

1A-30-045-22815
251-30-045-26954

4993

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. 21 Twp 31 Rng 9

Name of Well/Wells or Pipeline Serviced SUNRAY G #1A, #251

cps 1366w

Elevation 6473' Completion Date 4/19/79 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 50' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 280', 270', 260', 250', 240', 230', 220', 210', 170', 160'

Depths vent pipes placed: 300'

Vent pipe perforations: 260'

Remarks: gb #1

RECEIVED
MAY 31 1991
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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐

#251 ~~SEMI~~ CONTRACT #1

Completion Date 4-19-79

Well Name SUN RAY G #1-A		Location NW 21-31-9		CPS No. 1366W	
Type & Size Bit Used 6 3/4"				Work Order No. 57309-21	
Anode Hole Depth 300 - 293	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 280	# 2 270	# 3 260	# 4 250	# 5 240	# 6 230
# 7 220	# 8 210	# 9 170	# 10 160		
Anode Output (Amps)					
# 1 3.3	# 2 3.7	# 3 2.4	# 4 2.5	# 5 1.8	# 6 2.0
# 7 3.3	# 8 2.9	# 9 3.0	# 10 3.8		
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	
Volts 11.8	Amps 11.2	Ohms 1.05			No. 2 C.P. Cable Used

Remarks: DRILLER SAID WATER @ 50'. DRILLED TO 300' WITH 5 5/8" BIT. LOGGED HOLE.
DRILLED TO 300' WITH 6 3/4" BIT. INSTALLED 10-1 1/2" DURIRON ANODES. INSTALL
300' OF 1" PVC VENT PIPE. PERFORATED 260' OF 1" PVC VENT PIPE.
STATIC 600' NE = 0.78. SLURRYED SACKS OF COKE

10-1 1/2" DURIRON ANODES
1-Stub Pole
40V 16A Rectifier
Junction

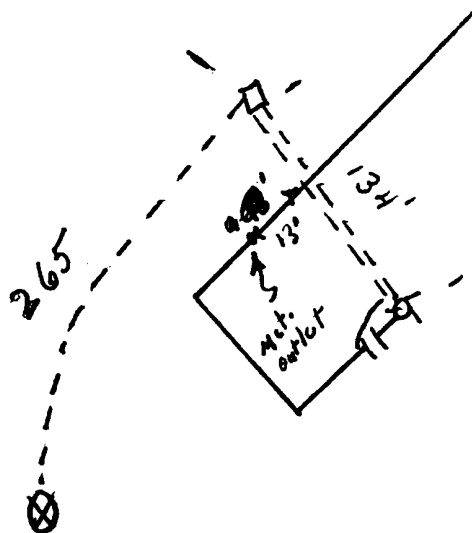
EXTRA CABLE = 159'
DITCH #1 CABLE = 399'

All Construction Completed

W. J. Lott

(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6473

LEASE 1366 W
WELL NAME SUNRAY G / A CONTRACTOR CORROSION CONTROL RIG NO. W-2 REPORT NO. DATE April 19 1979

SIGNED: Toolpusher LC Finkson Company Supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
Date: _____
By: _____
File: _____

SUNRAY G #1-A

1366W

NW21-31-9

57309-21

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2+ 9.64
42.08	C3+ 9.67

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

Static 600' NE = 0.78

10-1 1/2" Anodes Duriron

Stab P/C

40-16 Rectifier

EXTRA CABLE = 159'

Ditch Cable = 399'

DRILLER SAID WATER @ 50'. WATER SAMPLE TAKEN

DRILLED TO 300' WITH 5 5/8" BIT

Logged H/c. DRILLED TO 300' WITH

6 3/4" BIT.

Installed 300' of 1" PVC Vent Pipe

Perforated 260' of 1" PVC Vent Pipe

Slurried STACKS OF COAL

TIME 10 HRS

60	2.1	40	1.6	⑤
	2.1		2.0	
70	2.1	50	2.1	④
	2.1		2.1	
80	1.6	60	2.1	③
	1.2		2.7	
90	1.1	70	3.0	②
	1.1		2.4	
100	1.1	80	2.1	①
	1.2		1.5	
10	1.3	90		
	1.3		2.93	TD.
20	1.4		3.0	
	1.4			
30	1.5			
	1.5			
40	1.5			
	1.5			
50	1.5			
	1.5			
60	2.4	⑩		
	2.7			
70	2.4	⑨		
	1.7			
80	1.3			
	1.2			
90	1.2			
	1.0			
100	1.0			
	1.2			
10	2.4	⑧		
	2.9			
20	2.9	⑦		
	2.2			
30	1.6	⑥		
	1.6			

①	280	2.0	3.3
②	270	2.9	3.7
③	260	1.7	2.4
④	250	1.8	2.5
⑤	240	1.3	1.8
⑥	230	1.5	2.0
⑦	220	2.4	3.3
⑧	210	2.0	2.9
⑨	170	2.2	3.0
⑩	160	2.1	3.8

Volts 11.8

Amps 11.2

Ohms 1.05

140

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

Analysis No. 1-9512 Date 5-17-79

Operator EPNG Well Name SUN RAY C #1-A

Location NW 21-31-9 County SAN JUAN State NM

Field _____ Formation _____

Sampled From CPS 1366W

Date Sampled _____ By _____

Tbg. Press. _____	Csg. Press. _____	Surface Csg. Press _____
ppm	epm	ppm epm

Sodium <u>23</u>	Chloride <u>40</u>	
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Calcium <u>670</u>	Bicarbonate <u>142</u>	
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Magnesium <u>8</u>	Sulfate <u>1575</u>	
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Iron <u>PRESENT</u>	Carbonate <u>0</u>	
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H ₂ S <u>ABSENT</u>	Hydroxide <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

Total Solids Dissolved 2872

PH 7.5

Sp. Gr. 1.0039 at 60°F

Resistivity 335 ohm-cm at 77 °F

Water at 50'

Barnett T. Trevillier
Chemist *PZE*

