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MAR 26 2013 UNITED STATES Form 3160- 5 FORM APPROVED (August 2007) DEPARTMENT OF THE INTERIOR OMB No. 1004-0137 BUREAU OF LAND MANAGEMENTarmington Field Ciffice Expires: July 31,2010 of Land Mana उट्टाएकंड Serial No. SUNDRY NOTICES AND REPORTS ON WE Jicarilla Contract 460 Do not use this form for proposals to drill or to re-enter an If Indian, Allottee, or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. Jicarilla Apache Tribe If Unit or CA. Agreement Name and/or No. SUBMIT IN TRIPLICATE - Other Instructions on page 2. Type of Well 8. Well Name and No. Oil Well Gas Well Jicarilla 460-16 #4 Name of Operator API Well No. Black Hills Gas Resources, Inc. 30-039-25785 3a. Address 3b. Phone No. (include area code) 3200 N 1st St, Bloomfield, NM 87413 (505) 634-5104 10. Field and Pool, or Exploratory Area Location of Well (Footage, Sec., T., R., M., or Survey Description) East Blanco Pictured Cliffs 840' FSL & 1180' FWL Section 16 T30N R3W(UL: M) 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 Notice of Intent Acidize Production (Start/Resume) Water Shut-off Altering Casing Fracture Treat Reclamation Well Integrity Subsequent Report Casing Repair New Construction Recomplete Change Plans Plug and abandon Temporarily Abandon Water Disposal Final Abandonment Notice Convert to Injection 113. 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 reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.) Per the Notice of Intent dated February 21, 2013, to plug and abandon Jicarilla 460-16 #4, Black Hills Gas Resources is submitting the attached plug and abandon procedure. RCVD APR 2'13 Notify NMOCD 24 hrs OIL CONS. DIV. prior to beginning DIST. 3 operations 14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed) Regulatory Technician Daniel Manus Title Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Original Signed: Stephen Mason Approved by MAR 2 8 2013 Date Title 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 Office entitle the applicant to conduct operations thereon. 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)

PLUG AND ABANDONMENT PROCEDURE

March 12, 2013

Jicarilla 460-16 #4

East Blanco PC / Cabresto Canyon Ojo Alamo Ext.
840' FSL, 1180' FWL, Section 16, T30N, R3W, Rio Arriba County, NM
API 30-039-25785 / Long: ______ / Lat: ______

All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing Note: 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 project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for 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_ Packer: Yes_X___, ____, Unknown_____, Type __A-1X packer at 3742'__ If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. NOTE: Due to high probability of holes in tubing (bradenhead test indicated casing and tubing had 53# pressure) and scale buildup and restricted ID through Ojo Alamo perforations above packer, the decision was made to leave the packer in the well. PU on tubing and release from on/off tool. TOH and LD tubing. PU workstring.

4. Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, (3742' – 3194'):
TIH with workstring and tag packer. Mix 53 sxs Class B cement (note: 100% excess over perforations) and spot a plug above the packer to isolate the PC interval and cover through the Ojo Alamo perforations. PUH and WOC. TIH and tag cement. Plug should be at least 50' above

2076 1976

the top of the Ojo Alamo. PUH.

- 5. Plug #2 (Nacimiento top, 2401' 2001'): Mix 12 sxs Class B cement and spot a balanced plug inside the casing to cover the Nacimiento top. PUH.
- 6. Plug #3 (8-5/8" Surface casing shoe, 594' Surface): Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 50 sxs cement and spot a balanced plug from 594' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 594' and the annulus from the squeeze holes 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. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Jicarilla 460-16 #4

Current

East Blanco PC/ Cabresto Canyon Ojo Alamo Ext.

840' FSL & 1180' FWL, Section 16, T-30-N, R-3-W, Rio Arriba County, NM

/ Lat: _____/ API 30-039-25785 TOC circulated to surface Today's Date: 3/12/13 per completion report Spud: 3/23/98 12-1/4" Hole PC Comp: 4/12/98 Ojo Alamo Ext. Comp: 3/22/05 8-5/8" 24#, K-55 Casing set @ 544' Cement with 300 sxs, circulated 84 sx to Elevation: 7251' GI 7263' KB Nacimiento @ 2051' *est 2-3/8" tubing at 3814' (121 jts, 4 pup jts, on-off tool, R nipple, A-1X pkr) Ojo Alamo @ 3244' Ojo Alamo Perforations: 3247' - 3291' Kirtland @ 3482' Fruitland @ 3665' A-1X packer at 3742' Pictured Cliffs Perforations: Pictured Cliffs @ 3780' 3780' - 3856' 7-7/8" Hole 4.5" 10.5#, J-55 Casing @ 4049' Cement with 870 sxs, circ 10 sxs to surface

4070' TD 3841' COTD

Jicarilla 460-16 #4 Proposed P&A

Proposed P&A

East Blanco PC/ Cabresto Canyon Ojo Alamo Ext.

840' FSL & 1180' FWL, Section 16, T-30-N, R-3-W, Rio Arriba County, NM

	Long:	/ Lat:	_/ API	30-039-25785
Today's Date: 3/12/13 Spud: 3/23/98 PC Comp: 4/12/98 Ojo Alamo Ext. Comp: 3/22 Elevation: 7251' GI	12-1/4" Hole 2/05			TOC circulated to surface per completion report 8-5/8" 24#, K-55 Casing set @ 544'
7263' KB				8-5/8" 24#, K-55 Casing set @ 544' Cement with 300 sxs, circulated 84 sx to surface
				Plug #3: 594' – 0' Class B cement, 50 sxs
Nacimiento @ 2051' *est				Plug #2: 2101'- 2001' Class B cement, 12 sxs
Ojo Alamo @ 3244'				Ojo Alamo Perforations: 3247' – 3291' Plug #1: 3742' - 3194' Class B cement, 53 sxs (100% excess over perfs
Kirtland @ 3482'				
Fruitland @ 3665'				
Pictured Cliffs @ 3780'				A-1X packer at 3742' Pictured Cliffs Perforations: 3780' 3856'
	7-7/8" Hole			4.5" 10.5#, J-55 Casing @ 4049' Cement with 870 sxs, circ 10 sxs to surface

4070' TD 3841' COTD

The Jicarilla Apache Nation requires 45 days to evaluate this well beginning from February 22, 2013 in order to determine if they would like to assume ownership of the well. If the Jicarilla Apache Nation has not contacted your office before the end of the 45 days you may proceed with plugging operations.

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: 4 Jicarilla 460-16

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) Place the Nacimiento plug from 2076'- 1976'.
- b) You are required to have H2S monitoring equipment and personnel on location during plugging operations.

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.