

1281

30-045-23830

E

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. 7 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY J #1A  
cps 1577

Elevation 6273' Completion Date 9/9/81 Total Depth 400' 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. 100' - 120' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 4000 lbs.

Depths anodes placed: 365', 335', 315', 295', 275', 250', 235', 165', 150', 135'

Depths vent pipes placed: 400'

Vent pipe perforations: 300'

Remarks: gb #1

**RECEIVED**  
**MAY 31 1981**  
**OIL CON. DIV.**  
**DIST. 2**

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 9-9-81

|                                                           |                                      |                                     |                                 |                       |                 |
|-----------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------|-----------------------|-----------------|
| Well Name <u>SUNRAY "J" 1A</u>                            |                                      | Location <u>SE 7-30-10</u>          |                                 | GPS No. <u>1577 W</u> |                 |
| Type & Size Bit Used <u>6 3/4" UNION OK STATIC = .89N</u> |                                      | Work Order No. <u>57676-21-50-2</u> |                                 |                       |                 |
| Anode Hole Depth <u>400 LOG 387</u>                       | Total Drilling Rig Time <u>4,000</u> | Total Lbs. Cathodes <u>4,000</u>    | Total C. Foulation <u>4,000</u> | No. Sacks Mud Used    |                 |
| Anode Depth                                               | # 1 <u>365</u>                       | # 2 <u>335</u>                      | # 3 <u>315</u>                  | # 4 <u>295</u>        | # 5 <u>275</u>  |
|                                                           | # 6 <u>250</u>                       | # 7 <u>235</u>                      | # 8 <u>165</u>                  | # 9 <u>150</u>        | # 10 <u>135</u> |
| Anode Output (Amps)                                       | # 1 <u>446</u>                       | # 2 <u>365</u>                      | # 3 <u>492</u>                  | # 4 <u>543</u>        | # 5 <u>548</u>  |
|                                                           | # 6 <u>460</u>                       | # 7 <u>334</u>                      | # 8 <u>310</u>                  | # 9 <u>375</u>        | # 10 <u>320</u> |
| 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                                  | Volts <u>10.95</u>                   |                                     | Amps <u>23.1</u>                |                       | Ohms <u>.47</u> |
| No. 1 C.P. Cable Used                                     |                                      | No. 2 C.P. Cable Used               |                                 |                       |                 |

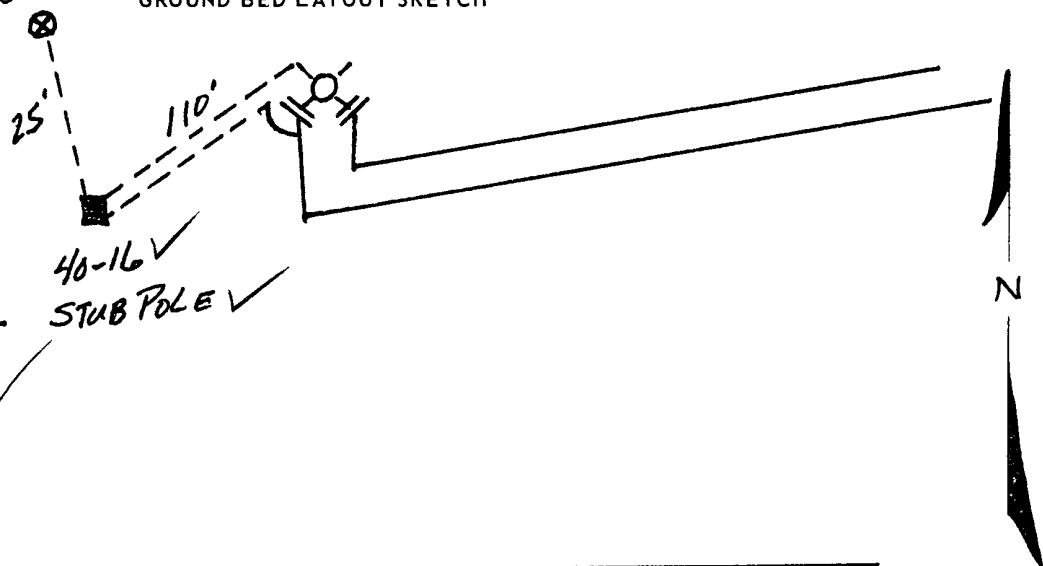
Remarks: WET 100'-120' DRILLED TO 140" SET  
OVER NIGHT. BLOW SAMPLE NEXT  
AM 100'-1" PLAIN VENT PIPE BALANCE  
PERFORATED

