

1014

75-30-039-07153

115-30-039-07169

E

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

Operator ME IDIAN OIL Location: Unit SW Sec. 3 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #75, #115
cps 1280w

Elevation 6247 Completion Date 9/15/78 Total Depth 320' 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. 35' & 90' SAMPLE TAKEN

Depths gas encountered: N/A

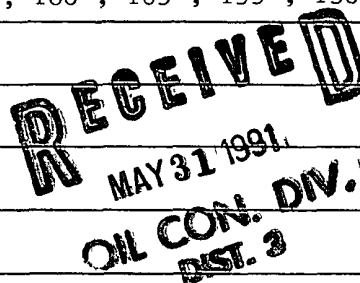
Type & amount of coke breeze used: 41 SACKS

Depths anodes placed: 265', 255', 205', 190', 180', 165', 155', 130', 70', 55'

Depths vent pipes placed: 280'

Vent pipe perforations: 260'

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 9-15-78

Well Name <u>SAN JUAN 28-6 #75 + #115</u>				Location <u>SW 3-27-6</u>				CPS No. <u>1280 W</u>											
Type & Size Bit Used <u>6 3/4</u>				Contract # <u>CONTRACT #2</u>				Work Order No. <u>40181.19 - 20501.19</u>											
Anode Hole Depth <u>320-308</u>		Total Drilling Rig Time		Total Lbs. Coke Used <u>41 sacks</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used											
Anode Depth																			
# 1	<u>265</u>	# 2	<u>255</u>	# 3	<u>205</u>	# 4	<u>190</u>	# 5	<u>180</u>	# 6	<u>165</u>	# 7	<u>155</u>	# 8	<u>130</u>	# 9	<u>70</u>	# 10	<u>55</u>
Anode Output (Amps)																			
# 1	<u>3.1</u>	# 2	<u>3.0</u>	# 3	<u>3.8</u>	# 4	<u>3.7</u>	# 5	<u>3.4</u>	# 6	<u>3.4</u>	# 7	<u>3.3</u>	# 8	<u>3.2</u>	# 9	<u>3.0</u>	# 10	<u>3.6</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>11.9</u>		Amps <u>16.7</u>		Ohms <u>.71</u>															

Remarks: STATIC #75 600'SE = .76 #115 600'E = .79

WATER AT 35' (56PM) WATER STANDING 35' NEXT MORNING WATER AGAIN AT 90' TOTAL WATER APPROX 306.P.M. INSTALLED 280' PVC VENT PIPE PERFORATED 200'. SLURRIED 41 SACKS OF COKE. 1 1/2" X 60" Duxiron

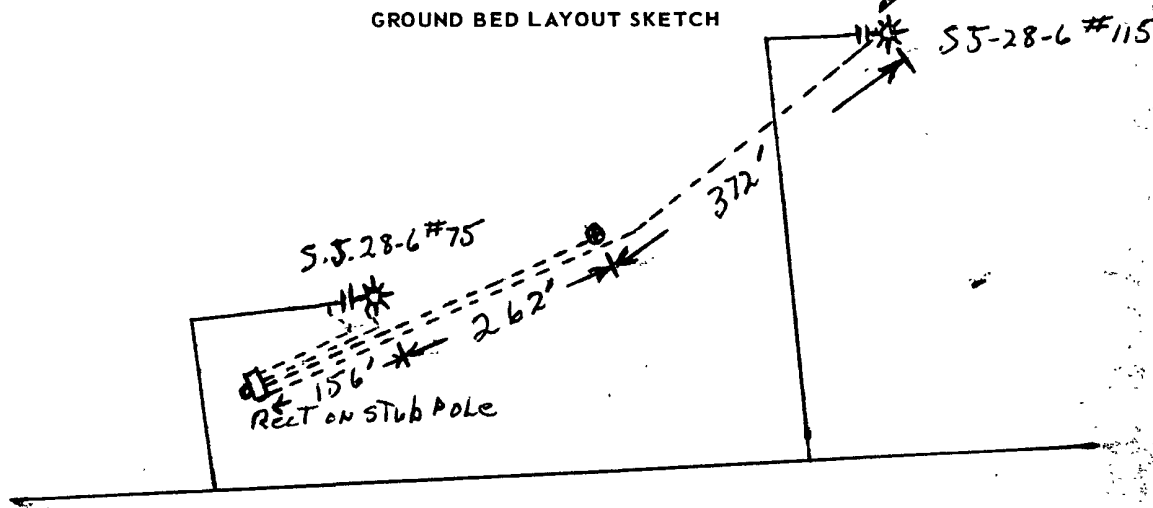
Hole Depth = -192 FT.
Ditch + cable = 790 FT.
EXTRA cable = 730 FT.

