86-30-039-06997
171-30-039-20476

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. 24 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #86, #171

cps 1300w

Elevation 6352' Completion Date 9/5/78 Total Depth 335' Land Type* N/A

Casing, Sizes, Types & Depths 20' OF 8" CASING

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. 85', 185', 275'

Depths gas encountered: N/A

Type & amount of coke breeze used: 43 SACKS

Depths anodes placed: 205', 195', 160', 150', 140'

Depths vent pipes placed: 220'

Vent pipe perforations: 220'

Remarks: gb #1

Gb#1 Gb#2

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST.

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.

E

837 86
171

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. 24 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SNAN JUAN @* ¢ UNIT #86, #171

cps 1300w

Elevation 6352' Completion Date 9/5/78 Total Depth 335' 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. 85'

Depths gas encountered: N/A

Type & amount of coke breeze used: 37 SACKS

Depths anodes placed: 205', 195', 155', 145', 135'

Depths vent pipes placed: -20'

Vent pipe perforations: 200'

Remarks: gb #2

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 9-5-78

Well Name	Location	CPS No.
S.J. 28-6 # 86 # 171	NE 24-27-6	1300W

Type & Size Bit Used: 6 3/4"

Work Order No. #86 = 53606-19 #171 = 55202-19

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
335'	Anodes 1 thru 5	Hole #1	Anodes 6 thru 10 Hole #2	

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	205	195	160	150	140	205	195	155	145	135
Anode Output (Amps)	2.5	2.7	2.6	2.4	2.5	2.6	3.4	2.6	2.3	2.8
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. 12 C.P. Cable Used
Volts 11.9	Amps 11.9	Ohms 1.00		

Remarks: Static #86 600"NW=0.79. Static #171 600"N=0.74. Driller said water @ 85'. Next AM water standing @ 85' More water @ 185' & 295'. Installed 20' of 8" PVC casing in Hole #1. Bit Plugged @ 340'. Logged Hole. Room for 5 Anodes. Hole washed out to bad to go to mud. Move 30' & Drilled Hole #2, Installed 5 Anodes. Perforated 220' of 1" PVC Vent Pipe & Installed 220' of 1" PVC Vent Pipe Hole #1. Perforated 200' of 1" PVC Vent Pipe & Installed 220' of 1" PVC Vent Pipe Hole #2. Water Standing in Hole #1 After 3 Days @ 45'. Drilled Hole #2 to 180' to get Good Water. Hole #1 & Hole #2 making 40 gals per Min Each. All Construction Completed.

