

2A-30-045-22797

5-30-045-21172

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. 5 Twp 29 Rng 8

Name of Well/Wells or Pipeline Serviced SUNRAY #2A, #5

cps 1364w

Elevation 6394' Completion Date 4/30/79 Total Depth 520' 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. 60' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 60 SACKS

Depths anodes placed: 435', 425', 240', 230', 220', 210', 190', 180', 170', 155'

Depths vent pipes placed: 435'

Vent pipe perforations: 375'

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). ☐

CONTRACT #1

Completion Date 4-30-79

Well Name SUNRAY #2A SUNRAY #5		Location SE5-29-8		CPS No. 1364 W	
Type & Size Bit Used 6 3/4				Work Order No. 57267-21 55289-21	
Anode Hole Depth 520' 1099ed 508'	Total Drilling Rig Time	Total Lbs. Coke Used 60 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 435'	# 2 425'	# 3 240'	# 4 230'	# 5 220'
	# 6 210'	# 7 190'	# 8 180'	# 9 170'	# 10 155'
Anode Output (Amps)	# 1 2.7	# 2 2.8	# 3 2.6	# 4 2.4	# 5 2.7
	# 6 2.4	# 7 3.5	# 8 4.3	# 9 3.8	# 10 5.2
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 10.9		Amps 12.8		Ohms .85
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

Remarks: DRILLER said wet at 60', waited 20 min. Blew water, making APPROX 3 gpm. Installed 435' of 1" VENT PIPE, Perforated 375 of VENT PIPE. Installed 10 1 1/2 X 60 ANODES Slurried 60 sacks of COKE Breeze

SUNRAY #2A STATIC 600 SW .85

SUNRAY #5 STATIC 600' E .85

1 20' meter Pole -

1 40V 16A Rect

Ditch + 1 cable 292'

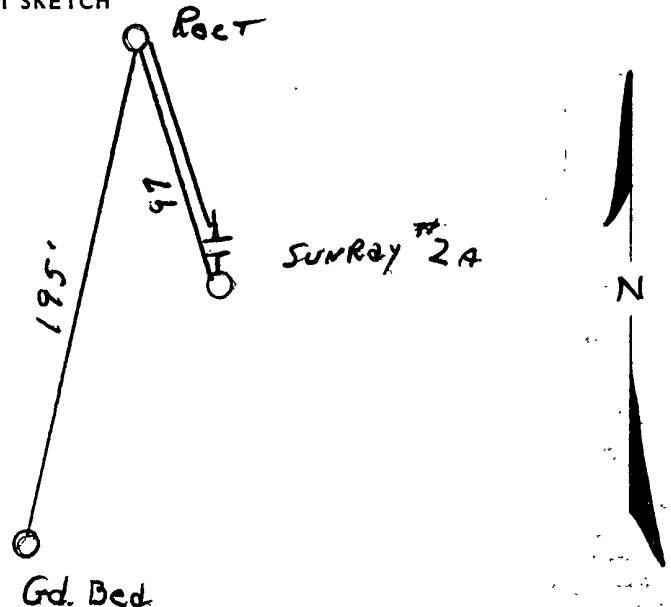
EXTRA cable 115'

Hole Depth +8'

All Construction Completed

Willie Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6394

LEASE C.F.S. 1364 W WELL NO. 1 CONTRACTOR Courtesy Contracting RIG NO. W-2 REPORT NO. DATE 4-30-79 19

DAYLIGHT

EVENING

Driller **WINSON**

Total Men In Crew 2

Driller

Total Men In Crew

Driller

Total Men In Crew

500 520	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. _____
SEL. NO. _____	STANDS _____	SERIAL NO. _____	STANDS _____	SERIAL NO. _____	STANDS _____
SIZE 6 3/4	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 _____

[illegible]

REMARKS - TD 520'
Loy 508'

REMARKS -

REMARKS -

H₂O - 60' 39pm
20 min.

SIGNED: Toolpusher

Company Supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
Date: 4-30-77
By: _____
File: _____

SUNRAY # 2A
SE 5-29-8
W/D 57267-21
CPS 1364 W

SUNRAY # 5
SE 5-29-8
W/D 55289-21

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

SUNRAY # 2A STATIC 600' SW .85
SUNRAY # 5 STATIC 600' E .85
T.D 520'
logged 508'

1 20' METER Pole
1 40V 16A RECT
DITCH + 1 cable
EXTRA cable
Hole Depth + 8'

