

# WRS COMPLETION REPORT

COMPLETIONS SEC 9 TWP 22S RGE 34E  
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NMEX LEA \* 1046FNL 1273FWL SEC NW NW  
STATE COUNTY FOOTAGE SPOT  
ORYX ENERGY  
OPERATOR D DG  
2 GRAMA RIDGE FEDERAL WELL CLASS INIT FIN  
WELL NO. LEASE NAME  
3618KB 3592GR  
OPER ELEV GRAMA RIDGE

API 30-025-30884-0000  
05/24/1990 08/09/1990 ROTARY VERT GAS  
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS  
13600 MORROW WILLBROS DRLG 11 RIG SUB 25  
PROJ. DEPTH PROJ. FORM CONTRACTOR  
DTD 13375 PB 13320 FM/TD MORROW  
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

## LOCATION DESCRIPTION

16 MI SE HALFWAY, NM

## CASING/LINER DATA

CSG 13 3/8 @ 1740 W/ 1630 SACKS  
CSG 9 5/8 @ 5000 W/ 1850 SACKS  
CSG 7 @ 11772 W/ 975 SACKS  
LNR 4 1/2 11541-13366 W/ 240S

## TUBING DATA

TBG 2 7/8 AT 12622 2 3/8 AT 12622 COMB STRING

## INITIAL POTENTIAL

IPF 4458 MCFD 18/64CK 1HRS  
MORROW PERF W/ 186/IT 12725-12922  
SITP 4311  
@12500FT BHT 180F  
9/64CK 1147MCFD TP 4284 BHFP 5659  
11/64CK 1989MCFD TP 4232 BHFP 5611  
14/64CK 3052MCFD TP 4149 BHFP 5535  
18/64CK 4458MCFD TP 3994 BHFP 5423  
BH 5699 FPCAOF 23855MCFD  
GTY 51.0 GOR261000  
GAS GTY .589  
P/L CON EL PASO NATURAL GAS  
1ST THRU 4TH PT TEST IN 60 MINS

CONTINUED IC# 300257014390

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Petroleum Information

IBB a company of  
The Dun & Bradstreet Corporation

PI-WRS-GET  
Form No 187

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ORYX ENERGY  
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GRAMA RIDGE FEDERAL

| TYPE | FORMATION | LTH | TOP DEPTH/SUB | BSE DEPTH/SUB |
|------|-----------|-----|---------------|---------------|
| LOG  | RUSTLER   |     | 1715 1877     |               |
| LOG  | YATES     |     | 3888 -296     |               |
| LOG  | BONE SPG  |     | 8494 -4902    |               |
| LOG  | BONE SP2  |     | 10116 -6524   |               |
| LOG  | BONE SP3  |     | 10613 -7021   |               |
| LOG  | WOLFCAMP  |     | 11190 -7598   |               |
| LOG  | ATOKA     |     | 11952 -8360   |               |
| LOG  | MORROW    |     | 12544 -8952   |               |

SPL MORROW 12428 -8836  
SUBSEA MEASUREMENTS FROM GR

# CORES

#SPL 10 12725-13194 REC 9 SP MORROW SDWL D  
NO DESCRIPTION AVAILABLE  
\*12725.OF , LOST SPL @ 13194  
\*12743.OF ,  
\*12768.OF ,  
\*12911.OF ,  
\*12920.OF ,  
\*12996.OF ,  
\*13034.OF ,  
\*13054.OF ,  
\*13079.OF ,  
\*13194.OF , NO REC

# PRODUCTION TEST DATA

PTF 15BCPD 1891 MCFD 13/64CK 24HRS  
MORROW PERF W/ 186/IT 12725-12922  
PERF 12725-12922  
TP 4200  
NATURAL

PTF 17BCPD 2392 MCFD 3BW 17/64CK 24HRS  
MORROW PERF 12725-12922  
TP 4100

PTF 4458 MCFD 18/64CK 1HRS  
MORROW PERF 12725-12922  
TP 3994

CONTINUED

ORYX ENERGY  
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GRAMA RIDGE FEDERAL

