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Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Farmington Field Office
Bureau of Land Management

5. Lease Serial No. _____
6. If Indian, Allottee, or Tribe Name
Jicarilla Contract 434
Jicarilla Apache Tribe
7. If Unit or CA. Agreement Name and/or No. _____
8. Well Name and No.
Jicarilla 434 G #1
9. API Well No.
30-043-20802
10. Field and Pool, or Exploratory Area
Otero-Sanostee Gallup
11. County or Parish, State
Sandoval County, New Mexico

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other
2. Name of Operator
Black Hills Gas Resources, Inc.
3a. Address
P.O. Box 249 Bloomfield, NM 87413
3b. Phone No. (include area code)
(505) 634-5104
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790' FNL & 790 FWL NE/NW Section 6 T22N R4W (UL: C)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation Clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Black Hills Gas Resources had completed plugging the Jicarilla 434 G #1 per the attached summary report.

Attachment: Plug and Abandonment Report

OIL CONS. DIV DIST. 3 ACCEPTED FOR RECORD

JAN 25 2016

JAN 21 2016

Approved as to plugging
of the well bore. Liability
under bond is retained until
surface restoration is completed.

FARMINGTON FIELD OFFICE
BY: *[Signature]*

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)
Daniel Manus
Title **Regulatory Technician II**
Signature *[Signature]* Date **January 14, 2016**
THIS SPACE FOR FEDERAL OR STATE OFFICE USE
Approved by _____ Title _____ Date _____
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Office _____
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.
(Instructions on page 2)

NMOCD

RV

3

790' FNL and 790' FWL, Section 6, T-22-N, R-4-W
Sandoval County, NM
Lease Number: Jicarilla Contract 434
API #30-043-20802

Plug and Abandonment Report
Notified Jicarilla BLM, BLM & NMOCD on 12/3/15

Plug and Abandonment Summary:

- Plug #1** with CR at 4260' pump 89 sxs (105.02 cf) Class B cement from 4717' to 4004' to cover the Gallup interval and Mancos top, 1) pump 70 sxs below CR from 4717' to 4260', 2) sting out CR and leave 19 sxs from 4260' to 4004'. Tag TOC at 4015'.
- Plug #2** with 61 sxs (71.98 cf) Class B cement from 3507' to 2683' to cover the Mesaverde and Chacra tops.
- Plug #3** with 53 sxs (62.54 cf) Class B cement from 2010' to 1294' to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops. TIH and tag TOC at 1357'.
- Plug #4** with CIBP at 325' and squeeze holes at 300' spot 101 sxs (119.18 cf) Class B cement inside & outside 4-1/2" casing from 300' to surface to cover the San Jose top, 8-5/8" casing shoe and surface. Had good cement returns to surface out BH valve.
- Plug #5** with 35 sxs Class B cement top off casings and install P&A marker with coordinates N 36° 10' 14" / W 107° 18' 7".

Plugging Work Details:

- 12/3/15 MIRU A-Plus #14. SITP 35 psi, SICP 165 psi, SIBHP 100 psi. SDFD.
- 12/4/15 SITP 35 psi, SICP 165 psi, SIBHP 100 psi. Blow well down. Pump 75 bbls heated water down casing. Attempt to unseat rod pump, stuck. Pump 40 bbls heated water down tubing. Unable to free rods. Back off rods. TOH and LD 53 - 3/4" rods with guides. ND wellhead. NU and function test BOP. PU on tubing string. TOH with 160 jts 2-3/8" 4.7# J-55 tubing and 1' of parted tubing. SDFD.
- 12/7/15 SICP 70 PSI, SIBHP 35 PSI. Blow well down. Function test BOP. PU rod overshot and 2-3/8" workstring, TIH. Tag at 1390', work down to 1397', PU 2,000# over. TOH, overshot empty, paraffin in overshot. TIH and tag at 3147'. Work down to 3155', pulling over. Work fish up hole to 3058' then came free. TOH. LD 68 - 3/4" rods. SDFD.
- 12/8/15 SICP 50 psi, SIBHP 30 psi. Blow well down. Function test BOP. TIH with rod overshot and 2-3/8" workstring and tie onto fish at 4270'. Pull 8000# over then came free. TOH, no fish. Note: Receive OK from R. Velarde, Jicarilla BLM, J. Savage, BLM and C. Perrin, NMOCD to set CR at +/- 4265'. TIH with 4-1/2" casing scraper. Tag top of fish at 4262'. TOH. SDFD.
- 12/9/15 SICP 15 psi, SIBHP 5 psi. Blow well down. Function test BOP. PU and TIH with CR and set at 4260'. Circulate well clean. Attempt to pressure test casing, bled from 800 psi to 650 psi in 1 minute. TOH. RU wireline. Ran CBL from 4250' to surface, found TOC in annulus at 1194'. TIH to 4260'. Note: Receive OK from R. Velarde, Jicarilla BLM, J. Savage, BLM and C. Perrin, NMOCD to pump all plugs inside except surface plug. Sting in, establish rate of 3 bpm at 800 psi. Pump **plug #1** from 4717' to 4260'. Sting out, spot remainder of plug #1 with calculated TOC at 4004'. TOH. SDFD.

Plugging Work Details (continued):

- 12/10/15 SICP 0 psi, SIBHP 0 psi. Function test BOP. TIH and tag TOC at 4015'. PUH to 3507'. Pressure test casing to 800 PSI, OK. Spot **plug #2** with calculated TOC at 2683'. PUH to 2010'. Pump 275 gallon diesel and 100 gallon paraffin solvent down tubing to clean up casing. Roll hole with 31 bbl water. Spot **plug #3** with calculated TOC at 1294'. While pumping cement found casing valve closed, pressured up to 2000 psi then bled to 0 psi. PUH to 1264'. Attempt to pressure test casing, bled from 400 PSI to 0 PSI. TOH. Note: Receive OK from R. Velarde, Jicarilla BLM, T. Salyers, BLM and C. Perrin, NMOCD to tag in morning, but may require drillout if tag too low. TIH to 1355'. Establish circulation down casing and out tubing. Establish circulation out BH valve. SI BH valve. Circulated 1 bbl good cement out tubing. TOH. SDFD.
- 12/11/15 SICP 0 psi, SIBHP 0 psi. Function test BOP. TIH and tag TOC at 1357'. TOH. PU packer. TIH and isolate casing leak between 452' to 390'. TOH. Note: Receive OK from R. Velarde, Jicarilla BLM, T. Salyers, BLM and C. Perrin, NMOCD to set CIBP at 325' and perf at 300' for plug #4. RU wireline. Set CIBP at 325'. Perforate 3 squeeze holes at 300'. Establish rate of 3 bpm at 500 PSI. Circulate well. ND BOP. NU wellhead. Pump down casing to establish circulation out BH valve. Spot **plug #4** inside and outside casing with TOC at surface. Write Hot Work Permit. Cut off wellhead. Found cement down 10' in 4-1/2" casing and down 18' in 8-5/8" casing. Spot **plug #5** to top off casings and install P&A marker with coordinates N 36° 10' 14" / W 107° 18' 7". RDMOL.

Rod Velarde, Jicarilla BLM representative, was on location.