

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

| |
|---|
| WELL AP# NO. 30-039-27801 |
| 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. Jicarilla Contract 460 |
| 7. Lease Name or Unit Agreement Name 24245 |
| 8. Well Number Jicarilla 460-15 No. 13 |
| 9. OGRID Number 013925 |
| 10. Pool name or Wildcat East Blanco; Pictured Cliffs and Cabresto Canyon, Tertiary |

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM G-101) FOR SUCH
PROPOSALS.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
Black Hills Gas Resources, Inc.

3. Address of Operator
350 Indiana St, Suite 400 Golden, CO 80401

4. Well Location

Unit Letter B: 820 feet from the North line and 1965 feet from the East line

Section 15

Township 30N

Range 03W

NMPM

Rio Arriba

County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
7362' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Downhole Commingle Formations ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Black Hills Gas Resources, Inc. intends to complete the subject well and downhole commingle the Cabresto Canyon; Tertiary and East Blanco; Pictured Cliffs under Division Order R-11363. All gas production is to be allocated based on initial production tests as 60 percent to the East Blanco; Pictured Cliffs formation and 40 percent to Cabresto Canyon; Tertiary formation. See attached Supplemental Data Sheet for the information fracture pressures and flow test. The commingling will not reduce the value of the total remaining production. A Sundry Notice form 3160-5 has been sent, notifying the BLM of downhole commingling formations.

DHC1789AZ

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Allison Newcomb TITLE Engineering Technician DATE 2/21/2005

Type or print name: Allison Newcomb

E-mail address: anewcomb@bhep.com

Telephone No. 720-210-1308

(This space for State use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. IV DATE FEB 24 2005

Conditions of approval, if any:

C103 Supplemental Information

Jicarilla 460-15 #13

Production and Pressure Data Pictured Cliffs and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3826' – 3836' and 3846' – 3866' with 4 jspf. Based upon pressure data obtained from the breakdown and fracture stimulation treatment the fracturing pressure of the Pictured Cliffs formation at mid-perforation is 2923 psi with a fracture gradient of 0.76 psi/ft. After fracture stimulation and clean up the Pictured Cliffs formation was flow tested for twenty-four hours, 210 MCFPD.

The Tertiary formation was perforated at intervals 2816' – 2820', 2833' – 2835', 2858' – 2860', 2888' – 2890', 2894' – 2896', 3034' – 3040', 3298' – 3302', 3311' – 3315', 3326' – 3330', 3341' – 3343 and 3347' – 3349' with 2 jspf. Based upon the pressure data obtained from the fracture stimulation treatment of the formation the fracturing pressure of the Nacimiento, Tertiary formation (2816-3040) is 21968 psi at the mid perforation of 2928' with a fracture gradient of 0.75 psi/ft. Based upon the pressure data obtained from the fracture stimulation treatment of the formation the fracturing pressure of the Ojo Alamo, Tertiary formation (3298-3349) is 2160 psi at the mid perforation of 3324' with a fracture gradient of 0.65 psi/ft. After fracture stimulation of the Tertiary formation a stabilized flow test was conducted for twenty-four hours, 140 MCFPD.

The allocation method that has been agreed upon between Black Hills Gas Resources, Inc. and the Jicarilla Apache Nation is to use a percent based on the initial test for allocation of the produced volumes from the downhole commingled formations. In summary, the following calculations reflect the allocation percentages for the subject well.

| Formation Name | Gas Flow Rate (MCFPD) | Water Rate (BWPD) | Allocation Factor |
|-----------------|-----------------------|-------------------|-------------------|
| Pictured Cliffs | 210 | | 60% |
| Tertiary | 140 | | 40% |
| Total | 350 | | 100.000% |