

RECEIVED

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 21 2015

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 for a new well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. MDA 701-98-0013, Tract 4
2. Name of Operator Black Hills Gas Resources, Inc.		6. If Indian, Allottee, or Tribe Name Jicarilla Apache Tribe
3a. Address P.O. Box 249 Bloomfield, NM 87413	3b. Phone No. (include area code) (505) 634-5104	7. If Unit or CA. Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 705' FNL & 2245' FEL NW/NE Sec. 5 T29N R2W (UL: B) BHL: 735' FNL & 55' FWL NW/NW Sec. 5 T29N R2W (UL: D)		8. Well Name and No. Jicarilla 29-02-05 #4
		9. API Well No. 30-039-27596
		10. Field and Pool, or Exploratory Area East Blanco Pictured Cliffs
		11. County or Parish, State Rio Arriba County, New Mexico

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 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 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 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 29-02-05 #4 and will submit the procedure within the next 90 days

Black Hills request an on-site for the reclamation of the location.

**Notify NMOCD 24 hrs
prior to beginning
operations**

OIL CONS. DIV DIST. 3

SEP 24 2015

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

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

Daniel Manus

Regulatory Technician II

Title

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title **PE**

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 **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

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Form 3160-5
(August 2007)

UNITED STATES SEP 14 2015
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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OMB No 1004-0137
Expires: July 31, 2010

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.

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

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Black Hills Gas Resources intends to plug and abandon Jicarilla 29-02-05 #4 per attached procedure. BHGR will be using a close-loop system

Attachments:
P&A proposed procedure
Reclamation Plan

OIL CONS. DIV DIST. 3

SEP 24 2015

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

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy Salvors

Title PE

Date 9/21/2015

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

September 1, 2015

Jicarilla 29-02-05 #4

East Blanco Pictured Cliffs

Surface 705' FNL, 2245' FEL, Section 5, T29N, R2W, Rio Arriba County, NM

API 30-039-27596 / Long: _____ / Lat: _____

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.

This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

1. 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.
2. Rods: Yes _____, No X, Unknown _____.
Tubing: Yes X, No _____, Unknown _____, Size 2-3/8", Length 1444'.
Packer: Yes _____, No X, Unknown _____, Type _____.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

Note: PU BHGR tubing workstring.

3. **Plug #1 (Pictured Cliffs perforations and tops, 3765' – 3411')**: TIH, latch onto RBP (blanked off AS-1 w/ret head) at 3718'. TOH and LD RBP. Round trip gauge ring to 3765' or as deep as possible. Perforate squeeze holes at 3765'. TIH and set 5.5" CR at 3750'. Pressure test tubing to 1000#. **Pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as appropriate.** Establish rate. Mix 95 sxs Class B cement, squeeze 45 sxs outside and leave 50 sxs inside to isolate the Pictured Cliffs interval and cover through the Ojo Alamo tops. TOH.
4. **Plug #2 (Nacimiento top, 2329' – 2229')**: Perforate HSC squeeze holes at 2329'. TIH and set CR at 2279'. Establish rate. Mix 47 sxs Class B cement, squeeze 30 sxs outside casing and leave 17 sxs inside casing. TOH.
5. **Plug #3 (San Jose perforations, 1372' - 1272')**: TIH and set 5.5" CR or CIBP at 1372'. **Attempt to pressure test casing to 1000#. If casing does not test then spot or tag subsequent plugs as appropriate.** Mix 17 sxs Class B cement and spot a balanced plug inside casing above CR or CIBP to isolate the San Jose interval. TOH.
6. **Plug #4 (Surface, 300' - Surface)**: Perforate 3 squeeze holes at 300'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 95 sxs Class B cement and pump down the 5.5" casing to circulate good cement to surface. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.

9/1/2015

Jicarilla 29-02-05 #4
CURRENT Wellbore Diagram
NWNE Sec. 5, T29N, R2W
Rio Arriba, NM
API# 30-039-27596

Spud: 3/6/04
Compl: 5/18/05

7528' GL
7542' KB

12 1/4" hole

8 5/8" 24# K-55 surface casing set @ 250', cmt w/ 175 sx. Circ 15 bbl to surface

7 7/8" hole

Prod Tubing (4/21/06): 44 jts 2 3/8", J-55 tbg, 1.78" "R" PN, 6' tbg sub, WLREG. EOT 1444'.

