

A2 = 30-039-71968  
 A4 = 30-039-20740

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

Operator Union Oil Company of California Location: Unit Sec. 20 Twp 26N Rng 6W

Name of Well/Wells or Pipeline Serviced Sanchez A2 DK, Sanchez A4 CH

Elevation 6500' Completion Date 10-31-89 Total Depth 300' Land Type\* F

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

**RECEIVED**  
 MAY 14 1990  
 OIL CON. DIV.

If Cement or Bentonite Plugs have been placed, show depths & amounts used None

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

Fresh, Clear, Salty, Sulphur, Etc. NA

Depths gas encountered: NA

Type & amount of coke breeze used: Carbo 60 2500 lbs

Depths anodes placed: 352' to 300'

Depths vent pipes placed: 295'

Vent pipe perforations: 250'

Remarks: Unocal was the operator at the time this ground bed was installed

First ground bed installed at this location

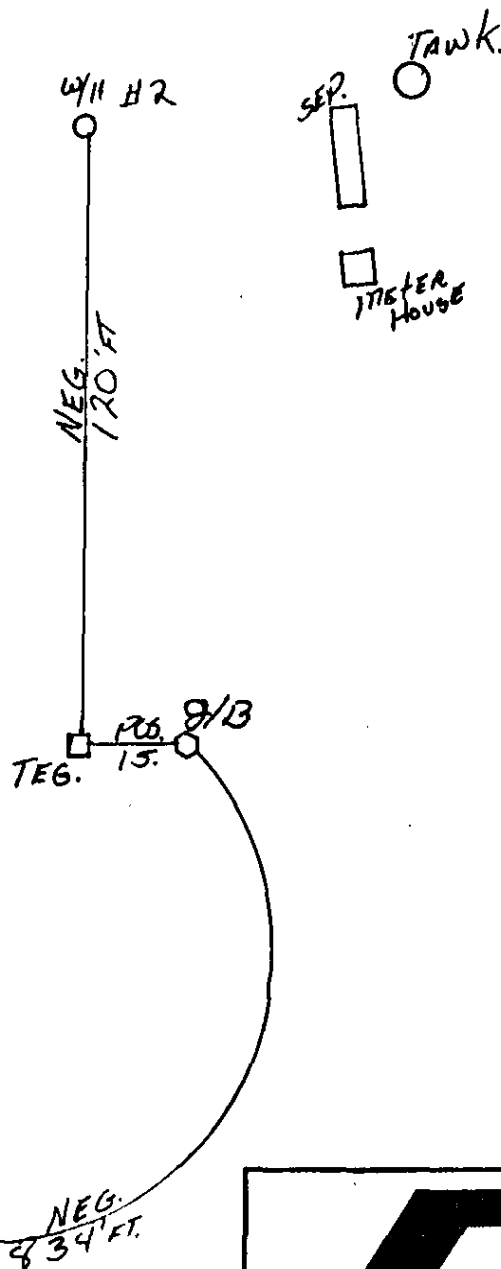
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
 If Federal or Indian, add Lease Number.

COMPANY Unocal JOB NO. 751-10027 DATE: 10-31-89  
 WELL: SANJAEZ A2 PIPELINE: Rfo Arriba  
 LOCATION: SEC. 20 TWP. 26N R. 6W CO. San Juan STATE N.M.  
 ELEV. \_\_\_\_\_ FT: ROTARY 300 FT: CABLE TOOL 0 FT: CASING 0 FT  
 GROUNDED: DEPTH 300 FT. DIA. 10 IN. GAS 1100 LBS. ANODES 11M STRIKE 6

| DEPTH, FT. | DRILLER'S LOG | EXPLORING ANODE TO STRUCTURE |   |   | NO COKE | WITH COKE | ANODE NO. | DEPTH, TOP OF ANODES |
|------------|---------------|------------------------------|---|---|---------|-----------|-----------|----------------------|
|            |               | E                            | I | R |         |           |           |                      |
| 200        |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 10         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 20         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 30         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 10         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 50         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 60         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 70         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 80         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 90         |               |                              |   |   |         |           |           |                      |
| 5          |               |                              |   |   |         |           |           |                      |
| 300        | TD 300        |                              |   |   |         |           |           |                      |

GROUNDED RESISTANCE: (1) VOLTS 12.54 - AMPS 8.7 - 1.44 OHMS  
 (2) VEROGROUND \_\_\_\_\_ OHMS



PIPE 120' FT  
POS. 15' FT  
NEG. 954' FT

# CPS

**Cathodic Protection Services**

A **LUKENS** COMPANY

SANCHEZ A # 2

SANCHEZ A # 4

DES **CF**  
DR **BF**  
SCALE **NONE**

CK **TF**  
APP  
DATE **11-21-89**

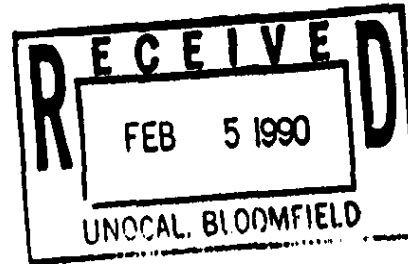
DWG. NO. **00027-01**

NO.

REVISION

DATE

Catholic Protection Services Company  
P. O. Box 388  
Farmington, New Mexico 87499  
1608 Schofield Lane  
Farmington, New Mexico 87401  
(505) 325-1946



February 2, 1990

Unocal Corporation  
3300 N. Butler, Suite 201  
Farmington, NM 87401

Attention: Mr. Steve Gregory

Subject: Major Water Zones in Cathodic Protection Deep-Well Groundbeds

Dear Mr. Gregory:

Per your recent request for information concerning the cathodic protection deep-well groundbeds for your well casings in the San Juan Basin area, we are pleased to submit the following information.

| Township & Range | Depths Ranging From<br>Shallowest to Deepest | Average Depth | Average Thickness of<br>Water Zone |
|------------------|----------------------------------------------|---------------|------------------------------------|
| T-25N - R-10W    | 110' - 140'                                  | 122.5'        | 20'                                |
| T-25N - R-11W    | 60' - 140'                                   | 93.3'         | 45'                                |
| T-26N - R-7W     | 80' - 150'                                   | 112.5'        | 30'                                |
| T-27N - R-7W     | 80' - 200'                                   | 123.3'        | 22.5'                              |
| T-27N - R-6W     | 80' - 200'                                   | 131.1'        | 30'                                |

This data reflects information supplied by the drilling logs acquired at the time the wells were drilled. The depths shown are based on the type of sand which was being extruded from the drilled hole and the dampness of the sand.

The thickness of the water zones are determined by the change in the strata which was being drilled.

It has been a pleasure providing this information to your company. If you have any further questions or desire additional information, please do not hesitate to contact us.

Sincerely,

Catholic Protection Services Company

  
John Kerr, Corrosion Technician

cc: Mike Tabet

**CPS**  
Catholic Protection Services  
A LARSEN COMPANY