

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 Contract 464

 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)

720-210-0308

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

At surface 1600 FNL & 1800' FEL (NWSE) Unit J

At top prod. interval reported below 1600 FNL & 1800' FEL (NWSE) Unit J

At total depth 1600 FNL & 1800' FEL (NWSE) Unit J

14. Date Spudded

2/19/1998

15. Date T.D. Reached

2/25/1998

16. Date Completed

☐ D & A ☒ Ready to Prod.

8-20-04

18. Total Depth: MD

TVD 3940'

19. Plug Back T.D.: MD

TVD 3855'

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)

GR, SDL, DSN, DIND, SGRD

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'	537'		300 & B		surface;	
								circ 95sx	
								to surface	
7 7/8"	5 1/2"	15.5	0'	3933.58'		1283 sx		surface;	
								circ 200sx	
								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"	3754'							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) San Jose	1503'	1634'	1503-12,21-28,40-50,70-91,1618-	4 jsf	220	Open
B)			22,30-34			
C) Ojo Alamo	3140'	3194'	3140-3194		216	Open
D)			2694-2724	2 jsf	60	Open

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

Depth Interval	Amount and Type of Material
2694-2724	Acidize w/3% HCl. Frac w/51,660# 20/40 mesh brady sand, 20,700# 20/40 mesh super LC activated resin sand, 456 BW w/MA-844 & 284,918 scf N2. 50Q FOAM/AMBORMAX 1015. 1-4 ppg sand.

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
4/20/98	9/30/04	24	☐		75				Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			☐					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
 DEC 10 2004

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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
				Ojo Alamo	3140'
				Kirtland	3372'
				Fruitland	3540'
				Pictured Cliffs	3652'
				Lewis	3731'

32. Additional remarks (include plugging procedure):

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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 11/6/2004

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.