

1392

E

30-039-21914

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. 1 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #84A

cps 162lw

Elevation 6489' Completion Date 8/27/81 Total Depth 305' 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' SAMPLE TAKEN

Depths gas encountered: N/A

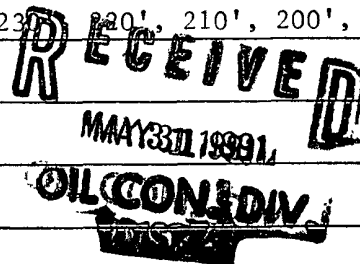
Type & amount of coke breeze used: 3900 lbs.

Depths anodes placed: 280', 270', 260', 250', 240', 230', 220', 210', 200', 190'

Depths vent pipes placed: 300'

Vent pipe perforations: 240'

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

Drilling Log (Attach Hereto). ☒

Completion Date 8-27-81

|                                                               |                                                          |                                         |                             |                          |      |
|---------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-----------------------------|--------------------------|------|
| Well Name<br><u>San Juan 29-7 #84A</u>                        |                                                          | Location<br><u>SE 1-29-7</u>            |                             | CPS No.<br><u>1621-W</u> |      |
| Type & Size Bit Used<br><u>6 3/4" 2" x 60" Duriron Anodes</u> |                                                          | Work Order No.<br><u>57927-21-50-20</u> |                             |                          |      |
| Anode Hole Depth<br><u>Drilled 305, logged 303</u>            | Total Drilling Rig Time<br><u>approx. 3,900 lbs Bulk</u> | Total Lbs. Coke Used                    | Lost Circulation Mat'l Used | No. Sacks Mud Used       |      |
| Anode Depth                                                   | # 1                                                      | # 2                                     | # 3                         | # 4                      | # 5  |
|                                                               | 280                                                      | 270                                     | 260                         | 250                      | 240  |
| Anode Output (Amps)                                           | # 1                                                      | # 2                                     | # 3                         | # 4                      | # 5  |
|                                                               | 2.90                                                     | 2.78                                    | 2.82                        | 2.43                     | 3.33 |
| Anode Depth                                                   | # 6                                                      | # 7                                     | # 8                         | # 9                      | # 10 |
|                                                               | 230                                                      | 220                                     | 210                         | 200                      | 190  |
| Anode Output (Amps)                                           | # 6                                                      | # 7                                     | # 8                         | # 9                      | # 10 |
|                                                               | 3.24                                                     | 3.15                                    | 2.80                        | 3.20                     | 3.31 |
| Anode Depth                                                   | # 11                                                     | # 12                                    | # 13                        | # 14                     | # 15 |
|                                                               |                                                          |                                         |                             |                          |      |
| Anode Output (Amps)                                           | # 11                                                     | # 12                                    | # 13                        | # 14                     | # 15 |
|                                                               |                                                          |                                         |                             |                          |      |
| Total Circuit Resistance                                      | Volts                                                    |                                         | Amps                        |                          | Ohms |
|                                                               | 12.06                                                    |                                         | 15.4                        |                          | .78  |
| No. 8 C.P. Cable Used                                         |                                                          |                                         | No. 2 C.P. Cable Used       |                          |      |

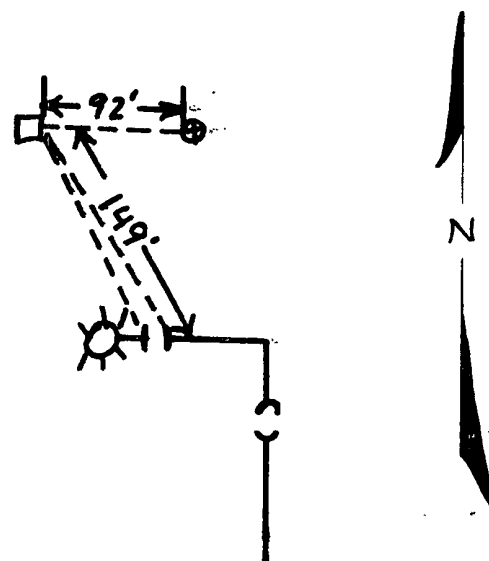
Remarks: Static C<sub>1</sub>s = 7.87 600'N 660 ma<sup>+</sup> union OK Driller said  
water @ 85'. Blew water from hole on 2nd day of Drilling.  
Drilled to 305, logged 303. Installed 300' of 1" PVC vent pipe,  
240' with perforations. Slurried approx. 3,900 lbs Coke  
Down hole.

Hole Depth = 197' ✓  
Extra Cable = 169' ✓  
Ditch Cable = 241' ✓  
Stub pole ✓  
40-16 Rect. ✓

All Construction Completed

C.W. Donohue  
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

WHITE - Division Corrosion Office  
 YELLOW - Area Corrosion Office  
 PINK - Originator File

