Form 3160- 5 (August 2007)

RECEIVED **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

JUL 17 2014

FORM APPROVED

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

				5 Lease Serial N	
SUNDRY NOTICES AND REPORTS ON WELL STON FIELD					o. C ontract 457
Do not use this form for proposals to drill or to rejenter, and the contract of the contract o				ttee, or Tribe Name	
abandoned well. Use Form 3160-3 (APD) for such proposals.			Jicarilla A	Apache Tribe	
SUBMIT IN TRIPLICATE - Other Instructions on page 2.					Agreement Name and/or No.
1. Type of Well Oil Well Gas Well	(DIL CONS. DIV DIS	1. 0	8. Well Name and	1 NT-
Oil Well Gas Well	Other			o. Well Name and	ii No.
2. Name of Operator JUL 2 5 2014					457-04 #144
Black Hills Gas Resources, Inc.				9. API Well No.	1100
3a. Address	11 3134 05440	3b. Phone No. (include area co	ode)	30-039-30	
3200 N 1st St, Bloomfie		(505) 634-5104		4	l, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)					co Pictured Cliffs
SHL: 775' FSL & 545' FEL SE/SE Section 4 T30N R3W (UL: P)			11. County or Par	,	
BHL: 1181' FSL & 615' FEL SE/SE Section 5 T30N R3W (UL: P) Rio Arriba County, New Mexico					
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION		TYI	PE OF ACTION		
Notice of Intent	Acidize	Deepen	Production (S	tart/ Resume)	Water Shut-off
	Altering Casing	Fracture Treat	Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete Other		
60	Change Plans	Plug and abandon Temporarily A		Abandon	
Final Abandonment Notice	Convert to Injection	Plug back	Water Disposa	ıl	
'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 457-04 #144, Black Hills Gas Resources is submitting the attached plug and abandon procedure. Black Hills Gas Resources will be utilizing a Close Loop System. Notify NMOCD 24 hrs prior to beginning operations					
BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OPTAINING ANY OTHER)	SEE ATTACHED FOR CONDITIONS OF APPROVAL		

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed) **Daniel Manus** Regulatory Techician II THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by 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.

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.

AUTHORIZATION REQUIRED FOR OPERATIONS

ON FEDERAL AND INDIAN LANDS

PLUG AND ABANDONMENT PROCEDURE

July 16, 2014

Jicarilla 457-04 #144

East Blanco Pictured Cliffs Surface 775' FSL, 545' FEL, Section 4, T30N, R3W, Rio Arriba County, NM

	API 30-039-30100 / 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 of 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_X_, No, Unknown Tubing: Yes_X_, No, Unknown, Size 2-3/8"_, Length4153' Packer: Yes, No_X_, Unknown, Type If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. Round trip 7" csg scraper to 4130' or as deep as possible.				
3.	Plug #1 (Pictured Cliffs interval/top and Fruitland top, 4130' – 3660'): RIH and set 7" Hydroset CIBP at 4130'. Pressure test tubing to 1000#. <u>Pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as appropriate.</u> Mix 98 sxs Class B cement and spot a balanced plug above CIBP, inside the casing, to cover the Pictured Cliffs interval/top and Fruitland top. PUH.				

- See CoA 4. Plug #2 (Kirtland and Ojo Alamo tops, 3390'- 3046'): Mix 74 sxs Class B cement and spot a balanced plug inside the casing to cover the Kirtland and Ojo Alamo tops. PUH.
 - Sec COA
- 5. Plug #3 (Nacimiento top, 1969'- 1869'): Mix 29 sxs Class B cement and spot a balanced plug inside the casing to cover Nacimiento top. PUH.
- Plug #4 (Surface, 344' 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 70 sxs cement and spot a balanced plug from 344' 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 casings 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.

3/12/2014

Jicarilla 457-04 #144

CURRENT Wellbore Diagram

API # 30-039-30100

SESE Sec 04, T30N, R3W Rio Arriba, NM

Spud

10/8/2008

Compl 10/28/2008

7122' GL 7134' KB

12 1/4" hole

SURFACE CASING

9 5/8", 32#, H-40 casing @ 294'. Cmt w/ 160 sx. Circ 10 bbls cmt to surface.

