

2A = 30-045-22754
250 = 30-045-26915

3548

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit P Sec. 21 Twp 31 Rng 9

Name of Well/Wells or Pipeline Serviced SUNRAY G #2A, #250
cps 2090w

Elevation 6178' Completion Date 8/1/79 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. 96' & 252' SMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 44 SACKS

Depths anodes placed: 290', 280', 270', 260', 250', 195', 185', 165', 155', 145'

Depths vent pipes placed: 300'

Vent pipe perforations: 200'

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)

#250 **CONTRACT #2**

Completion Date **8-1-79**

Well Name SUNRAY G #2-A		Location SE 21-31-9				CPS No. 1367W 2090													
Type & Size Bit Used 6 3/4		10-2" x 60" Duriron				Work Order No. 57260-21													
Anode Hole Depth Less 300 - 300		Total Drilling Rig Time		Total Lbs. Coke Used 44 SACKS		Lost Circulation Mat'l Used 0		No. Sacks Mud Used 0											
Anode Depth																			
# 1	290	# 2	280	# 3	270	# 4	260	# 5	250	# 6	195	# 7	185	# 8	165	# 9	155	# 10	145
Anode Output (Amps)																			
# 1	2.5	# 2	3.3	# 3	3.4	# 4	3.3	# 5	2.8	# 6	3.1	# 7	2.7	# 8	2.7	# 9	3.0	# 10	2.9
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 11.7		Amps 13.2		Ohms 0.89															

Remarks: **Static 600' N = 0.84. Drilled to 100' waited 20 min. Blow water Driller said water @ 96'. More water @ 252'. Both zones 20 Gals per min. Installed 300' of 1" PVC vent pipe Perforated 200' of 1" PVC vent pipe. Slurried 44 sacks of coke.**

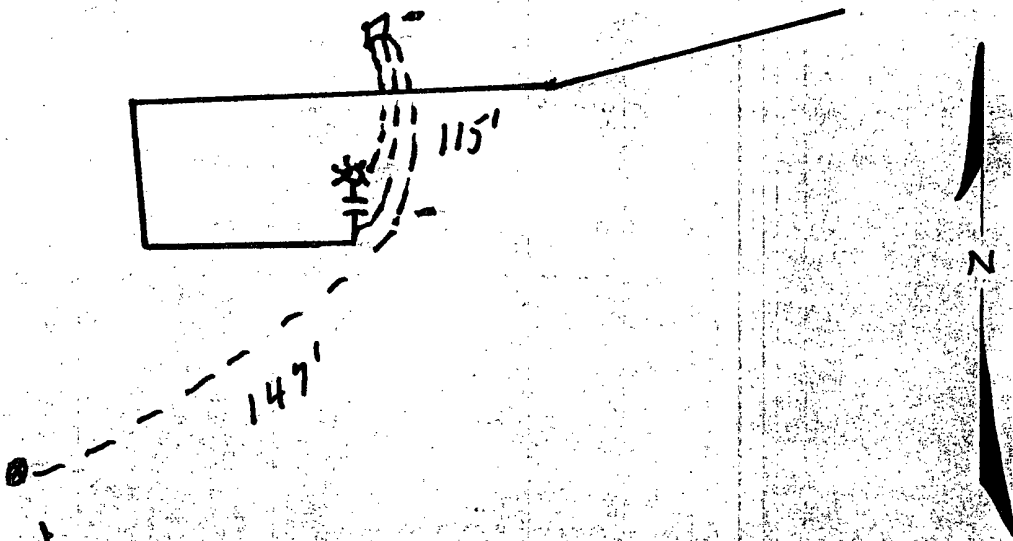
40V 16A Rectifier Extra cable: 250'
Stub Pole Ditch & 10 cable: 262'
Hole credit = -200'

All Construction Completed

W. J. Lewis

(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6678

1367 W

Contract 2

DAILY DRILLING REPORT

LEASE 1367 W WELL NO. CONTRACTOR O'Brien RIG NO. 1 REPORT NO. DATE Aug 1 1979

MORNING

DAYLIGHT

EVENING

Total Men In Crew				Total Men In Crew				Total Men In Crew										
Driller	FROM	TO	FORMATION	WT.-BIT	R.P.M.	Driller	FROM	TO	FORMATION	WT.-BIT	R.P.M.	Driller	FROM	TO	FORMATION	WT.-BIT	R.P.M.	

NO. DC	SIZE	LENG.	NO. DC	SIZE	LENG.	NO. DC	SIZE	LENG.

BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.

TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY

MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
78	78	Sand	150	202	Sandy shale			
78	81	Sandy water	202	252	Sandy shale			
81	96	Sandy shale	252	282	Sandy shale			
96	105	Sandy shale	282	300	Sandy shale			
105	110	Sandy shale						
110	150	Sandy shale						

SIGNED: Toolpusher *Tom O'Brien* Company Supervisor *Kurt Westmoreland*

REMARKS -
 Drilled 300 ft on 6/6/79
 Water 86 + 252
 estimate 209 p.m.
 Logged to 320

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 8-1-99
 Date: 8-1-99
 By: W.F. Lora
 File: _____

SUNRAY #2-A

1367W SE 21-31-9
 CONTRACT #3

57260-21

Static Goo'n = 0.84
 40v 16A Rectifier
 stub Pole
 Hole Credit = -200

EXTRA CABLE = 250'
 Ditch #1 CABLE = 262'
 10-2" X 60" DURI ROW

Drilled to 100' waited 20 min
 Blow water. DRILLER SAID WATER @ 96'
 20 GALS PER MIN. MORE WATER @ 252'
 Installed 300' of 1" PVC vent Pipe
 Perforated 200' of 1" PVC vent Pipe
 Slurried 44 SACKS of COKE

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

100	2.0	50	1.0
	1.9		2.2
10	1.5	60	2.0
	1.1		2.5
20	1.0	70	3.2
	1.0		2.3
30	1.0	80	2.0
	.8		1.9
40	.7	90	1.8
10	1.3		1.7

8-1-99 = 8 HRS

300 TO BE DRILLED

50	2.1	300	
9	1.8		
60	1.6		
8	1.5		
70	1.4		
	1.0		
80	1.1		
10	1.5		
90	1.5		
6	1.7		

1	290	2.1	2.5
2	280	2.6	3.3
3	270	2.7	3.4
4	260	2.6	3.3
5	250	2.2	2.8
6	195	2.2	3.1
7	185	1.8	2.7
8	165	1.8	2.7
9	155	2.0	3.0
10	145	1.9	2.9

Volts 11.7
 AMPS 13.2
 Ohms 0.89

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

200	1.0		
	.7		
10	.7		
	.5		
20	.5		
	.7		
30	.7		
	.6		
40	.5		
	.2		

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

Analysis No. 1-9668 Date 8-14-79

Operator EPNG Well Name SUNRAY G #2A

Location SE21-31-9 County SAN JUAN State NEW MEXICO

Field _____ Formation _____

Sampled From _____

Date Sampled _____ By _____

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

Sodium 115 Chloride 52
 epm epm

Calcium 620 Bicarbonate 195
 epm epm

Magnesium 245 Sulfate 2500
 epm epm

Iron PRESENT Carbonate 0
 epm epm

H₂S ABSENT Hydroxide 0
 epm epm

cc: D.C.Adams
 R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File
 C. B. O'Nan

Total Solids Dissolved 4422

pH 7.4

Sp. Gr. 1.0053 at 60°F

Resistivity 220 ohm-cm at 75 °F

Cheryl Terwilliger
 Chemist

