

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.
Jicarilla Contract 4621a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

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 462-22 No. 22

9. API Well No.

30-039-27800

10. Field and Pool, or Exploratory

Cabresto Canyon, Tertiary

11. Sec., T., R., M., on Block and Survey
or Area Sec. 22, T30N-R03W

12. County or Parish

Rio Arriba

13. State

NM

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

7223' KB, 7222' DF, 7209' GL

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)

720-216-1308

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

At surface 1975' FNL & 2050' FWL (SENW) Unit F

At top prod. interval reported below 1975' FNL & 2050' FWL (SENW) Unit F

At total depth 1975' FNL & 2050' FWL (SENW) Unit F

14. Date Spudded

7/8/2004

15. Date T.D. Reached

7/11/2004

16. Date Completed

☐ D & A☒ Ready to Prod.

11/18/04

18. Total Depth: MD 3814'
TVD19. Plug Back T.D.: MD 3763'
TVD 3762.4'20. Depth Bridge Plug Set: MD
TVD

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

HRI, LSS, SDL/DSN

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'	264'		175 sx		surface;	
								circ 7bbbls	
								to surface	
7 7/8"	5 1/2"	15.5	0'	3810'		750 sx		surface;	
								circ 16bbl	
								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"	3606.7'							

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) San Jose	1184	1684	1184-86,1210-14,20-22,38-42,1666	2	36	-1670,1682-1684
B) Nacimiento	2455	2964	2455-57,62-64,2598-2600,2758-60,	2	40	70-72,2870-72,2910-14,56-58,62-6
C) Ojo Alamo	3192	3302	3192-96,3204-14,62-64,68-70,76-7	2	52	8,90-92,96-98,3300-02
D) Ojo Alamo	3316	3408	3316-18,22-24,28-30,34-36,42-44,	2	52	48-50,56-56,62-64,69-71,76-78,84

26. Perforation Record

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

Depth Interval	Amount and Type of Material
1184-1684	Acidize w/ 600 gals 3% HCl. Frac w/ N2 Foam & 60,000# 20/40 sand.
2455-2964	Acidize w/ 24 bbls 3% HCl. fracw/ 30,193gal.WF120 50 Q N2/FM. 118,055 LBS. 20/40 arizon sand @ 1-4ppg stages. (propnet in 4) 453.2 MSCF N2
3192-3302	Acid w/18bbbls 3%HCl.Frac w/70Q N2 grn lightning-18. 70% mitchell q fm. 60,300lbs. 12/20 brown brady sand & 56,640lbs 12/20 polar prop1116.4
3316-3408	Acidize w/750 gals 3%HCl. Frac w/WF120 50Q. 50 Q N2/FM. 63,673lbs. 20/40 arizon sand @1-4 ppg stages(propnet in 4) 194.1mscf N2

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
	11/11/04	24	<input type="checkbox"/>	-	290	12			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	Call 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)

ACCEPTED FOR RECORD
MAR 2 2005

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	Thg 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	Thg 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	2085'
				Ojo Alamo	3191'
				Kirtland	3421'
				Fruitland	3601'
				Pictured Cliffs	3700'

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) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 2/3/2005

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.