1205

B #1-A 30-045-23166

A #3 30-045-20783

E

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

Operator MERIDIAN OIL Location: Unit NW Sec. 15 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY B #1A, SUNRAY A #3

cps 1469w

Elevation 6455' Completion Date 9/12/80 Total Depth 405' 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' & 200' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3500 lbs.

Depths anodes placed: 365', 355', 345', 330', 320', 310', 300', 255', 245', 235'

Depths vent pipes placed: 400'

Vent pipe perforations: 320'

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.

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto). ☐ 2"X60" Duriron Completion Date 9-12-80

Well Name	Location	CPS No.
Sunray B #1A & A #3	NW 15-30-10	1469W

Type & Size Bit Used	Work Order No.
6 3/4 Rock	57473-21 & 54844-19

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
405 Log 405		3500		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	365	355	345	330	320	310	300	255	245	235
Anode Output (Amps)	2.5	2.9	2.1	2.4	3.3	3.7	2.7	3.0	3.4	3.6
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)										

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.1	Amps 14.8	Ohms .82		

Remarks: STATIC % 600' E = .80 u-good (1A) & ST% = .84 u-good (#3)
Driller SAID WATER AT 200' CAUGHT WATER SAMPLE Drilled TO 400' HOLE CAVED while DRILLING WENT IN & CLEANED HOLE CAVED AGAIN DRILLED SECOND hole WITH MUD TO 405' Log 405' INST 400' VENT PIPE WITH 320' PERF. SLURRIED 35 SACKS OF coke

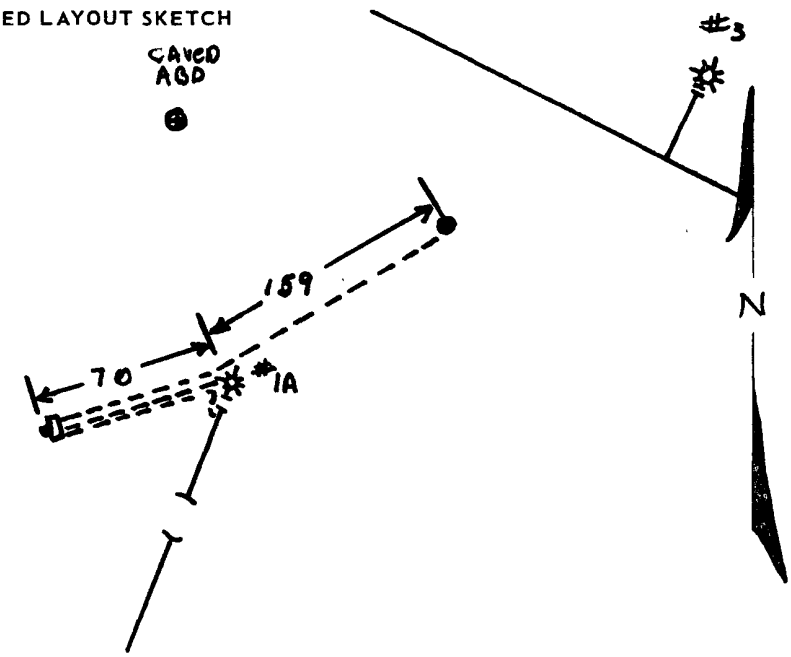
STUB POLE ✓
60V 30A RECT ✓
HOLE DEPTH = -95 ✓
DITCH & CABLE = 229 ✓
EXTRA CABLE = 170 ✓

TIME	REG	O.T.
9-10-80	8	1
9-11-80	8	
9-12-80	8	5

All Construction Completed

Robert J Babnick
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:
WHITE – Division Corrosion Office
YELLOW – Area Corrosion Office
PINK – Originator File

6455

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

B #1A
A #3

Sunray — LEASE — NW 15-30-10 — WELL NO. — Three C Drilling — CONTRACTOR — 2 — RIG NO. — CPS 1469 W — REPORT NO. 5473-21 5484-19 — DATE Sept 12 — 1980

MORNING

Driller: Kevin Burge — Total Men In Crew: 3

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	100	sandstone watersand shale		
100	120	bentonite		
120	160	sandstone watersand		
160	260	shale		

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO. ____
SER. NO. ____
SIZE 6 3/4
TYPE ____
MAKE ____
STANDS ____
SINGLES ____
DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
260	300	sandstone
300	370	shale
370	405	sandstone

REMARKS – Water at 60' & 200 7pm logged 405

DAYLIGHT

Driller: ____ — Total Men In Crew: ____

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO. ____
SERIAL NO. ____
SIZE ____
TYPE ____
MAKE ____
STANDS ____
SINGLES ____
DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller: ____ — Total Men In Crew: ____

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO. ____
SERIAL NO. ____
SIZE ____
TYPE ____
MAKE ____
STANDS ____
SINGLES ____
DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Kevin Burge — Company Supervisor ____

Form 7-1 (Rev 9-77)

El Paso Natural Gas Company

ENGINEERING CALCULATION

Sheet: 1 of 1
Date: 9-10-80
By: RJB
File: 1469W

1469W Sunray B #1A NW15-30-10 57473-21 St%E = .80 u = good
Sunray A #3 54844-19 S+4s = .84 u = ok

time 9-10 = (
9-11 = 8
9-12 = 1

Stub Pole 60V30A Rect

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

MISC MW		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_2S	5 17
28.01	N_2	4.16
2 02	H_2	3 38

