

#179 30-039-20669

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

Operator MERIDIAN OIL Location: Unit SW Sec. 13 Twp 27 Rng 6
Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #68, #179
cps 1297w

Elevation 6335' Completion Date 8/31/78 Total Depth 380' 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. 30', 195', 250' SAMPLE TAKEN

Depths gas encountered: N/A

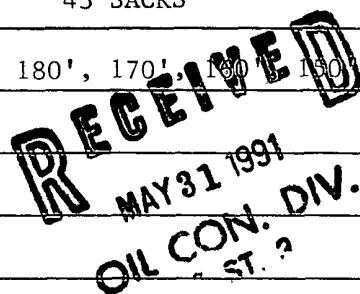
Type & amount of coke breeze used: 43 SACKS

Depths anodes placed: 230', 220', 210', 190', 180', 170', 160', 150', 140', 130'

Depths vent pipes placed: 240'

Vent pipe perforations: 220'

Remarks: gb #1-



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 8-31-78

Well Name <u>S.J. 28-6 # 68</u> <u># 179</u>		Location <u>SW 13-27-6</u>		CPS No. <u>1297W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>#68-53147</u> <u>#179-53477</u>	
Anode Hole Depth <u>380-370</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>230</u>	# 2 <u>220</u>	# 3 <u>210</u>	# 4 <u>190</u>	# 5 <u>180</u>	# 6 <u>170</u>
# 7 <u>160</u>	# 8 <u>150</u>	# 9 <u>140</u>	# 10 <u>130</u>		
Anode Output (Amps)					
# 1 <u>2.7</u>	# 2 <u>3.4</u>	# 3 <u>2.3</u>	# 4 <u>2.2</u>	# 5 <u>2.6</u>	# 6 <u>2.3</u>
# 7 <u>3.6</u>	# 8 <u>2.5</u>	# 9 <u>3.0</u>	# 10 <u>2.6</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>12.0</u>		Amps <u>10.0</u>		Ohms <u>1.2</u>	

Remarks: Static 600' SW #68 = 0.78. Static #179 600' NW = 0.46
DRILLER SAID MAKING WATER @ 30'. MORE WATER @ 195' & 250'. 35 GALS PER MIN.
PERFORATED 220' OF 1" PVC VENT PIPE. INSTALLED 240' OF 1" PVC VENT PIPE
SLURRIED 43 SACKS OF COKE

60V 30A RECTIFIER

20' METAL POLE

HOLE DEPTH = -130

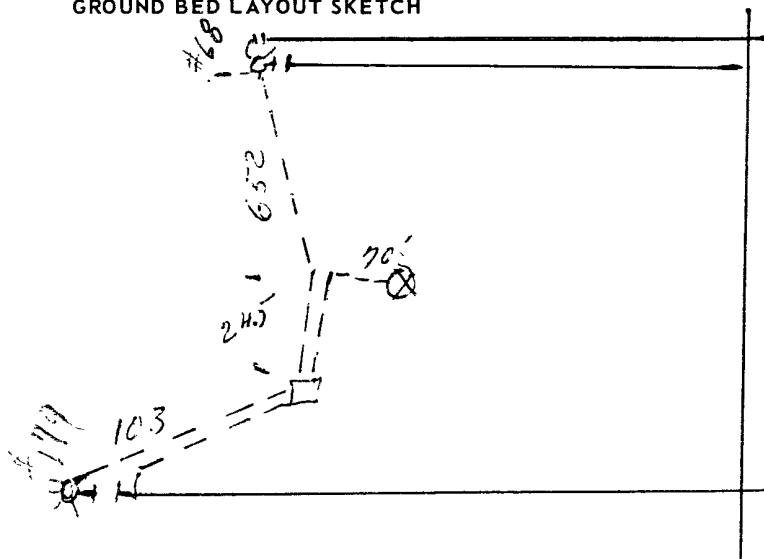
DITCH & 1 CABLE = 1070

EXTRA CABLE = 348

All Construction Completed

W. Z. Little
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6335

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 23 of 24

Date: _____

By: _____

File: _____

S.J. 28-6 #68

S.J. 28-6 #179

SW13-27-6

1297 W

53147-19

55477-21

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.84
42.08	C3 9.87

Static #68 600' SW = 0.78
Static #179 600' NW = 0.76

DRILLER SAID MAKING WATER @ 30' DRILLED
to 60' next A.M. WATER STANDING @ 30'
35 GALS PER MIN MORE WATER @ 195' 250'
PERFORATED 220' of 1" PVC VENT PIPE
INSTALLED 240' of 1" PVC VENT PIPE
SLURRIED 43 SACKS OF COKE

