

893

E

71 - 30-039-07440

106- 30-039-20045

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

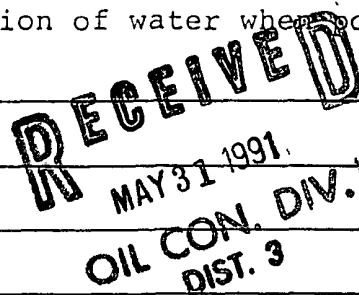
Operator MERIDIAN OIL Location: Unit NE Sec. 13 Twp 28 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #71, #106cps 1149wElevation 6543' Completion Date 8/24/77 Total Depth 382' Land Type\* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/A

Depths &amp; thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 155'Depths gas encountered: N/AType & amount of coke breeze used: 43 SACKSDepths anodes placed: 360', 350', 340', 330', 300', 265', 255', 245', 235', 225'Depths vent pipes placed: 320'Vent pipe perforations: 220'Remarks: gb #1

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

WELL CASING-

# CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

'Drilling Log (Attach Hereto). ☐

Completion Date 8-24-77

|                                                                 |                  |                            |                 |                                                               |                |
|-----------------------------------------------------------------|------------------|----------------------------|-----------------|---------------------------------------------------------------|----------------|
| Well Name <b>SAN JUAN 28-6 #71</b><br><b>SAN JUAN 28-6 #106</b> |                  | Location <b>NE 13-28-6</b> |                 | CPS No. <b>1149 W</b>                                         |                |
| Type & Size Bit Used <b>6 3/4"</b>                              |                  |                            |                 | Work Order No. <b>33267.19-50-20</b><br><b>54524.19-50-20</b> |                |
| Anode Hole Depth <b>1099.0'</b><br><b>400'</b>                  |                  | Total Drilling Rig Time    |                 | Total Lbs. Coke Used                                          |                |
| <b>382'</b>                                                     |                  |                            |                 | Lost Circulation Mat'l Used                                   |                |
| Anode Depth                                                     |                  | No. Sacks Mud Used         |                 |                                                               |                |
| # 1 <b>360</b>                                                  | # 2 <b>350</b>   | # 3 <b>340</b>             | # 4 <b>330</b>  | # 5 <b>300</b>                                                | # 6 <b>265</b> |
| # 7 <b>255</b>                                                  | # 8 <b>245</b>   | # 9 <b>235</b>             | # 10 <b>225</b> |                                                               |                |
| Anode Output (Amps)                                             |                  |                            |                 |                                                               |                |
| # 1 <b>2.3</b>                                                  | # 2 <b>2.0</b>   | # 3 <b>2.1</b>             | # 4 <b>1.8</b>  | # 5 <b>2.0</b>                                                | # 6 <b>2.0</b> |
| # 7 <b>2.1</b>                                                  | # 8 <b>2.2</b>   | # 9 <b>1.8</b>             | # 10 <b>1.8</b> |                                                               |                |
| 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 <b>4.7</b>                                                | Amps <b>15.1</b> | Ohms <b>77</b>             |                 |                                                               |                |

Remarks: DRILLER SAID HIT WATER AT 155', MAKIN ENOUGH WATER  
TO DRILL WITH.

Installed 320' of 1" Vent. Perforated 220' of Vent Pipe

STATIC 28-6 # 71 600' EAST = .82

STATIC 28-6<sup>th</sup> 106 600' EAST = .75

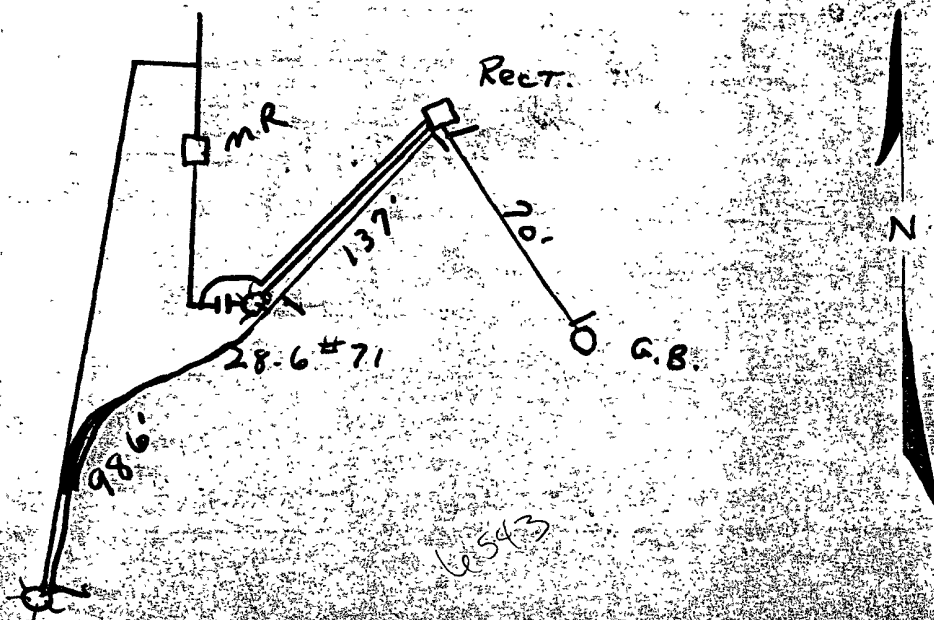
1 notch =  $28.6^\circ \pm 7^\circ$ , 3 notches =  $28.6^\circ \pm 10.6^\circ$

600 30A Rect STUBBED 43 SACKS COKE  
STUB POLE

## All Construction Completed

Walter Knight Jr.  
(Signature)

### GROUND BED LAYOUT SKETCH



DISTRIBUTION:

WHITE - Division Corrosion Office.

