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SEP 14 2015

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

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.

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

5. Lease Serial No.
Jicarilla Contract 434

6. If Indian, Allottee, or Tribe Name
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 checked="" 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 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will 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 recompletion 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 reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Black Hills Gas Resources intends to plug and abandon Jicarilla 434 G #1 per attached procedure.

OIL CONS. DIV DIST. 3

Black Hills will be using a closed loop system.

SEP 23 2015

Attachment:
**P&A proposed procedure
Reclamation Plan**

Notify NMOCD 24 hrs
prior to beginning
operations

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

Daniel Manus

Regulatory Technician II

Title

Signature

Daniel Manus

Date

September 14, 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title **PE**

Date

9/17/15

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 **FFO**

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

PLUG AND ABANDONMENT PROCEDURE

August 28, 2015

Jicarilla 434 G #1

Undesignated Gallup

790' FNL and 790' FWL, Section 6, T22N, R4W

Sandoval County, New Mexico / API 30-043-20802

Lat: N _____ / Long: W _____

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This well requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes , No _____, Unknown _____.
 Tubing: Yes , No _____, Unknown _____, Size _____, Length _____.
 Packer: Yes _____, No , Unknown _____, Type _____.
 If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface and a CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.**
5. **Plug #1 (Gallup interval and Mancos top, 4667' – 4224')**: Round trip gauge ring to 4667', or as deep as possible. RIH and set 4.5" wireline CIBP or 4.5" cement retainer at 4667' (depending on time of day). Load casing with water. Run CBL. Note: this plug may be modified based on CBL. TIH with tubing to CIBP. Circulate well clean. Pressure test casing to 800#. **If the casing does not test, then spot or tag subsequent plugs as appropriate.** Mix 38 sxs Class B cement and spot inside casing from 4667' to isolate the Gallup interval and Mancos top. PUH.
6. **Plug #2 (Mesaverde and Chacra tops, 3492' – 2892')**: Mix and pump 50 sxs Class B cement and spot a balanced plug inside casing to cover the Mesaverde and Chacra tops. PUH.
7. **Plug #3 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 1984' – 1445')**: Mix and pump 46 sxs Class B cement and spot a balanced plug inside casing to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops. TOH.

8. **Plug #4 (8.625" surface casing shoe, 248' - Surface):** Perforate 3 squeeze holes at 248'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 85 sxs Class B cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
9. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

Jicarilla 434 G #1

Current

Undesignated Gallup
790' FNL, 790' FWL, Section 6, T-22-N, R-4-W
Sandoval County, NM, API #30-043-20802

Today's Date: 7/28/15
Spud: 12/15/86
Completed: 2/12/87
Elevation: 6807' GI
6822' KB

12.25" hole

8.625" 24#, J-55 Casing set @ 198'
Cement with 125 sxs, circulated

2 pup jts, 188 jts 2 3/8", 4.7#, J-55 tbg,
SN, perf sub and mud anchor at 5853'
with rods and pump

TOC unknown, did not circulate

Ojo Alamo @ 1495'

Kirtland @ 1614' *est

Fruitland @ 1742' *est

Pictured Cliffs @ 1934'

Chacra @ 2942' *est

Mesaverde @ 3442'

Mancos @ 4274'

Gallup @ 4965'

