

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

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

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

3a. Phone No. (include area code)

505-634-1111

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

At surface 1800' FNL & 745' FWL (SWNW) Unit E

At top prod. interval reported below 1800' FNL & 745' FWL (SWNW) Unit E

At total depth 1800' FNL & 745' FWL (SWNW) Unit E

14. Date Spudded

10/23/04

15. Date T.D. Reached

10/26/04

16. Date Completed

☐ D&A ☒ Ready to Prod.

2-25-05

5. Lease Serial No.

Jicarilla Contract 451

6. Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

NM

8. Lease Name and Well No.

Jicarilla 451-03 No. 21

9. API Well No.

30-039-29267

10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

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

Sec. 3, T29N, R03W

12. County or Parish

Rio Arriba

13. State

NM

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

GL 7145, KB7158

18. Total Depth: MD

TVD

3880

19. Plug Back T.D.: MD

TVD

3810

20. Depth Bridge Plug Set:

MD

TVD

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

High Resol. Induction, Spectral Dens. Dual Space Nuet. logs

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 Lb	0'	267'				surface	
								circ 37 bb	
								to surface	
7-7/8"	5-1/2"	15.5 Lb	0'	3834'		650 sx		surface	
								circ 3 bbl	
								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"	3678'							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Nacimiento	3118'	3128'	3118-3128	4	40	Closed
B) Nacimiento	2782'	2918'	2782-2784, 2788-2790, 2856-2858,	4	40	Closed
C)			2866-2868, 2916-2918			
D) Nacimiento	2688'	2732'	2728-2732, 2688-2690	4	24	Open

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

Depth Interval	Amount and Type of Material
3118'-3128'	500 gal HCL
2782'-2918'	460,000 SCF N2, 52,240 LBM Propanat
2688'-2732'	4,000 MSCF N2
1420'-1424'	160 MSCF 3

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
3/9/05			<input type="checkbox"/>		0				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>		0			Zone squeezed	

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
3/9/05			<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"/>					Zone squeezed	

ACCEPTED FOR RECORD

JUL 22 2005

FARMINGTON FIELD OFFICE
BY

NMOCDD

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
3/9/05	2/21/05	24	<input type="checkbox"/>	•	21				Flowing
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>					Producing	

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	Tbg 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.)

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	Surface
				NACIMIENTO	2145'
				OJO ALAMO	3218'
				KIRTLAND	3436'
				FRUITLAND COAL	3580'
				PICTURED CLIFFS	3681'

32. Additional remarks (include plugging procedure):

Perforation Record Continued

Ojo Alamo Top: 3220' Bott: 3262' Perf Intervals: 3220'-328', 60-62 Size: 4 No. Holes: 40 Perf Status: Open
 San Jose Top: 1420' Bott: 1424' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 16 Perf Status: Open

Acid, Fracture Treatment, Cement Squeeze, Etc.
 1420'-1424' 160 MSCF 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) Agatha SnellTitle Administrative Technician

Signature

Agatha SnellDate 6/21/05

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.