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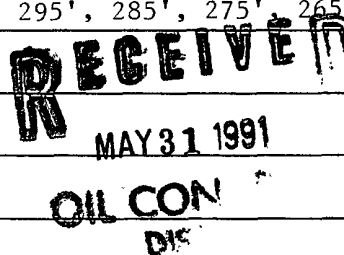
30-045-21766

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

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 24 Twp 29 Rng 8Name of Well/Wells or Pipeline Serviced HARDIE A #2A

cps 1303w

Elevation 6706' Completion Date 10/28/78 Total Depth 380' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 185' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 34 SACKSDepths anodes placed: 345', 335', 325', 315', 305', 295', 285', 275', 265', 245'Depths vent pipes placed: 360'Vent pipe perforations: 200'Remarks: gb #1

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 10-28-78

Well Name Hardie A#2A		Location NW 24-29-8		CPS No. 1303 W	
Type & Size Bit Used 6 3/4		CONTRACT #2		Work Order No. 57050.21	
Anode Hole Depth 380-373	Total Drilling Rig Time	Total Lbs. Coke Used 34 Bags	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 345	#2 335	#3 325	#4 315	#5 305	#6 295
#7 285	#8 275	#9 265	#10 245		
Anode Output (Amps)					
#1 2.7	#2 3.3	#3 4.4	#4 4.9	#5 4.0	#6 3.8
#7 3.4	#8 3.6	#9 3.7	#10 3.4		
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 11.4	Amps 16.6	Ohms .69			

Remarks: STATIC % 600' W = .86

WET AT 88 FT WATER AT 185' APPROX 12 P.M.

DRILLED 380' WITH AIR LOGGED 373' INSTALLED 360'
OF VENT PIPE PERFORATED 200' & LURRIED 34 BAGS
OF COKE

Hole depth = -127'
Cable + ditch = 235'
EXTRA CABLE = 145'

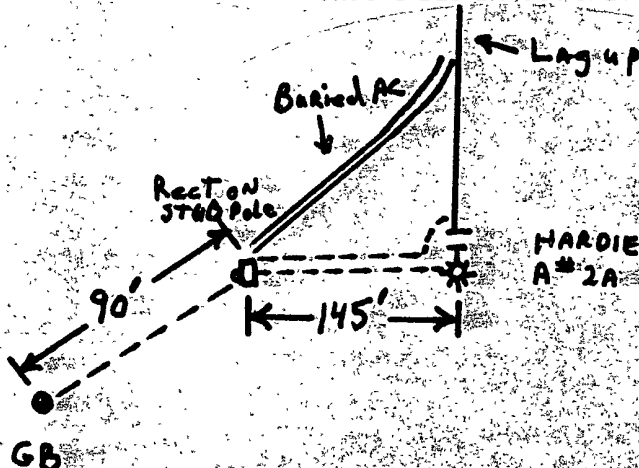
400.16A Rect
STUB POLE

2x2x48" Graphite Anod

All Construction Completed

Robert J. Belnick
(Signature)

GROUND-BED LAYOUT SKETCH



DISTRIBUTION:

WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File

1303W NW 24-29-8
HARDIE A=2A 57050.21 ST 600'W = .86 u=OK

MW	gals/mol	
16.04	C ₁	6.4
30.07	C ₂	10.12
44.10	C ₃	10.42
58.12	iC ₄	12.38
58.12	nC ₄	11.93
72.15	iC ₅	13.85
72.15	nC ₅	13.71
86.18	iC ₆	15.50
86.18	C ₆	15.57
100.21	iC ₇	17.2
100.21	C ₇	17.46
114.23	C ₈	19.39
28.05	C ₂ ²⁻	9.64
42.08	C ₃ ²⁻	9.67

