1393

77A - 30-039-21919

514 - 30-039-26334

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 SE Sec. 33 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #77A, #514

cps 1620w

Elevation 6227' Completion Date 7/28/81 Total Depth 526' 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. 180' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5000 lbs.

Depths anodes placed: 500', 490', 480', 460', 450', 415', 405', 395', 350', 300'

Depths vent pipes placed: 520'

Vent pipe perforations: 380'

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). ☐ Completion Date 7-28-81

Well Name	Location	CPS No.
S.J. 29-7 #77A, #514	SE 33-29-7	1620W

Type & Size Bit Used		Work Order No.
6 3/4 mill tooth	ANODES = 2" x 60" DURIRON	57949-21-50-20-

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
526 Log 526		APPROX 5000		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	500	490	480	460	450	415	405	395	350	300
Anode Output (Amps)	1.8	1.8	1.8	2.0	2.1	1.9	1.9	2.7	2.6	2.2
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				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.2	Amps 11.0	Ohms 1.1			

Remarks: STATIC Ys 600'E = .85 – 290MA+ UNION= OK

Damp 15 FT Drilled 165 WAited No water very Damp 180' Drilled 185 WAited Wet cuttings. caught water sample Next AM. Picked up so much water by 400' cutting samples were mixed. DRILLED to 526' Logged 526' INST 520' vent pipe with 380 FT perF. Slurried Approx 5000 Lbs bulk coke. Total water Approx 80 GPM.

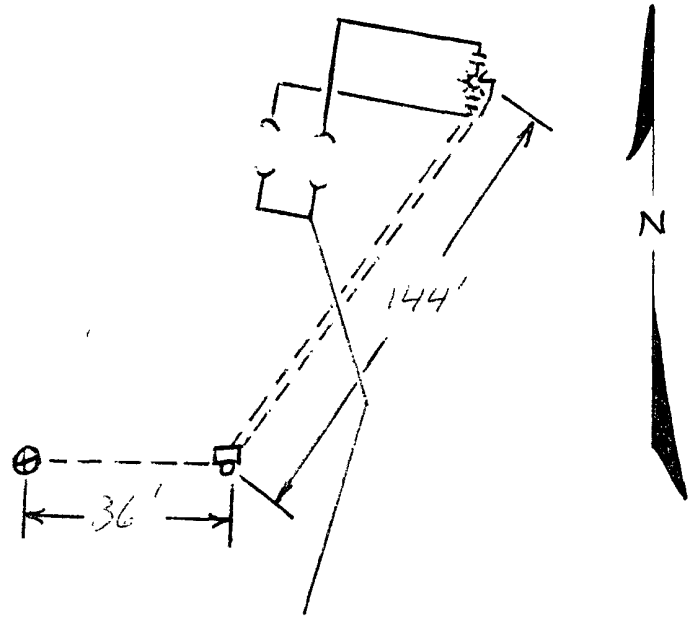
Hole depth = +26 ✓
extra cable = 164' ✓
Ditch & cable = 180' ✓
STUB Pole ✓
480V 16A Rect ✓

All Construction Completed

Robert J Bohm
(Signature)

	Reg.	O.T.
7-28	8	3

GROUND BED LAYOUT SKETCH



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

4227

Form 7-354 (Rev 11-77)

EL PASO NATURAL GAS COMPANY

Sheet 1 of 1
Date: 7-28-81
By: RJB

1620W SE 33-29-7
SAN JUAN 29-7 #77A 57949-21-50-20
STATIC 6/8 600'E = .85 20MAT UNION = OK

7-28-81 11 hrs

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

180	.7	360	.6		DAMP AT 150 FT DRILLED 165
	.6		.6		WAITED 1/2 HR WATER VERY DAMP
90	.6	70	.6		180' DRILLED 185' 2 FT IN SHALE
	.6		.6		WATER SAMPLE NEXT AM
200	1.0	80	.6		PICKED UP SO MUCH WATER
	1.2		.6		BY 400' CUTTINGS SAMPLES
10	.9	90	.7	.83	BECAME MIXED 5 SPACES
	.9		1.1	1.6—8	185 TO 400' @ 400—525
20	1.0	400	1.1	1.3	INST 520 FT VENT PIPE
	.3		.8	1.0—7	WITH 380 FT PERF.
30	.4	10	.7	.94	SLURRIED APPROX 5000
	.4		.8	.96—6	LBS COKE.
40	.5	20	.7	.91	
	.5		.7	.84	
50	.5	30	.6	.76	
	.5		.6	.80	
60	.6	40	.6	.79	
	.7		.7	.83	
70	.6	50	.8	1.0—5	
	.5		.8	1.0	
80	.6	60	.8	1.0—4	
	.6		.7	.85	
90	.6	70	.7	.88	
	.7		.7	.90	
300	.8	80	.8	.94—3	
	.7		.8	.89	
	.7	90	.8	.92—2	
	.7		.8	.91	
20	.6	30	.8	1.0—1	
	.6		.7		
30	.6	10	.7		
	.7		.8		
40	.8	0	.8	1.0—0	
	1.0—9				
50	1.3				
	.9				

