

**OCD CATHODIC PROTECTION DEEPWELL GROUND BED REPORT  
DATA SHEET: NORTHWESTERN NEW MEXICO**

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

OPERATOR: BR  
FARMINGTON, NM 87401  
PHONE: 599-3400

**LOCATION INFORMATION**

API NUMBER: 3004535421

WELL NAME OR PIPELINE SERVED: GRENIER A 3N LEGAL LOCATION: 34 30N 10W INSTALLATION DATE: 5/24/2013

PPCO. RECTIFIER NO.: 10618W ADDITIONAL WELLS:

TYPE OF LEASE: LEASE NUMBER: SF-077282

**GROUND BED INFORMATION**

TOTAL DEPTH: 300' CASING DIAMETER: 8" TYPE OF CASING: PVC CASING DEPTH: 40' CASING CEMENTED ■

TOP ANODE DEPTH: 157' BOTTOM ANODE DEPTH: 265

ANODE DEPTHS: 157, 169, 181, 193, 205, 217, 229, 241, 255, 265

AMOUNT OF COKE: 50 BAGS

**WATER INFORMATION**

WATER DEPTH (1): 0'-40' WATER DEPTH (2):

GAS DEPTH: — CEMENT PLUGS: —

RCVD JUN 6 '13  
OIL CONS. DIV.  
DIST. 3

**OTHER INFORMATION**

TOP VENT PERFORATIONS: 160' VENT PIPE DEPTH: 300'

REMARKS:  
COKE DEPTH 143'

IF ANY OF THE ABOVE INFORMATION IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Wednesday, Nove

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COMPANY: CONOCO PHILLIPS  
 COMPANY REP.: JOHN TAFOYA  
 LOCATION: GRENIER A 3N  
 JOB NO.: 340140440  
 FOREMAN: RON LUNA  
 DRILLER: DARREL FERRIER

