

1365

#46 30-039-07112

E

#126 30-039-20400

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

Operator MERIDIAN OIL Location: Unit SW Sec. 7 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #46, #126  
cps 1697w

Elevation 6524' Completion Date 9/14/83 Total Depth 540' 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. 190' - 200' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5500 lbs.

Depths anodes placed: 490', 480', 470', 460', 410', 400', 385', 375', 365', 355'

Depths vent pipes placed: 520'

Vent pipe perforations: 360'

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.

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

Drilling Log (Attach Hereto). ☐Completion Date 9-14-83

|                          |      |                          |      |                   |      |                       |      |                                                                       |      |
|--------------------------|------|--------------------------|------|-------------------|------|-----------------------|------|-----------------------------------------------------------------------|------|
| CPS #                    |      | Well Name, Line or Plant |      | Work Order #      |      | Static                |      | Ins Union Check                                                       |      |
| 1697W                    |      | San Juan 27-5 # 126      |      | 54805-19-50-20-14 |      | 600' SW = .75         |      | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |      |
|                          |      | San Juan 27-5 # 46       |      | 53711-19-50-20-64 |      | 600' N = .73          |      |                                                                       |      |
| Location                 |      | Anode Size               |      | Anode Type        |      | Size Bit              |      |                                                                       |      |
| SW 7-27-5                |      | 2" x 60"                 |      | Duriron           |      | 6 3/4" Rock           |      |                                                                       |      |
| Depth Drilled            |      | Depth Logged             |      | Drilling Rig Time |      | Total Lbs. Coke Used  |      | Lost Circulation Mat'l Used                                           |      |
| 540'                     |      | 526'                     |      |                   |      | 5500                  |      |                                                                       |      |
| Anode Depth              |      |                          |      |                   |      |                       |      |                                                                       |      |
| # 1                      | 490  | # 2                      | 480  | # 3               | 470  | # 4                   | 460  | # 5                                                                   | 410  |
| # 6                      | 400  | # 7                      | 385  | # 8               | 375  | # 9                   | 365  | # 10                                                                  | 355  |
| Anode Output (Amps)      |      |                          |      |                   |      |                       |      |                                                                       |      |
| # 1                      | 1.94 | # 2                      | 3.60 | # 3               | 3.15 | # 4                   | 2.54 | # 5                                                                   | 2.45 |
| # 6                      | 1.99 | # 7                      | 1.90 | # 8               | 2.46 | # 9                   | 2.53 | # 10                                                                  | 2.91 |
| 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 11.78              |      | Amps 11.4                |      | Ohms 1.03         |      |                       |      |                                                                       |      |

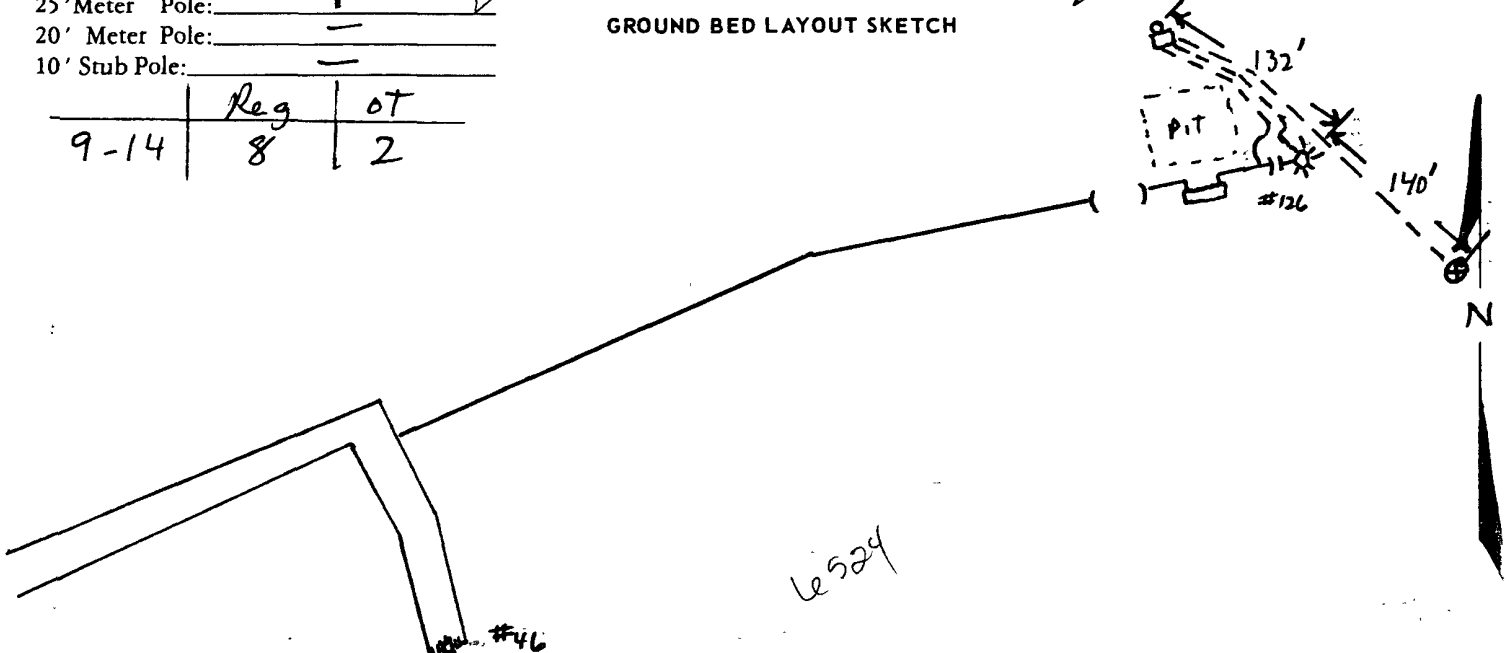
Remarks: Wet 190' to 200' Drilled to 270' water at 180ft next AM.  
 caught water sample Drilled to 540' Logged 526'  
 INST 520' OF vent Pipe with 360 Ft of perforations. Slurried  
 approx 5500 Lbs of coke

