

1013

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 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #74, #98Y

cps 1279w

Elevation 6307' Completion Date 9/20/78 Total Depth 440' 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. 95' & 225' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 50 BAGS

Depths anodes placed: 390', 375', 360', 330', 315', 300', 285', 275', 265', 255'

Depths vent pipes placed: 400'

Vent pipe perforations: 200'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV. 1
DIST. 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 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>40180.19 + 55483.21</u>	
Anode Hole Depth <u>440' - 429' to</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>245</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 200' PERFORATED
INSTALLED ONE EXTRA ANODE

SLURRIED 50 BAGS OF COKE

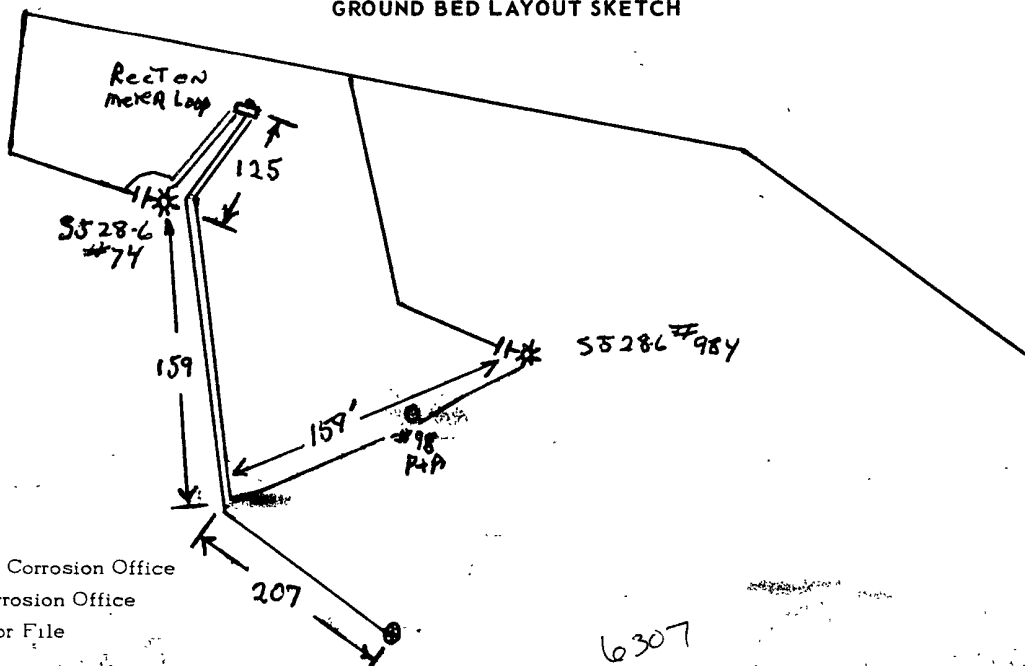
Hole Depth = -71'
Cable + Ditch = 650'
EXTRA CABLE = 534'

1 extra Anode with 245' cable
20' meter Loop pole
60030A RECT.

All Construction Completed

Robert J. Bahrick
(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: 1 of 1
Date: 9-20-78
By: RLB
File: 1279W

1279W NE3-27-6
SAN JUAN 28-6 #74 40180.19
SAN JUAN 28-6 #98Y 55483.21

ST 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

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'
1 EXTRA ANODE @ 245' OF CABLE
20' meter Loop pole
60V 30A Rect

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

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	1.8-2.2	3.2
⑥	315	1.4	1.4-2.8	2.3
⑦	300	1.7	1.6-2.6	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 = 9.2

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	<u>943</u>	<u>41</u>	Chloride	<u>26</u>	<u>.7</u>

Calcium	<u>86</u>	<u>4</u>	Bicarbonate	<u>551</u>	<u>9</u>
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Magnesium	<u>14</u>	<u>1</u>	Sulfate	<u>1750</u>	<u>36</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

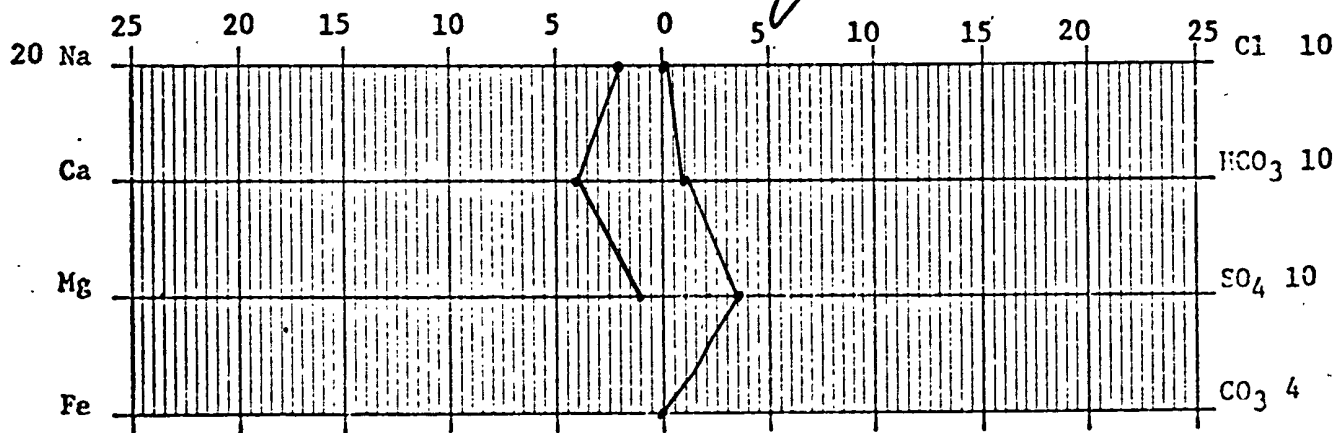
Total Solids Dissolved 2836

pH 7.9

Sp. Gr. 1.0033 at 60°F

Resistivity 300 ohm-cm at 71 °F

J. C. Barnett RZE
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE		WELL NO.		CONTRACTOR		RIG NO.		REPORT NO.		DATE		1978					
MORNING						DAYLIGHT						EVENING					
Driller						Driller						Driller					
Total Men In Crew						Total Men In Crew						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	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	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 Benoit

____ Company Supervisor