DITCH #1 CABLE = 135' ✓  
XTRA CABLE = 130' ✓  
HOLE = 113' ✓

All Construction Completed

BT  
(Signature)

GROUND BED LAYOUT SKETCH



| TIME   | REG | OT  |
|--------|-----|-----|
| 9-9-81 | 8   | 2 ✓ |

DISTRIBUTION:

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

0273

AC  
EXISTING

1577W  
 SUNRAY "J" #1A

57676-21-50-

SE 7-30-10

WET 100' - 120' DRILLED TO 140' SET OVER  
 NIGHT BLOW SAMPLE NEXT AM.  
 100' 1" PLAIN VENT PIPE BALANCE PERFORATED

DRILLED TO 400' LOG TO 387'

| MW     | gals/mol  |
|--------|-----------|
| 16 04  | C1 6.4    |
| 30 07  | C2 10.12  |
| 44 10  | C3 10.42  |
| 58 12  | iC4 12.38 |
| 58 12  | nC4 11.93 |
| 72 15  | iC5 13.85 |
| 72 15  | nC5 13.71 |
| 86 18  | iC6 15.50 |
| 86 18  | C6 15.57  |
| 100 21 | iC7 17.2  |
| 100 21 | C7 17.46  |
| 114 23 | C8 19.39  |
| 28 05  | C2 9.64   |
| 42 08  | C3 9.67   |

| MW    | MISC | gals/mol |
|-------|------|----------|
| 32 00 | O2   | 3.37     |
| 28 01 | CO   | 4.19     |
| 44 01 | CO2  | 6.38     |
| 64 06 | SO2  | 5.50     |
| 34 08 | H2S  | 5.17     |
| 28 01 | N2   | 4.16     |
| 2 02  | H2   | 3.38     |

| 410          |             |             |             |  |  |
|--------------|-------------|-------------|-------------|--|--|
| 20 4.09      | 5 1.42      | 80 3.13     | 55 3.21     |  |  |
| 25 3.48      | 10 1.31     | 85 3.17     | 60 3.24 - 1 |  |  |
| 30 3.03 - 10 | 15 1.41     | 90 3.24     | 65 3.25     |  |  |
| 35 2.92      | 20 1.39     | 95 3.48 - 4 | 70 3.29     |  |  |
| 40 1.92      | 25 1.58     | 300 3.59    | 75 3.20     |  |  |
| 45 2.82      | 30 1.42     | 5 3.57      | 80 3.29     |  |  |
| 50 2.89 - 9  | 35 1.32 - 7 | 10 3.40     | 85 — 387'   |  |  |
| 55 2.58      | 40 2.24     | 15 3.62 - 3 | 90          |  |  |
| 60 2.36      | 45 2.92     | 20 3.39     | 95          |  |  |
| 65 2.37 - 8  | 50 2.75     | 25 3.63     | 400         |  |  |
| 70 2.14      | 55 2.80 - 6 | 30 3.62     |             |  |  |
| 75 1.91      | 60 2.70     | 35 3.15 - 2 |             |  |  |
| 80 1.70      | 65 2.56     | 40 2.96     |             |  |  |
| 85 1.78      | 70 3.14     | 45 3.14     |             |  |  |
| 90 1.60      | 75 3.07 - 5 | 50 3.24     |             |  |  |
| 95 1.43      |             |             |             |  |  |
| 200 1.62     |             |             |             |  |  |

|        |     |     |
|--------|-----|-----|
| 1 365  | 324 | 446 |
| 2 335  | 310 | 365 |
| 3 315  | 358 | 492 |
| 4 295  | 368 | 543 |
| 5 275  | 350 | 548 |
| 6 260  | 335 | 460 |
| 7 235  | 200 | 334 |
| 8 165  | 211 | 310 |
| 9 150  | 320 | 375 |
| 10 135 | 260 | 320 |

