

(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

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other		5. Lease Serial No. Jicarilla Contract 458	
b. Type of Completion: ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other <u>Horizontal</u>		6. If Indian, Allottee or Tribe Name Jicarilla Apache Tribe	
2. Name of Operator Black Hills Gas Resources, Inc		7. Unit or CA Agreement Name and No. 22858	
3. Address 350 Indiana Street, Suite 400 Golden, CO 80401		8. Lease Name and Well No. Jicarilla 458-5 No. 2	
3a. Phone No. (include area code) 720-210-1308		9. API Well No. 30-039-25781	
4. Location of Well (Report location clearly and in accordance with Federal requirements) At surface 1850' FSL & 790' FWL (NWSW) Unit 1. At top prod. interval reported below 1850' FSL & 790' FWL (NWSW) Unit 1. At total depth 660' FSL & 660' FEL (SESE)		10. Field and Pool, or Exploratory East Blanco, Pictured Cliffs	
14. Date Spudded 8/13/2004 3-17-98		11. Sec., T., R., M., on Block and Survey or Area Sec. 5, T30N-R03W	
15. Date T.D. Reached 8/22/2004		12. County or Parish Rio Arriba	
16. Date Completed ☒ D & A ☒ Ready to Prod. 9/3/2004		13. State NM	
18. Total Depth: MD 6587' TVD 3911'		17. Elevations (DF, RKB, RT, GL)* 7147'	
19. Plug Back T.D.: MD 3771' TVD 3771'		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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24	0'	528.63'	537'	300 & B		surface;	
								circ 95 sx	to surface
7 7/8"	5 1/2"	15.5	0'	4038.72'		720 sx		surface;	
								circ 100sx	to surface
4 3/4"	2 3/8"		3760'	3933'		Open Hole			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
5 3/8"	3933'							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Pictured Cliffs	3755'	6587'				
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
9/10/04	9/10/04	24	☐		718	0			Flowing
Choke Size	Tbg. Press Flwg SI	Csg. Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			☐		718	0		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)

NMOCD

ACCEPTED FOR RECORD

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	Thg 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	Thg 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
				Ojo Alamo	3202'
				Kirtland	3418'
				Fruitland	3657'
				Pictured Cliffs	3772'
				Lewis	3863'

32. Additional remarks (include plugging procedure):

Whipstock set @ 3756'.

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 10/12/04

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.