

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

(Submit 3 copies to OCD Aztec Office)

API 30-045-24819

3313

Operator E.P.F.S. Location: Unit SE Sec. 14 Twp 29 Rng 13

Name of Well/Wells or Pipeline Served Roberts G.C.B.#1-E #52900023

Elevation \_\_\_\_\_ Completion Date 4-14-97 Total Depth 300 Land Type \* P

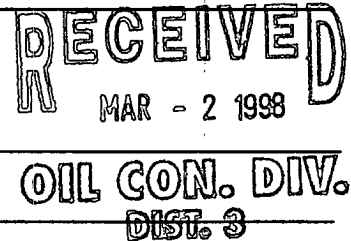
Casing, Sizes, Types & Depths 8 5/8" P.V.C. 25'

If Casing is cemented, show amounts & types used 14 Bags Zia Type 1 & 2

If Cement or Bentonite Plugs have been placed, show depths & amounts used \_\_\_\_\_

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

Fresh, Clear, Salty, Sulphur, Etc. \_\_\_\_\_



Depths gas encountered: \_\_\_\_\_

Type & amount of coke breeze used: Waresco SW - 3200 lbs

Depths anodes placed: 145-260

Depths vent pipes placed: 260'

Vent pipe perforations: 120'

Remarks: Boulders - 3' to 25'

*O H Aavel*

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.

## DEEP WELL GROUND BED DATA

DATE April 14, 1997COMPANY EPFS/AmocoCOUNTY San Juan STATE NMCONTRACT NO. FC-96-1000UNIT NO. 52900023LOCATION Roberts G.C. B#1EGROUNDBED: DEPTH 300 Ft., DIA. 7 7/8 In., ANODES (10) 2 x 60 SHA-2CASING: SIZE 8 In., DEPTH 25 Ft.

| DEPTH<br>FT. | DRILLER'S LOG     | RESISTIVITY |      | ANODE<br>NUMBER | DEPTH TO<br>ANODE TOP | BEFORE<br>COKE | AFTER<br>COKE |
|--------------|-------------------|-------------|------|-----------------|-----------------------|----------------|---------------|
|              |                   | OHMS        | AMPS |                 |                       |                |               |
| 5            | Casing            |             |      |                 |                       |                |               |
| 10           | "                 |             |      |                 |                       |                |               |
| 15           | "                 |             |      |                 |                       |                |               |
| 20           | "                 |             |      |                 |                       |                |               |
| 25           | Shale             |             |      |                 |                       |                |               |
| 30           | "                 |             |      |                 |                       |                |               |
| 35           | "                 |             |      |                 |                       |                |               |
| 40           | "                 |             | 1.8  |                 |                       |                |               |
| 45           | "                 |             | 1.5  |                 |                       |                |               |
| 50           | "                 |             | 1.4  |                 |                       |                |               |
| 55           | "                 |             | 1.7  |                 |                       |                |               |
| 60           | "                 |             | 1.5  |                 |                       |                |               |
| 65           | "                 |             | 1.4  |                 |                       |                |               |
| 70           | "                 |             | 1.6  |                 |                       |                |               |
| 75           | "                 |             | 1.5  |                 |                       |                |               |
| 80           | "                 |             | 1.6  |                 |                       |                |               |
| 85           | "                 |             | 1.7  |                 |                       |                |               |
| 90           | "                 |             | 1.5  |                 |                       |                |               |
| 95           | "                 |             | 1.6  |                 |                       |                |               |
| 100          | Sandy Shale       |             | 1.3  |                 |                       |                |               |
| 105          | "                 |             | 1.3  |                 |                       |                |               |
| 110          | Shale             |             | 1.6  |                 |                       |                |               |
| 115          | "                 |             | 1.4  |                 |                       |                |               |
| 120          | "                 |             | 1.4  |                 |                       |                |               |
| 125          | "                 |             | 1.6  |                 |                       |                |               |
| 130          | "                 |             | 1.6  |                 |                       |                |               |
| 135          | "                 |             | 1.6  |                 |                       |                |               |
| 140          | "                 |             | 1.6  |                 |                       |                |               |
| 145          | "                 |             | 1.5  | 10              | 145                   | 1.5            | 5.8           |
| 150          | "                 |             | 1.6  |                 |                       |                |               |
| 155          | "                 |             | 1.6  | 9               | 155                   | 1.6            | 5.5           |
| 160          | "                 |             | 1.6  |                 |                       |                |               |
| 165          | "                 |             | 1.5  | 8               | 165                   | 1.5            | 5.6           |
| 170          | "                 |             | 1.4  |                 |                       |                |               |
| 175          | "                 |             | 1.7  |                 |                       |                |               |
| 180          | "                 |             | 1.6  | 7               | 180                   | 1.8            | 6.4           |
| 185          | "                 |             | 1.8  |                 |                       |                |               |
| 190          | "                 |             | 1.5  | 6               | 190                   | 1.5            | 5.8           |
| 195          | "                 |             | 1.7  |                 |                       |                |               |
| 200          | "                 |             | 1.5  | 5               | 200                   | 1.5            | 5.7           |
| 205          | "                 |             | 1.4  |                 |                       |                |               |
| 210          | Sandstone & Shale |             | 1.4  |                 |                       |                |               |
| 215          | "                 |             | 1.6  |                 |                       |                |               |
| 220          | Shale             |             | 1.8  | 4               | 220                   | 1.8            | 6.6           |
| 225          | "                 |             | 1.5  |                 |                       |                |               |
| 230          | "                 |             | 1.5  | 3               | 230                   | 1.5            | 5.2           |
| 235          | "                 |             | 1.4  |                 |                       |                |               |
| 240          | Shale             |             | 1.5  | 2               | 240                   | 1.5            | 5.1           |

