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74 - 30-039-07200

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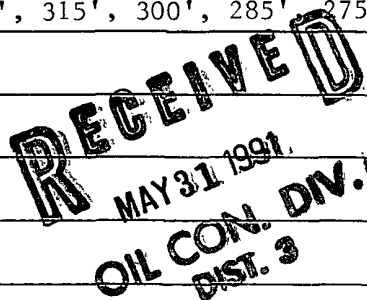
984 - 30-039-20611

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. 3 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #74, #98Ycps 1279wElevation 6307' Completion Date 9/20/78 Total Depth 440' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf 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. 95' & 225' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 50 BAGSDepths anodes placed: 390', 375', 360', 330', 315', 300', 285', 275', 265', 255'Depths vent pipes placed: 400'Vent pipe perforations: 200'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 9-20-78

Well Name <u>SJ 28-6 #74 + #98Y</u>		Location <u>NE3-27-6</u>		CPS No. <u>1279W</u>	
Type & Size Bit Used <u>6 3/4</u>		Contract # <u>CONTRACT #2</u>		Work Order No. <u>40182.19 + 55483.21</u>	
Anode Hole Depth <u>440' - 429' 10"</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>50 BAGS</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>390</u>	# 2 <u>375</u>	# 3 <u>360</u>	# 4 <u>330</u>	# 5 <u>315</u>	# 6 <u>300</u>
# 7 <u>285</u>	# 8 <u>275</u>	# 9 <u>265</u>	# 10 <u>255</u>		
Anode Output (Amps)					
# 1 <u>2.2</u>	# 2 <u>2.6</u>	# 3 <u>2.1</u>	# 4 <u>3.2</u>	# 5 <u>2.3</u>	# 6 <u>2.7</u>
# 7 <u>2.8</u>	# 8 <u>3.5</u>	# 9 <u>2.2</u>	# 10 <u>2.5</u>		
Anode Depth					
# 11 <u>275</u>	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11 <u>3.0</u>	# 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>13.1</u>	Ohms <u>.92</u>			

Remarks: STATIC %s #74 600'W = .74 #98Y 600'N = .77

DRILLER SAID WATER AT 95', 3 WATER ZONES. BEST WATER AT 225', TOTAL WATER
APPROX 20 GPM INSTALLED 400' OF VENT PIPE 220' PERFORATED
INSTALLED ONE EXTRA ANODE

SLURRIED 50 BAGS OF COKE

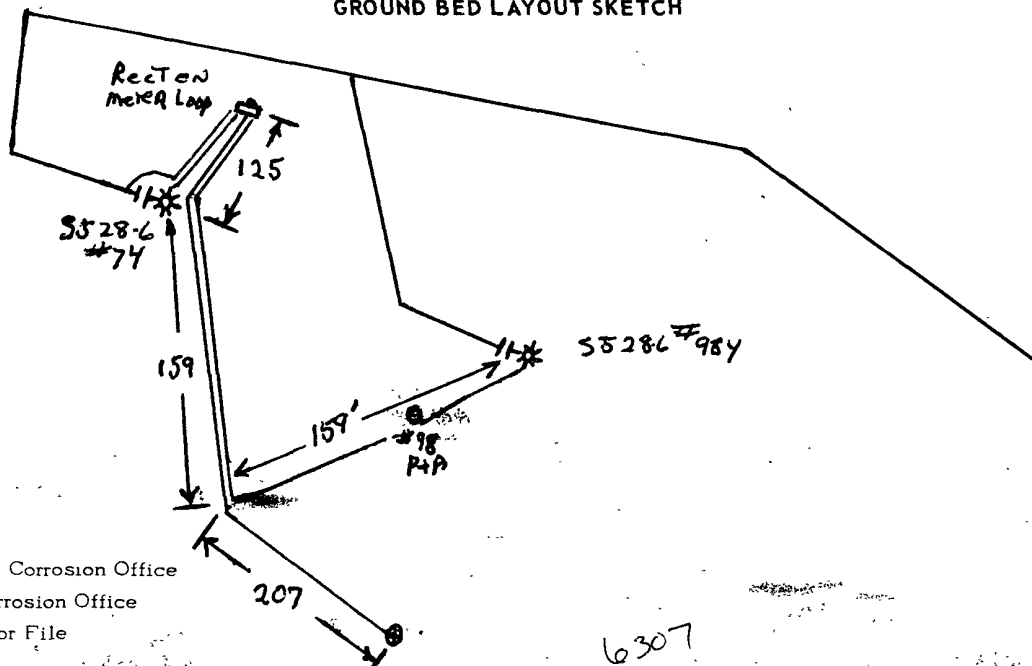
Hole Depth = -71'
CABLE + DITCH = 650'
EXTRA CABLE = 534'

1 EXTRA ANODE WITH 245' CABLE
20' METER LOOP POLE
60U30A RECT.

All Construction Completed

Robert J. Bahrick
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6307

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1 of 1
Date: 9-20-78
By: JLB
File: 1279W1279W NE3-27-6
SAN JUAN 28-6#74 40180.19
SAN JUAN 28-6#98Y 55483.21ST C/S 600' W = .74 UNION OK
ST C/S 600' = .77 UNION OK

