

1001

#82 30-039-07073

E

#183 30-039-20619

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

Operator MERIDIAN OIL Location: Unit NE Sec. 13 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #82, #183

cps 1296w

Elevation 6418 Completion Date 8/23/78 Total Depth 420' 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. 120' & 160' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 49 SACKS

Depths anodes placed: 360', 350', 265', 255', 245', 218', 211', 198', 197', 190'

Depths vent pipes placed: 400'

Vent pipe perforations: 280'

Remarks: gb #1

RECEIVED
MAY 31 1991
J.W. DW. I
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

Drilling Log (Attach Hereto). ☐

Completion Date 8-23-78

Well Name <u>S. J. 28-6 #82</u> <u>#183</u>		Location <u>NE 13-27-6</u>		CPS No. <u>1296 W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>#82 = 53605-19</u> <u>#183 = 55481-21</u>	
Anode Hole Depth <u>420 - 405</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>360</u>	#2 <u>350</u>	#3 <u>265</u>	#4 <u>255</u>	#5 <u>245</u>	#6 <u>218</u>
#7 <u>211</u>	#8 <u>204</u>	#9 <u>197</u>	#10 <u>190</u>		
Anode Output (Amps)					
#1 <u>2.8</u>	#2 <u>4.1</u>	#3 <u>3.3</u>	#4 <u>4.3</u>	#5 <u>2.6</u>	#6 <u>2.7</u>
#7 <u>4.5</u>	#8 <u>5.0</u>	#9 <u>4.4</u>	#10 <u>3.9</u>		
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 <u>11.7</u>	Amps <u>15.8</u>	Ohms <u>0.74</u>			

Remarks: Static #82 600'S = 0.82. Static #183 600'S = 0.77. Driller
SAID MAKING WATER @ 120'. DRILLED TO 160'. NEXT A.M. WATER STANDING @
PERFORATED 280' OF 1" PVC VENT PIPE. INSTALLED 400' OF 1" PVC VENT PIPE.
SLURRIED 49 SACKS OF COKE BREEZE. GND BED MAKING WATER @ 60 GAL. PER.

1 1/2" X 60" Duriron

60V 30A Rectifier

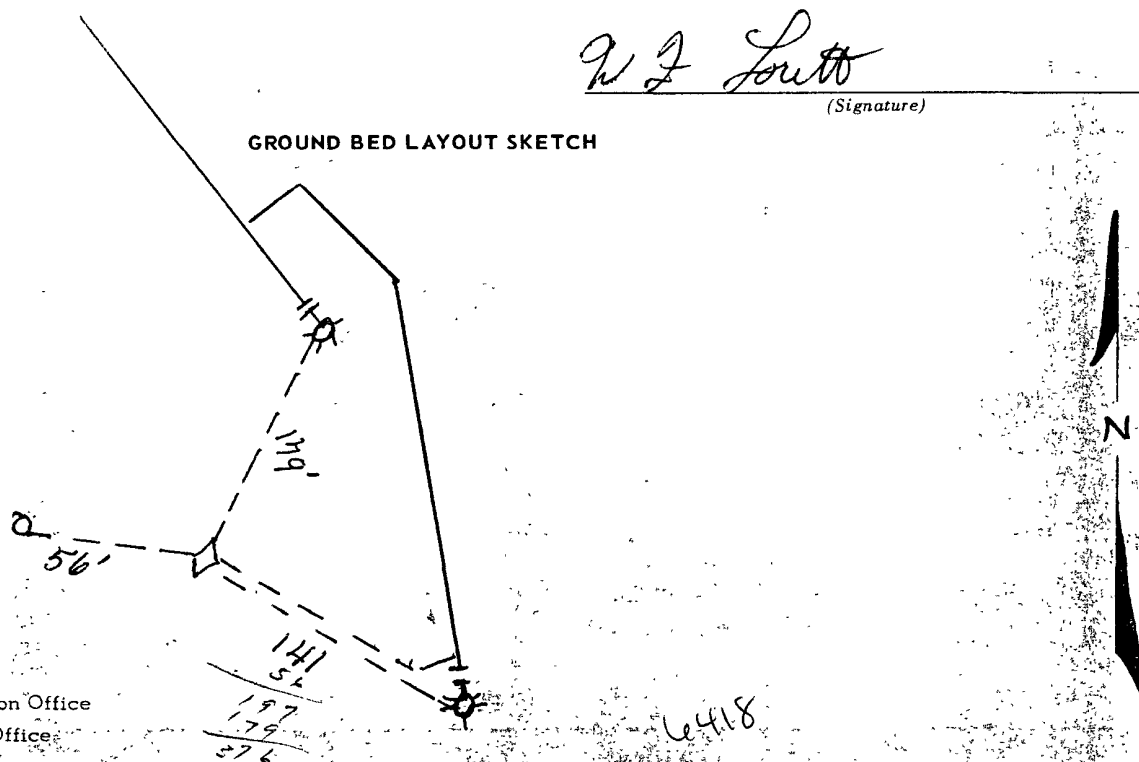
Stub Pole

All Construction Completed

W J Lout

(Signature)

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. 28-6 #82

S.J. 28-6 #183

NE 13-27-6

1296 W

53605-19

55481-21

400
120
280
500
400
95

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

STATIC #82 600'S = 0.82

STATIC #183 600'S = .77

DRILLER SAID MAKING WATER @ 120'. DRILLED TO
160' NEXT A.M. WATER STANDING @ 120'.
PERFORATED 280' OF 1" PREVENT PIPE.
I-INSTALLED 400' OF 1" PREVENT PIPE
SLURRIED 49 SACKS OF COKE

120 2.0 10 .6

1.7 .4

30 1.6 20 .4

1.0 .4

40 .4 30 .5

3 .4

50 .4 40 .6

.3 1.5

60 3 50 1.6

3 1.8

70 .4 60 1.2

.5 .6

80 .6 70 .7

.6 .8

90 1.5 80 .5

1.5 .3

200 1.6 90 .3

1.8 .3

10 2.0 400 .3

1.3 .3 +D.

