

1002

#6830-039-07058

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#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

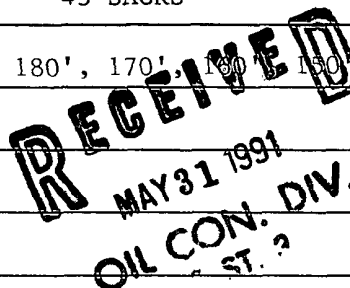
Type & amount of coke breeze used: 43 SACKS

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>#179-55477</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.
PER SCRATCHED 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

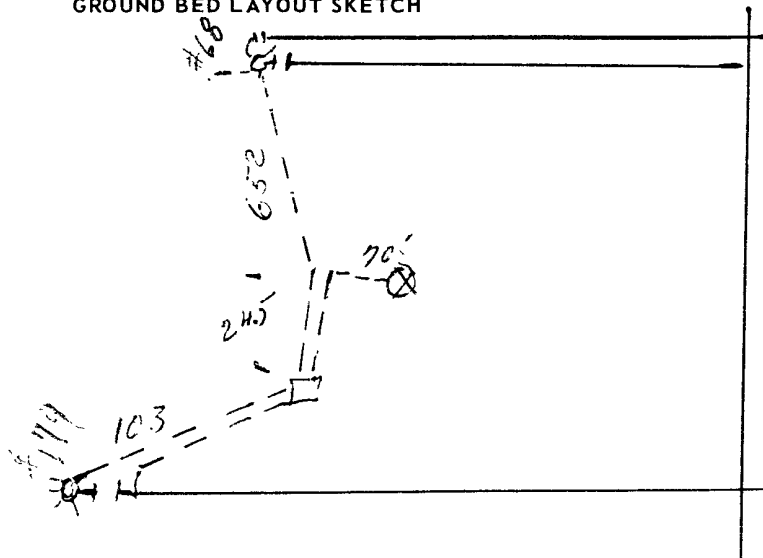
DITCH & 1 CABLE = 1070

EXTRA CABLE = 348

All Construction Completed

W. L. 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 9.64
42.08	C3 9.67

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

DRILLER SAID MAKING WATER @ 30
to 60' next A.M. WATER STANDING @ 30
35 GALS PER MIN. MISC. WATER @ 1953.250
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 Gals = 1030

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

VOLTS = 12.0

AMPS = 10.0

CHRS = 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 4297W WTR @ 30'; 195" F 250" 35 GPM

Date Sampled By

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

Sodium <u>426</u> <u>18.5</u>	Chloride <u>14</u> <u>.4</u>
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Calcium <u>12</u> <u>.6</u>	Bicarbonate <u>630</u> <u>10.3</u>
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Magnesium <u>1.5</u> <u>.1</u>	Sulfate <u>400</u> <u>8.3</u>
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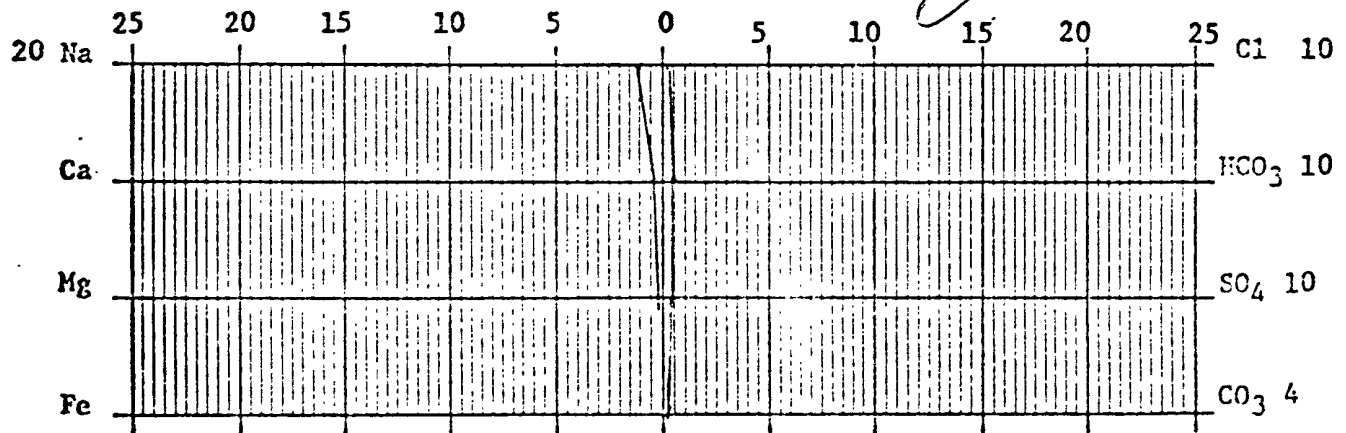
Iron <u>PRESENT</u>	Carbonate <u>5</u> <u>0.2</u>
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H ₂ S <u>ABSENT</u>	Hydroxide <u>0</u> <u>0</u>
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cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File

Total Solids Dissolved 604
pH 8.75
Sp. Gr. 1.0026 at 60°F
Resistivity 630 ohm-cm at 71 °F

Alton James
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE 1297 W WELL NO. 1297 W CONTRACTOR O'Brien Drilling RIG NO. 1 REPORT NO. 8 DATE Aug 31 1978

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.	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.			BIT NO.		NO. DC SIZE LENG.												
SER. NO.		STANDS			SER. NO.		STANDS			SER. NO.		STANDS			SER. NO.		STANDS												
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES												
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY												
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH												
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	8	Surface								90	125	Shale								240	295	Sandstone (Water)							
8	30	Sandstone								125	145	Sandy Shale								295	325	Shale							
30	35	Shale (Water)								145	165	Sandstone								325	380	Sandstone							
35	40	Sandstone								165	180	Shale																	
40	70	Shale								180	215	Sandstone (Water)																	
70	90	Sandy Shale								215	240	Shale																	
REMARKS -										REMARKS -										REMARKS -									
																				Drilled 6 3/4 hole to 380 Logged to 370 Est. Water 35 QPM									

SIGNED: Toolpusher

Butch Benoit

____ Company Supervisor