60V 30A Rect.
STUB POLE

All Construction Completed

Robert J. Babick
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6247

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 1 of 1
Date: 9-15-78
By: RPB
File:

1280W

ST 28-6 #75
ST 28-6 #115

SW3-27.6

40181.19
20501.19

ST 1/2 400' SE = .76
ST 1/2 400' E = .79

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

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

30		210	1.8
			1.3
40	1.1	220	1.1
	2.2		1.0
50	2.1	230	1.1
	2.5 10		1.1
60	2.2	240	1.2
	2.0		1.2
70	1.9 9	250	1.3
	1.8		1.7 2
80	1.6	260	1.9
	1.2		2.0
90	1.0	270	1.5
	9		1.2
100	.8	280	1.5
	.8		1.4
110	1.2	290	1.1
	1.4		.9
120	.8	300	.8
	.7		.7
130	1.8 8	310	
	1.7		
140	1.5	320	
	1.9		
150	1.8		
	2.1 7		
160	2.0		
	1.9 6		
170	2.1		
	2.1		
180	2.1 5		
	1.9		
190	2.1 4		
	2.0		
200	2.2		
	2.2 3		

HIT WATER AT 35 FT (APPROX 56 PM)
WATER STANDING AT 35 FT NEXT
MORNING WATER AGAIN AT 90 FT
DRILLED 320' Logged 308'
INST 280' PVC NEW PIPE
PERFORATED 260'
TOTAL WATER APPROX 306 PM
Hole Depth - 192'
41 BAGS OF COKE
Ditch cable = 790'
EXTRA CABLE = 730'
60030A Rect.
Stub Pole

- ① 265 - 2.2 - 3.1
- ② 255 - 2.0 - 3.0
- ③ 205 - 2.4 - 3.8
- ④ 190 - 2.4 - 3.7
- ⑤ 180 - 2.2 - 3.4
- ⑥ 165 - 2.4 - 3.4
- ⑦ 155 - 2.3 - 3.3
- ⑧ 130 - 2.2 - 3.2
- ⑨ 70 - 2.1 - 3.0
- ⑩ 55 - 2.7 - 3.6

TOTAL 11.9 V 16.7 A = .71 ohms

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

Analysis No. 1-9350 Date 11-8-78

Operator _____ Well Name San Juan #28-6 #75 & 115

Location SW3-27-6 County Rio Arriba State NM

Field _____ Formation _____

Sampled From CPS 1280W WATER @ 35' 56 GPM; WATER @ 90'

Date Sampled _____ By 30 GPM

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

Sodium <u>536</u> <u>23.3</u>	Chloride <u>10</u> <u>.3</u>
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Calcium <u>34</u> <u>2</u>	Bicarbonate <u>586</u> <u>10</u>
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Magnesium <u>12</u> <u>1</u>	Sulfate <u>750</u> <u>16</u>
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Iron <u>PRESENT</u>	Carbonate <u>0</u> <u>0</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

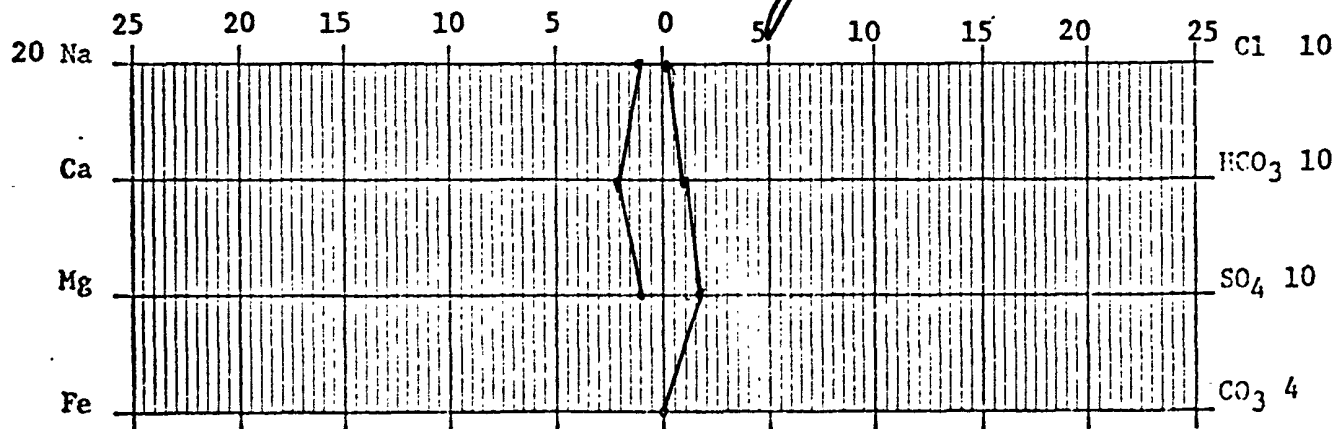
Total Solids Dissolved 1646

pH 8.0 C

Sp. Gr. 1.0022 at 60°F

Resistivity 510 ohm-cm at 71 °F

Joe Barnett PZE
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE 1280 W WELL NO. 1280W CONTRACTOR O'Brian Drilling RIG NO. 1 REPORT NO. 13 DATE Sept 15 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.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERI. NO.		STANDS			SERI. NO.		STANDS			SERI. 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		

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			135	145	Shale			285	295	Sandstone		
8	15	Shale			145	150	Sandstone			295	310	Shale		
15	45	Sandstone (Water)			150	210	Shale			310	320	Sandstone		
4	65	Shale			210	250	Sandstone							
65	85	Sandy Shale			250	270	Sandy Shale							
85	135	Sandstone			270	285	Shale							

REMARKS -					REMARKS -					REMARKS -				
										Drilled 6 3/4 hole to 320				
										Logged to 308				
										Est. water 30 G.P.M.				
										Water overnight at 35 ft.				

SIGNED: Toolpusher

Bert Benoit

Company Supervisor