Rectifier Size: 60 V 30 A  
 Addn'l Depth +26 ✓  
 Depth Credit: —  
 Extra Cable: 294 ✓  
 Ditch & 1 Cable: 272 ✓  
 25' Meter Pole: 1 ✓  
 20' Meter Pole: —  
 10' Stub Pole: —

All Construction Completed

*Robert J. Bahrick*  
 (Signature)

## GROUND BED LAYOUT SKETCH



## ENGINEERING CALCULATION SHEET

Form 7-371 (11-77)

1697W

San Juan 27-S #

126-SW7-27-5, 54805-19-50-20-64-ST 600' W = .75 / 35 ma  
46- " " " , 53711-19-50-20-64-ST 600' N = .73 / 566 ma

Page 1

Date 9-14-83

By RJB

FL-24

FL-83

|    |     |      |     |      |     |      |      |
|----|-----|------|-----|------|-----|------|------|
| 26 | 190 | .57  | 320 | .42  | 450 | .51  |      |
| 25 |     | .85  |     | .41  |     | 1.06 |      |
| 24 | 200 | .79  | 330 | 1.93 | 460 | 1.95 | -4   |
| 23 |     | 1.36 |     | 2.43 |     | 2.13 |      |
| 22 | 210 | 1.56 | 340 | 2.20 | 470 | 1.83 | -3   |
| 21 |     | 1.48 |     | 1.94 |     | 2.14 |      |
| 20 | 220 | 1.62 | 350 | 1.42 | 480 | 2.12 | -2   |
| 19 |     | 2.07 |     | 1.70 | -10 | 1.38 |      |
| 18 | 230 | 1.65 | 360 | 1.40 | 490 | 1.26 | -1   |
| 17 |     | 1.02 |     | 1.35 | -9  | .67  |      |
| 16 | 240 | .58  | 370 | 1.29 | 500 | .51  |      |
| 15 |     | .31  |     | 1.38 | -8  | .65  |      |
| 14 | 250 | .33  | 380 | 1.27 | 510 | .66  |      |
| 13 |     | .32  |     | 1.25 | -7  | .78  |      |
| 12 | 260 | .32  | 390 | 1.15 | 520 | .52  |      |
| 11 |     | .37  |     | 1.12 |     |      | -526 |
| 10 | 270 | 1.54 | 400 | 1.20 | -6  | 530  |      |
| 9  |     | 2.03 |     | 1.38 |     |      |      |
| 8  | 280 | 1.62 | 410 | 1.72 | -5  | 540  |      |
| 7  |     | 1.21 |     | .92  |     |      |      |
| 6  | 290 | .94  | 420 | .81  |     |      |      |
| 5  |     | .55  |     | .64  |     |      |      |
| 4  | 300 | .51  | 430 | .54  |     |      |      |
| 3  |     | .38  |     | .65  |     |      |      |
| 2  | 310 | .58  | 440 | .62  |     |      |      |
| 1  |     | .43  |     | .47  |     |      |      |

10 hrs

Wet From 190'-200' Drilled 270  
Water at 180' next AM caught sample  
Drilled to 540' Logged 526'  
INST 520' vent pipe with  
360' of Perforation Slurried 5500

