

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, 20045. Lease Serial No.  
MDA 701-98-0013

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 450' FNL &amp; 860' FWL (NWNW) Unit D

At top prod. interval reported below 450' FNL &amp; 860' FWL (NWNW) Unit D

At total depth 450' FNL &amp; 860' FWL (NWNW) Unit D

## 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 29-03-11 No. 3

## 9. API Well No.

30-039-27847

## 10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

11. Sec., T., R., M., on Block and Survey  
or Area Sec. 11, T29N-R03W

## 12. County or Parish

Rio Arriba

## 13. State

NM

## 14. Date Spudded

8/2/2004

## 15. Date T.D. Reached

8/5/2004

## 16. Date Completed

☐ D & A☒ Ready to Prod.

2/2/05

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

7144' KB, 7143' DF, 7131' GL

18. Total Depth: MD 3800'  
TVD19. Plug Back T.D.: MD  
3770' KB TVD20. Depth Bridge Plug Set: MD  
TVD

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

SDL/DSN, HRI

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'	278'		175 & B		surface;	
								circ 3bbls	to surface
7 7/8"	5 1/2"	17	0'	3794'		600		surface;	
								circ 20bbl	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"	3546'	3546'						

## 25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)			3253-55,61-63,3301-03,44-46,60-	2	36	62,92-94,3403-07,10-12; Closed
B)			3116-18,23-25,96-98,3206-08	2	16	Closed
C) Nacimiento	2047	2174	2047-2049,2170-2174	4	24	Open
D) San Jose	1200	1760	1200-02,26-28,59-61,1704-06,12-	4	64	14,18-20,53-55,58-60

## 26. Perforation Record

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

Depth Interval	Amount and Type of Material
3253-3412	Acidize w/ 900 gals 3% HCl. Frac w/ 69,013# Arizona 20/40 sand, 446bw w/mal+additives & 464,100 scf N2. 50-70Q w/120 foam. propnet added.
3253-3303	Cmt squeeze w/ 100 sx class B std cmt w/ 2% CaCl2 & 3/10% halad 344 fl loss.
3344-3412	Cmt squeeze w/ 100 sx 15.6 ppg class b std cmt w/ 2% CaCl2 & 3/10% halad 344 fl loss.
3116-3208	Acidize w/ 500 gals 3% HCl. Frac w/200,000 scf N2. Cmt squeeze w/ 100 sx 15.6 ppg class b std cmt w/ 2% CaCl2 & 3/10% halad 344 fl loss.

## 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
	1/27/05	24			TSTM				Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
								Waiting on Pipeline	

## 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
Choke Size	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

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

NMOC

ACCEPTED FOR RECORD

APR 12 2005

FARMINGTON FIELD OFFICE  
BY *[Signature]*

## 28b. Production - Interval C

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

## 28c. Production - Interval D

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

## 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	2136'
				Ojo Alamo	3239'
				Kirtland	3449'
				Fruitland	3580'
				Pictured Cliffs	3686'

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

2047-2174 Acidize w/ 400 gals 3% HCl. Frac w/250,000 scf N<sub>2</sub>.

1200-1760 Acidize w/ 800 gals 3% HCl.

1704-1720 Cmt squeeze w/ 100 sx 15.6 ppg class b std cmt w/ 2% CaCl<sub>2</sub> & 3/10% halad 344 fl loss.

## 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 2/10/2005

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.

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