30-039-21616

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

Operator MERIDIAN OIL Location: Unit SE Sec. 36 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #55A

cps 1404w

Elevation 6755' Completion Date 9/20/79 Total Depth 420' 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. 150' & 200' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 4600 lbs.

Depths anodes placed: 370', 360', 350', 275', 265', 255', 245', 235', 225', 215'

Depths vent pipes placed: 400'

Vent pipe perforations: 300'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
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.

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

CONTRACT 2

Drilling Log (Attach Hereto). ☐ Completion Date 9-20-79

Well Name	Location	CPS No.
SAN JUAN 29-7 #55A	SE 36-29-7	1404W

Type & Size Bit Used				Work Order No.
6 3/4		2" x 60" Durikon		57348.21
Anode Hole Depth	**Total Drilling Rig Time**	**Total Lbs. Coke Used**	**Lost Circulation Mat'l Used**	**No. Sacks Mud Used**
420 - 410TD		4600		

Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	380	360	360	~~350~~ 275	~~275~~ 265	~~265~~ 255	~~255~~ 245	~~245~~ 235	~~235~~ 225	215
Anode Output (Amps)	3.3	3.8	3.0	1.8	4.0	3.5	3.2	3.5	4.2	4.7
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 11.5	Amps 16	Ohms .7			

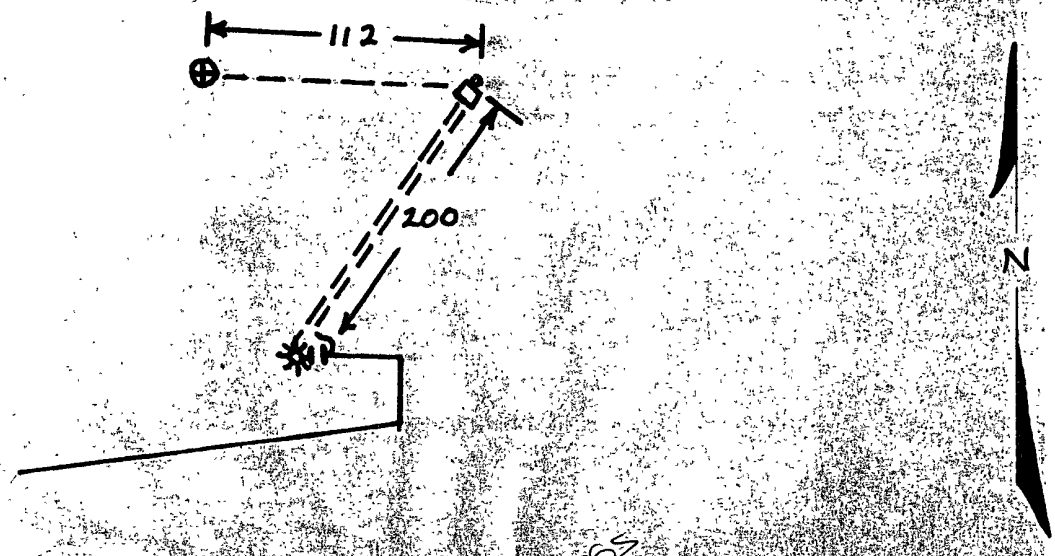
Remarks: ST C/S [illegible] = .92 WATER AT 150' AND 200' TOTAL WATER 5GPM Drilled 420' Logged 410' INST 400' VENT PIPE WITH 300' PERF Hole Bridged. Blew out with AIR compressor Lost bottom ANODE. Hole bridged AGAIN Above 5+6 pulled Anodes out Lost 30 FT OF shale. Hole bridged twice more beFore ANODES COVERED. SLURRIED 46 SACKS of coke

Hole depth = -90
STUB POLE
40V16A RECT
DITCH + CABLE = 312
EXTRA CABLE = 225

All Construction Completed

Robert J. Balink
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:
WHITE – Division Corrosion Office
YELLOW – Area Corrosion Office
PINK – Originator File

NO 185

Form 7-1 (Rev 9-77)

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 1 of 1
Date: 9-20-79
By: RJB
File:

1404W SE 36-29-7
ST 29-7 #55A 57348.21
ST % S 600' N = .92

9-20-79 = 14 hrs

140	1.2	360	1.5 —	WATER AT 150 FT AND 200 FT
5	1.6	5	1.8	TOTAL WATER APPROX 5 6.P.M.
50	1.9	70	2.2 —	DRILLED 420 FT Logged 410 FT
5	1.6	5	2.0	INST 400 FT OF VENT PIPE with
40	1.0	80	2.0 —	300 FT OF PERFORATIONS
5	.7	5	2.0	Hole Bridged Blew out Bridge
30	.6	90	1.6	with AIR compressor
5	.5	5	1.3	Hole Bridged AGAIN Above
80	.7	400	1.4	5+6 Pulled 5+6 out
5	.9	5		LOST #1 + hole 310 to 340
90	.8	10	—	FT hole Bridged twice
5	.9	5		more before Anodes
200	1.8	20		covered. 46 sacks coke
5	2.2			
10	2.4			
5	2.4			Charged 1-10 FT STALK OF
20	2.3			1" Ridgid conduit To this
5	1.8			LOCATION AT WAREHOUSE
30	1.7			
5	1.7			
40	1.5			Hole depth = -90
5	1.6			40U16A Rect
50	1.4			stub Pole -
5	1.7			DITCH AND cable = 312
60	2.3			EXTRA CABLE = 225
5	2.0			
70	1.8			
5	1.0			
80	.3			
5	.2			
90	.3			① 380 - 2.4 - 2.4
5	.2			① ② 370 - 2.4 - 3.3
300	.3			② ③ 360 - 2.7 - 3.8
5	.4			③ ④ 350 - 2.0 - 3.0
10	.5			④ ⑤ 275 - 1.1 - 1.8
5	.8			⑤ ⑥ 265 - 2.2 - 4.0
20	1.7 —			⑥ ⑦ 255 - 1.8 - 0.5
5	1.9			⑦ ⑧ 245 - 1.8 - 3.2
30	2.0 —			⑧ ⑨ 235 - 2.2 - 3.5
5	1.8			⑨ ⑩ 225 - 2.9 - 4.2
40	1.3 —			⑩ 215 - 3.0 - 4.7
5	1.4			
50	1.9 —			16 A 11.5 V = .7 ohms
5	1.7			

