1293

14A - 30-039-22205

54E - 30-039-23813

E

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. 20 Twp 28 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #14A, #54E

cps 1598w

Elevation 6637' Completion Date 7/13/81 Total Depth 425' 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' SAMPLE TAKEN

Depths gas encountered: HOLE MAKING GAS

Type & amount of coke breeze used: 3500 lbs.

Depths anodes placed: 395', 385', 375', 365', 350', 340', 280', 270', 210', 200'

Depths vent pipes placed: 420'

Vent pipe perforations: 280'

Remarks: gb #1 HOLE CAVED AFTER #8 ANODE COKED.

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

Drilling Log (Attach Hereto). ☐ Completion Date 7-13-81

Well Name	Location	CPS No.
S.J. 28-5 #14A SHE	NW-20-28-5	1598W

Type & Size Bit Used	Work Order No.
6 3/4 Rock 2" X 60" Duriron	57923-21-50-20

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
425 Logged 421		APPROX 3500		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	395	385	375	365	350	340	280	270	210	200
Anode Output (Amps)	3.0	2.8	3.4	3.3	2.7	3.0	2.6	2.4	2.9	4.6
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 12.4	Amps 17.9	Ohms .69		

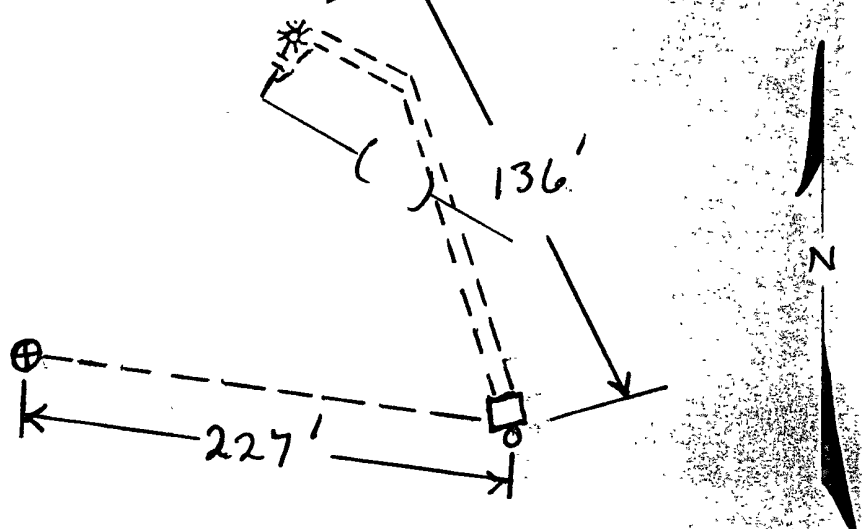
Remarks: STATIC c/s 600's = .85 1300MA+ UNION = OK
Driller SAID WATER AT 150FT Drilled TO 160FT 7-10-81 LEFT open over weekend, CAUGHT WATER SAMPLE 7-13-81. Drilled to 425' Logged 421'. TOTAL WATER APPROX 2BPM. GB MAKING GAS. INST. 420' VENT pipe @ 280' perF. HOLE CAVED AFTER #8 ANODE coked #9 & 10 stuck IN hole. Blew out bridge with AIR then FINISHED coking
Hole depth = 379'
Extra cable = 156'
Ditch & cable = 363'
STUB Pole
40U 16A Rect

	Reg.	O.T.
7-13	8	3

All Construction Completed

Robert J. Bahmet
(Signature)

GROUND BED LAYOUT SKETCH



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

6637

EL PASO NATURAL GAS COMPANY

Form 7-354 (Rev 11-77)

Sheet 1 of 1
Date: 7-13-81
By: RJB

1598W S.J. 28-5 #14A NW 20-28-5
57923-21-50-20
STATIC C/S 600 S = .85 1300 mA UNION = OK
10 FT = .72

1	50	.8	330	1.0	Driller Said WATER AT 150 FT Drilled
		.8		1.1	160' LEFT For weekend CAught WATER
	60	.8	40	1.2 - 6	SAMple monday AM. DrILLed to
		1.2		1.3	425FT @ AIR + WATER INj. Logged
	70	1.7	50	1.2 - 5	421 FT TOTAL WATER 2 GPM
		1.7		1.0	GB MAKING GAS
	80	1.6	60	.9	INST 420 FT VENT Pipe
		1.9		1.3 - 4	WITH 280 FT PERF.
	90	1.9	70	1.3	HoLe CAVed AFTeR #8
		1.9		1.3 - 3	COKed 9 + 10 STUCK BLEW
2	00	1.9 - 10	80	1.4	HoLe CLEAN WITH AIR
		1.7		1.3 - 2	FINISHED COKING HoLe
	10	1.4 - 9	90	1.0	
		.7		1.3 - 1	
	20	.2	400	1.0	
		.3		.6	
	30	.4	10	1.3	
		.4		1.4	
	40	.8	20	TD	
		1.1		421'	
	50	.7			
		.5			
	60	.4			
		.4			
	70	1.0 - 8			
		1.1			
	80	1.1 - 7			
		.9			
	90	.6			
		.3			
3	00	.3			
		.5			
	10	.3			
		.3			
	20	.3			
		.4			