80	.4	55	.8	30	2.2
85	.4	60	.7	35	1.9 ①
90	.4	65	.6	40	.9
95	.5	70	.6	45	.7
100	.6	75	.6	50	.7
05	.7	80	.6	55	.7
10	.7	85	.6	60	.7
15	.8	90	.7	65	.8
20	.8	95	.9	70	.8
25	.9	300	.9	75	.8
30	1.0	05	.7	80	.8
35	1.0	10	.6	85	1.0
40	.6	15	.6	90	1.4
45	2.9	20	.6	95	2.4
50	3.1	25	.6	500	2.4
55	3.2 ⑩	30	.6		
60	3.3	35	.6		
65	3.0	40	.6		
70	2.4 ⑨	45	.6		
75	1.9	50	.6		
80	2.2 ⑧	55	.7		
85	2.3	60	.7		
90	2.1 ⑦	65	.7		
95	1.1	70	.7		
200	.8	75	.6		
05	.8	80	.7		
10	1.2 ⑥	85	.7		
15	1.4	90	.7		
20	1.4 ⑤	95	.7		
25	1.3	400	.7		
30	1.2 ④	05	.7		
35	1.2	10	.7		
40	1.2 ③	15	.9		
45	1.2	20	1.8		
50	1.0	25	2.2 ②		

DRILLER SAID HIT WATER @ 60'
waited 15min. Blew WATER
DRILLED TO 320'. logged hole NO
Readings. mudded up + DRILLING,
losing some CIRCULATION.

INSTALLED 435' 1" VENT PIPE
PERFORATED 375' OF VENT PIPE
SLURRIED 60 SACK COKE
BREEZE

4-27-79 8hr
4-30-79 13hr

① 435	2.7
② 425	2.8
③ 440	2.6
④ 230	2.4
⑤ 220	2.7
⑥ 210	2.4
⑦ 190	3.5
⑧ 180	4.3
⑨ 170	3.8
⑩ 155	5.2

109 V 12.8 A .85 n

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

Analysis No. 1-9583 Date 7-5-79

Operator EPNG Well Name SUNRAY # 2A

Location SE 5-29-8 County SAN JUAN State NM

Field _____ Formation _____

Sampled From CPS #1364W

Date Sampled _____ By _____

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

Sodium <u>138</u>	Chloride <u>28</u>		
<u>6</u>	<u>1</u>		

Calcium <u>93</u>	Bicarbonate <u>224</u>		
<u>5</u>	<u>4</u>		

Magnesium <u>19</u>	Sulfate <u>388</u>		
<u>2</u>	<u>8</u>		

Iron <u>PRESENT</u>	Carbonate <u>0</u>		
	<u>0</u>		

H ₂ S <u>ABSENT</u>	Hydroxide <u>0</u>		
	<u>0</u>		

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

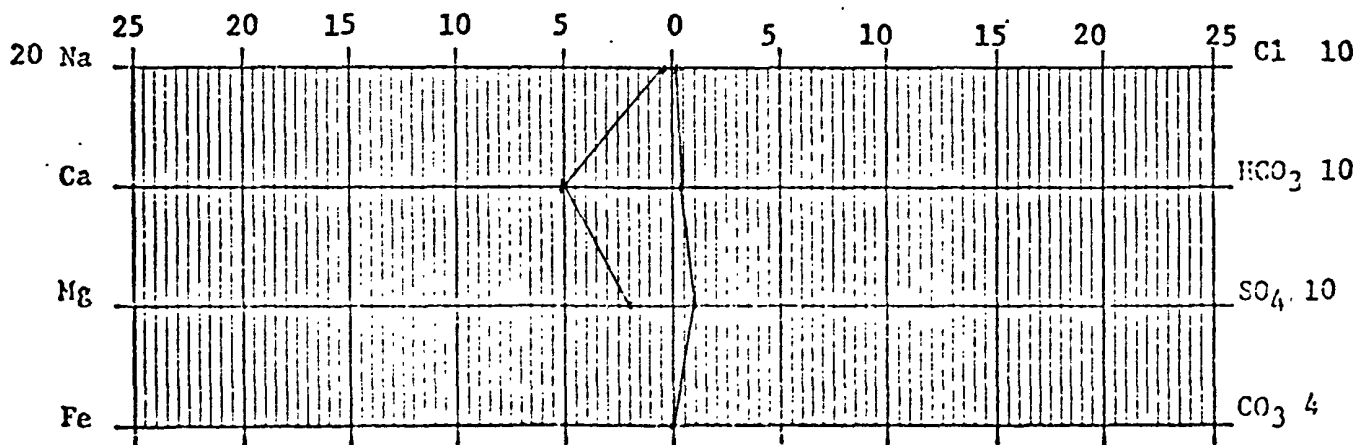
Total Solids Dissolved 954

pH 8.3

Sp. Gr. 1.0020 at 60°F

Resistivity 800 ohm-cm at 70°F

Christ Terwilliger RZE
Chemist



Scale: ppm