State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary

Jami Bailey, Division Director Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: July 8th, 2014

Well information:

API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-039-26098- 00-00	JICARILLA 28 02 05		BLACK HILLS GAS RESOURCES, INC.	G	A	Rio Arriba	J	J	5	28	N	2	W

Application Type:
P&A Drilling/Casing Change Recomplete/DHC
Location Change Other:
Conditions of Approval:
Notify NMOCD 24hrs prior to beginning operations
Please extend Nacimiento plug to 2193 feet

NMOCD Approved by Signature

7-17-14 Date Form 3160- 5 (August 2007)

L'ALLE COMMENT DE LES **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

JUL 08 2114

FORM APPROVED

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

SUNDRY NOTICES AND Do not use this form for propose abandoned well. Use Form 3160	sais to dim of to re-cuter-air.	MDA 701-98-0013 Light Indian, (Allottee, or Tribe Name Jicarilla Apache Tribe		
SUBMIT IN TRIPLICATE - Other Ins	7. If Unit or CA. Agreement Name and/or No.			
Type of Well Oil Well Other		8. Well Name and No.		
Name of Operator	Jicarilla 28-02-05 #1			
Black Hills Gas Resources, Inc.	9. API Well No.			
Ba. Address	3b. Phone No. (include area code)	30-039-26098		
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			
1760' FSL & 1760 FEL NW/SE Section 5 T28N	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 Deepen 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 Final Abandonment Notice Convert to Injection 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 reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Per the Notice of Intent dated May 14, 2014, to plug and abandon Jicarilla 28-02-05 #1, Black Hills Gas Resources is submitting the attached plug and abandon procedure.

Black Hills Gas Resources will be using a closed loop system.

DLMPS 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

OIL CONS. DIV DIST. 3

JUL 1 4 2014

Will be a second of the second	
14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)	
Daniel Manus	Regulatory Techician
Signature Taniel Mannos	Date July 8,2014
THIS SPACE FO	OR FEDERAL OR STATE OFFICE USE
Approved by Salvets	Title Petroleum Eng. Date 7/10/2014
Conditions of approval, if any are attached. Approval of this notice does not warrant that the applicant holds legal or equitable title to those rights in the subject lease white entitle the applicant to conduct operations thereon.	or certify 3
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for	r 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.

PLUG AND ABANDONMENT PROCEDURE

June 5, 2014

Jicarilla 28-02-05 #1

East Blanco PC / Burro Canyon, Tertiary
1760' FSL, 1760' FEL, Section 5, T28N, R2W, Rio Arriba County, NM
API 30-039-26098 / 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.

1. This project will use 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__X__, Unknown____, Size ___2-3/8"_, Length ___3644'__. Packer: Yes__X__, ___, Unknown____, Type __A-1X packer at 3454'___ If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. TOH with tubing and LD packer.

4. Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3548' – 2953'):
Round trip 5.5" csg scraper or gauge ring to 3548'. RIH and set 5.5" CR or CIBP at 3548'.
Pressure test tubing to 1000#. Circulate well clean. Spot 73 sxs Class B cement above the CR or CIBP to isolate the PC interval and cover through the Ojo Alamo top. PUH and WOC. TIH and tag cement. Plug should be at least 50' above the top of the Ojo Alamo. PUH.

Note: if Plug #1 is set at the end of the day then don't set CR. TIH with open ended tubing and spot 104 sxs Class B cement (30% excess over perforations) and WOC overnight. TIH and tag plug the next morning at 50' above OA top. If necessary top off plug. PUH.