- ① 490 - 1.22 - 1.94
- ② 480 - 2.23 - 3.60
- ③ 470 - 1.83 - 3.15
- ④ 460 - 1.61 - 2.54
- ⑤ 450 - 1.80 - 2.45
- ⑥ 400 - 1.17 - 1.99
- ⑦ 385 - 1.23 - 1.90
- ⑧ 375 - 1.32 - 2.46
- ⑨ 365 - 1.36 - 2.53
- ⑩ 355 - 1.60 - 2.91

$$11.58V / 1.4 A = 1.03 \text{ ohms}$$

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

Analysis No. 1-10917 Date November 15, 1983

Operator El Paso Natural Gas Well Name San Juan 27-5 #126 CPS 1697W

Location SW 7-27-5 County Rio Arriba State New Mexico

Field Blanco Formation \_\_\_\_\_

Sampled From 190 feet CPS 1697W

Date Sampled September 14, 1983 By Robert Babnick

|                        |             |                           |
|------------------------|-------------|---------------------------|
| Tbg. Press. _____      | Csg. _____  | Surface Csg. Press. _____ |
| ppm                    | epm         | ppm                       |
| Sodium <u>419</u>      | <u>18.2</u> | Chloride <u>40</u>        |
|                        |             | <u>0.8</u>                |
| Calcium <u>TRACE</u>   |             | Bicarbonate <u>427</u>    |
|                        |             | <u>7.0</u>                |
| Magnesium <u>TRACE</u> |             | Sulfate <u>500</u>        |
|                        |             | <u>10.4</u>               |
| Iron _____             |             | Carbonate <u>0</u>        |
|                        |             | <u>0</u>                  |
| H <sub>2</sub> S _____ |             | Hydroxide <u>0</u>        |
|                        |             | <u>0</u>                  |

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

Total Solids Dissolved 1,174

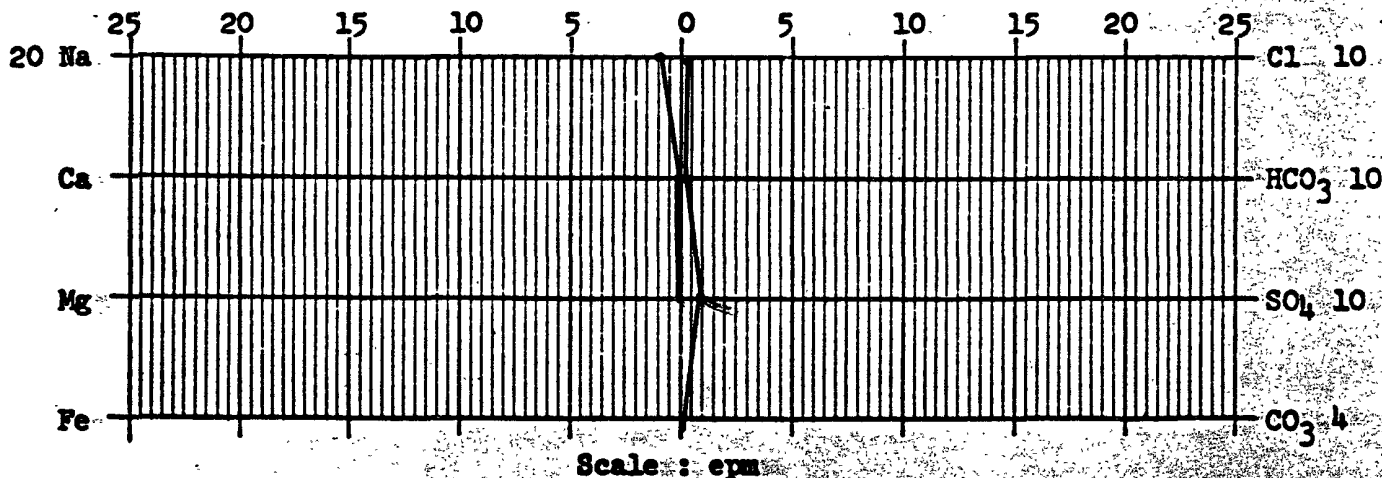
pH 8.35

Sp. Gr. 1.0005 At 60°F

Resistivity 532 ohm-cm at 75°F

Joe Barnett

Chemist GCK



#126

198

DAYLIGHT

## EVENING

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

[illegible]

REMARKS -

water came to 180 ft top  
of hole  $\frac{1}{2}$  gal min.

water at 315 ft 3rd Armin

Company Supervisor

John J. Schuch