D DG

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS 4998-11688 SONL 4998-11688 DSN 4998-11688 DI  
 LOGS 4998-11688 SPCT CNL  
 LOGS DSN DI  
 LOGS 11542-13277 CBL SDBL 12743-13054 RFT

DRLG SHOWS OR POROSITY ZONES /INTERVAL,FORMATION,DESC

12253-12256 ATOKA GAS 12306-12310 ATOKA GAS  
 12348-12353 ATOKA GAS 12421-12428 ATOKA GAS  
 12432-12434 MORROW GAS 12773-12775 MORROW SD GAS  
 13061-13067 MORROW SD GAS 13200-13208 MORROW SD GAS

DRILLING BREAKS

12253-12256 (ATOKA) 20-75 UNITS GAS S  
 12306-12310 (ATOKA) 30-75 UNITS GAS S  
 12348-12353 (ATOKA) 20-50 UNITS GAS S  
 12421-12428 (ATOKA) 40-150 UNITS GAS S  
 12432-12434 (MORROW) 100-500 UNITS GAS S  
 12773-12775 (MORROW SD) 30-70 UNITS GAS, 50 PCT FLU S  
 13061-13067 (MORROW SD) 160-1600 UNITS GAS, 15-20 S  
 FT FLARE  
 13200-13208 (MORROW SD) 1600-2000 UNITS GAS, 8-10 S  
 FT FLARE

HOLE DEVIATION /DEPTH,DIRECTION,ANGLE/

|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| 395   | .8D  | 750   | .5D  | 1345  | .8D  |
| 1735  | .8D  | 2100  | 1.5D | 2450  | 1.5D |
| 2708  | 1.0D | 3158  | 1.5D | 3443  | 2.3D |
| 3517  | 2.5D | 3610  | 1.5D | 3721  | 2.0D |
| 3796  | 1.5D | 3970  | 1.5D | 4280  | 1.5D |
| 4630  | 1.0D | 5000  | .8D  | 5330  | 1.8D |
| 5737  | 1.3D | 6099  | .8D  | 6511  | .8D  |
| 6850  | 1.0D | 7288  | 1.0D | 7785  | .3D  |
| 8239  | 1.5D | 8500  | .5D  | 8790  | 1.0D |
| 9136  | .5D  | 9519  | 1.8D | 9611  | 1.3D |
| 9952  | 1.5D | 10263 | 2.0D | 10387 | 2.3D |
| 10500 | 2.3D | 10700 | 2.0D | 10904 | 2.8D |
| 11102 | 2.8D | 11306 | 2.8D | 11522 | 2.3D |
| 11710 | 1.5D | 12100 | .8D  | 12638 | 1.5D |
| 12810 | 2.0D | 13370 | 1.8D |       |      |

CONTINUED

ORYX ENERGY  
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GRAMA RIDGE FEDERAL

D DG

DRILLING PROGRESS DETAILS

ORYX ENERGY  
BOX 1861  
MIDLAND, TX 79702  
915-688-0300  
04/09 LOC/1990/  
05/29 DRLG 2350  
06/01 DRLG 3915  
06/06 DRLG 5400  
06/14 DRLG 10130  
06/25 DRLG 11972  
06/27 DRLG 12214  
07/02 12641 TD, SDR  
07/02 LOCAL CALL: ATOKA C 12239  
07/11 13366 TD, CIRC  
07/11 RAN RFT @ 12 SELECTED PTS, REC 5  
READINGS @ 12743, 12764, 12911, 12996, 13054  
07/17 13366 TD, WOCT  
07/24 13366 TD, PREP DOC W/CT  
08/06 13366 TD, PB 13320, TSTG  
08/16 13366 TD, PB 13320, WOCT  
TD REACHED 07/10/90 RIG REL 07/17/90  
10/04 13375 TD, PB 13320  
COMP 8/9/90, IPCAOF 23855 MCFGPD, GOR  
261000, GTY (COND) 51, GTY  
(GAS) .589, SIWHP 4311, SIBHP  
5699  
PROD ZONE - MORROW 12725-12922  
NO CORES OR DSTS, NINE SDWL CORES RPTD