

#2 30-045-09357

#2-R 30-045-23862

#225 30-045-27067

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 NE Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #2, #2R, #225

cps 2066w

Elevation 6302' Completion Date 8/28/81 Total Depth 485' 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. 185' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 6300 lbs.

Depths anodes placed: 455', 445', 435', 425', 415', 385', 375', 280', 265', 240'

Depths vent pipes placed: 480'

Vent pipe perforations: 320'

Remarks: (gb) #1

RECEIVED
MAY 31 1991
OIL CON.

If any of the above data is unavailable, please indicate. ^{Dist} 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 8-28-81

Well Name <u>Sunray D#2R #2</u>		Location <u>NE 21-30-10</u>		CPS No. <u>1575-W 2066</u>	
Type & Size Bit Used <u>6 3/4" 2" X 160" Duriron anodes</u>				Work Order No. <u>57731-21-50-20</u>	
Anode Hole Depth <u>Drilled 485' logged 485'</u>		Total Drilling Rig Time <u>Approx. 6,300 lbs Bulk</u>		Total Lbs. Coke Used <u>6,300 lbs Bulk</u>	
Anode Depth		Total Drilling Rig Time		Total Lbs. Coke Used	
# 1	455	# 2	445	# 3	435
# 4	425	# 5	415	# 6	385
# 7	375	# 8	280	# 9	265
# 10	240				
Anode Output (Amps)		Total Drilling Rig Time		Total Lbs. Coke Used	
# 1	3.70	# 2	4.07	# 3	4.07
# 4	4.47	# 5	4.50	# 6	2.86
# 7	3.50	# 8	3.31	# 9	4.70
# 10	2.16				
Anode Depth		Total Drilling Rig Time		Total Lbs. Coke Used	
# 11	12	# 12	13	# 13	14
# 14	15	# 15	16	# 16	17
# 17	18	# 18	19	# 19	20
Anode Output (Amps)		Total Drilling Rig Time		Total Lbs. Coke Used	
# 11	12	# 12	13	# 13	14
# 14	15	# 15	16	# 16	17
# 17	18	# 18	19	# 19	20
Total Circuit Resistance		Total Drilling Rig Time		Total Lbs. Coke Used	
Volts	11.8	Amps	19.6	Ohms	.60Ω
No. 8 Z.P. Cable Used		No. 2 Z.P. Cable Used			

Remarks: Static R_s = -.79 600' E 718 mat union OK Driller said water @ 185'. Blew water from hole next a.m. on 2nd Day of Drilling. Drilled to 485'; Logged 485'. Installed 480' of 1" Pvc vent pipe with 320' perforated. Slurried 6,300 lbs Bulk Coke Down hole.

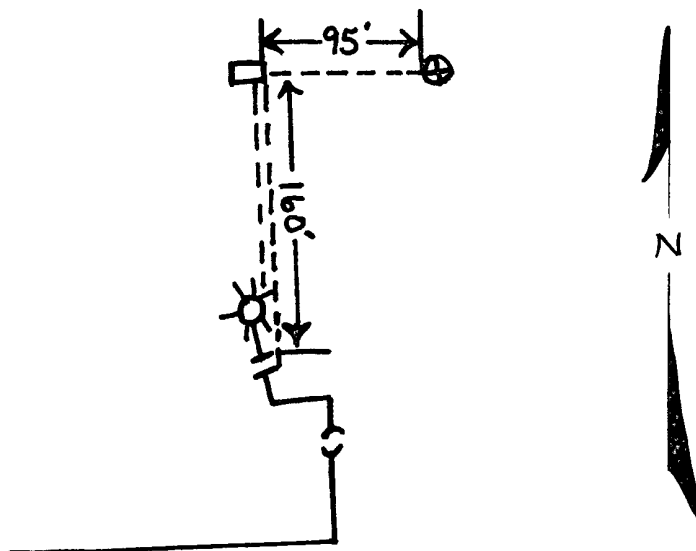
Hole Depth = 75' ✓
Extra Cable = 180' ✓
Ditch Cable = 255' ✓
20' meter pole ✓
40-16 ✓
8 hrs Reg. ✓
2 hrs O.T. ✓

All Construction Completed

C. W. Donahue
(Signature)

GROUND BED LAYOUT SKETCH

6300



DISTRIBUTION:

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

DAILY DRILLING REPORT

CPS 1575-A Sun Ray D#2-R

LEASE

WELL NO.

