

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

 FORM APPROVED  
 OMB NO. 1004-0137  
 Expires: January 31, 2004

 5. Lease Serial No.  
 Jicarilla Contract 460

 1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other  
 b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
 Other \_\_\_\_\_

## 2. Name of Operator

Black Hills Gas Resources, Inc

## 3. Address

350 Indiana Street, Suite 400 Golden, CO 80401

 3a. Phone No: (include area code)  
 720-210-1308

## 4. Location of Well (Report location clearly and in accordance with Federal requirements)

At surface 820' FNL &amp; 1965' FEL (NWNE) Unit B

At top prod. interval reported below 820' FNL &amp; 1965' FEL (NWNE) Unit B

At total depth 820' FNL &amp; 1965' FEL (NWNE) Unit B

## 6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

## 7. Unit or CA Agreement Name and No.

## 8. Lease Name and Well No.

Jicarilla 460-15 No. 13

## 9. API Well No.

30-039-27801

## 10. Field and Pool, or Exploratory

East Blanco, Pictured Cliffs

## 11. Sec., T., R., M., on Block and Survey or Area

Sec. 15, T30N-R03W

## 12. County or Parish

Rio Arriba

## 13. State

NM

## 14. Date Spudded

7/12/2004

## 15. Date T.D. Reached

7/15/2004

## 16. Date Completed

☐ D & A ☒ Ready to Prod.

12/23/04

## 17. Elevations (DF, RKB, RT, GL)\*

7375' KB, 7374' DF, 7362' GL

18. Total Depth: MD 3915'  
TVD19. Plug Back T.D.: MD 3879'  
TVD20. Depth Bridge Plug Set: MD  
TVD

## 21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

SDL/DSN, HRI, BCS

 22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
 Was DST run? ☒ No ☐ Yes (Submit report)  
 Directional Survey? ☒ No ☐ Yes (Submit copy)

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24	0'	282'		175 & B		surface;	
								circ 15bbl	
								to surface	
7 7/8"	5 1/2"	17	0'	3907'		850 & B		surface;	
								circ 60bbl	
								to surface	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	3756'	3756'						

## 25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Pictured Cliffs	3826	3836	3826-3836, 3846-3866	4	120	
B)						
C)						
D)						

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
3826-3836	Frac w/65Q Lightning 18 gel, 200,700# 12/20 brady sand, 1,699,600 scf N2.

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/20/05	1/20/05	24	<input type="checkbox"/>		210				Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>					Producing	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

(See instructions and spaces for additional data on next page)

NMOCD

 2005 FEB 10 PM 10:34  
 RECEIVED  
 C70 FARMINGTON NM  
 ACCEPTED FOR RECORD  
 MAR 2 2005

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 29. Disposition of Gas (Sold used for fuel, vented, etc.)

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				San Jose	surface
				Nacimiento	2199'
				Ojo Alamo	3298'
				Kirtland	3487'
				Fruitland	3728'
				Pictured Cliffs	3823'

## 32. Additional remarks (include plugging procedure):

## 33. Circle enclosed attachments:

- ☒ 1 Electrical/Mechanical Logs (1 full set req'd.)   
 ☐ 2 Geologic Report   
 ☐ 3 DST Report   
 ☐ 4 Directional Survey  
☐ 5 Sundry Notice for plugging and cement verification   
☐ 6 Core Analysis   
☐ 7 Other: \_\_\_\_\_

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 2/7/2005

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 to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction.