

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS IN  
NORTHWEST NEW MEXICO

OPERATOR: Williams Production Company LOCATION: H 28 31 4 LEASE NUMBER: SF-078994

NAME OF WELL/WELLS OR PIPELINE SERVICED: ROSA UNIT #087 GL/DK 30-039-22767  
DUALWELL N/A

ELEVATION: 6925' GR COMPLETION DATE: 11/15/85 TOTAL DEPTH: 500 ft. LAND TYPE: FED

CASING: 7-5/8" 26.4# K-55 Set @ N/A ft. Casing is not cemented.

CEMENT PLUG--Top:N/A' Bottom: N/A' Used 0 sx. Class "B" (1.18 cu.ft./sk).

WATER DEPTH: 280' Water zone thickness not available. WATER DESCRIPTION: Fresh

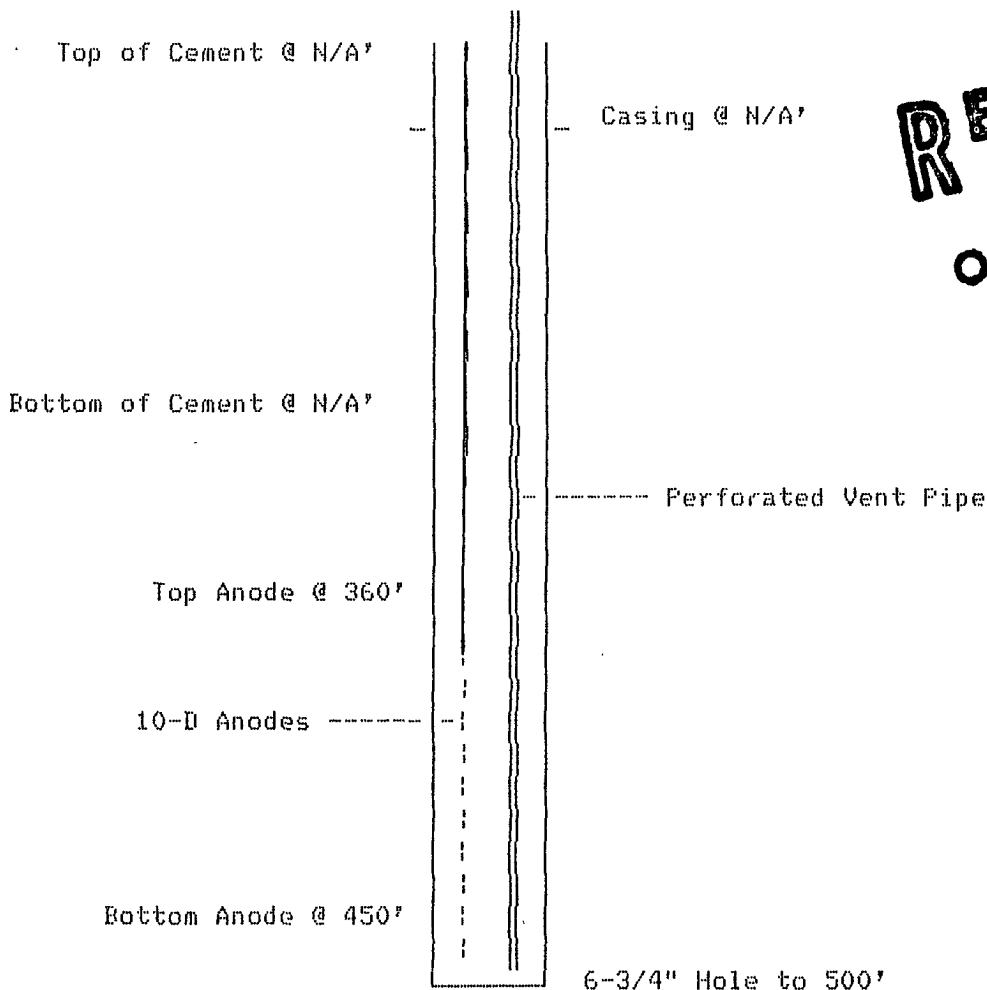
DEPTH OF GAS: N/A'

COKE: 5130 lbs. of Metallurgical coke breeze used.

NUMBER & TYPE OF ANODES: 10-D TOP ANODE @ 360 ft. BOTTOM ANODE @ 450 ft.

VENT PIPE: 1" PVC Set @ 500 ft. Vent pipe perforated from 340 ft. to 500 ft.

