# **RECEIVED**

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Form 3160- 5	UNII	TED STATES			FORM APPROVED	
(August 2007) DEPARTMENT OF THE INTERIOR				OMB No 1004- 0137		
BUREAU OF LAND MANAGEMENT				5 1 5 133	Expires: July 31,2010	
;	SUNDRY NOTICES	AND REPORTS O	N WELLS	5. Lease Serial N MDA 701	o. !- <b>98-0013, Tract 1</b>	
Do not use this form for proposals to drill or to re-enter an					6. If Indian, Allottee, or Tribe Name	
abandoned well. Use Form 3160-3 (APD) for such proposals.					Jicarilla Apache Tribe	
SUBMIT	IN TRIPLICATE - Other	er Instructions on pa	ge 2.	7. If Unit or CA.	Agreement Name and/or No.	
1. Type of Well			<u>.                                      </u>			
Onl Well ✓ Gas Well Other					8. Well Name and No.	
2. Name of Operator					Jicarilla 29-03-12 #1	
Black Hills Gas Resources, Inc.					(205	
3a. Address 3b. Phone No. (include area code)  P.O. Ray 249. Phone Sold, NM 97413 (505) 624 5104					30-039-26395  10. Field and Pool, or Exploratory Area	
P.O. Box 249 Bloomfield, NM 87413 (505) 634-5104  4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				Cabresto Canyon Tertiary		
2340' FSL & 2335' FEL NW/SE Section 12 T29N R3W (UL: J)				11. County or Parish, State		
(0400)					Rio Arriba County, New Mexico	
12 CHECK ADD	DODDIATE DOV(S) TO	DIDICATE NATIDE	OF NOTICE DEPORT			
	ROPRIATE BOX(S) TO	INDICATE NATURE				
TYPE OF SUBMISSION		<u>.</u>	TYPE OF ACTION			
Notice of Intent	Acidize	Deepen	Production (	(Start/Resume)	Water Shut-off	
<del></del>	Altering Casing	Fracture Treat	Reclamation		Well Integrity	
Subsequent Report	Casing Repair	New Construction	Recomplete	:	Other	
al	Change Plans	✓ Plug and abandon	Temporarily	y Abandon		
Final Abandonment Notice	Convert to Injection	Plug back	Water Dispo	Water Disposal		
13. Describe Proposed or Completed (	·	<u> </u>	I starting date of any proposed y	work and approximate	duration thereof	
determined that the site is ready for Black Hills Gas Resour BHGR will be using a	rces intends to plug at	nd abandon Jicarill	a 29-03-12 #1 per atts	ached procedu	re.	
Attachments:		LCONG DOLL	DI MUQ A <b>URO</b> A	ያለ፤ ብ <b>ወ አ</b> ርምየወ	TANCE OF THIS	
P&A proposed procedure		יי כונו אופטיי			THE LESSEE AND	
Reclamation Plan				ROM OBTAININ		
		OLI 20 ZUID			FOR OPERATIONS	
			on federal.	AND INDIAN L	INDS	
SEE ATTAC	HED FOR					
		Notify NMOCD 24				
CONDITIONS (	JF APPROVAL	prior to beginnin operations		S POTENTIA	CYICT	
		•	<b>₹</b>	STOILNIA		
			<del></del>			
14. I hereby certify that the foregoing	is true and correct. Name (Printe	ed/ Typed)				
Daniel Manus		Dom.	datawi Tashnisian II			
Daniei Manus		Title	ilatory Technician II			
1.	0//		1. t. la.	11/	2015	
Signature MMM	Manus	Date	repilmore	17,2	2013	
	THIS SP	ACE FOR FEDERA	L OR STATE OFFICE	USE '		
Approved by Tray Salv	lers		Title PE	Da	· 9 22 2015	
Conditions of approval if any are attach nat the applicant holds legal or equitabl ntitle the applicant to conduct operation	le title to those rights in the subje		Office FFO			
itle 18 U.S.C. Section 1001 AND Title		t a crime for any person know	vingly and willfully to make am	y department or agence	y of the United States any false,	
ctitious or fraudulent statements or rep					•	
(Instructions on page 2)			· · · · · · · · · · · · · · · · · · ·			

**NMOCD** 

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#### PLUG AND ABANDONMENT PROCEDURE

August 24, 2015

#### Jicarilla 29-03-12 #1

East Blanco PC /Cabresto Canyon; Tertiary
2240' FSL, 2335' FEL, Section 12, T29N, R3W, Rio Arriba County, NM
API 30-039-26395 / 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 well requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
- 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
	Tubing: Yes X, No, Unknown, Size 2-3/8", Length 3700'
	Packer: Yes, No_X_, Unknown, Type
	If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

