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Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFarmington Field Office
Bureau of Land ManagementFORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Lease Serial No.

Contract 457

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
 b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
 Other Black Hills Permit Clean-up Program (Perf correction)

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

2. Name of Operator

Black Hills Gas Resources, Inc.

8. Lease Name and Well No.

Jicarilla 457-10 #11

3. Address

3200 N 1st Street, Bloomfield, NM 87413

3a. Phone No. (include area code)

505-634-5104

9. AFI Well No.

30-039-29326

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

At surface 660' FNL & 660' FWL NW/NW (UL: D)

At top prod. interval reported below

"Corrected Report"

10. Field and Pool or Exploratory
Cabresto Canyon Tertiary

11. Sec., T., R., M., on Block and

Surveyor Area

Sec 10 T30N R3W

12. County or Parish

Rio Arriba

13. State

NM

At total depth

14. Date Spudded

04/27/05

15. Date T.D. Reached

05/02/05

16. Date Completed

☐ D&A ☒ Ready to Prod. 1/20/06

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

7132' GL & 7145' KB

18. Total Depth: MD 3787'

TVD

19. Plug Back T.D.. MD 3402'

TVD

20. Depth Bridge Plug Set: MD 3402'

TVD

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

Induction, Density/Neutron, CBL

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# K-55	0'	259'		175		0' - circ	
7-7/8"	5-1/2"	15.5# K-55	0'	3787'		525sx 65/35 POZ	179	0' - CBL	
						100sx 50/50 POZ	24		

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	3350'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A Ojo Alamo Tertiary	3103'	3329'	3232' - 3274'	0.42"	84	2 SPF
B						
C						
D						

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

Depth Interval	Amount and Type of Material
3232' - 3274'	Fraced w/ 130,000# sand in 70Q foam

28. Production - Interval A

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/26/06	01/17/06		→						Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→		0			Producing	

28a. Production - Interval B

Date First Produce	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	
	SI		→						

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

SEP 21 2012

NMOCD

FARMINGTON FIELD OFFICE
BY SC

28a. Production - Interval C

Date First Produce	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	
			→						

28a. Production - Interval d

Date First Produce	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 (Solid, used for fuel, vented, etc.)

Vented

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	3103'	3329'	gas	San Jose Nacimiento Ojo Alamo Kirtland Fruitland Pictured Cliffs Lewis	surface 2033' 3103' 3329' 3582' 3644' 3714'

32. Additional remarks (include plugging procedure).

Jicarilla 457-10 #11 PC**PC open below CIBP @ 3402'**

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ 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)

Daniel Manus

Title

Regulatory Technician

Signature

Daniel Manus

Date

9-20-12

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.

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