Slurryed 43 sacks of Coke Hole #1. Slurryed 37 sacks of Coke Hole #2

60V 30A Rectifier

20' Meter Pole

1 1/2" X 60" Dupiron

W. L. Lott (Signature)

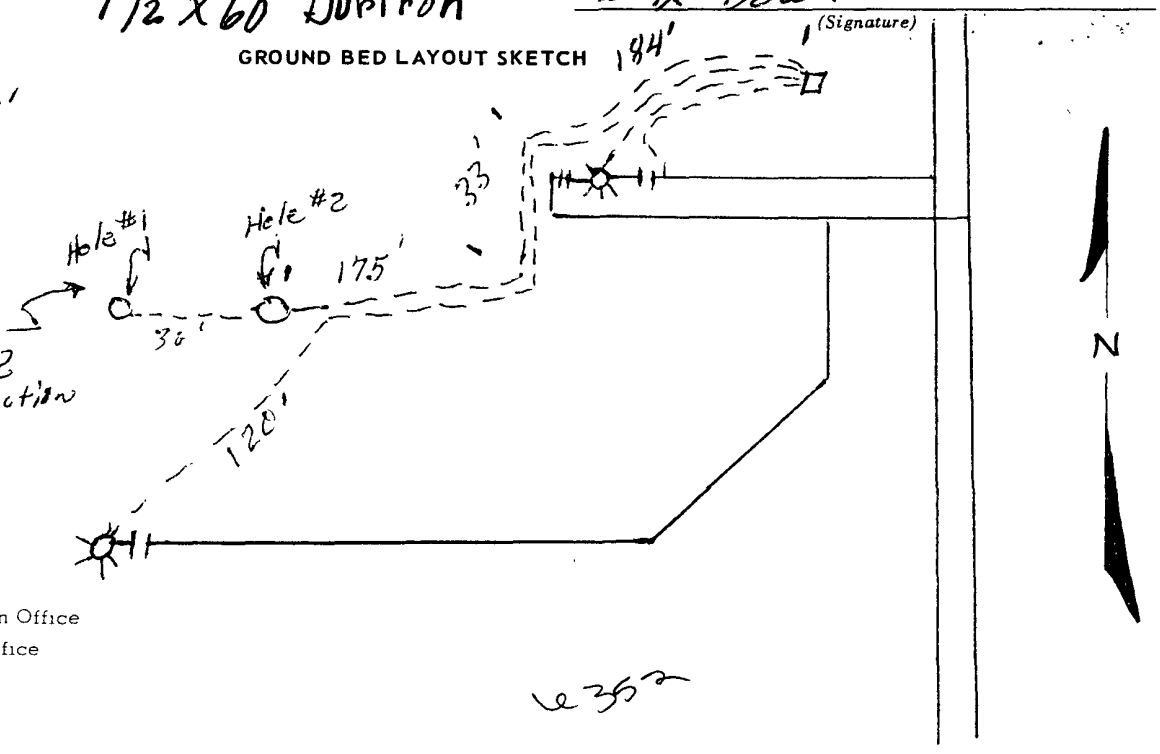
~~Hole Depth~~

Hole Depth = 165'

Ditch & 1 Cable = 612'

Extra Cable = 760'

GROUND BED LAYOUT SKETCH



Anodes in Hole #2 terminate in Junction Box @ Hole #2

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

e 352

Form (v. 9-77)

El Paso Natural Gas Company

ENGINEERING CALCULATION

Sheet: ___ of ___

Date:

By:

File:

582-1

601.9

53606-1966.7

55202-1976.0

Hole #1

S.J. 28-6 #86 — CPS 1300 W

S.J. 28-6 #171 — NE 24-27-6

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	$C_2^=$	9.84
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

STATIC #86 600' NW = 0.79

STATIC #171 600' N = 0.74

DRILLER SAID MAKING WATER @ 85' DRILLED TO 100'. NEXT A.M. WATER STANDING @ 85'

MORE WATER @ 185' & 275', 40 GALS PER MIN

PERFORATED 280' OF 1" PVC VENT PIPE

INSTALLED 220' OF 1" PVC VENT PIPE

SLURRYED 43 SACKS OF COKE — Hole #1

SLURRYED 37 SACKS OF COKE — Hole #2

PERFORATED 200' OF 1" PVC VENT PIPE

INSTALLED 220' OF 1" PVC VENT PIPE

80	.5		70	.4	
	.6			.5	
90	.5		80	.5	
	.3			.6	
100	.3		90	.7	
	.4		300	.6	
10	.4			.5	
	.4		10	.5	
20	.3			.4	
	.3		20	.5	
30	.5			.3	
	1.3		30	.3	
40	1.1	(5)		.3 TD	
	1.0		40		
50	1.0	(4)			
	1.0		50		
60	1.1	(3)			
	.8		60		
70	.8				
	.5		70		
80	.5				
	.7		80		
90	.8				
	1.1	(2)	90		
200	1.3				
	1.1	(1)	400		
	.6				
	.5				
	.5				
	.4				
	.4				
	.4				
	.4				
	.3				
	.3				
	.4				
	.4				
	.4				

Hole #1

(1)	205 – 1.3	2.5	12.1 volts
(2)	195 – 1.6	2.7	7.7 Amps
(3)	160 – 1.4	2.6	1.60 ohms
(4)	150 – 1.3	2.4	
(5)	140 – 1.3	2.5	

60V 30A Rectifier

20' Meter Pole

Hole Depth = ~165'

Ditch & Cable = 512'

Extra Cable = 760'