REMARKS: \_\_\_\_\_



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DEC 11 1991  
OIL CON. DIV.  
DIST. 3

WELL TYPE GROUND BED DATA

DATA SHEET NO. \_\_\_\_\_

10F2

COMPANY Northwest Pipeline JOB No. 85-50A DATE: 11-15-85  
 WELL: Rosa Unit #87 PIPELINE: \_\_\_\_\_  
 LOCATION: SEC. 28 TWP. 31N RGE. 4W CO. Piñon Arriba STATE New Mexico  
 ELEV. \_\_\_\_\_ FT: ROTARY 500' FT: CABLE TOOL 0' FT: CASING 0'  
 GROUND BED: DEPTH 500' FT. DIA. 6 3/4 IN. GAS 6400 LBS. ANODES 10 Type D

| DEPTH,<br>FT. | DRILLER'S LOG<br><u>FIRST WATER @ 280'</u> | EXPLORING ANODE<br>TO STRUCTURE |     |   | NO<br>COKE | WITH<br>COKE | DEPTH TOP<br>OF ANODES |     |
|---------------|--------------------------------------------|---------------------------------|-----|---|------------|--------------|------------------------|-----|
|               |                                            | E                               | I   | R |            |              | NO.                    | FT. |
| 200           |                                            |                                 | 0.9 |   |            |              |                        |     |
| 5             |                                            |                                 | 0.9 |   |            |              |                        |     |
| 10            |                                            |                                 | 1.0 |   |            |              |                        |     |
| 15            |                                            |                                 | 1.0 |   |            |              |                        |     |
| 20            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 25            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 30            |                                            |                                 | 0.8 |   |            |              |                        |     |
| 35            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 40            |                                            |                                 | 0.6 |   |            |              |                        |     |
| 45            |                                            |                                 | 0.6 |   |            |              |                        |     |
| 50            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 55            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 60            |                                            |                                 | 0.6 |   |            |              |                        |     |
| 65            |                                            |                                 | 0.6 |   |            |              |                        |     |
| 70            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 75            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 80            |                                            |                                 | 0.6 |   |            |              |                        |     |
| 85            |                                            |                                 | 0.8 |   |            |              |                        |     |
| 90            |                                            |                                 | 0.8 |   |            |              |                        |     |
| 95            |                                            |                                 | 0.7 |   |            |              |                        |     |
| 300           |                                            |                                 | 0.7 |   |            |              |                        |     |
| 5             |                                            |                                 | 0.8 |   |            |              |                        |     |
| 10            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 15            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 20            |                                            |                                 | 0.8 |   |            |              |                        |     |
| 25            |                                            |                                 | 0.8 |   |            |              |                        |     |
| 30            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 35            |                                            |                                 | 0.9 |   |            |              |                        |     |
| 40            |                                            |                                 | 1.0 |   |            |              |                        |     |
| 45            |                                            |                                 | 1.4 |   |            |              |                        |     |
| 50            |                                            |                                 | 1.5 |   |            |              |                        |     |
| 55            |                                            |                                 | 1.5 |   |            |              |                        |     |
| 60            |                                            |                                 | 1.8 |   | 1.8        | 3.8          | 10                     | 360 |
| 65            |                                            |                                 | 1.7 |   |            |              |                        |     |
| 70            |                                            |                                 | 1.6 |   | 1.6        | 3.5          | 9                      | 370 |
| 75            |                                            |                                 | 1.4 |   |            |              |                        |     |
| 80            |                                            |                                 | 1.3 |   | 1.3        | 3.1          | 8                      | 380 |
| 85            |                                            |                                 | 1.3 |   |            |              |                        |     |
| 90            |                                            |                                 | 1.5 |   | 1.5        | 3.7          | 7                      | 390 |
| 95            |                                            |                                 | 1.5 |   |            |              |                        |     |
| 400           |                                            |                                 | 1.5 |   | 1.5        | 3.6          | 6                      | 400 |
| 5             |                                            |                                 | 1.2 |   |            |              |                        |     |
| 10            |                                            |                                 | 1.3 |   | 1.3        | 3.3          | 5                      | 410 |

GROUND BED RESISTANCE: (1) VOLTS \_\_\_\_\_ + AMPS \_\_\_\_\_ = \_\_\_\_\_ OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS

## WELL TYPE GROUNDBED DATA

DATA SHEET NO. \_\_\_\_\_

20F2

COMPANY Northwest Pipeline JOB NO. 85-504 DATE: 11-15-85  
WELL: Rosa Unit #87 PIPELINE: \_\_\_\_\_  
LOCATION: SEC. 28 TWP. 31N RGE. 4W CO. Rio Arriba STATE New Mexico  
ELEV. \_\_\_\_\_ FT: ROTARY 500' FT: CABLE TOOL 0' FT: CASING 0'  
GROUNDBED: DEPTH 500' FT. DIA 6 7/8 IN. GAS 6400 LBS. ANODES 10 Type D

[illegible]

GROUNDING RESISTANCE: (1) VOLTS \_\_\_\_\_ ÷ AMPS \_\_\_\_\_ = \_\_\_\_\_ OHMS

(2) VIBROGROUND \_\_\_\_\_ CHMS