CONTRACTOR

Story Drilling

RIG NO. 1

REPORT NO.

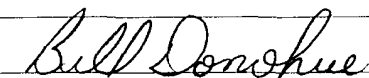
DATE 8-28-81 19

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
0	10	OB			300	350	SS							
10	185	SS			350	390	Sh							
185	200	SS w/sh			390	405	SS							
200	300	Sh			405	485	Sh							
BIT NO.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.		
SL AL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		MUD RECORD			MUD, ADDITIVES USED AND RECEIVED	
Time	Wt.	Vis.			Time	Wt.	Vis.			Time	Wt.	Vis.		
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN		
REMARKS -					REMARKS -					REMARKS -				
Water at 185														
logged 485														
T.D. 485														

SIGNED: Toolpusher



Company Supervisor



Sunray D #2R
WD# 57731-21-50-20

NE 21-30-10

Static k/c = .79 600' E 718ma⁺ union OK

CPS 1575

Driller sa. d water @ 185'. Blew
water from hole next Am. on 2nd
day of Drilling. Drilled to 485'. Logged
485'.

MW	gals/mol
16 04	C1 6 4
30 07	C2 10 12
44 10	C3 10 42
58 12	C4 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

mp

40-16

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

100	200	300	400	
	.92	.90	.48	
	.80	.60	.53	
10	10	10	10	1.59
	1.09	.90	1.59	
	1.46	.99	2.17	①
20	20	20	20	2.14
	1.08	.72	2.14	
	1.06	.69	2.25	④
30	30	30	30	2.13
	1.05	.72	2.13	
	1.15	.68	2.20	③
40	40	40	40	2.17
	1.25	.50	2.17	
	1.12	.60	2.19	②
50	50	50	50	2.38
	.74	.70	2.38	
	.97	1.02	1.95	①
60	60	60	60	1.66
	1.92	.99	1.66	
	2.21	1.13	1.68	
70	70	70	70	1.60
	1.93	1.51	1.60	
	1.55	1.70	1.36	485 T.D
80	80	80	80	
	.71	1.27	1.65	
Stat. c water	.70	1.12	1.39	①
90	90	90	90	
	.71	1.07	1.00	
	.85	1.08	.84	

volts = 11.8

amps = 19.6

ohms = .60 Ω

①	455	3.01	3.70
②	445	3.35	4.07
③	435	3.40	4.07
④	425	3.39	4.47
⑤	415	3.05	4.50
⑥	385	2.03	2.86
⑦	375	2.50	3.50
⑧	280	2.04	3.31
⑨	265	3.54	4.70
⑩	240	1.56	2.16

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

Analysis No. 1-10330 Date 9-21-81

Operator El Paso Natural Gas Well Name Sun Ray #2R CPS 1575 W

Location NE 21-30-10 County San Juan State New Mexico

Field Blanco Formation _____

Sampled From 185'

Date Sampled 8-28-81 By Bill Donohue

Tbg. Press. _____	Csg. _____	Surface Csg. Press. _____
Sodium <u>161</u> ppm	<u>7.0</u> epm	Chloride <u>20</u> ppm
Calcium <u>568</u>	<u>28.4</u>	Bicarbonate <u>200</u>
Magnesium <u>59</u>	<u>4.9</u>	Sulfate <u>1,750</u>
Iron _____	_____	Carbonate <u>0</u>
H ₂ S _____	_____	Hydroxide <u>0</u>
cc: R. A. Ullrich		Total Solids Dissolved <u>2,660</u>
E. R. Paulek		pH <u>7.4</u>
J. W. McCarthy		Sp. Gr. <u>1.0215</u> At _____
J. D. Evans		Resistivity <u>385</u> ohm-cm at _____
W. B. Shropshire		
D. C. Adams		
File _____		

Joe P. Barnett & Dennis P. Bird
Chemist