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

MISC MW		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

① 395 — 1.7 — 3.0
② 385 — 1.7 — 2.8
③ 375 — 1.9 — 3.4
④ 365 — 1.7 — 3.3
⑤ 350 — 1.6 — ~~3.~~ 2.7
⑥ 340 — 1.8 — 3.0
⑦ 280 — 1.5 — 2.6
⑧ 270 — 1.4 — ~~2.~~ 2.4
⑨ 210 — 2.0 — 2.9
⑩ 200 — 3.4 — 4.6

12.4 V @ 17.9 A = .69 ohms

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

Analysis No. 1-10271 Date 7-28-81

Operator El Paso Natural Gas Well Name S.J. 28-5 #14A CPS 1598 W

Location NW 20-28-5 County Rio Arriba State New Mexico

Field Blanco Formation

Sampled From 150 ft.

Date Sampled 7-13-81 By Robert J. Babnick

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	968	42.1	Chloride	60	1.7
Calcium	262	13.1	Bicarbonate	539	8.8
Magnesium	74	6.1	Sulfate	2440	50.8
Iron	Absent		Carbonate	0	0
H_2S	Absent		Hydroxide	0	0

Total Solids Dissolved 3,854

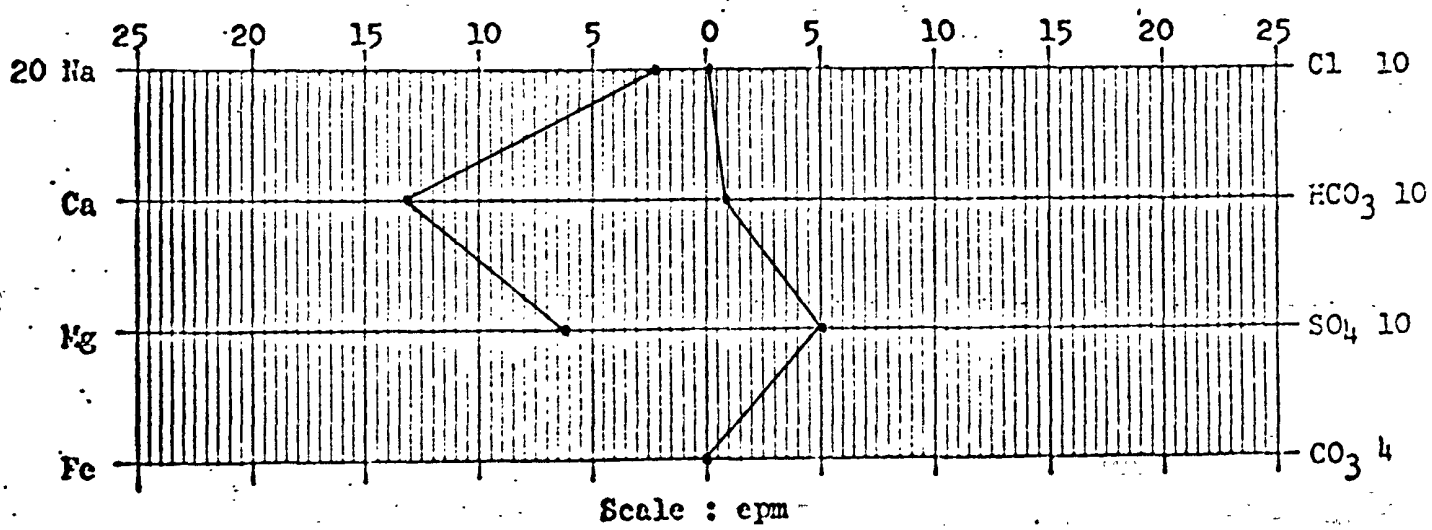
pH 7.5

Sp. Gr. 1.0054 At 60°F

Resistivity 211 ohm-cm at 75°F

Debbie Demtlow PZE
Chemist

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



Form 22-2 (Rev. 5-79)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE 159810 WELL NO. SJ 28-5 H 14H CONTRACTOR Stout Drilling RIG NO. REPORT NO. DATE 7-13 1981

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	10	CB		
10	60	Sh		
60	155	SS		
155	205	Sh		

BIT NO. NO. DC SIZE LENG.

S IAL 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

REMARKS –

Water at 150

2 gal per min

probe #21

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
205	270	SS w/Sh		
270	280	Sh		
280	330	SS		
330	395	Sh w/SS		

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

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
395	405	SS w/Gas		
405	425	Sh		

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

REMARKS –

SIGNED: Toolpusher Al Stout Company Supervisor