- 4. Plug #1 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo interval, Nacimiento perforations, 3593' -- 2832'): Round trip 5.5" casing scraper to 3593' or as deep as possible. TIH and set 5.5" CR at 3593'. Pressure test tubing to 1000#. Mix 100 sxs Class B cement (100% excess over open perforations) and spot a plug to isolated the PC, Fruitland, Kirtland and Ojo Alamo tops and Nacimiento perforations. PUH and WOC. TIH and tag TOC 50' higher than top Nacimiento perf. If tag is low spot additional cement as required. TOH.
- 5. Plug #2 (Nacimiento top, 2176' 2076'): Mix 17 sxs Class B cement and spot a balanced plug inside the casing to isolate the Nacimiento top. TOH and WOC. RIH and tag at 50' above Nacimiento top. TOH.
- 6. Plug #3 (San Jose perforations, 1192' 1092'): TIH and set 5.5" CR at 1192'. <u>Attempt to pressure test casing to 1000#</u>. <u>If casing does not test then spot or tag subsequent plugs as appropriate</u>. Mix 17 sxs Class B cement and spot a balanced plug inside casing above CR to isolate the San Jose interval. PUH.
- 7. Plug #4 (8-5/8" Surface casing shoe, 292' 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 35 sxs cement and spot a balanced plug from 292' 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 292' and the annulus from the squeeze holes to surface. Shut in well and WOC.
- 8. 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 29-03-12 #1

## Current

East Blanco PC/ Cabresto Canyon Tertiary

2240' FSL & 2335' FEL, Section 12, T-29-N, R-3-W, Rio Arriba County, NM

Long: \_\_\_\_\_/Lat: \_\_\_\_/API 30-039-26395 TOC circulated to surface Today's Date: 8/24/15 Spud: 11/7/00 12-1/4" Hole Comp: 2/22/01 Elevation: 7175' GI 8-5/8" 24#, J-55 Casing set @ 242' Cement with 110 sxs, circulated to surface 7187' KB San Jose Perforations: 1242' - 1427' (2001) 2-3/8" tubing at 3700' Nacimiento @ 2126' SN and 1 perf sub Nacimiento Perforations: 2882' - 2947' (2001) Ojo Alamo @ 3210' Kirtland @ 3442' Fruitland @ 3560' Pictured Cliffs @ 3642' Pictured Cliffs Perforations: 3643' - 3672' (2001) 7-7/8" Hole 5.5" 17#, J-55 Casing @ 3941' Cement with 850 sxs, Circulated 80 sxs to surface.

3940' TD 3872' PBTD

# Jicarilla 29-03-12 #1 **Proposed P&A**

East Blanco PC/ Cabresto Canyon Tertiary

2240' FSL & 2335' FEL, Section 12, T-29-N, R-3-W, Rio Arriba County, NM

\_/ API 30-039-26395 Today's Date: 8/24/15 TOC circulated to surface Spud: 11/7/00 Plug #4: 292' - 0' 12-1/4" Hole Class B cement, 35 sxs Comp: 2/22/01 Elevation: 7175' GI 8-5/8" 24#, J-55 Casing set @ 242' Cement with 110 sxs, circulated to surface 7187' KB Plug #3: 1192' - 1092' Class B cement, 17 sxs Set CR @ 1192' San Jose Perforations: 1242' - 1427' (2001) Plug #2: 2176' - 2076' Nacimiento @ 2126' Class B cement, 17 sxs Nacimiento Perforations: 2882' - 2947' (2001) Ojo Alamo @ 3210' Plug #1: 3593' - 2832' Class B cement, 100 sxs (100% excess over open Kirtland @ 3442' perfs) Fruitland @ 3560' Set CR @ 3593' Pictured Cliffs Perforations: Pictured Cliffs @ 3642' 3643' - 3672' (2001)

3940' TD 3872' PBTD

5.5" 17#, J-55 Casing @ 3941'

Cement with 850 sxs, Circulated 80 sxs to

7-7/8" Hole

# 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 29-03-12 #1

### CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
- 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 1971 ft. to cover the Nacimiento top. Adjust cement volume accordingly.

Note: High to very high concentrations of H2S have been reported in wells which produce gas from the Nacimiento, Ojo Alamo and San Jose formations to the north of this location. It is imperative that H2S monitoring and safety equipment be on location during the plugging operations at this wellsite.

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.