		100	1.4	310	3.0–
200	2.0		1.0		2.7
	1.8	10	.8	20	2.5–
10	1.8		1.2		2.1
	2.0	20	2.1	30	1.8–
20	1.9		1.0		1.6
	1.8	30	.6	40	1.5
30	1.8		.5		1.7–
	1.7	40	.6	50	1.7
40	1.7		.7		2.3–
	1.5	50	.8	60	2.3
50	.6		.7		2.0–
	.2	60	.7	70	.9
60	.1		.8		.9
	.2	70	.7	80	1.0
70	.2		.8		.9
	.3	80	1.1	90	.8
80	.3		1.2		—
	.2	90	1.5	400	
90	1.0		1.7		—
	1.6	200	2.4		
300	1.7		2.9		
	2.0	10	2.6		
10	2.0		2.8		
	1.8	20	2.9		
20	1.5		3.1		
	1.3	30	2.6		
30	1.1		3.0–		
	1.3	40	2.7		
40			2.5–		
		50	2.5		
50			2.3–		
		60	1.4		
60			.9		
		70	.8		
70			.4		
		80	.5		
80			.6		
		90	.4		
90			1.1		
		300	2.3–		
400			2.7		

Driller said water at 200'
caught water sample Drilled
400 Logged 340. ~~Inst ft~~
~~of vent pipe with ft perf.~~
First hole caved in went
back in hole blew out a lot
of sand Logged again
Logging anode stopped
at 250' moved over to
Drill second hole with
mud drilled 405 Logged
405. Inst 400' vent pipe
with 320' perf.
slurried 35 sacks coke

① 365 – 1.9 – 2.5
② 355 – 2.2 – 2.9
③ 345 – 1.5 – 2.1
④ 330 – 1.7 – 2.4
⑤ 320 – 2.5 – 3.3
⑥ 310 – 2.7 – 3.7
⑦ 300 – 1.9 – 2.7
⑧ 255 – 2.3 – 3.0
⑨ 245 – 2.5 – 3.4
⑩ 235 – 2.8 – 3.6

12.1 V 14.8 A = .82 ohms

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

Analysis No. 1-10062 Date 12-2-80

Operator El Paso Natural Gas Well Name Sunray B #1A

Location NW 15-30-10 County San Juan State New Mexico

Field Kutz Formation

Sampled From CPS 1469-W @200'

Date Sampled 9-10-80 By Robert Babnick

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	54	2.4	Chloride	24	0.7
Calcium	276	13.8	Bicarbonate	120	2.0
Magnesium	76	6.3	Sulfate	950	19.8
Iron			Carbonate	0	0
H_2S			Hydroxide	0	0

Total Solids Dissolved 1774

pH 8.0

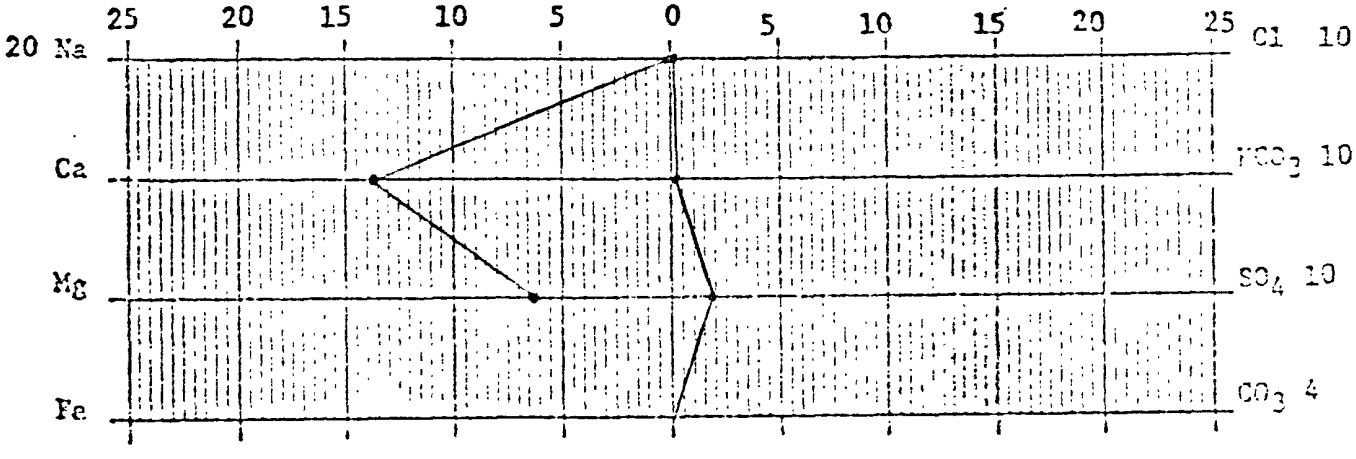
Sp. Gr. .9954 At 60°F

Resistivity 455 ohm-cm at 77°F

Dennis Bird
Chemist

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

JPB



Scale: epm