10.95 Volts  
 23.1 Amps  
 .47  $\Omega$

## DAILY DRILLING REPORT

LEASE Sunray "J" #1A WELL NO. CES 1577W CONTRACTOR Henry Drilling RIG NO.            REPORT NO.            DATE Sept 9 1961

| 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. |
|         |    |                   |        |        |          |    |                   |        |        |         |    |                   |        |        |
|         |    |                   |        |        |          |    |                   |        |        |         |    |                   |        |        |
|         |    |                   |        |        |          |    |                   |        |        |         |    |                   |        |        |

|              |  |               |      |       |            |  |               |      |       |            |  |               |      |       |
|--------------|--|---------------|------|-------|------------|--|---------------|------|-------|------------|--|---------------|------|-------|
| BIT NO.      |  | NO. DC        | SIZE | LENG. | BIT NO.    |  | NO. DC        | SIZE | LENG. | BIT NO.    |  | NO. DC        | SIZE | LENG. |
| S. I. 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 |
|------|-----|----------------|------|----|----------------|------|----|----------------|
| 0    | 100 | Spud           |      |    |                |      |    |                |
| 100  | 150 | Shale          |      |    |                |      |    |                |
| 150  | 220 | Spud           |      |    |                |      |    |                |
| 220  | 300 | Shale          |      |    |                |      |    |                |
| 300  |     |                |      |    |                |      |    |                |

|                    |           |           |
|--------------------|-----------|-----------|
| REMARKS -          | REMARKS - | REMARKS - |
| Water 100          |           |           |
| Drilled 400 TO 387 |           |           |
|                    |           |           |
|                    |           |           |
|                    |           |           |
|                    |           |           |
|                    |           |           |
|                    |           |           |

SIGNED: Toolpusher

Steve Henry

Company Supervisor

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

Analysis No. 1-10323 Date 9-18-81

Operator El Paso Natural Gas Well Name Sun Ray J-1A CPS 1577 W

Location SE 7-30-10 County San Juan State New Mexico

Field Kutz Formation \_\_\_\_\_

Sampled From 100' - 120'

Date Sampled 9-9-81 By B.T.

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

|        |     |     |          |     |     |
|--------|-----|-----|----------|-----|-----|
|        | ppm | epm |          | ppm | epm |
| Sodium | 143 | 6.2 | Chloride | 22  | 0.6 |

|         |     |      |             |     |     |
|---------|-----|------|-------------|-----|-----|
|         | ppm | epm  |             | ppm | epm |
| Calcium | 572 | 28.6 | Bicarbonate | 224 | 3.7 |

|           |     |     |         |       |      |
|-----------|-----|-----|---------|-------|------|
|           | ppm | epm |         | ppm   | epm  |
| Magnesium | 78  | 6.4 | Sulfate | 1,775 | 36.9 |

|      |     |     |           |     |     |
|------|-----|-----|-----------|-----|-----|
|      | ppm | epm |           | ppm | epm |
| Iron | .   | .   | Carbonate | 0   | 0   |

|                  |     |     |           |     |     |
|------------------|-----|-----|-----------|-----|-----|
|                  | ppm | epm |           | ppm | epm |
| H <sub>2</sub> S | .   | .   | Hydroxide | 0   | 0   |

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

Total Solids Dissolved 2,834

pH 7.6

Sp. Gr. 0.9974 At 60°F

Resistivity 333 ohm-cm at 74 °F

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

Dennis P. Bird  
Chemist *WBS*