MW		gals/mol
16.04	C_1	6 4
30.07	C_2	10.12
44.10	C_3	10 42
58.12	iC_4	12 38
58.12	nC_4	11 93
72.15	iC_5	13 85
72.15	nC_5	13.71
86.18	iC_6	15 50
86.18	C_6	15.57
100.21	iC_7	17 2
100.21	C_7	17 46
114.23	C_8	19.39
28.05	$C_2^=$	9 64
42 08	$C_3^=$	9.67

MW	MISC.	gals/mol
32.00	O_2	3.37
28.01	CO	4 19
44.01	CO_2	6.38
64.06	SO_2	5.50
34.08	H_2S	5 17
28.01	N_2	4.16
2 02	H_2	3 38

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

Analysis No. 1-9783 Date 12-18-79

Operator El Paso Natural Gas Well Name San Juan 29-7 #55A

Location SE 36-29-7 County Rio Arriba State New Mexico

Field _____ Formation _____

Sampled From C.P.S. 1404 W

Date Sampled _____ By _____

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

	ppm	epm		ppm	epm
Sodium	523	23	Chloride	20	.6
Calcium	27	1	Bicarbonate	288	5
Magnesium	0	0	Sulfate	850	18
Iron			Carbonate	34	1
H_2S	Absent		Hydroxide	0	0

Total Solids Dissolved 1037

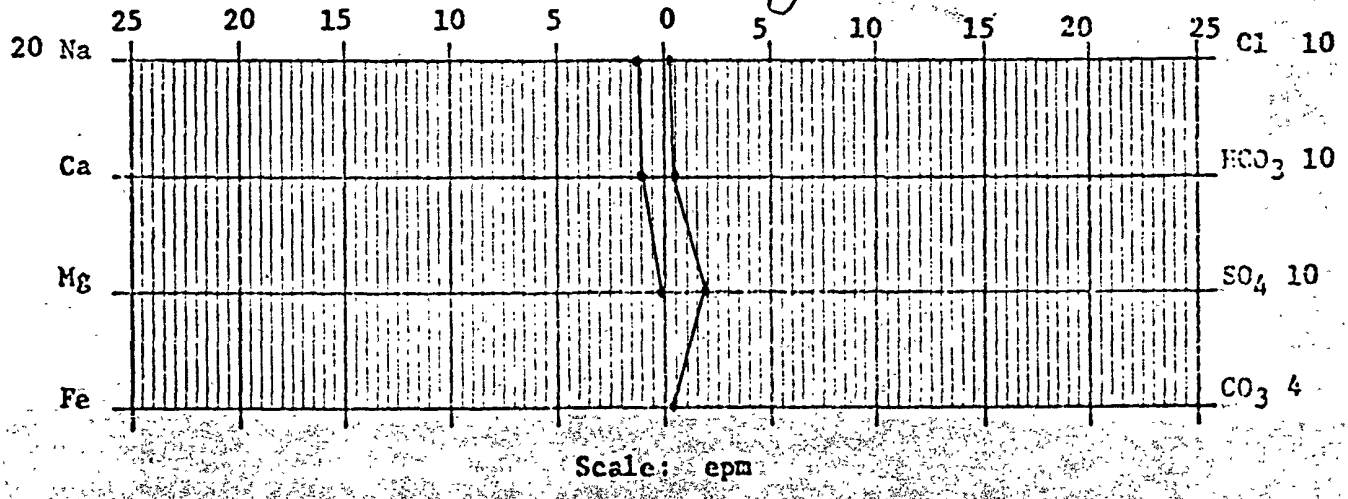
pH 8.6

Sp. Gr. 0.9968 at 60°F

Resistivity 323 ohm-cm at 70 °F

cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File
C. B. O'Nan
Water at 150'

Joe Barnett GCK
Chemist



Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE C.P.S. #1404W WELL NO. CONTRACTOR O'BRIANT CONTRACT #2 RIG NO. REPORT NO. DATE 9-20 1979

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SE, _ NO. NO. DC ____ SIZE ____ LENG. ____

SIZE STANDS

TYPE SINGLES

MAKE DOWN ON KELLY

TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN
0	65	SANDSTONE
65	105	SHALE SANDY
105	110	SHALE
110	120	SAND, DAMP
120	150	SANDSTONE MAKING H_2O
150	160	SANDY SHALE

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. NO. DC ____ SIZE ____ LENG. ____

SIZE 6 3/4" STANDS

TYPE SINGLES

MAKE DOWN ON KELLY

TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN
160	200	SAND - MAKING WATER
200	250	SHALE
250	255	SANDY SHALE
255	275	SHALE
275	320	SANDSTONE
320	362	SHALE

REMARKS –

Drilled 420'
LOGGED 420'
MAKING WATER @ 150'
MAKING WATER @ 200'
Approximately 3 gal.

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. NO. DC ____ SIZE ____ LENG. ____

SIZE STANDS

TYPE SINGLES

MAKE DOWN ON KELLY

TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN
362	370	SAND
370	420	SHALE

REMARKS –

SIGNED: Toolpusher O'BRIANT Company Supervisor Kurt Westmoreland