

1384

E

31-0015

30-039-22232

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

Operator MERIDIAN OIL Location: Unit NW Sec. 31 Twp 28 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #15A 51A

cps 1604w

Elevation 6527' Completion Date 7/10/81 Total Depth 406' 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. 105' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3500 lbs.

Depths anodes placed: 360', 350', 340', 325', 315', 305', 295', 285', 275', 265'

Depths vent pipes placed: 390'

Vent pipe perforations: 300'

Remarks: gb#1

RECEIVED
MAY 31 1991
OIL CON. DIV.

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 7-10-81

Well Name S. J. 28-5 #51A		Location NW 31-28-5		CPS No. 1604W						
Type & Size Bit Used 6 3/4 Rock		Anodes - 2" x 60" DURIRO		Work Order No. 184-57921-21-50-20						
Anode Hole Depth 406-Log 406	Total Drilling Rig Time	Total Lbs. Coke Used 3500 APPROX	Lost Circulation Mat'l Used		No. Sacks Mud Used					
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	360	350	340	325	315	305	295	285	275	265
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	3.6	3.2	2.8	2.8	3.7	2.7	3.1	3.4	2.5	3.2
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	Volts 12.0		Amps 15.2		Ohms .79		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

Remarks: STATIC 4s 600'N = .88 800mA + u = OK

DRILLER SAID WATER AT 105' BLEW MUD OUT OF HOLE BETWEEN CONNECTIONS DRILLED TO 160' CAUGHT WATER SAMPLE NEXT AM. (WATER LEVEL DROPPED TO APPROX 150' AFTER LOGGING.) DRILLED 406' LOGGED 406. LOST APPROX 10 FT OF HOLE WHILE PUTTING VENT PIPE IN HOLE. 990 FT VENT PIPE WITH 300 FT PERF. SLURRIED APPROX 3500 POUNDS BULK COKE. SOME CHUNKS CAVING SHALE IN CUTTING SAMPLES.

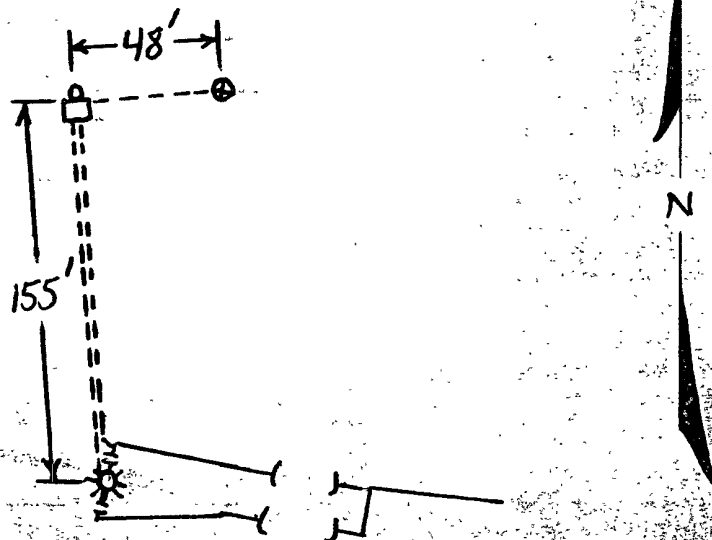
Hole depth = -94
EXTRA cable = 175
DITCH + cable = 203
25 FT Meter pole
400 16A Rect

All Construction Completed

Robert Babink
(Signature)

GROUND BED LAYOUT SKETCH

	Reg	O.T.
7-10	8	2



DISTRIBUTION:

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

1604W S.S. 28-5 #51A NW 31-28-5

7-10-10 hrs

184-57921-21-50-20-

STATIC 9/3 400'N = .88V 800MAT u = 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

105	1.4	280	1.2	Driller said water at 105' Blew
110	1.4		1.4 - 8	mod out of hole between connections
	1.5	90	1.3	Drilled to 160' caught water
20	1.7		1.1 - 7	Sample next AM. Drilled
	1.6	300	1.3	to 406' Logged 406 FT INST
30	1.7		1.1 - 6	400 FT VENT pipe with 300 FT
	1.8	10	1.5	Perforated total water 2 GPM
40	1.6		1.4 - 5	3500 LBS OF coke ACFTOX. Log
	1.4	20	1.1	
50	1.6		1.1 - 4	
	1.2	30	1.0	
60	.7		.9	
	1.1	40	1.2 - 3	
70	1.4		1.2	
	1.6	50	1.2 - 2	
80	1.8		1.4	
	1.9	60	1.4 - 1	
90	1.6		1.0	
	1.3	70	.9	
200	1.5		.7	
	1.3	80	.9	
10	.7		1.1	
	1.5	90	1.2	
20	.5		1.0	
	.5	400	1.0	406 TD
30	.6			① 360 - 2.0 - 3.6
	.7			② 350 - 1.7 - 3.2
40	1.5			③ 340 - 1.4 - 2.8
	1.5			④ 325 - 1.5 - 2.8
50	1.4			⑤ 315 - 2.2 - 3.7
	1.2			⑥ 305 - 1.4 - 2.7
60	1.6			⑦ 295 - 1.6 - 3.4
	2.3 - 10			⑧ 285 - 1.9 - 3.4
70	1.1			⑨ 275 - 1.4 - 2.5
	1.1 - 9			⑩ 265 - 1.8 - 3.2
				12.0V @ 15.2A = .79 ohms