DV Tool at 4396'
2nd Stage: Cement with 350 sxs

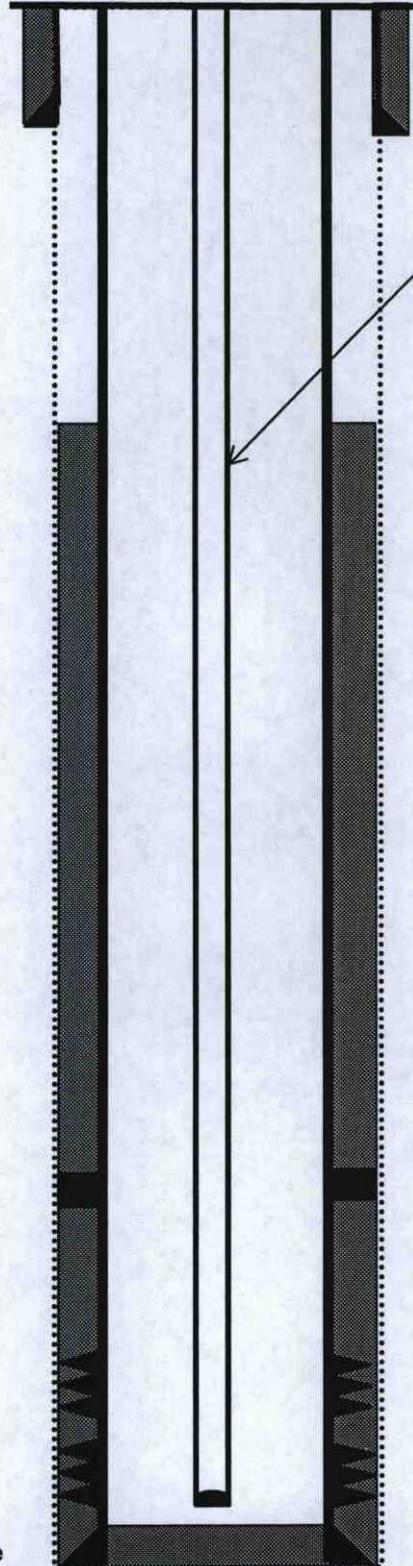
TOC unknown, did not circulate

Gallup Perforations:
4717' - 5371'
5839' - 5849'

7.875" hole

4.5", 11.6#, J-55 Casing set @ 6045'
1st Stage: Cement with 375 sxs

TD 6025'
PBD 5964'



Jicarilla 434 G #1

Proposed P&A

Undesignated Gallup

790' FNL, 790' FWL, Section 6, T-22-N, R-4-W

Sandoval County, NM, API #30-043-20802

Today's Date: 8/28/15

Spud: 12/15/86

Completed: 2/12/87

Elevation: 6807' GI
6822' KB

12.25" hole

8.625" 24#, J-55 Casing set @ 198'
Cement with 125 sxs, circulated

Perforate @ 248'

Plug #4: 248' - 0'
Class B cement, 85 sxs

TOC unknown, did not circulate

Ojo Alamo @ 1495'

Kirtland @ 1614' *est

Fruitland @ 1742' *est

Pictured Cliffs @ 1934'

Plug #3: 1984' - 1445'
Class B cement, 46 sxs

Chacra @ 2942' *est

Mesaverde @ 3442'

Plug #2: 3492' - 2892'
Class B cement, 50 sxs

Mancos @ 4274'

DV Tool at 4396'
2nd Stage: Cement with 350 sxs

TOC unknown, did not circulate

Plug #1: 4667' - 4224'
Class B cement, 38 sxs

Gallup @ 4965'

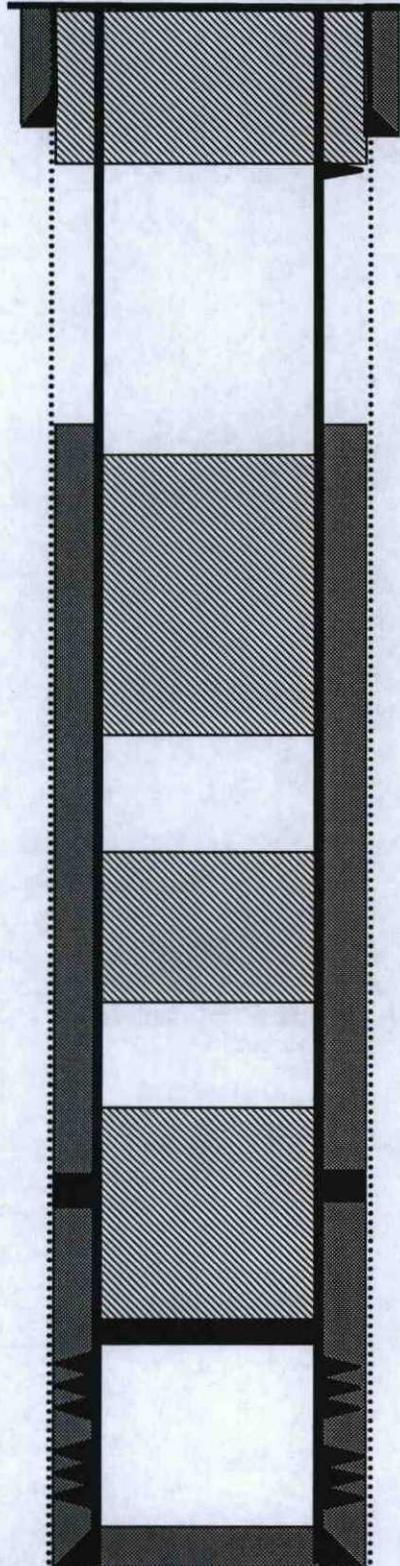
Set CIBP or CR @ 4667'

Gallup Perforations:
4717' - 5371'
5839' - 5849'

7.875" hole

4.5", 11.6#, J-55 Casing set @ 6045'
1st Stage: Cement with 375 sxs

TD 6025'
PBTD 5964'



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Jicarilla 434 G #1

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Set plug #2 (3471-3371) ft. to cover the Mesaverde top. BLM picks top of Cliff House at 3421 ft.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: tsalyers@blm.gov Brandon.Powell@state.nm.us

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.