COMPANY EPFS/AmocoDATE April 14, 1997LOCATION Roberts G.C. B#1EUNIT NO. 52900023

| DEPTH<br>FT | DRILLER'S LOG | RESISTIVITY<br>OHMS | AMPS | ANODE<br>NUMBER | DEPTH TO<br>ANODE TOP | BEFORE<br>COKE | AFTER<br>COKE |
|-------------|---------------|---------------------|------|-----------------|-----------------------|----------------|---------------|
| 245         | Shale         |                     | 1.4  |                 |                       |                |               |
| 250         | "             |                     | 1.4  |                 |                       |                |               |
| 255         | "             |                     | 1.4  |                 |                       |                |               |
| 260         | "             |                     | 1.5  | 1               | 260                   | 1.6            | 5.2           |
| 265         | "             |                     | 1.4  |                 |                       |                |               |
| 270         | "             |                     | 1.3  |                 |                       |                |               |
| 275         | "             |                     | 1.3  |                 |                       |                |               |
| 280         | "             |                     | 1.5  |                 |                       |                |               |
| 285         | "             |                     |      |                 |                       |                |               |
| 290         | "             |                     |      |                 |                       |                |               |
| 295         | "             |                     |      |                 |                       |                |               |
| 300         | Shale         |                     |      |                 |                       |                |               |
| 305         |               |                     |      |                 |                       |                |               |
| 310         |               |                     |      |                 |                       |                |               |
| 315         |               |                     |      |                 |                       |                |               |
| 320         |               |                     |      |                 |                       |                |               |
| 325         |               |                     |      |                 |                       |                |               |
| 330         |               |                     |      |                 |                       |                |               |
| 335         |               |                     |      |                 |                       |                |               |
| 340         |               |                     |      |                 |                       |                |               |
| 345         |               |                     |      |                 |                       |                |               |
| 350         |               |                     |      |                 |                       |                |               |
| 355         |               |                     |      |                 |                       |                |               |
| 360         |               |                     |      |                 |                       |                |               |
| 365         |               |                     |      |                 |                       |                |               |
| 370         |               |                     |      |                 |                       |                |               |
| 375         |               |                     |      |                 |                       |                |               |
| 380         |               |                     |      |                 |                       |                |               |
| 385         |               |                     |      |                 |                       |                |               |
| 390         |               |                     |      |                 |                       |                |               |
| 395         |               |                     |      |                 |                       |                |               |
| 400         |               |                     |      |                 |                       |                |               |
| 405         |               |                     |      |                 |                       |                |               |
| 410         |               |                     |      |                 |                       |                |               |
| 415         |               |                     |      |                 |                       |                |               |
| 420         |               |                     |      |                 |                       |                |               |
| 425         |               |                     |      |                 |                       |                |               |
| 430         |               |                     |      |                 |                       |                |               |
| 435         |               |                     |      |                 |                       |                |               |
| 440         |               |                     |      |                 |                       |                |               |
| 445         |               |                     |      |                 |                       |                |               |
| 450         |               |                     |      |                 |                       |                |               |
| 455         |               |                     |      |                 |                       |                |               |
| 460         |               |                     |      |                 |                       |                |               |
| 465         |               |                     |      |                 |                       |                |               |
| 470         |               |                     |      |                 |                       |                |               |
| 475         |               |                     |      |                 |                       |                |               |
| 480         |               |                     |      |                 |                       |                |               |
| 485         |               |                     |      |                 |                       |                |               |
| 490         |               |                     |      |                 |                       |                |               |
| 495         |               |                     |      |                 |                       |                |               |
| 500         |               |                     |      |                 |                       |                |               |
| 505         |               |                     |      |                 |                       |                |               |
| 510         |               |                     |      |                 |                       |                |               |