Hole #2

(6)	205 – 1.5	2.6	
(7)	195 – 2.1	3.4	
(8)	155 – 1.5	2.6	
(9)	145 – 1.4	2.3	
(10)	135 – 1.6	2.8	

Both Ckt Boss

Volts = 11.9

Amps = 11.9

Ohms = 1.00

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

Analysis No. 1-9338 Date SEPTEMBER 18, 1978

Operator EPNG Well Name SAN JUAN 28-6 #86 & #171

Location 24-27-6 County RIO ARRIBA State NM

Field Formation

Sampled From CPS 1400

Date Sampled By

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

	ppm	epm		ppm	epm
Sodium	409	17.8	Chloride	14	.4
Calcium	13	0.7	Bicarbonate	573	9.4
Magnesium	.5	.1	Sulfate	400	8.3
Iron	PRESENT		Carbonate	14	0.5
H_2S	ABSENT		Hydroxide	0	0

Total Solids Dissolved 560

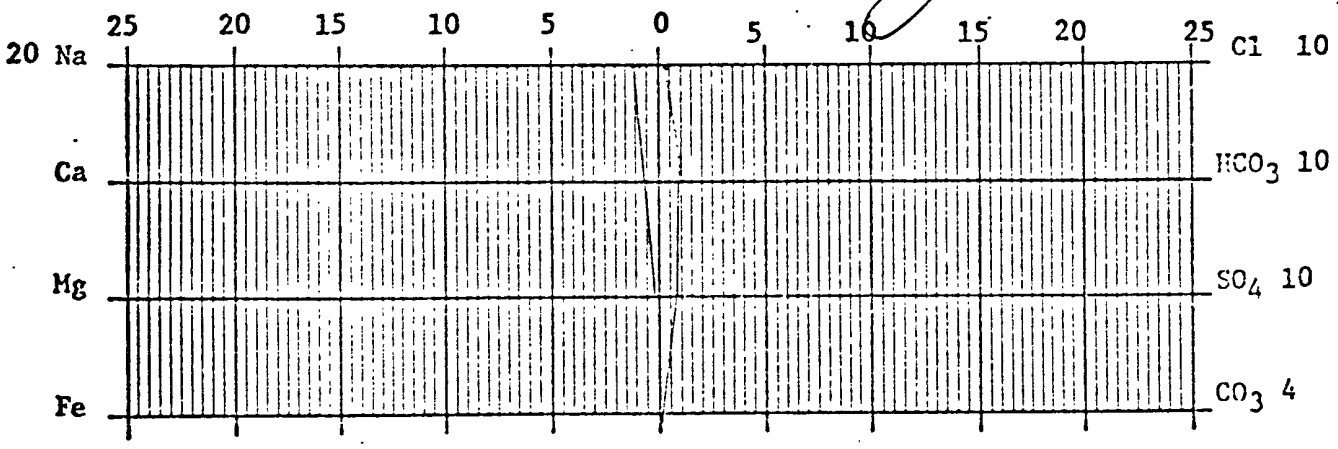
pH 8.5

Sp. Gr. 1.0014 at 60°F

Resistivity 600 ohm-cm at 71 °F

Chemist

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



Scale: epm

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE 1300 W WELL NO. 1300 W CONTRACTOR O'Brient Drilling RIG NO. 1 REPORT NO. 9 DATE Sept. 19 78

MORNING

Driller: Total Men In Crew:

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

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
0	23	Surface
23	38	Sandstone
38	45	Shale
45	50	Sandstone
50	65	Shale
65	135	Sandstone - (Water)

REMARKS –

DAYLIGHT

Driller: Total Men In Crew:

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

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
135	155	Shale
155	185	Sandstone - (Water)
185	195	Shale
195	205	Sandstone
205	215	Shale
215	225	Sandstone (Water)

REMARKS

EVENING

Driller: Total Men In Crew:

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

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
225	285	Sandstone with shale
285	335	Sandstone

REMARKS – Drilled 6 3/4 hole to 335
Logged to 335
Ent. water 40 G.P.M.

SIGNED: Toolpusher Butch Benoit Company Supervisor