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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 11 2013

Farmington Field Office

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

Jic 458

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 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, Inc**

8. Lease Name and Well No.  
**Jicarilla 458-8 #6**

3. Address  
**3200 N 1st Stree, Bloomfield, NM 87413**

3a. Phone No. (include area code)  
**505-634-5104**

9. AFI Well No.  
**30-039-25757**

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

At surface **1050' FNL & 1700' FWL UL: C**

At top prod. interval reported below/

At total depth

10. Field and Pool or Exploratory  
**East Blanco; Pictured Cliff**

11. Sec., T., R., M., on Block and  
 Surveyor Area  
**Sec 8 T30W R3W**

12. County or Parish  
**Rio Arriba**

13. State  
**NM**

14. Date Spudded  
**1/14/98**

15. Date T.D. Reached  
**02/25/98**

16. Date Completed  
☐ D&A ☒ Ready to Prod. **5/10/06**

17. Elevations (DF, RKB, RT, GL)  
**7178' GL**

18. Total Depth: MD **6400'**  
 TVD

19. Plug Back T.D.: MD **5900'**  
 TVD

20. Depth Bridge Plug Set: MD **5900'**  
 TVD

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

**Induction, SDL-DSN, 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8-5/8"	24#	0'	504'		345sx "B"		0' CIR	0'
7-7/8"	5-1/2"	17#	0'	6400'	5697'	Stg 1-170 sx POZ		5697'	0'
						Stg 2-1450sx POZ		380'	

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 DIST. 3

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"	3748'	3708'	4-1/2"					

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A <b>Pictured Cliffs</b>	3766'	3858'	3766' -74, 3776'-85	0.34"	90	2 SPF
B			3694'-98, 3809-18			
C			3823'-30, 3843-51			
D						

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

Depth Interval	Amount and Type of Material
3766' - 3851'	BD w/ 500 gal acetic acid & 135 Pert Balls.
	Fraced W 141,000# 20/40 sand in foam on 5/2/06

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
Ready	05-09-06	5	→	365					Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
3/8"	SI		→	1,750				Shut-in	

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.	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

NMOCD

FARMINGTON FIELD OFFICE  
FEB 12 2013

## 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.)

**Vent**

## 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	1588'	1711'	Gas	San Jose	0'
Ojo Alamo	3196'	3430'	Gas	Nacimiento	2020'
Pictured Cliffs	3766'	3858'	Gas	Ojo Alamo	3196'
				Kirtland	3430'
				Fruitland	3663'
				Pictured Cliffs	3766'
				Lewis	3858'
				Mesa Verde	5747'

## 32. Additional remarks (include plugging procedure):

**Jicarilla 458-8 #6 PC**

## 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 Mapus**Title **Regulatory Technician**

Signature

Date **02/11/13**

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.

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