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

90	270	1.3
100	280	1.2
110	290	1.3
120	300	1.3
130	310	1.2
140	320	1.3
150	330	1.4
160	340	1.4
170	350	1.1
180	360	1.1
190	370	1.2
200	380	1.1
210	390	1.0
220	400	.9
230	410	.7
240	420	.6
250	430	.6
260	440	.9

DRILLER SAID WATER AT 95'
3 WATER ZONES APPROX=206PM
Drilled 440' Logged 429'
Best water at 225'
INSTALLED 400' OF VENT PIPE
PERFORATED 200'
Hole Depth = 71
Cable + Ditch = 650'
EXTRA CABLE = 534'
EXTRA ANODE @ 245' OF CABLE
20' meter loop pole
600 30 A Rect

①	390	1.1	2.1	2.2
②	375	1.3	2.3	2.6
③	360	1.2	2.0	2.1
④	345	1.3		
⑤	330	1.8	2.2	3.2
⑥	315	1.4	2.8	2.3
⑦	300	1.7	2.6	2.7
⑧	285	1.3	2.3	2.8
⑨	275	1.8	2.9	3.5
⑩	265	1.3	2.1	2.2
⑪	255	1.3	2.3	2.5
⑫	245	1.7	2.7	3.0
	220	1.0	1.5	1.7

TOTAL 12.00 13.1 A = .92

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

Analysis No. 1-9351 Date 11-8-78

Operator _____ Well Name San Juan 28-6 #74 & #984

Location NE 3-27-6 County Rio Arriba State NM

Field _____ Formation _____

Sampled From C.P.S. 1279-W WTR @ 95' 3 WTR ZONES BEST

Date Sampled _____ By WTR @ 225' TOTAL 20 GPM

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

ppm epm ppm epm

Sodium 943 41 Chloride 26 .7

Calcium 86 4 Bicarbonate 551 9

Magnesium 14 1 Sulfate 1750 36

Iron PRESENT 0 Carbonate 0 0

H₂S ABSENT 0 Hydroxide 0 0

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

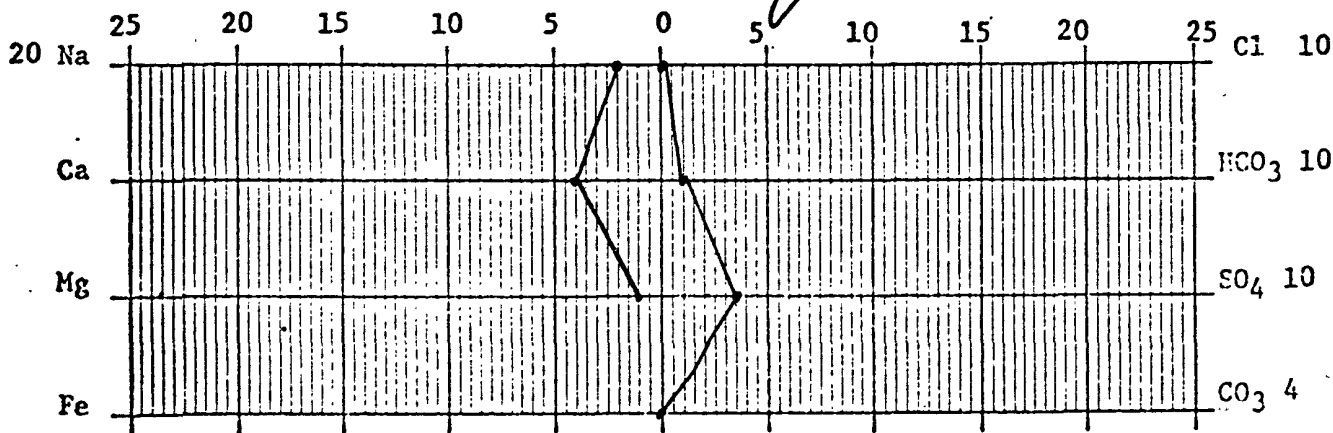
Total Solids Dissolved 2836

pH 7.9

Sp. Gr. 1.0033 at 60°F

Resistivity 300 ohm-cm at 71 °F

Jc Barnett RZE
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE 1279W WELL NO. 1279W CONTRACTOR O'Brien Drilling RIG NO. 1 REPORT NO. _____ DATE Sept 20 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. _____		
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		
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		MUD RECORD			MUD, ADDITIVES USED AND RECEIVED	
Time	WL.	Vis.			Time	WL.	Vis.			Time	WL.	Vis.		
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN		
0	28	Surface			140	225	Sandstone (Water)			285	325	Sandstone		
28	65	Sandstone			225	230	Sandy shale			325	365	Shale		
65	70	Shale with sandstone			230	240	Shale			365	375	Sandstone		
70	85	Shale			240	255	Sandy shale			375	385	Shale		
85	120	Sandstone (Water)			255	265	Sandstone			385	440	Sandstone		
120	140	Shale			265	285	Shale							
REMARKS -					REMARKS -					REMARKS -				
										Drilled 6 3/4 hole to 440				
										Logged to 429				
										Est. water 20 GPM				

SIGNED: Toolpusher

Butch Bennett

Company Supervisor