8 3/4" hole

Tbg Detail (11/18/08):

Tug Detail (11/10/00).	
110 jts 2 3/8" J-55 tbg	
2 7/8" x 2 3/8" XO	
B2 TAC w/ 6K tension	3450'
2 7/8" x 2 3/8" XO	
20 jts 2 3/8" tbg	
SN	4080'
2 - 2 3/8"perf subs	
2 3/8" x 2 7/8" XO	
2 jts 2 7/8" tbg	
2 7/8" bullplug	4153'

Rod & Pump Detail:

3/4" pony rod 107 - 3/4" rods 54 - 3/4" guided rods 3 - 3/4" pony rods 2' rod sub 2 x 1 1/4 x 20' RHAC

PROD CASING

7", 23#, J-55 casing @ 4251' MD. Cmt w/ 520 sx. Circ 7 bbls cmt to surface. Nacimiento 1919' MD = 1919' TVD 3096' MD = 3091' TVD Ojo Alamo 3340' MD = 3308' TVD Kirtland Fruitland 3710' MD = 3556' TVD Pictured Cliffs 4108' MD = 3661' TVD

6 1/8" lateral hole from 4251' to 8584' MD inclination at 4251' = 87 degrees

Liner Detail:

4 1/2", 11.6#, J-55 liner (uncemented)
Top of liner (H Latch tool) at 4187'
Bottom of liner at 8583'
11 perfed jts with tops at 4252', 4378', 4842', 5306', 5770', 6233', 6675', 7159', 7621', 8082', 8542'. Each jt has 28 - 0.75" holes

Jicarilla 457-04 #144

7/16/2014

PROPOSED P&A Wellbore Diagram

API # 30-039-30100

SESE Sec 04, T30N, R3W Rio Arriba, NM

Spud Compl 10/8/2008

10/28/2008

7122' GL 7134' KB

SURFACE CASING

9 5/8", 32#, H-40 casing @ 294'. Cmt w/ 160 sx. Circ 10 bbls cmt to surface.

Plug #4: 344' - 0' Class B cement, 70 sxs

See COA

Plug #3: 1969' - 1869' Class B cement, 29 sxs

Sec COA Plug #2: 3390' - 3046' Class B cement, 74 sxs

Plug #1: 4130' - 3660' Class B cement, 98 sxs

Set Hydro-set CIBP @ 4130'

PROD CASING

7", 23#, J-55 casing @ 4251' MD. Cmt w/ 520 sx. Circ 7 bbls cmt to surface. 12 1/4" hole

8 3/4" hole

Nacimiento 1919' MD = 1919' TVD

Ojo Alamo 3096' MD = 3091' TVD

Kirtland 3340' MD = 3308' TVD

Fruitland 3710' MD = 3556' TVD

Pictured Cliffs 4108' MD = 3661' TVD

6 1/8" lateral hole from 4251' to 8584' MD

Liner Detail:

4 1/2", 11.6#, J-55 liner (uncemented)
Top of liner (H Latch tool) at 4187'
Bottom of liner at 8583'
11 perfed jts with tops at 4252', 4378', 4842', 5306', 5770', 6233', 6675', 7159', 7621', 8082', 8542'. Each jt has 28 - 0.75" holes

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 457-04 #144

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. Bring the top of plug #1 to 3460' MD to cover the Fruitland top. Adjust cement volume accordingly.
- 4. Bring the top of plug #2 to 2990' to cover the Ojo Alamo top. Adjust cement volume accordingly.
- 5. Bring the top of plug #3 to 1785' to cover the Nacimiento top. Adjust cement volume accordingly

Note: H2S has not been reported at this location; however, high to very high concentrations of H2S (130-2000) ppm GSV have been reported in wells which produce gas from the Pictured Cliffs, San Jose, Nacimiento and Ojo Alamo formations within a 1 mile radius of this location. It is imperative that H2S monitoring and safety equipment be on location during the P&A 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.