See COA

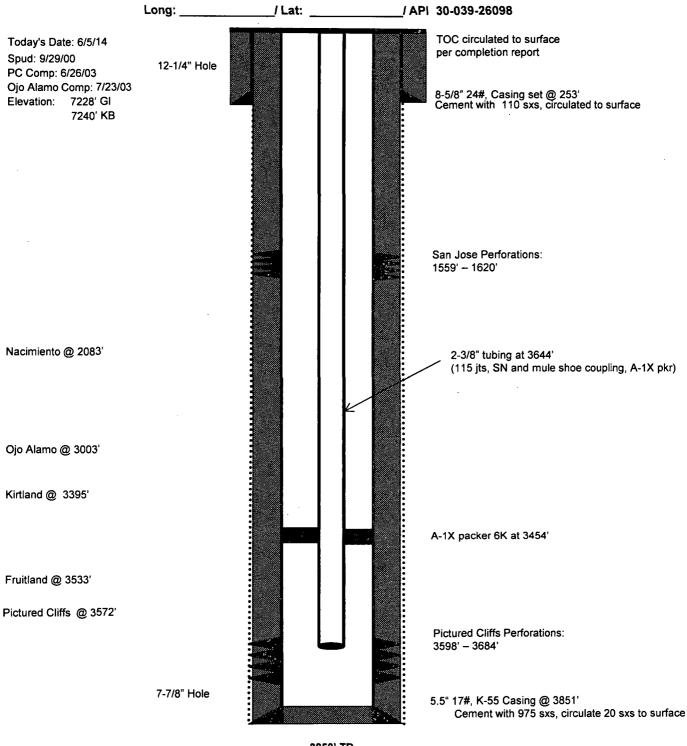
- 5. Plug #2 (Nacimiento top, 2133' 2033'): Mix 17 sxs Class B cement and spot a balanced plug inside the casing to isolate the Nacimiento top. TOH.
- 6. Plug #3 (San Jose perforations, 1509' 1409'): TIH and set 5.5" CR or CIBP at 1509'. Pressure test tubing to 1000#. Attempt to pressure test casing to 800#. 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 San Jose perforations top. PUH.
- 7. Plug #4 (8-5/8" Surface casing shoe, 303' 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 44 sxs cement and spot a balanced plug from 303' 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 303' and the annulus from the squeeze holes to surface. Shut in well and WOC.
- 8. 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.

Jicarilla 28-02-05 #1

Current

East Blanco Pictured Cliffs / Burro Canyon, Tertiary

1760' FSL & 1760' FEL, Section 5, T-28-N, R-2-W, Rio Arriba County, NM



3850' TD 3817' PBTD

Jicarilla 28-02-05 #1

Proposed P&A

East Blanco Pictured Cliffs / Burro Canyon, Tertiary

1760' FSL & 1760' FEL, Section 5, T-28-N, R-2-W, Rio Arriba County, NM

	Long:	/ Lat:	/ API	30-039-26098	
Today's Date: 6/5/14 Spud: 9/29/00 PC Comp: 6/26/03	12-1/4" Hole			TOC circulated to surfa per completion report	ce
Ojo Alamo Comp: 7/23/03 Elevation: 7228' Gl 7240' KB				8-5/8" 24#, Casing set (Cement with 110 sxs, o	@ 253' circulated to surface
72.0 KB					Plug #3: 303' – 0' Class B cement, 44 sxs
				Set CR @ 1509'	Plug #3: 1509' - 1409' Class B cement, 17 sxs
				San Jose Perforations: 1559' – 1620'	
					Sec COA
Nacimiento @ 2083'					Plug #2: 2133' - 2033' Class B cement, 17 sxs
Ojo Alamo @ 3003'					Plug #1: 3548' – 2953'
Kirtland @ 3395'					Class B cement, 73 sxs
Killand @ 3393					
Fruitland @ 3533'					
Pictured Cliffs @ 3572'				Set CR @ 3548' Pictured Cliffs Perforatio 3598' – 3684'	ons:
	7-7/8" Hole			5.5" 17#, K-55 Casing @ Cement with 975 sx	: 3851' :s, circulate 20 sxs to surface

3850' TD 3817' PBTD

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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 #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) Bring the top of plug #2 to 1993' to cover the Nacimiento top

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.