

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 701-98-00131a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. 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 1975' FSL &amp; 2020' FWL (NESW) Unit K

At top prod. interval reported below 1975' FSL &amp; 2020' FWL (NESW) Unit K

At total depth 1975' FSL &amp; 2020' FWL (NESW) Unit K

14. Date Spudded

7/27/2004

15. Date T.D. Reached

7/29/2004

16. Date Completed

☐ D & A☒ Ready to Prod.

11/15/05

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

24249

8. Lease Name and Well No.

Jicarilla 30-03-36 No. 4

9. API Well No.

30-039-27828

10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

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

Sec. 36, T30N-R03W

12. County or Parish

Rio Arriba

13. State

NM

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

7370' GL, 7383' KB

18. Total Depth: MD

TVD 3838'

19. Plug Back T.D.: MD

TVD 3822'

20. Depth Bridge Plug Set: MD

TVD

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

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

HRI &amp; SDL/DSN

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	271'		175 sx		surface;	
								circ 8bbis	
								to surface	
7 7/8"	5 1/2"	15.5	0	3833'		730 sx		surface;	
								circ 51bbl	
								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"	3660' KB							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) San Jose	1400'	1902'	1400-02,08-10,15-17,22-24,27-29.	2 jspf	48	32-34,1596-98,1602-04,1710-12,14-16,1898-19
B) Nacimiento	2348'	2806'	2348-52,55-57,61-63,66-68,2443-5	2 jspf	52	49-51,2550-52,54-56,2794-98,2802-6
C) Nacimiento	3054'	3188'	3054-56,58-60,72-74,3110-12.	2 jspf	24	3116-18,3186-88
D) Ojo Alamo	3288'	3492'	3288-90,92-94,3387-89,95-97,3400	2 jspf	44	-02,20-22,28-30,70-72,80-82,84-86,3490-92

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

Depth Interval	Amount and Type of Material
3470-3492	Acidize w/ 400 gal 3% HCl Acid.
3288-3492	Frac w/9072 gal @ 50Q N2 foam/Aqua-safe x 15 as pad, w/41320 lbs of 20/40 brady mesh & 14120lbs of 20/40 SLC mesh w/ 324563 scf N2.
3054-3188	Acidize w/ 600 gals of 3% HCl Acid. Displace Acid w/ 240,000 scf N2.
2348-2806	Acid w/ 500 gals of 3% HCl. Frac w/4750 50QN2 Foam-AquaSafeX15 Pad, 44,760lbs 20/40 mesh brady & 15,240lb 20/40 mesh SLC sand, 596.2mscf 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
2/6/05	1/10/05	24	<input type="checkbox"/>		407	0			Flowing
Choke Size	Tbg. Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
1/2"			<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)

NMOC

ACCEPTED FOR RECORD

APR 20 2005

FARMINGTON FIELD OFFICE

BY 95

## 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	Thg 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	Thg 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.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				San Jose	surface
				Nacimiento	2153'
				Ojo Alamo	3254'
				Kirtland	3503'
				Fruitland	3631'
				Pictured Cliffs	3727'

## 31. Formation (Log) Markers

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

## 27. Continued

1596-1902 acidize w/ 300 gals of 3% HCl

1400-1434 acidize w/ 300 gals of 3% HCl Acid. Displace Acid w/ 240,000 scf N2.

## 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



Date 4/11/2005

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.