

1283

E

30-045- 23831

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

Operator MERIDIAN OIL Location: Unit SE Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #2A

cps 1574w

Elevation 6271' Completion Date 8/31/81 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

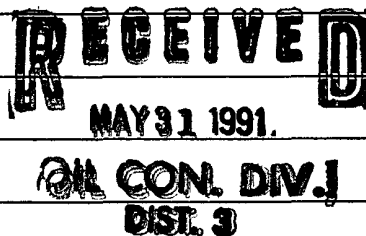
Type & amount of coke breeze used: 5820 lbs.

Depths anodes placed: 460', 450', 440', 430', 420', 410', 400', 390', 380', 350'

Depths vent pipes placed: 485',

Vent pipe perforations: 320'

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). ☐

2X 60 ANODES

Completion Date 8-31-81

Well Name SUNRAY D#2 A		Location SE21-30-10		CPS No. 1574-W	
Type & Size Bit Used 6 3/4"				Work Order No. 57678-21	
Anode Hole Depth 485' 1099ed 485'	Total Drilling Rig Time	Total Lbs. Coke Used 5820	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 460	# 2 450	# 3 440	# 4 430	# 5 420	# 6 410
# 7 400	# 8 390	# 9 380	# 10 350		
Anode Output (Amps)					
# 1 4.8	# 2 3.1	# 3 5.5	# 4 6.2	# 5 6.6	# 6 6.3
# 7 4.8	# 8 6.3	# 9 4.5	# 10 3.0		
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					
Volts 11.9	Amps 22.2	Ohms .53			
No. 9 C.P. Cable Used			No. 12 C.P. Cable Used		

Remarks: **STATIC 600' SW .80 UNIONS OK**

DRILLER SAID HIT WATER AT 185' GOT WATER SAMPLE.

**INSTALLED 485' of 1" VENT PIPE, PERFORATED 320' of VENT PIPE
SLURRIED 5820 LBS of COKE DREZZE**

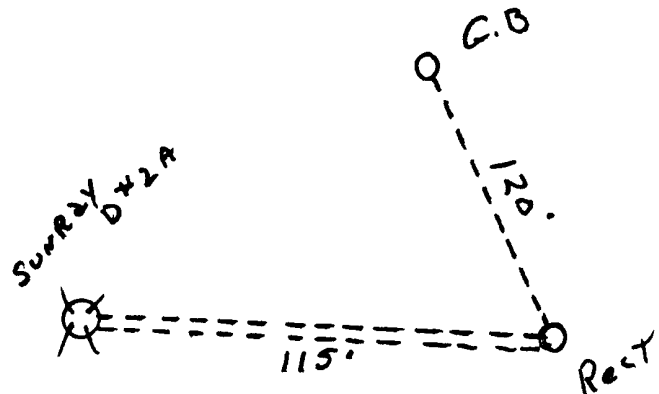
**1 LUDV 16A RECT. ✓
1 STUB POLE ✓
DITCH + 1 cable - 235' ✓
EXTRA cable - 135' ✓
Hole DEPTH - 15' ✓
SET 20' CASING - 1 hr. ✓**

All Construction Completed

William Lought Jr.
(Signature)

GROUND BED LAYOUT SKETCH

Time	Req	O.T.
8-31-81	8	1 ✓
9-2-81	8	1 ✓



DISTRIBUTION:

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

6271

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet 2 of 3
Date 8-31-8
By. WK
File _____

SUNRAY D #2 A
SE 21-30-10
CPS 1574 W

STATIC 600' SW 180
W/O 57678-21

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	9.64
42.08	C ₃	9.67

MW	MISC	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

1 40V 16A Rect.
1 Stub Pole
Ditch + 1 cable - 235'
EXTRA cable - 135'
Hole Depth - 15'
Set 20' of casing - 1 hr.

DRILLER SAID HIT WATER AT
185' GOT WATER SAMPLE
INSTALLED 485' OF 1" VENT PIP
PERFORATED 320' OF VENT PIP
SHIPPED 5820 lb of COKE

185	30	35	30
90	1.10	40	1.00
95	1.20	45	1.30
200	1.00	50	1.20 ⑩
05	1.00	55	1.00
10	.90	60	.80
15	.80	65	.50
20	.90	70	.80
25	.70	75	.70
30	.50	80	1.10 ⑨
35	.30	85	1.60
40	.30	90	1.40 ⑧
45	.40	95	1.60
50	.60	100	1.60 ⑦
55	1.00	05	1.60
60	1.20	10	1.60 ⑥
65	.90	15	1.60
70	.80	20	1.50 ⑤
75	.70	25	1.60
80	.60	30	1.70 ④
85	.60	35	1.60
90	.60	40	1.70 ③
95	.60	45	1.50
100	.80	50	1.20 ②
05	.80	55	1.40
10	.70	60	1.70 ①
15	.70	65	1.60
20	.80	70	1.60
25	.50	75	1.90
30	.30	80	1.90
		85	1.5 TD

① 460	3.6	4.80
② 450	2.0	3.10
③ 440	3.5	5.50
④ 430	3.9	6.20
⑤ 420	3.5	6.60
⑥ 410	3.60	6.30
⑦ 400	3.20	4.80
⑧ 390	3.50	6.30
⑨ 380	2.80	4.50
⑩ 350	2.10	3.00

11.9 V
22.2 A
.53 n

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

Analysis No. 1-10322 Date 9-18-81

Operator El Paso Natural Gas Well Name Sun Ray D #2A CFS 1574 W

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

Field Kutz Formation _____

Sampled From 185'

Date Sampled 8-31-81 By Willie Knight

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

Sodium	ppm 378	epm 16.4	Chloride	ppm 20	epm 0.6
--------	------------	-------------	----------	-----------	------------

Calcium	564	28.2	Bicarbonate	356	5.8
---------	-----	------	-------------	-----	-----

Magnesium	39	3.2	Sulfate	2,000	41.6
-----------	----	-----	---------	-------	------

Iron	No test		Carbonate	0	0
------	---------	--	-----------	---	---

H ₂ S	No test		Hydroxide	0	0
------------------	---------	--	-----------	---	---

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

Total Solids Dissolved 2,852

pH 7.5

Sp. Gr. 1.0055 At 60°F

Resistivity 333 ohm-cm at 75 °F

HCO₃ taken to pH 4.0

Joe P. Barnett & Dennis P. Bird
Chemist

JWS

