

#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 SINRAY D #2, #2R, #225

CDS 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. 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 Sunray D#2R #2		Location NE 21-30-10		CPS No. 1575-W 2066	
Type & Size Bit Used 6 3/4" 2" X 60" Duriron anodes		Work Order No. 57731-21-50-20			
Anode Hole Depth Drilled 485' logged 485'		Total Drilling Rig Time Approx. 6,300 lbs Bulk		Lost Circulation Mat'l Used	
No. Sacks Mud Used					
Anode Depth	1	2	3	4	5
1	455	2	445	3	435
Anode Output (Amps)	1	2	3	4	5
1	3.70	2	4.07	3	4.07
Anode Depth	11	12	13	14	15
11		12		13	
Anode Output (Amps)	11	12	13	14	15
11		12		13	
Total Circuit Resistance	Volts 11.8		Amps 19.6		Ohms .60Ω
No. 8 C.P. Cable Used		No. 2 C.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.

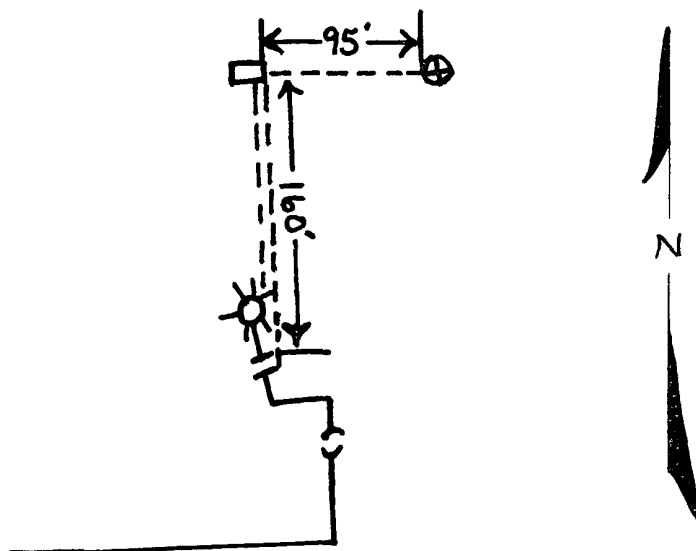
Hole Depth = 15' ✓
Extra Cable = 180' ✓
Ditch Cable = 255' ✓
20' meter pole ✓
40-16 ✓
8 hrs Req. ✓
2 hrs O.T. ✓

All Construction Completed

C. W. Donohue
(Signature)

GROUND BED LAYOUT SKETCH

6300



DISTRIBUTION:

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

DAILY DRILLING REPORT

CPS 1525-A Sun Ray D^N 2-R
LEASE WELL NO. CONTRACTOR

Core 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 RL = -79 600'E 718ma⁺ union OK

CPS 1575

Driller saw 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	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

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	
	1.09	.90	1.59	
	1.46	.99	2.17	⑤
20	20	20	20	
	1.08	.72	2.14	
	1.06	.69	2.25	④
30	30	30	30	
	1.05	.72	2.13	
	1.15	.68	2.20	③
40	40	40	40	
	1.25	.50	2.17	
	1.12	.60	2.19	②
50	50	50	50	
	.74	.70	3.38	
	.97	1.02	1.95	①
60	60	60	60	
	1.92	.99	1.66	
	2.21	1.13	1.68	
70	70	70	70	
	1.93	1.51	1.60	
	1.55	1.70	1.36	485 T.D
80	80	80	80	
	.71	1.27	1.65	
Static water	.70	1.12	1.39	⑥
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

EL 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.
ppm	epm	ppm
Sodium <u>161</u>	<u>7.0</u>	Chloride <u>20</u>
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
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

Total Solids Dissolved 2,660

pH 7.4

Sp. Gr. 1.0215 At 60°F

Resistivity 385 ohm-cm at 75 °F

Joe P. Barnett & Dennis P. Bird
Chemist

