

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 701-98-00131a. 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)

727-210-1308

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

At surface 1250' FNL & 1355' FEL (NWNE) Unit B

At top prod. interval reported below 1250' FNL & 1355' FEL (NWNE) Unit B

At total depth 1250' FNL & 1355' FEL (NWNE) Unit B

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Jicarilla 30-03-36 No. 3

9. API Well No.

30-039-27826

10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

11. Sec., T., R., M., on Block and Survey
or Area Sec. 36, T30N-R03W

12. County or Parish

Rio Arriba

13. State

NM

14. Date Spudded

7/23/04

15. Date T.D. Reached

7/25/04

16. Date Completed

☐ D & A ☒ Ready to Prod.

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

7282' GL, 7294' KB

18. Total Depth: MD 3725'
TVD19. Plug Back T.D.: MD
3688' TVD20. Depth Bridge Plug Set: MD
TVD

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

SDL/DSN, HRI

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'	279'		175 sx		surface;	
								circ 7bbls	
								to surface	
7 7/8"	5 1/2"	15.5	0'	3715'		730 sx		surface;	
								circ 25bbl	
								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"	3572.6	3587.6						

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) San Jose	1120'	1314'	1120-22, 70-72, 1202-04, 62-64,	2	24	Open; 1304-06, 12-14
B) San Jose	1756'	2020'	1756-58, 70-72, 1844-46, 1994-96,	2	20	Open; 2018-2020
C) Nacimiento	2341'	3125'	2341-2343, 2860-2862, 3123-3125	4	24	Open
D)			3214-16, 50-52, 3318-20, 28-30, 41-	2	36	43, 59-61, 66-68, 3414, 26-28, 38-40

26. Perforation Record

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

Depth Interval	Amount and Type of Material
1120-1314	Pump 600 gal 3% HCl, followed w/240,000 scf N2. Frac w/ 65Q-N2 Lightning-12 w/ 28,000# 16/30 SB Excel sand, w/ 4,260 scf N2.
1756-2020	Pump 500 gal 3% HCl, followed w/220,000 scf N2.
2341-3125	Pump 300 gal 3% HCl, followed w/333,000 scf N2.
3214-3440	Pump 1100 gal 3% HCl. Frac w/ maz prop conc 14.5 ppa, 13,624 gal H2O, 335, amscf N2, 12,289 WF 70Q 73315#, 20/40 brady 70 gal MA 844.

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
	2/3/05	24	<input type="checkbox"/>		75				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"/>					Waiting on Pipeline	

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
			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Cal Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

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

NMOCD

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FARMINGTON FIELD/OFFICE

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
			<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"/>						

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.)

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
				San Jose	surface
				Nacimiento	2055'
				Ojo Alamo	3199'
				Kirtland	3455'
				Fruitland Coal	3565'
				Pictured Cliffs	3666'

32. Additional remarks (include plugging procedure):

3214'-3440' cement squeeze: w/ 150 sx type 3 cmt w/ 1% CACL2 and FL 52, ICP 60 psi @ 3 bpm, pump 36 bbls slurry and displace w/ 18 bbls water.

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

3/3/05

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.