MISC.		
MW		gals/mol
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

180	1.6					Wet AT 88 FT WATER AT 185' WATER=126PM Drilled 380' WITH AIR Logged 373'
190	2.3	390				INSTALLED 360' OF VENT PIPE PERFORATED 200'
200	2.6					SLURRED 34 BAGS OF LOKE
210	2.0	400				
220	2.1					
230	2.1					
240	2.4					
250	2.0					Holedepth = 127' Ditch + cable = 235' EXTRA cable = 145' 400 LB ARET Stub Pole
260	2.2					2x2x48 graphite
270	2.2					
280	2.2					
290	2.4					
300	2.5					
310	2.8					
320	3.0					
330	2.2					
340	1.9					
350	1.7					
360	1.8					
370	1.4					
380						

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-9417 Date 12-12-78

Operator _____ Well Name HARDIE A #2A 1303 W

Location NW24-29-8 County _____ State NM

Field _____ Formation _____

Sampled From 1303W

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____

	ppm	epm		ppm	epm
Sodium	<u>242</u>	<u>11</u>	Chloride	<u>16</u>	<u>.5</u>

Calcium	<u>176</u>	<u>9</u>	Bicarbonate	<u>239</u>	<u>4</u>
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Magnesium	<u>22</u>	<u>2</u>	Sulfate	<u>825</u>	<u>17</u>
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Iron	<u>PRESENT</u>		Carbonate	<u>0</u>	<u>0</u>
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H ₂ S	<u>ABSENT</u>		Hydroxide	<u>0</u>	<u>0</u>
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cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File 57050.21

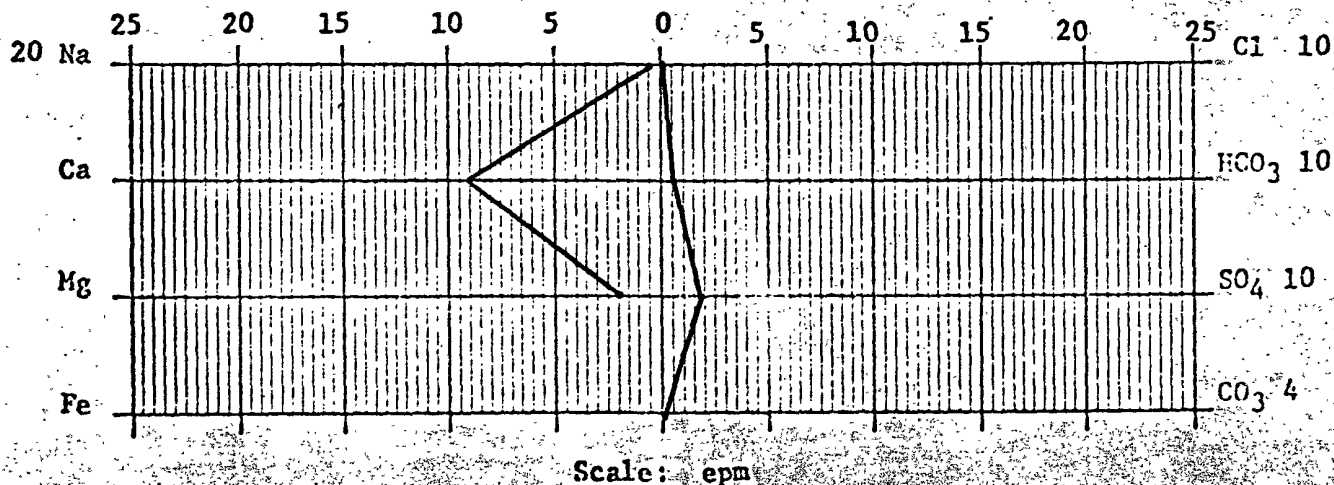
Total Solids Dissolved 1386

pH 7.6

Sp. Gr. 1.0025 at 60°F

Resistivity 560 ohm-cm at 75 °F

Barnett Ellsberry
Chemist



DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher

Butch Benoit

____ Company Supervisor