30-039-21626

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 8 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #48A

cps 1403w

Elevation 6718' Completion Date 9/24/79 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. 110'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 375', 365', 355', 345', 330', 320', 310', 295', 285', 275'

Depths vent pipes placed: 410'

Vent pipe perforations: 320'

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

*Drilling Log (Attach Hereto).* ☐ Completion Date 9/24/79

| Well Name | Location | CPS No. |
|---|---|---|
| S.J. 29-7 # 48A | SE 8-29-7 | 1403 W |
| Type & Size Bit Used: 6 3/4" | | Work Order No.: 57347-21 |

| Anode Hole Depth | Total Drilling Rig Time | Total Lbs. Coke Used | Lost Circulation Mat'l Used | No. Sacks Mud Used |
|---|---|---|---|---|
| 420' T.D 410' | | | | |

| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Anode Depth | 375' | 365' | 355' | 345' | 330' | 320' | 310' | 295' | 285' | 275' |
| Anode Output (Amps) | 3.7 | 3.5 | 2.7 | 3.2 | 2.4 | 2.9 | 2.6 | 2.8 | 2.9 | 3.1 |
| Anode Depth | #11 | #12 | #13 | #14 | #15 | #16 | #17 | #18 | #19 | #20 |
| Anode Output (Amps) | | | | | | | | | | |

| Total Circuit Resistance | | | No. 8 C.P. Cable Used | No. 2 C.P. Cable Used |
|---|---|---|---|---|
| Volts 11.8 V | Amps 13.4 A | Ohms .88 Ω | | |

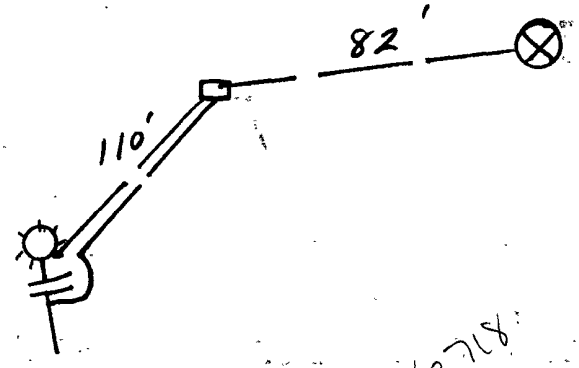
*Remarks:* STATIC 600' E=.84 V Driller said water at 110'. Approx. 1-2 gal/min. water sample would not settle out. Drilled to 420', Logged 410'. Installed 410' of 1" P.V.C. vent pipe perforated 320'.

Ditch + 1 cable = 192'
extra cable = 130'
Hole Depth = -90'
Stub Pole + 40V 16A Rect.

*All Construction Completed*

J E [signature] *(Signature)*

**GROUND BED LAYOUT SKETCH**




6718'

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

Form 7-1 (Rev 9-77)

El Paso Natural Gas Company
**ENGINEERING CALCULATION**

Sheet: ____ of ____
Date:
By:
File:

# S.J. 29-7 #48A

CPS # 1403 W  SE 8-29-7  N.O. 57347-21

| 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 |

Driller said water at 110'. Approx 1-2 gal./min. water sample would not settle out. Drilled to 420' T.D. 410' installed 410' of 1" P.V.C. vent pipe perforated 320'.

| | | |
|---|---|---|
| 110 — | 310 — 1.8 — ⑦ | |
| | 1.6 | |
| 20 — 1.6 | 20 — 1.8 — ⑥ | |
| 1.6 | 1.7 | |
| 30 — 1.8 | 30 — 1.6 — ⑤ | |
| 1.4 | 1.4 | |
| 40 — 1.1 | 40 — 1.7 | |
| 1.1 | 1.8 — ④ | |
| 50 — 1.0 | 50 — 1.7 | |
| .4 | 1.6 — ③ | |
| 60 — .4 | 60 — 1.6 | |
| .4 | 1.7 — ② | |
| 70 — .5 | 70 — 1.8 | |
| .5 | 2.1 — ① | |
| 80 — 1.1 | 80 — 2.0 | |
| 1.3 | 1.8 | 9/24/79 |
| 90 — 1.2 | 90 — 1.9 | |
| .6 | 1.6 | |
| 200 — .4 | 400 — 1.0 | |
| .3 | 1.0 | 11.8 V. 13.4 A = .88 Ω |
| 10 — .3 | 10 — | |
| .5 | | |
| 20 — 1.2 | 420 — | |
| 1.3 | | 1 — 375 — 2.6 — 3.7 |
| 30 — 1.2 | | 2 — 365 — 2.6 — 3.5 |
| 1.0 | | 3 — 355 — 2.0 — 2.7 |
| 40 — .7 | | 4 — 345 — 2.5 — 3.2 |
| .4 | | 5 — 330 — 1.9 — 2.4 |
| 50 — .5 | | 6 — 320 — 2.2 — 2.9 |
| .7 | | 7 — 310 — 2.0 — 2.6 |
| 60 — .8 | | 8 — 295 — 2.0 — 2.8 |
| .8 | | 9 — 285 — 2.0 — 2.9 |
| 70 — 1.5 | | 10 — 275 — 2.3 — 3.1 |
| 1.8 — ⑩ | | |
| 80 — 1.6 | | |
| 1.6 — ⑨ | | |
| 90 — 1.7 | | |
| 1.6 — ⑧ | | |
| 300 — 1.6 | | |
| 1.7 | | |

Form 22-2 (Rev. 1-61)

CP# 1402

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

# DAILY DRILLING REPORT

LEASE | WELL NO. | CONTRACTOR Rooney | RIG NO. | REPORT NO. | DATE 9-24 19 79

## MORNING

Driller | Total Men In Crew

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

BIT NO. | NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
SER NO. 6 3/4 | STANDS
SIZE | SINGLES
TYPE | DOWN ON KELLY
MAKE | TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| 0 | 10 | Surface |
| 10 | 69 | Sand Stone |
| 69 | 70 | Shale |
| 70 | 85 | Sand |
| 85 | 90 | Shale |
| 90 | 110 | Sand wet |

REMARKS –
110 - 130 Shale
130 - 140 Sand
140 - 160 Shale
160 - 220 Sand wet
220 - 240 Shale
240 - 245 Sand

## DAYLIGHT

Driller | Total Men In Crew

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

BIT NO. | NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. | STANDS
SIZE | SINGLES
TYPE | DOWN ON KELLY
MAKE | TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| | | |

Making 1 - 2 gal-min

REMARKS –
Started Drlg.

## EVENING

Driller | Total Men In Crew

Drilled 420/410 Feet

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

BIT NO. | NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. | STANDS
SIZE | SINGLES
TYPE | DOWN ON KELLY
MAKE | TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| 245 | 250 | Shale |
| 250 | 270 | Sand |
| 270 | 390 | Shale |
| 390 | 420 | Sand |

REMARKS –

SIGNED: Toolpusher Rooney | Company Supervisor