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Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 20 2013

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

Farmington Field Office
Bureau of Land Management

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
Jic 459

1a. Type of Well Oil Well Gas Well Dry Other
b. Type of Completion: New Well Work Over Deepen Pug Back Diff. Reserv.,
Other Clean up

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

8. Lease Name and Well No.
Jicarilla 459-17 #9

3. Address **3200 N 1st Street Bloomfield, NM 87413** 3a. Phone No. (include area code) **(505) 634-5104**

9. AFI Well No.
30-039-25763

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **1850' FNL & 2510' FEL (SW/ NE) UL: G**
At top prod. interval reported below
At total depth **1850' FNL & 2510' FEL (SW/NE) UL: G**

10. Field and Pool or Exploratory
East Blanco Pictured Cliffs
11. Sec., T., R., M., on Block and Surveyor Area
Sec. 17 T30N R3W
12. County or Parish **Rio Arriba** 13. State **NM**

14. Date Spudded **2/14/1998** 15. Date T.D. Reached **2/21/1998** 16. Date Completed D&A Ready to Prod. **1/27/05**

17. Elevations (DF, RKB, RT, GL)
7165' GL, 7177' KB

18. Total Depth: MD **3970'** TVD **MD 3970'** 19. Plug Back T.D.: MD **MD** TVD **TVD** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
Dual Ind, Temp Survey

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	533'		325sx B		Surf. circ. 100sx	
7-7/8"	5-1/2" J-55	17	0'	3965'		470sx 35-65 PO		427' Temp Surv.	
								0sx circ.	

24. Tubing Record

Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)
2-3/8"	3722'	3266'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A Pictured Cliffs	3734'	3803'	3735-3737, 3759-3767, 3789-3799	2	40	Open
B						
C						
D						

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

Depth Interval	Amount and Type of Material
3735-3799	Acidize W/ 500 gals 3% HCl, Frac W/ 90,400 20/40 brady sand, 561,301 mscf N2

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
1/27/05	1/31/05	24	→		150				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 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	
			→						

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

ACCEPTED FOR RECORD
FEB 21 2013

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FARMINGTON FIELD OFFICE

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.)

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	0'
				Nacimiento	2055'
				Ojo Alamo	3183'
				Kirtland	3419'
				Fruitland	3651'
				Pictured Cliffs	3734'
				Lewis	3803'

32. Additional remarks (include plugging procedure):

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  Date 02/20/13

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.