DATE: 5/24/2013  
 DIA. HOLE: 7 7/8  
 DEPTH: 300'  
 COKE TYPE: SW  
 # OF COKE: 50 BAGS  
 # OF BENTONITE: 0

CASING: SCH40 PVC  
 DIAMETER: 8"  
 CASING DEPTH: 40'  
 # OF ANODES: 10  
 ANODE TYPE: 2284Z  
 ANODE LEAD: HWMPE #8

**corrpro**

RECTIFIER MFG: \_\_\_\_\_  
 MODEL: \_\_\_\_\_  
 SERIAL #: \_\_\_\_\_

V-DC: \_\_\_\_\_ A-DC: \_\_\_\_\_

| WELL LOG     |                             |       |       |                       |              |                             |       |      |                       | ANODE PLACEMENT                                                                                                                                                    |                |                  |                 |
|--------------|-----------------------------|-------|-------|-----------------------|--------------|-----------------------------|-------|------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|-----------------|
| DEPTH<br>FT. | DRILLERS LOG -<br>SOIL TYPE | VOLTS | AMPS  | COMMENTS /<br>ANODE # | DEPTH<br>FT. | DRILLERS LOG -<br>SOIL TYPE | VOLTS | AMPS | COMMENTS /<br>ANODE # | ANODE<br>NO.                                                                                                                                                       | ANODE<br>DEPTH | AMPS<br>W/O COKE | AMPS<br>W/ COKE |
| 0            | CLAY & SAND                 | 13.40 |       | CASING                | 250          | GRAY SANDSTONE              |       | 4.70 | #9-252                | 1                                                                                                                                                                  | 265            | 4.00             | 7.00            |
| 5            | CLAY & SAND                 |       |       | CASING                | 255          | SHALE                       |       | 4.50 |                       | 2                                                                                                                                                                  | 255            | 4.70             | 8.40            |
| 10           | CLAY & SAND                 |       |       | CASING                | 260          | SHALE                       |       | 4.20 |                       | 3                                                                                                                                                                  | 241            | 5.20             | 9.30            |
| 15           | CLAY & SAND                 |       |       | CASING                | 265          | GRAY SANDSTONE              |       | 4.40 | #10-265               | 4                                                                                                                                                                  | 229            | 2.40             | 7.00            |
| 20           | CLAY & SAND                 |       |       | CASING                | 270          | GRAY SANDSTONE              |       | 5.00 |                       | 5                                                                                                                                                                  | 217            | 5.40             | 7.90            |
| 25           | BROWN SANDSTONE             |       |       | CASING                | 275          | GRAY SANDSTONE              |       | 4.50 |                       | 6                                                                                                                                                                  | 205            | 5.50             | 9.60            |
| 30           | BROWN SANDSTONE             |       |       | CASING                | 280          | GRAY SANDSTONE              |       |      |                       | 7                                                                                                                                                                  | 193            | 5.20             | 9.70            |
| 35           | BROWN SANDSTONE             |       |       | CASING                | 285          | SHALE                       |       |      |                       | 8                                                                                                                                                                  | 181            | 3.70             | 7.60            |
| 40           | BROWN SANDSTONE             |       |       | CASING                | 290          | SHALE                       |       |      |                       | 9                                                                                                                                                                  | 169            | 1.80             | 5.30            |
| 45           | RED SANDY SHALE             |       |       | CASING                | 295          | SHALE                       |       |      |                       | 10                                                                                                                                                                 | 157            | 0.70             | 3.20            |
| 50           | RED SANDY SHALE             |       |       | CASING                | 300          | SHALE                       |       |      |                       | 11                                                                                                                                                                 |                |                  |                 |
| 55           | RED SANDY SHALE             |       |       | CASING                | 305          |                             |       |      |                       | 12                                                                                                                                                                 |                |                  |                 |
| 60           | RED SANDY SHALE             |       |       | CASING                | 310          |                             |       |      |                       | 13                                                                                                                                                                 |                |                  |                 |
| 65           | GRAY SANDSTONE              |       |       |                       | 315          |                             |       |      | TD: 282'              | 14                                                                                                                                                                 |                |                  |                 |
| 70           | GRAY SANDSTONE              |       |       |                       | 320          |                             |       |      | VENT PIPE DEPTH: 302' | 15                                                                                                                                                                 |                |                  |                 |
| 75           | GRAY SANDSTONE              |       |       |                       | 325          |                             |       |      |                       | 16                                                                                                                                                                 |                |                  |                 |
| 80           | GRAY SANDSTONE              |       | 2.80  |                       | 330          |                             |       |      |                       | 17                                                                                                                                                                 |                |                  |                 |
| 85           | GRAY SANDSTONE              |       | 2.70  |                       | 335          |                             |       |      |                       | 18                                                                                                                                                                 |                |                  |                 |
| 90           | GRAY SANDSTONE              |       | 2.30  |                       | 340          |                             |       |      |                       | 19                                                                                                                                                                 |                |                  |                 |
| 95           | GRAY SANDSTONE              |       | 1.90  |                       | 345          |                             |       |      |                       | 20                                                                                                                                                                 |                |                  |                 |
| 100          | GRAY SANDSTONE              |       | 1.70  |                       | 350          |                             |       |      |                       | 21                                                                                                                                                                 |                |                  |                 |
| 105          | GRAY SANDSTONE              |       | 2.10  |                       | 355          |                             |       |      |                       | 22                                                                                                                                                                 |                |                  |                 |
| 110          | GRAY SANDSTONE              |       | 2.00  |                       | 360          |                             |       |      |                       | 23                                                                                                                                                                 |                |                  |                 |
| 115          | GRAY SANDSTONE              |       | 1.30  |                       | 365          |                             |       |      |                       | 24                                                                                                                                                                 |                |                  |                 |
| 120          | GRAY SANDSTONE              |       | 1.10  |                       | 370          |                             |       |      |                       | 25                                                                                                                                                                 |                |                  |                 |
| 125          | GRAY SANDSTONE              |       | 1.10  |                       | 375          |                             |       |      |                       | GROUNDBED RESISTANCE<br>TOTAL VOLTS: 13.40<br>TOTAL AMPS: 24.00<br>0.56 OHMS                                                                                       |                |                  |                 |
| 130          | GRAY SANDSTONE              |       | 1.10  |                       | 380          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 135          | GRAY SANDSTONE              |       | 0.70  |                       | 385          |                             |       |      |                       | SITE ELEVATION: 6019'<br>WATER CONDUCTIVITY:<br>COKE LEVEL: 143'<br>EXTRA CASING USED: 20'<br>ADDITIONAL COMMENTS:<br>INJECT FROM 0' - 40'<br>AIR DRILL 40' - 300' |                |                  |                 |
| 140          | GRAY SANDSTONE              |       | 0.40  |                       | 390          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 145          | GRAY SANDSTONE              |       | 0.60  |                       | 395          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 150          | GRAY SANDSTONE              |       | 0.70  |                       | 400          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 155          | GRAY SANDSTONE              |       | 0.60  | #10-157               | 405          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 160          | GRAY SANDSTONE              |       | 0.70  |                       | 410          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 165          | GRAY SANDSTONE              |       | 0.90  |                       | 415          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 170          | GRAY SANDSTONE              |       | 1.70  | #9169                 | 420          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 175          | GRAY SANDSTONE              |       | 2.30  |                       | 425          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 180          | GRAY SANDSTONE              |       | 2.60  | #8-181                | 430          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 185          | GRAY SANDSTONE              |       | 4.10  |                       | 435          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 190          | GRAY SANDSTONE              |       | 4.80  |                       | 440          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 195          | SHALE                       |       | 5.00  | #7-193                | 445          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 200          | SHALE                       |       | 5.33  |                       | 450          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 205          | SHALE                       |       | 5.30  | #6-205                | 455          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 210          | SHALE                       |       | 5.30  |                       | 460          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 215          | SHALE                       |       | 5.80  | #5-217                | 465          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 220          | SHALE                       |       | 4.80  |                       | 470          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 225          | SHALE                       |       | 3.00  |                       | 475          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 230          | SHALE                       |       | 2.40  | #4-229                | 480          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 235          | GRAY SANDSTONE              |       | 39.00 |                       | 485          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 240          | GRAY SANDSTONE              |       | 5.20  | #3-241                | 490          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |
| 245          | GRAY SANDSTONE              |       | 5.20  |                       | 495          |                             |       |      |                       |                                                                                                                                                                    |                |                  |                 |

PP 7.5.1.24

Effective 11/13/12