TOC 1060' (4/16/04 CBL)

San Jose perfs: 1422-1424', 1427-1433', 1491-1494', 1501-1504'

Perf 1500-1502'. Circ to surface then sqz'd w/ 388 sx. Lost returns. (2004)

Nacimiento 2279'

Perf 2495-2497'. Circ between perfs 3140-42' then sqz'd w/ 139 sx. (2004)

Perf 3140-3142'. Circ between perfs 2495-97' then sqz'd w/ 139 sx. (2004)

Ojo Alamo 3461'

Perf 3440-3442'. Sqz'd w/ 100 sx. (2004)

Kirtland 3651'

Perf 3650-3652'. Sqz'd w/ 139 sx. (2004)

Fruitland 3751'

RBP (blanked off AS-1 w/ ret head) at 3718' (2006)

Pict Cliffs 3833'

Window from 3834-3849'
Knight Whipstock

5 1/2" 15.5# K-55 prod casing set @ 4000'. Cmt w/ 371 sx, bridged off, 99 sx displaced out csg. Ran CBL's 3/25/04, 4/8/04, & 4/16/04, TOC 1060'.

PBTD = 3953'

TD = 4000'

4 3/4" hole: 3834' - 6928' MD

Uncemented liner: On/off tool, 2 7/8", 8.7#, N-80 tbg, perf sub, BP from 3775' to 6058'. TOL 3775'

Perf 3890-3892'. Sqz'd w/ 66 sx. (2004)

9/1/2015

Jicarilla 29-02-05 #4
Proposed P&A Wellbore Diagram
NWNE Sec. 5, T29N, R2W
Rio Arriba, NM
API# 30-039-27596

Spud: 3/6/04
Compl: 5/18/05

7528' GL
7542' KB

12 1/4" hole

8 5/8" 24# K-55 surface casing set @ 250', cmt w/ 175 sx. Circ 15 bbl to surface

Plug #4: 300' - 0'
Class B cement, 95 sxs

Perforate @ 300'

7 7/8" hole

TOC 1060' (4/16/04 CBL)

Plug #3: 1372' - 1272'
Class B cement, 17 sxs

Set CR @ 1372'

San Jose perms: 1422-1424', 1427-1433',
1491-1494', 1501-1504'

Perf 1500-1502'. Circ to surface then sqz'd
w/ 388 sx. Lost returns. (2004)

Plug #2: 2329' - 2229'
Class B cement, 47 sxs:
30 outside and 17 inside

Nacimiento 2279'

Set CR @ 2279'
Perforate @ 2329'

Perf 2495-2497'. Circ between perms 3140-
42' then sqz'd w/ 139 sx. (2004)

Perf 3140-3142'. Circ between perms 2495-
97' then sqz'd w/ 139 sx. (2004)

Ojo Alamo 3461'

Perf 3440-3442'. Sqz'd w/ 100 sx. (2004)

Kirtland 3651'

Perf 3650-3652'. Sqz'd w/ 139 sx. (2004)
no cement from 3650' - to 3790' per CBL (2004)

Fruitland 3751'

Set CR @ 3750'
Perforate @ 3765'

Plug #1: 3765' - 3411'
Class B cement, 95 sxs
50 inside and 45 outside

Pict Cliffs 3833'

Window from 3834-3849'
Knight Whipstock

4 3/4" hole: 3834' - 6928' MD

Uncemented liner: On/off tool, 2 7/8", 8.7#, N-80 tbg, perf sub, BP
from 3775' to 6058'. TOL 3775'

5 1/2" 15.5# K-55 prod casing set @ 4000'. Cmt w/ 371 sx, bridged off, 99 sx displaced out csg. Ran CBL's 3/25/04, 4/8/04, & 4/16/04, TOC 1060'.

Perf 3890-3892'. Sqz'd w/ 66 sx. (2004)

PBTD = 3953'

TD = 4000'

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 29-02-05 #4

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.

CBL was run on 3/25/2004. Will suffice for verification of cement top at 1060 ft.

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.