

986 #78A 30-039-21633
#513 30-039-24298

5

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. 30 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #78A, #513
cps 1409w

Elevation 6349 Completion Date 8/10/79 Total Depth 495' 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. WATER SAND 710' - 180' & 205' - 225'

SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 51 SACKS

Depths anodes placed: 455', 415', 395', 385', 375', 365', 355', 345', 310', 240'

Depths vent pipes placed: 500'

Vent pipe perforations: 400'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
ST. 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

8 Hrs reg
3 1/2 OT

CONTRACT #2

Drilling Log (Attach Hereto) ☐ #513

2" x 60" DUREIRON

Completion Date 8-10-76

Well Name SJ 29-7 #78A		Location NW 30-29-7		CPS No. 1409W	
Type & Size Bit Used 6 3/4		STATIC = .85		Work Order No. 57353-21	
Anode Hole Depth 495'	Total Drilling Rig Time	Total Lbs. Coke Used 51 BAGS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	#1 455	#2 415	#3 395	#4 385	#5 375
Anode Depth	#6 365	#7 355	#8 345	#9 310	#10 240
Anode Output (Amps)	#1 2.0	#2 1.8	#3 2.0	#4 2.6	#5 2.9
Anode Output (Amps)	#6 2.1	#7 2.4	#8 2.3	#9 1.9	#10 2.4
Anode Depth	#11	#12	#13	#14	#15
Anode Depth	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15
Anode Output (Amps)	#16	#17	#18	#19	#20
Total Circuit Resistance	Volts 11.9		Amps 10.5		Ohms 1.1
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			

Remarks: Water sand 170 to 180 & 205 to 225 drilled to 300' set overnight 100' water in hole with A (Sample) Guertimate 2 gal per minute. 500' 1" PVC vent pipe 400' perforated.

All Construction Completed

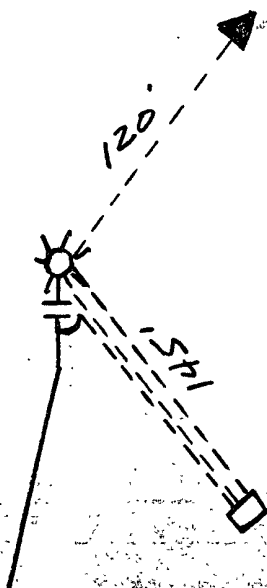
BT

(Signature)

GROUND BED LAYOUT SKETCH

STUB POLE
40/16 RECT

DITCH + 1 CABLE = 265'
EXTRA CABLE = 310'
HOLE = -5'



DISTRIBUTION:

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

6-349

El Paso Natural Gas Company
ENGINEERING CALCULATION
 8 hrs reg
 3 hrs OT
 Sheet: 8-10-
 Date: 8-10-
 By: BT
 File:

 STATIC: .85 1409 W
 SJ 29-7 #78A NW30-29-7 57353-

 Water sand 170 to 180 & 205 to 225; drilled to
 300' set over night. 100' water in hole next AM
 (Sample) Guesstimates 2 gal per minute

500' 1" PVC vent pipe 400' perforated

TD 495' Drilled 500' logged 4'

11.9 V 10.5 A = 1.1 W

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

200	1.3		
5	.6	5	.5
10	.9	10	1.1
15	1.2	15	1.2
20	1.4	20	1.7
25	1.5	25	1.6
30	1.9	30	.6
35	1.9	35	.7
40	1.7	40	.7
45	1.2	45	.6
50	.6	50	.8
55	.5	55	1.6
60	.4	60	1.5
65	.4	65	1.2
70	.6	70	1.1
75	.2	75	1.1
80	1.0	80	1.5
85	.9	85	1.6
90	.7	90	1.3
95	.6	95	.8
300	.5	400	1.1
1 =	455	1.1	2.0
2 =	415	1.1	1.8
3 =	395	1.2	2.0
4 =	385	1.4	2.6
5 =	375	1.6	2.9
6 =	365	1.1	2.1
7 =	355	1.5	2.4
8 =	345	1.3	2.3
9 =	310	1.2	1.9
10 =	240	1.3	2.4

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

Analysis No. 1-9742 Date 10-24-79

Operator EPNG Well Name San Juan 29-7 # 78 A

Location NW 30-29-7 County Rio Arriba State N.M.

