(September 2001)

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 457

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Dry Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Rsvr.
Other Horizontal

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070 FARMINGTON NM

6. If Indian, Allottee or Tribe Name
Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

2. Name of Operator
Black Hills Gas Resources, Inc

8. Lease Name and Well No.
Jicarilla 457-09 No. 1

3. Address
3200 N. 1st PO Box 249 Bloomfield, NM 87413

3a. Phone No. *(include area code)*
505-634-1111

9. API Well No.
30-039-25902

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

At surface 1150' FSL & 1191' FEL SE SE

At top prod. interval reported below 742' FSL & 1321' FWL Sec. 10, T30N, R03W

At total depth 742' FSL & 1321' FWL Sec. 10, T30N, R03W

10. Field and Pool, or Exploratory
East Blanco, Pictured Cliffs

11. Sec., T., R., M., on Block and Survey or Area
Sec. 9, T30N, R03W

12. County or Parish
Rio Arriba

13. State
NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
7/29/98	8/6/98	☐ D&A ☑ Ready to Prod. 8/31/05	GL 7238' KB 7239'

18. Total Depth: MD 6351' TVD 3994'	19. Plug Back T.D.: MD TVD	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)

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 lb	0	545'		300 sx		surface	
								circ 50 sx	
								to surface	
7-7/8"	5-1/2"	15.5	0	3994'		560 sx		surface	
								circ 68 sx	
								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)
2-7/8"	6005'							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						Open Hole
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material

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
8/31/05	8/3/05	24	☐		11				Producing

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

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

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DIST. 3

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

NMOCD

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.)

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	1535'
				Nacimiento	2116'
				Ojo Alamo	3192'
				Kirtland	3428'
				Fruitland	3615'
				Pictured Cliffs	3755'
				Lewis	3853'

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)* Agatha Snell Title Admin. Tech.

Signature _____ Date 1/16/06

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.