50	1.3	10	1.1 - ③
	1.5		1.2
60	1.5	20	1.4 - ②
	1.5		1.7
70	.9	30	1.3 - ①
	.5		1.0
80	.4	40	.7
	.5		.6
90	.6	50	.5
	1.6		.5
100	1.9	60	.5
	2.0		.5
10	1.9	70	.4
	1.8		.4
20	1.4	80	.5

600 30A Rectification

20' Motor Pole

Hole Depth = -130

Pitch 51 Caliber N30

EXTRA GALLONS = 348

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

	1.6		.6	① 230	1.4	2.7
30	1.3	⑩ 70	.9	② 220	2.0	3.4
	1.3		.7	③ 210	1.3	2.3
40	1.4	⑨ 200	.2	④ 190	1.2	2.2
	1.5		.6	⑤ 180	1.4	2.6
50	1.3	⑧ 10	.4	⑥ 170	1.2	2.3
	1.2		.4	⑦ 160	2.2	3.6
60	1.4	⑦ 50	.2	⑧ 150	1.4	2.5
	1.9		.2	⑨ 140	1.8	3.0
70	1.3	⑥ 10	.2	⑩ 130	1.6	2.6
	1.2		.2			
80	1.2	⑤ 70	.2			
	1.2		.2			
90	1.1	④ 20	.2			
	1.0		.2			
100	.7		.2			
	.9		.2			

VOITS = 12.0

HMS = 10.0

CHMS = 1.2

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

Analysis No. 1-9340 Date SEPTEMBER 18, 1978

Operator EPNG Well Name SAN JUAN 28-6 #68 & #179

Location 13-27-6 County RIO ARRIBA State NM

Field Formation

Sampled From CPS 1297W WTR @ 30'; 195' & 250' 35 GPM

Date Sampled By

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

ppm	epm
Sodium <u>426</u>	<u>18.5</u>

ppm	epm
Chloride <u>14</u>	<u>.4</u>

ppm	epm
Calcium <u>12</u>	<u>.6</u>

ppm	epm
Magnesium <u>1.5</u>	<u>.1</u>

ppm	epm
Iron <u>PRESENT</u>	<u></u>

ppm	epm
H ₂ S <u>ABSENT</u>	<u></u>

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

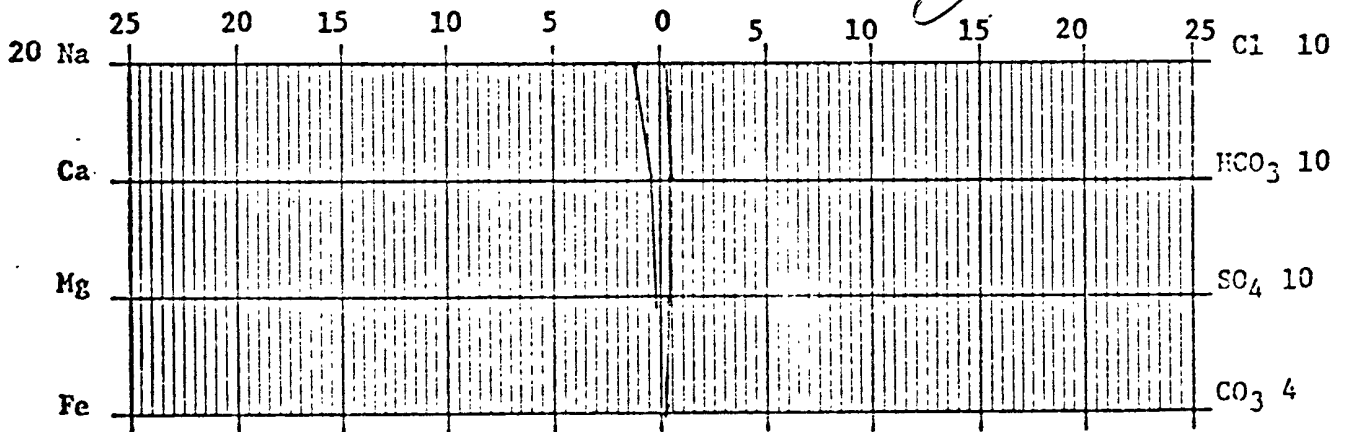
Total Solids Dissolved 604

pH 8.75

Sp. Gr. 1.0026 at 60°F

Resistivity 630 ohm-cm at 71 °F

Allen James
Chemist



Scale: ppm