STUB 4076

① 500 — 1.08 - 1.8
② 490 — 1.01 - 1.8
③ 480 — 1.00 - 1.8
④ 460 — 1.00 - 2.0
⑤ 450 — 1.12 - 2.1
⑥ 415 .92 - 1.7
⑦ 405 .94 - 1.9
⑧ 395 1.62 - 2.7
⑨ 350 - 1.33 - 2.6
⑩ 300 - 1.24 - 2.2

2.2 V @ 1.0A = 1.1 ohms

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

Analysis No. 1-10314 Date 8-5-81

Operator EPNG Well Name S.J. 29-7 #77A CPS 1620 W

Location SE 33-29-7 County Rio Arriba State New Mexico

Field Blanco Formation

Sampled From 185'

Date Sampled 7-28-81 By Robert J. Babnick

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	432	18.8	Chloride	45	1.3
Calcium	328	16.4	Bicarbonate	162	2.7
Magnesium	25	2.1	Sulfate	1600	33.3
Iron	Absent		Carbonate	0	0
H_2S	Absent		Hydroxide	0	0

Total Solids Dissolved 2,592

pH 7.85

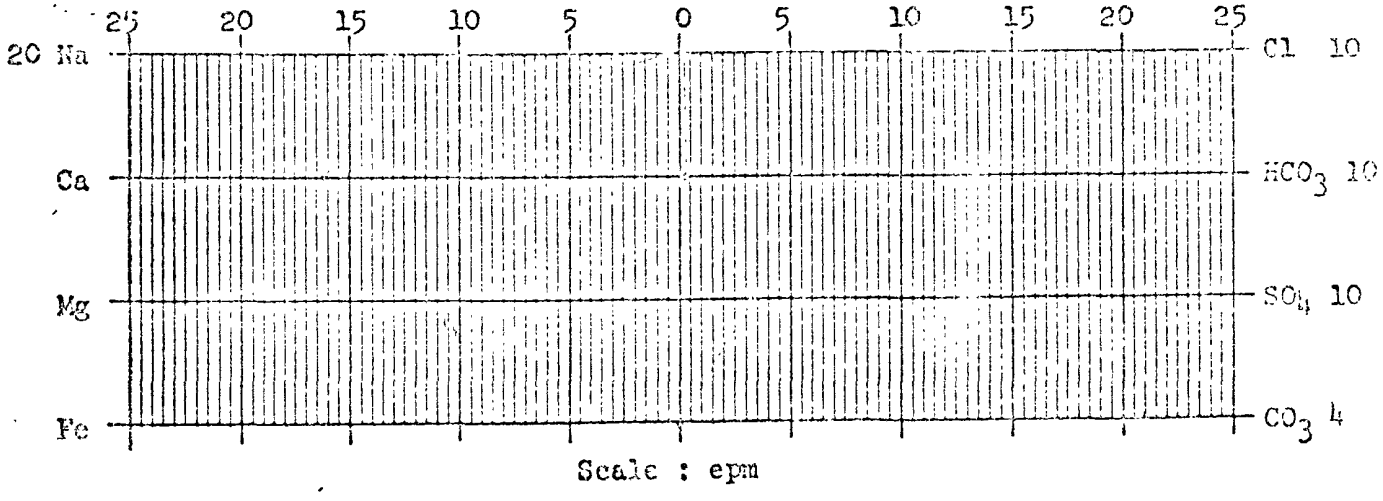
Sp. Gr. 1.0044 At 60°F

Resistivity 286 ohm-cm at 74°F

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

Chemist

RZL



Scale : epm

Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE CPS 1620 W WELL NO. 5529-7 #77 A CONTRACTOR Stony Drilling RIG NO. REPORT NO. DATE 7-28-81 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	10	OB		
10	185	SS w/sh		
185	195	SS		
195	205	Sh		

NO. DC SIZE LENG.

BIT NO.

NO. DC SIZE LENG.

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

Water at 180

Logged 526

TD 526

Hole making 80 gal per min.

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
205	215	SS w/sh		
215	335	SS		
335	340	Sh		
340	390	SS		

NO. DC SIZE LENG.

BIT NO.

NO. DC SIZE LENG.

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

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.
390	400	Sh		
400	526	Mixed Cuttings		

NO. DC SIZE LENG.

BIT NO.

NO. DC SIZE LENG.

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Al Stony Company Supervisor