Field _____ Formation _____

Sampled From T409-W

Date Sampled _____ By _____

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

Sodium 132 6 Chloride 64 2

Calcium 572 29 Bicarbonate 137 2

Magnesium 49 4 Sulfate 1650 34

Iron Present Carbonate 0 0

H₂S Absent Hydroxide 0 0

cc: D.C.Adams Total Solids Dissolved 2964

R.A.Ullrich

E.R.Paulek

J.W.McCarthy

A.M.Smith

W.B.Shropshire

File

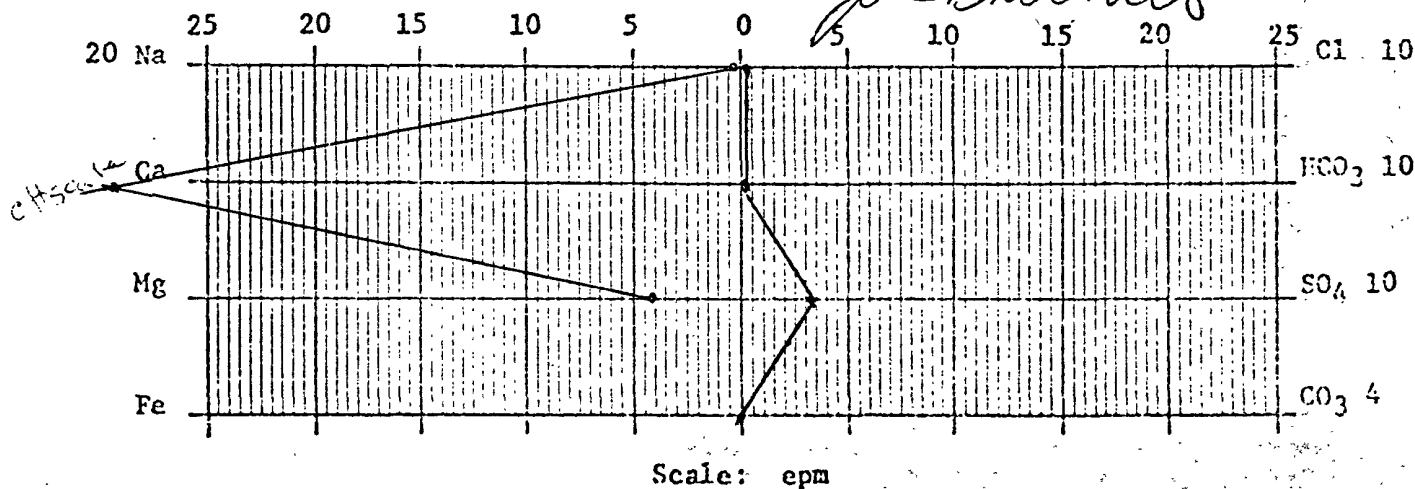
C. B. O'Nan

pH 7.7

Sp. Gr. 1.0037 at 60°F

Resistivity 286 ohm-cm at 77 °F

Carol K. ...
Joe Barnett
Chemist



CP# 1401

LEASE		WELL NO.		CONTRACTOR		RIG NO.		REPORT NO.		DATE							
				<i>Rosy</i>						8-10-77							
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. <i>6 3/4</i>		NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____		BIT NO. _____		NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____		BIT NO. _____		NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____	
SER. NO. _____		STANDS _____		SERIAL NO. _____		STANDS _____		SERIAL NO. _____		STANDS _____		SERIAL NO. _____		STANDS _____		SERIAL NO. _____	
SIZE _____		SINGLES _____		SIZE _____		SINGLES _____		SIZE _____		SINGLES _____		SIZE _____		SINGLES _____		SIZE _____	
TYPE _____		DOWN ON KELLY _____		TYPE _____		DOWN ON KELLY _____		TYPE _____		DOWN ON KELLY _____		TYPE _____		DOWN ON KELLY _____		TYPE _____	
MAKE _____		TOTAL DEPTH _____		MAKE _____		TOTAL DEPTH _____		MAKE _____		TOTAL DEPTH _____		MAKE _____		TOTAL DEPTH _____		MAKE _____	
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.			
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN			
0	5	<i>surface</i>				350	365	<i>sandy sh.</i>									
5	60	<i>shale</i>				365	380	<i>shale</i>									
60	150	<i>sand Dry</i>				380	450	<i>sandy shale</i>									
150	170	<i>shale</i>				450	470	<i>sandy shale</i>									
170	180	<i>sand wet</i>				470	500	<i>sandy shale</i>									
180	195	<i>shale</i>															
REMARKS -						REMARKS -						REMARKS -					
<i>195-200 sand Dry</i>												<i>Inf 300</i>					
<i>200-205 shale</i>																	
<i>205-225 sand wet</i>						<i>making water 1-2 gal min</i>											
<i>225-240 shale</i>																	
<i>240-260 sand stone</i>																	
<i>260-320 sandy shale</i>																	
<i>320-350 shale</i>																	

SIGNED: Toolpusher

Company Supervisor