

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 Tract 41a. 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 520' FSL & 1880' FWL (SESW) Unit N

At top prod. interval reported below 520' FSL & 1880' FWL (SESW) Unit N

At total depth 520' FSL & 1880' FWL (SESW) Unit N

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

24235

8. Lease Name and Well No.

Jicarilla 30-03-35 No. 5

9. API Well No.

30-039-27673

10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

11. Sec., T., R., M., on Block and Survey
or Area Sec. 35, T30N-R03W

12. County or Parish

Rio Arriba

13. State

NM

14. Date Spudded

4/26/2004

15. Date T.D. Reached

5/1/2004

16. Date Completed:

☐ D & A☒ Ready to Prod.

10/6/2004

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

7712' GL, 7725' KB

18. Total Depth: MD

TVD 3938'

19. Plug Back T.D.: MD

TVD 3764'

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & 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)

SDL/DSN, LSS, HRI

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24	0	235'		175 & III		surface;	
								circ 14bbl	
								to surface	
7 7/8"	5 1/2"	15.5	0	3895'		778 sx		surface;	
								circ 30bbl	
								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"	3737'	3737'						

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Ojo Alamo	3453'	3488'	3453-3459, 3486-3488	2 jspf		Open
B) Ojo Alamo	3492'	3502'	3492-3494, 3498-3502	4 jspf		Open
C) Ojo Alamo	3327'	3347'	3327-3331, 3341-3347	4 jspf	40	Open
D) Nacimiento	3037'	3068'	3037-39,3052-54,3058-62, 3066-68	4 jspf	40	Closed

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

Depth Interval	Amount and Type of Material
3453'-3502'	Acidize w/ 500 gals of 3% HCl.
3453'-3502'	Frac w/50Q N2 foam/ambormax 1015, 50 % mitchell quality foam, 30,000lbs of 20/40 brady sand & 10,000lbs super LC . 199,485 scf N2.
3327'-3347'	Acidize w/ 12 bbls of 3% HCl.
3327'-3347'	Frac w/50Q N2 foam/ambormax 1015,19,000#20/40 mesh brady, 7440#20/40 mesh super LC resin sand, 181 BW w/MA-844 & 135,242# mitchell 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
10/16/04	10/15/04	24	☐		1200				Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
	780	160	☐					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
			☐						
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)

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

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
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	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
				Nacimiento	2227'
				Ojo Alamo	3284'
				Kirtland	3530'
				Fruitland Coal	3665'
				Pictured Cliffs	3761'

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32. Additional remarks (include plugging procedure):

See additional page for additional Producing Intervals and Treatments.

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 11/15/2004

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.

25. (cont) Producing Intervals			26. (cont) Perforation Record		
Formation	Top	Bottom	Perforated Interval	Size	No. of Holes Perf Status
Nacimiento	2734	2764	2734-2740, 2760-2764	4 jspf	40 Closed
San Jose	1850	1872	1850-1854, 1866-1872	4 jspf	40 Open
San Jose	1102	1714	1102-04, 1298-1302, 1314-18, 1702-06, 1710-14	4 jspf	72 Open

27. (cont) Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
2734-2764	acidize w/ 12bbbls of 3% HCl
2734-2764	frac w/ 50Q N2 Foam/Aquasafe X15, 50% mitchel quality foam. 27,060 lbs of 20/40 super LC w/superset activator in the 3 & 4 ppg stages. 129,712 scf N2.
1850-1872	acidize w/ 500 gals of 3% HCl
1850-1872	frac w/ 36,960 lbs 12/20 brown sand & 5,040lbs of flexsand LS, 146,000 :
1702-1714	acidize w/500 gals of 3% HCl
1102-1318	acidize w/500 gals of 3% HCl
1102-1714	frac w/46,900 lbs of sand, 129,647 scf N2
2734-2764	cmt sqz'd : Pumped 10 bbbls@3 bpm w/100psimixed & pumped 15.8 bbbls of 15.6ppg cmt @ 3 bpm w/200psi. Displaced w/9.5bbbls of H2O. Pressured out at 3,000psi. Pressured back to 3,000psi w/ 0.25bbbl bled pressure down to 1,500psi & stung out of the cmt retainer. Pressure bled to 0psi.
3037-3068	cmt sqz'd w/75sx class B cmt plus 0.075 gal/sx CFL-7L fluid loss additive. 15.8 bbbls @ 15.5 ppg. Displaced w/15.5 bbbls of H2O.

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