

984

30-039-21631

8

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. 24 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #71A

cps 1407w

Elevation 6247' Completion Date 9/19/79 Total Depth 460' 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: 53 SACKS

Depths anodes placed: 410', 390', 380', 370', 330', 320', 255', 245', 235', 225'

Depths vent, pipes placed: 445'

Vent pipe perforations: 260'

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

CONTRACT #2
(2" X 60" Durion)

Completion Date 9/19/79

Drilling Log (Attach Hereto) ☐

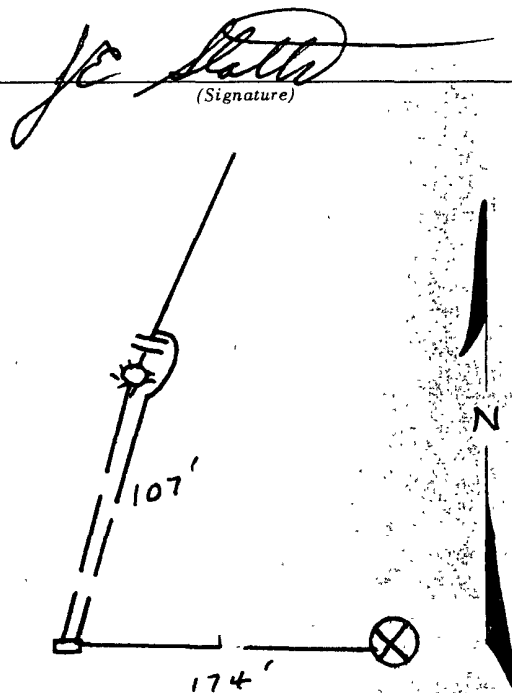
Well Name S.J. 29-7 #71A		Location SE 24-29-7		CPS No. 1407 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57351-21	
Anode Hole Depth 460 - 445 ID.	Total Drilling Rig Time	Total Coke Used 53 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 410'	# 2 390'	# 3 380'	# 4 370'	# 5 330'	# 6 320'
# 7 255'	# 8 245'	# 9 235'	# 10 225'		
Anode Output (Amps)					
# 1 1.9	# 2 2.2	# 3 2.7	# 4 2.8	# 5 2.2	# 6 2.9
# 7 2.3	# 8 2.7	# 9 3.2	# 10 3.3		
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		
Volts 11.9 V Amps 11.3 A Ohms 1.05-2			No. 2 C.P. Cable Used		

Remarks: STATIC 600' W = .84 V Driller said water at 180', Drilled To 200'. Water standing in hole next A.M. at 180'. Approx. 5-10 gal. min. Drilled To 400'. Needed 40' more hole, Drilled To 460'. Logged 445'. Installed 445' of 1" P.V.C. vent pipe, Perforated 260'.

All Construction Completed

Ditch + 1 cable = 281'
extra cable = 127'
Hole Depth = -55'
20' Meter Loop pole
40V 16A Rect.

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

S.J. 29-7 " 71A

CPS 1407 W

SE 24-29-7

W.O. 57351-21

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

Driller said WATER AT 180'
Drilled To 200' WATER STANDING
IN Hole NEXT A.M. AT 180'
Approx. 5-10 GAL./MIN. Drilled
400, Needed 40 more ft.
of Hole. Drilled To 460'.
Logged 445' INSTALLED
445' of 1" P.V.C. VENT Pipe
Perforated 260'.

200 - .6
 .8
10 - .8
 .8
20 - .9
 1.5 - ⑩
30 - 2.0
 1.7 - ⑨
40 - 1.7
 1.1 - ⑧
50 - 1.0
 1.2 - ⑦
60 - .8
 .7
70 - .7
 .6
80 - .9
 .8
90 - .7
 .7
300 - .7
 .6
10 - .5
 .6
20 - 1.3 - ⑥
 1.3
30 - 1.0 - ⑤
 .7
40 - .6
 .6
50 - .7
 .8
60 - .8
 1.0
70 - 1.7 - ④
 1.6
80 - 1.6 - ③
 1.4
90 - 1.2 - ②
 1.0
400 - 1.1
 1.2