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

Analysis No. 1-10250 Date 7-15-81

Operator EPNG Well Name SJ 28-5 #51A 105 ft. CPS 1604W

Location NW 31-28-5 County Rio Arriba State New Mexico

Field Blanco Formation _____

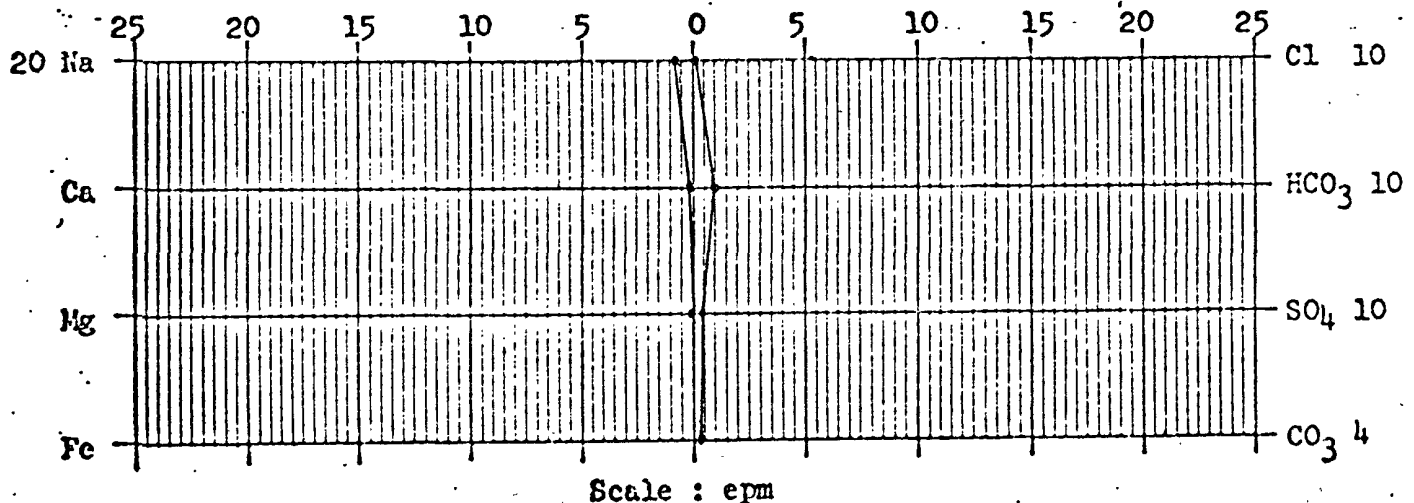
Sampled From _____

Date Sampled 7-10-81 By Robert J. Babnick

Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>317</u>	<u>13.8</u>	Chloride <u>4</u>
Calcium <u>4</u>	<u>.2</u>	Bicarbonate <u>581</u>
Magnesium <u>.5</u>	<u>.04</u>	Sulfate <u>170</u>
Iron <u>Absent</u>		Carbonate <u>26</u>
H ₂ S <u>Absent</u>		Hydroxide <u>0</u>
		Total Solids Dissolved <u>790</u>
		pH <u>8.7</u>
		Sp. Gr. <u>1.0064</u> At <u>60°F</u>
		Resistivity <u>1235</u> ohm-cm at <u>74°F</u>

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

Debbie Danetland RZE
Chemist



DAILY DRILLING REPORT

1604 W

55285#514

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE 7-10-81 19

MORNING

PAYLIGHT

EVENING

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.	
0	5	08			150	165	SS			325	335	SS			
5	50	SS			165	200	Sh			335	360	Sh			
50	105	Sh 1/4 SS			200	230	SS			360	406	SS			
105	150	Sh			230	325	Sh								
NO. DC _____ SIZE _____ LENG. _____					NO. DC _____ SIZE _____ LENG. _____					NO. DC _____ SIZE _____ LENG. _____					
NO. DC _____ SIZE _____ LENG. _____					NO. DC _____ SIZE _____ LENG. _____					NO. DC _____ SIZE _____ LENG. _____					
STANDS					STANDS					STANDS					
SINGLES					SINGLES					SINGLES					
DOWN ON KELLY					DOWN ON KELLY					DOWN ON KELLY					
MAKE					MAKE					MAKE					
MUD RECORD					MUD RECORD					MUD RECORD					
Time					Time					Time					
WT.					WT.					WT.					
VIS.					VIS.					VIS.					
TIME BREAKDOWN					TIME BREAKDOWN					TIME BREAKDOWN					
FROM	TO				FROM	TO				FROM	TO				

REMARKS -
U at 105
2 gal per min
Probe 406'

REMARKS -

REMARKS -

SIGNED: Toolpusher

[Signature]

Company Supervisor