8Name of Well/Wells or Pipeline Serviced HALE # 352, # 1Elevation _____ Completion Date 8-5-91 Total Depth _____ Land Type FCasing Strings, Sizes, Types & Depths 8" 100' Surface PVCIf Casing Strings are cemented, show amounts & types used Yes, 20SACKS NEAT CEMENT

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

NODepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Fresh 180Depths gas encountered: NOGround bed depth with type & amount of coke breeze used: 441' DEEP with128 BAGS of 4518 Asbury Flo COKEDepths anodes placed: 420, 410, 400, 390, 355, 310, 300, 290, 280, 260, 250, 240Depths vent pipes placed: 441'Vent pipe perforations: bottom 300'

Remarks: _____

RECEIVED

FEB 24 1992

OIL CON. DIV. J
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# 4261-w	P/L NAME(*), NUMBER(*) HALE #352 #1					
WD # 6364	TOTAL	VOLTS 11.95	AMPS 15.5	-- OHMS .77	DATE 8-5-91	NAME 8-5-90
REMARKS (notes for construction log)						
100' 8" PVC SURFACE CASING, 20 BAGS CEMENT						
H ₂ O 180' 446' 1" PVC PERFORATED BOTTOM 300						

DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	
100			295	2.1		490			685			
105			300	2.1		495			690			
110			305	2.4		500			695			
115			310	1.7	(6)	505			700			
120			315	.8		510			ANODE	DEPTH	NO.	FULLY
125			320	.6		515			#		COKE	COK'D
130			325	.6		520			1	420	1.4	2.7
135			330	.6		525			2	410	1.3	2.8
140			335	.6		530			3	400	1.7	4.0
145			340	.7		535			4	390	2.2	4.3
150			345	.9		540	310		5	355	1.5	3.6
155			350	1.3		545	300		6	310	2.0	4.9
160			355	1.5	(5)	550	290		7	300	2.5	5.8
165			360	1.0		555	280		8	290	2.1	5.8
170			365	.9		560	260		9	280	1.8	5.6
175			370	.8		565	250		10	260	2.1	4.9
180			375	.8		570	240		11	250	1.9	4.8
185			380	1.0		575			12	240	2.3	4.8
190			385	1.4		580			13			
195	1.0		390	2.1	(2)	585			14			
200	.8		395	1.9		590			15			
205	.2		400	1.7	(3)	595			16			
210	.6		405	1.4		600			17			
215	.9		410	1.2	(2)	605			18			
220	.7		415	1.3		610			19			
225	.9		420	1.3	(1)	615			20			
230	1.1		425	1.2		620			21			
235	1.9		430	1.1		625			22			
240	2.0		435	.9		630			23			
245	1.7		440	1.0	441	635			24			
250	1.7		445			640			25			
255	2.0		450			645			26			
260	1.9		455			650			27			
265	1.3		460			655			28			
270	1.1		465			660			29			
275	1.6		470			665			30			
280	1.9		475			670						
285	1.9		480			675						
290	2.0		485			680						

DISTRIBUTION - original - permanent CPS FILE

copy - Division Corrosion Supervisor

copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No. 25910816-11

Company <u>MERIDIAN OIL</u>		Sample No. <u>4261W</u>	Date Sampled <u>8-5-91</u>
Field	Legal Description <u>A27-31-8</u>	County or Parish <u>SAN JUAN</u>	State <u>N.M.</u>
Lease or Unit	Well <u>HALE #352</u>	Depth	Formation <u>F.C.</u>
Type of Water (Produced, Supply, etc.)		Sampling Point <u>GROUND BED 180'</u>	Sampled By <u>MKW</u>

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>480</u>	<u>20</u>
Calcium, Ca	<u>20</u>	<u>1.0</u>
Magnesium, Mg	<u>15</u>	<u>1.2</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>7.7</u>
Specific Gravity, 60/60 F.	<u>1.0036</u>
Resistivity (ohm-meters) <u>74° F.</u>	<u>6.70</u>

Total Dissolved Solids (calc.)

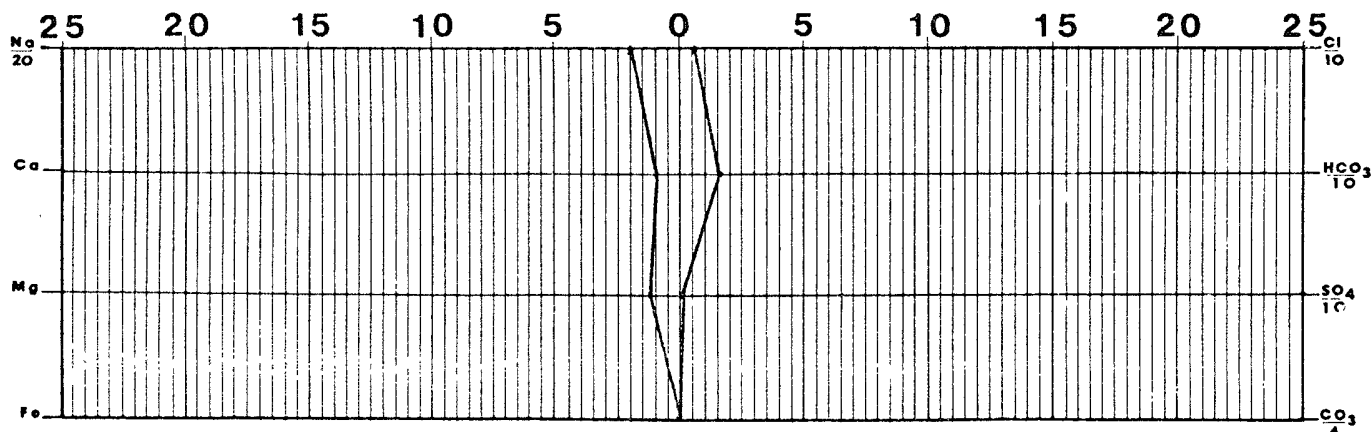
1700

ANIONS

Chloride, Cl	<u>210</u>	<u>5.8</u>
Sulfate, SO_4	<u>56</u>	<u>1.2</u>
Carbonate, CO_3	<u>0</u>	<u>0</u>
Bicarbonate, HCO_3	<u>950</u>	<u>16</u>

Iron, Fe (total)
Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received <u>08/16/91</u>	Preserved <u>NO</u>	Date Analyzed <u>08/16/91</u>	Analyzed By <u>EL</u>
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TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311