410 - 1.2 - ①
 1.4
420 - 1.8
 .8
430 - .8
 .8
440 - .8
 .8
450 -
 -T.D
460 -

9/19/79

$$11.9 \text{ V. } 11.3 \text{ A} = 1.05 \Omega$$

1 - 410 - 1.2 - 1.9
2 - 390 - 1.2 - 2.2
3 - 380 - 1.5 - 2.7
4 - 370 - 1.6 - 2.8
5 - 330 - 1.2 - 2.2
6 - 320 - 1.4 - 2.9
7 - 255 - 1.3 - 2.3
8 - 245 - 1.6 - 2.7
9 - 235 - 1.9 - 3.2
10 - 225 - 1.6 - 3.3

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

11 H₂O

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

Analysis No. 1-9782 Date 12-18-79

Operator El Paso Natural Gas Well Name San Juan 29-7 #71A

Location SE 24-29-7 County Rio Arriba State New Mexico

Field Formation

Sampled From C.P.S. 1407W³

Date Sampled By

Tbg. Press. <u> </u>	Csg. Press. <u> </u>	Surface Csg. Press <u> </u>
ppm	epm	ppm epm

Sodium <u>431</u>	Chloride <u>44</u>	
<u>19</u>	<u>1</u>	

Calcium <u>218</u>	Bicarbonate <u>229</u>	
<u>11</u>	<u>4</u>	

Magnesium <u>17</u>	Sulfate <u>1250</u>	
<u>1</u>	<u>26</u>	

Iron <u> </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
C. B. O'Nan
Water at 180'
5-10 gal/Minute

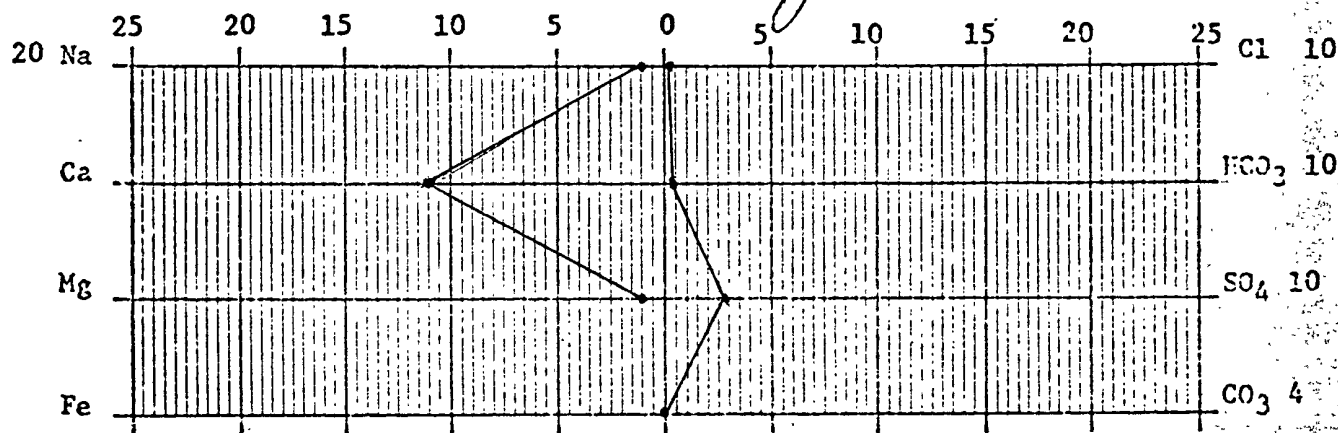
Total Solids Dissolved 2644

pH 7.7

Sp. Gr. 1.0028 at 60° F

Resistivity 267 ohm-cm at 70° F

Joe Barnett GCK
Chemist



Scale: epm

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE _____ WELL NO. _____ CONTRACTOR *Losy* RIG NO. _____ REPORT NO. _____ DATE *9-19* 19*79*

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.

BIT NO.		NO. DC		SIZE		LENG.		BIT NO.		NO. DC		SIZE		LENG.		BIT NO.		NO. DC		SIZE		LENG.	
SERIAL NO.	IO.	STANDS		SINGLES		DOWN ON KELLY		SERIAL NO.	IO.	STANDS		SINGLES		DOWN ON KELLY		SERIAL NO.	IO.	STANDS		SINGLES		DOWN ON KELLY	

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.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	10	Silt						
10	30	Sand Stone						
30	40	Shale						
40	100	Sand wet						
100	130	Shale						
130	135	Sand wet						

REMARKS -	REMARKS -	REMARKS -
135-180 Shale		
180-200 Sand wet making water	20-30 gal over all	
200-235 Sandy Shale		
235-285 Shale		
285-330 Sand		
330-350		
350-430 Shale		
430-440 Sand Stone		

SIGNED: Toolpusher

Company Supervisor