20 1.1 10

.9

30 .8 20

.6

40 .8

⑤ 1.0

50 1.0

④ 1.7

60 1.6

③ 1.2

70 .6

.4

80 .4

.4

90 .4

.4

300 .4

.4

① 360 1.4 2.8

② 350 2.1 4.1

③ 265 1.4 3.3

④ 255 2.1 4.3

⑤ 245 1.2 2.6

⑥ 218 1.3 2.7

⑦ 211 2.6 4.5

⑧ 204 2.8 5.0

⑨ 197 2.3 4.4

⑩ 190 2.3 3.9

VOLTS = 11.7

AMPS = 15.8

OHMS = 0.74

60V 30A Rectifier

Stub Pole

Hole Depth = -95'

Ditch Cable = 376'

EXTRA CABLE = 141'

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

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

Analysis No. 1-9322 Date 9-15-78

Operator _____ Well Name San Juan 28-6 ##82 & #183

Location 13-27-6 County _____ State NM

Field _____ Formation ANODE bed

Sampled From 1296W WTR @ 120' 160' 60 GPM

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____

ppm	epm	ppm	epm
Sodium <u>380</u>	<u>17</u>	Chloride <u>20</u>	<u>0.6</u>

Calcium <u>6</u>	<u>0.3</u>	Bicarbonate <u>610</u>	<u>10</u>
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Magnesium <u>0</u>	<u>0</u>	Sulfate <u>260</u>	<u>5</u>
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Iron <u>PRESENT</u>		Carbonate <u>40</u>	<u>1.3</u>
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H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u>	<u>0</u>
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cc: D.C. Adams
R.A. Ullrich

E.R. PAulek

J.W. McCarthy

A.M. Smith

W.B. Shropshire

File

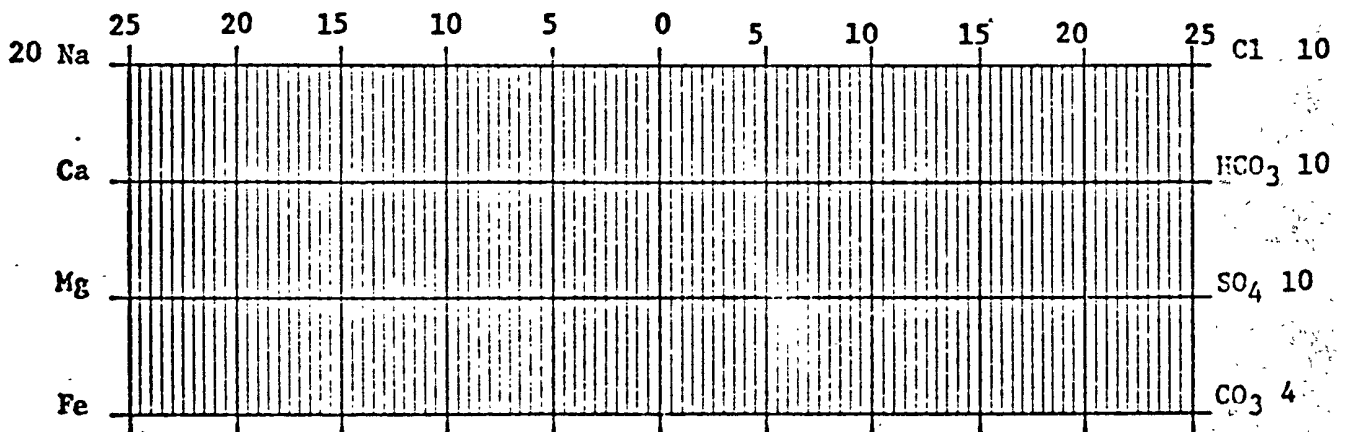
Total Solids Dissolved 986

pH 8.6

Sp. Gr. 1.0019 at 60° F

Resistivity 770 ohm-cm at 72° F

R. Z. Ellsberry
Chemist



Scale: epm

DRILLING DEPARTMENT

DAILY DRILLING REPORT

1296w

LEASE

WELL NO.

1296W

CONTRACTOR

Q. Bryant

RIG NO.

1

REPORT NO.

DATE _____

Aug 23

19 7A.

MORNING

DAYLIGHT

EVENING

[illegible]

	NO. DC ____ SIZE ____ LENG. ____		NO. DC ____ SIZE ____ LENG. ____		NO. DC ____ SIZE ____ LENG. ____
BIT " ____	NO. DC ____ SIZE ____ LENG. ____	BIT NO. ____	NO. DC ____ SIZE ____ LENG. ____	BIT NO. ____	NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. ____	STANDS ____	SERIAL NO. ____	STANDS ____	SERIAL NO. ____	STANDS ____
SIZE ____	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]

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	75	Sandstone	220	245	Sdy Spale	355	365	Shale
75	110	Shale	245	285	Sandstone	365	420	Sandstone
110	128	Sandstone "water"	285	295	Shale			
128	145	Shale	295	345	Sandstone - shaley			
145	210	Sdy Sh	345	350	Shale			
210	220	Bentonite in Sand.	350	355	Sandstone			

REMARKS -	REMARKS -	REMARKS -
		Drilled 6-3/4" to 420 ft
		Water even nite @ 120
		Est. water @ 60 gpm
		Logged to 405'

SIGNED: Toolpusher

Tom O'Brien

____ Company Supervisor