YELLOW - Area Corrosion Office

PINK - Originator File

El Paso Natural Gas Company  
ENGINEERING CALCULATION

210

Sheet: \_\_\_\_\_ of \_\_\_\_\_  
Date: \_\_\_\_\_  
By: \_\_\_\_\_  
File: \_\_\_\_\_

SAN JUAN 28-6 #71 W/O 53267.19-50-20  
SAN JUAN 28-6 #106 W/O 54524.19-50-20  
NE 13-28-6  
CPS 1149 W

| MW     |                 | gals/mol |
|--------|-----------------|----------|
| 16.04  | C <sub>1</sub>  | 6.4      |
| 30.07  | C <sub>2</sub>  | 10.12    |
| 44.10  | C <sub>3</sub>  | 10.42    |
| 58.12  | iC <sub>4</sub> | 12.38    |
| 58.12  | nC <sub>4</sub> | 11.93    |
| 72.15  | iC <sub>5</sub> | 13.85    |
| 72.15  | nC <sub>5</sub> | 13.71    |
| 86.18  | iC <sub>6</sub> | 15.50    |
| 86.18  | C <sub>6</sub>  | 15.57    |
| 100.21 | iC <sub>7</sub> | 17.2     |
| 100.21 | C <sub>7</sub>  | 17.46    |
| 114.23 | C <sub>8</sub>  | 19.39    |
| 28.05  | C <sub>2</sub>  | 9.64     |
| 42.08  | C <sub>3</sub>  | 9.67     |

| MW    | MISC             | gals/mol |
|-------|------------------|----------|
| 32.00 | O <sub>2</sub>   | 3.37     |
| 28.01 | CO               | 4.19     |
| 44.01 | CO <sub>2</sub>  | 6.38     |
| 64.06 | SO <sub>2</sub>  | 5.50     |
| 34.08 | H <sub>2</sub> S | 5.17     |
| 28.01 | N <sub>2</sub>   | 4.16     |
| 2.02  | H <sub>2</sub>   | 3.38     |

|                |          |        |         |                              |
|----------------|----------|--------|---------|------------------------------|
| STATIC #       | 71-600'  | E-.82  |         | DRILLER SAID HIT WATER AT    |
| STATIC #       | 106-600' | E-.75  |         | 155' MAKING ENOUGH TO DRILL  |
| 60V 30A. RECT. |          |        |         | WITH.                        |
| STUB Pole      |          |        |         | Installed 320' 1" VENT PIPE  |
|                |          |        |         | PERFORATED 220' 1" VENT PIPE |
|                |          |        |         | 43 SACS COKE                 |
| 160            | 1.6      | 60     | 1.7     |                              |
|                | 1.1      |        | 1.6 (6) |                              |
| 70             | .6       | 70     | .9      |                              |
|                | .4       |        | .5      |                              |
| 80             | .9       | 80     | .4      |                              |
|                | 1.6      |        | .6      |                              |
| 90             | 1.3      | 90     | .5      |                              |
|                | 1.3      |        | .6      |                              |
| 200            | 1.0      | 300    | 1.6 (5) |                              |
|                | .8       |        | 1.2     |                              |
| 10             | .6       | 10     | .6      |                              |
|                | .8       |        | .7      |                              |
| 20             | 1.5      | 20     | .8      |                              |
|                | 1.5 (10) |        | 1.3     |                              |
| 30             | 1.5      | 30     | 1.3 (4) |                              |
|                | 1.4 (7)  |        | 1.4     |                              |
| 40             | 1.4      | 40     | 1.7 (3) | ① 360 2.3 3.3                |
|                | 1.8 (8)  |        | 1.8     | ② 350 2.0 3.7                |
| 50             | 1.6      | 50     | 1.5 (2) | ③ 340 2.1 3.3                |
|                | 1.7 (7)  |        | 1.4     | ④ 330 1.8 2.7                |
|                |          |        | 1.6 (1) | ⑤ 300 2.0 2.8                |
|                |          | 60     | 1.8     | ⑥ 265 2.0 3.5                |
|                |          | 70     | 1.6     | ⑦ 255 2.1 3.8                |
|                |          | 80     | 1.4     | ⑧ 245 2.2 3.7                |
|                |          |        |         | ⑨ 235 1.8 3.2                |
|                |          |        |         | ⑩ 225 1.8 3.1                |
|                |          | logged | 382     |                              |
|                |          | T.D    | 400     | 11.7 Volts                   |
|                |          |        |         | 15.1 AMPS                    |
|                |          |        |         | .77 ohms                     |

| LEASE  | WELL NO. | CONTRACTOR | RIG NO. | REPORT NO. | DATE    |
|--------|----------|------------|---------|------------|---------|
| 1149 W |          | POSEY      |         |            | 8-24-79 |

[illegible]