6489

CPS 1621-W 33-29-7 # 84A

LEASE WELL NO. CONTRACTOR *Story Drilling* RIG NO. REPORT NO. DATE *8-27-81* 19

| MORNING    |     |                   |                                  |        | DAYLIGHT   |     |                   |                                  |        | EVENING    |     |                   |                                  |        |
|------------|-----|-------------------|----------------------------------|--------|------------|-----|-------------------|----------------------------------|--------|------------|-----|-------------------|----------------------------------|--------|
| Driller    |     | Total Men In Crew |                                  |        | Driller    |     | Total Men In Crew |                                  |        | Driller    |     | Total Men In Crew |                                  |        |
| FROM       | TO  | FORMATION         | WT-BIT                           | R.P.M. | FROM       | TO  | FORMATION         | WT-BIT                           | R.P.M. | FROM       | TO  | FORMATION         | WT-BIT                           | R.P.M. |
| 0          | 10  | OK                |                                  |        | 295        | 305 | SS                |                                  |        |            |     |                   |                                  |        |
| 10         | 85  | SS                |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| 85         | 105 | SS w/gh           |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| 105        | 295 | SS                |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| BIT NO.    |     | NO. DC SIZE LENG. |                                  |        | BIT NO.    |     | NO. DC SIZE LENG. |                                  |        | BIT NO.    |     | NO. DC SIZE LENG. |                                  |        |
| S. L NO.   |     | STANDS            |                                  |        | SERIAL NO. |     | STANDS            |                                  |        | SERIAL NO. |     | STANDS            |                                  |        |
| SIZE       |     | SINGLES           |                                  |        | SIZE       |     | SINGLES           |                                  |        | SIZE       |     | SINGLES           |                                  |        |
| TYPE       |     | DOWN ON KELLY     |                                  |        | TYPE       |     | DOWN ON KELLY     |                                  |        | TYPE       |     | DOWN ON KELLY     |                                  |        |
| MAKE       |     | TOTAL DEPTH       |                                  |        | MAKE       |     | TOTAL DEPTH       |                                  |        | MAKE       |     | TOTAL DEPTH       |                                  |        |
| MUD RECORD |     |                   | MUD, ADDITIVES USED AND RECEIVED |        | MUD RECORD |     |                   | MUD, ADDITIVES USED AND RECEIVED |        | MUD RECORD |     |                   | MUD, ADDITIVES USED AND RECEIVED |        |
| Time       | Wt. | Vis.              |                                  |        | Time       | Wt. | Vis.              |                                  |        | Time       | Wt. | Vis.              |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| FROM       | TO  | TIME BREAKDOWN    |                                  |        | FROM       | TO  | TIME BREAKDOWN    |                                  |        | FROM       | TO  | TIME BREAKDOWN    |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
|            |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| REMARKS -  |     |                   |                                  |        | REMARKS -  |     |                   |                                  |        | REMARKS -  |     |                   |                                  |        |
| Water 85   |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| Lagged 303 |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |
| TD 305     |     |                   |                                  |        |            |     |                   |                                  |        |            |     |                   |                                  |        |

SIGNED: Toolpusher

*Al Story*

Company Supervisor

San Juan 29-7 # 84 A  
 WD# 57927-21-50-20  
 Static C<sub>15</sub> = .87

SE 1-29-7

600N 660ma<sup>+</sup> union OK

CPS 1621-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     |

SP  
 40-116

Hole Depth = 197'  
 Extra Cable = 169'  
 Ditch Cable = 241'

Driller said water @ 85'. Blew  
 water from hole on 2nd day of  
 Drilling. Got water sample. Drilled  
 to 305. Logged 303.

1 0 0.155 20 0 1.65 9 300 1.30

1.38

1.67

TD 303

1 0 1.27 1 0 1.42 9 10

1.37

1.43

2 0 1.55 2 0 1.67 9

1.34

1.51

3 0 1.48 3 0 1.62 9

1.56

1.85

4 0 1.94 4 0 1.64 9

1.81

1.45

5 0 1.58 5 0 1.34 9

1.58

1.58

6 0 1.69 6 0 1.52 9

1.75

1.52

7 0 1.59 7 0 1.45 9

1.72

1.50

8 0 1.60 8 0 1.53 9

1.61

1.48

9 0 1.65 9 0 1.55

1.47

1.32

① 280-2.20 2.90

② 270 2.03 2.78

③ 260 2.14 2.82

④ 250 1.90 2.43

⑤ 240 2.45 3.33

⑥ 230 2.44 3.24

⑦ 220 2.37 3.15

⑧ 210 1.94 2.80

⑨ 200 2.40 3.20

⑩ 190 2.36 3.31

| 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     |

Logged 303

Volts = 12.06

Amps = 15.4

OHms = .78 Ω

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

Analysis No. 1-10316 Date 9-15-81

Operator El Paso Natural Gas Well Name San Juan 29-7 #84A CPS 1621-W

Location SE 1-29-7 County Rio Arriba State New Mexico

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

Sampled From 85'

Date Sampled 8-27-81 By Bill Donohue

Tbg. Press. \_\_\_\_\_ Csg. \_\_\_\_\_ Surface Csg. Press. \_\_\_\_\_

|        |            |            |          |           |            |
|--------|------------|------------|----------|-----------|------------|
|        | ppm        | epm        |          | ppm       | epm        |
| Sodium | <u>150</u> | <u>6.5</u> | Chloride | <u>10</u> | <u>0.3</u> |

|         |            |            |             |            |            |
|---------|------------|------------|-------------|------------|------------|
|         | ppm        | epm        |             | ppm        | epm        |
| Calcium | <u>102</u> | <u>5.1</u> | Bicarbonate | <u>281</u> | <u>4.6</u> |

|           |          |            |         |            |            |
|-----------|----------|------------|---------|------------|------------|
|           | ppm      | epm        |         | ppm        | epm        |
| Magnesium | <u>9</u> | <u>0.7</u> | Sulfate | <u>360</u> | <u>7.5</u> |

|      |          |         |           |          |          |
|------|----------|---------|-----------|----------|----------|
|      | ppm      | epm     |           | ppm      | epm      |
| Iron | <u>.</u> | <u></u> | Carbonate | <u>0</u> | <u>0</u> |

|                  |          |         |           |          |          |
|------------------|----------|---------|-----------|----------|----------|
|                  | ppm      | epm     |           | ppm      | epm      |
| H <sub>2</sub> S | <u>.</u> | <u></u> | 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 776

pH 7.8

Sp. Gr. 0.9974 At 60°F

Resistivity 909 ohm-cm at 74°F

HCO<sub>3</sub> taken to pH 4.0

Dennis P. Bird RZE  
Chemist

