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Farmington Field Office
Bureau of Land Management

OIL CONS. DIV DIST. 3
JUL 10 2015

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: **MDA 701-98-0013 Tract 4**

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Pug Back ☐ Diff. Resvr.,
✱Other **Corrected Completion Report**

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 29-02-05 #4**

3. Address: **P.O. Box 249 Bloomfield, NM 874103**

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

9. AFI Well No.: **30-039-27596**

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

At surface **705' FNL & 2245' FEL NW/NE Section 5 T29N R2W (UL: B)**

At top prod. interval reported below

At total depth **735' FNL & 55' FWL NW/NW Section 5 T29N R2W (UL: D)**

10. Field and Pool or Exploratory: **East Blanco Pictured Cliffs**

11. Sec., T., R., M., on Block and Surveyor Area: **Sec 5, T29N R2W**

12. County or Parish: **Rio Arriba** 13. State: **NM**

14. Date Spudded: **3/6/04**

15. Date T.D. Reached: **3/14/04**

16. Date Completed ☐ D&A ☑ Ready to Prod. **5/16/05**

17. Elevations (DF, RKB, RT, GL): **7528' GL**

18. Total Depth: MD **6928** TVD **4000**

19. Plug Back T.D.: MD **6928** TVD

20. Depth Bridge Plug Set: MD TVD

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

Sonic, Induction, Neutron-Density, CBL

22. Was well cored? ☑ No ☐ Yes (Submit anlysis)
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 K55	24	0'	250'		175 Type III	37	0' - Circ	
7-7/8"	5-1/2 K55	15.5	0'	4000'		371 Txt	127	3920' -3/25/04 CBL	
	"					after multiple sqz's		1060' - 4/16/04 CBL	
4-3/4"	2-7/8 N80	8.7	3775'	6058'		0			

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	3775'							

25. Producing. Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A	Pictured Cliffs	3833'	6928'	N/A - open hole			
B							
C							
D							

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

Depth Interval	Amount and Type of Material
See Attachment	

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	5/12/04	2.5	→		10				Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
1/2"	15	154	→		95			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. 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
JUL 08 2015
FARMINGTON FIELD OFFICE
BY: William Tambekou

NMOCD

3

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, Contaents, etc.	Name	Top Meas. Depth
				San Jose	**Surface**
				Nacimiento	**2279'**
				Ojo Alamo	**3461'**
				Kirtland	**3651'**
				Fruitland	**3751'**
				Pictured Cliffs	**3833'**

32. Additional remarks (include plugging procedure):

Jicarilla 29-2-5 #4 Pictured Cliffs

"Corrected Completion Report"

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 pulgging 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 Tech II

Signature Daniel Manus Date July 7, 2015

Title 18 U.S.C. Section 100 I 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 ofthe United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

Black Hills Gas Resources, Inc.
Jicarilla 29-02-05 #4
API #30-039-27596

Attachment to Form 3160-4

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

Depth Interval	Amount and Type of Material
1500 – 1502'	Circulate cement - 388 sx (117 bbl), 12.2 ppg, 1.69 yield
2495 – 2497'	Circulate cement between perfs & squeeze – 139 sx (42 bbl), 12.2 ppg, 1.69 yield
3140 – 3142'	
3440 – 3442'	Cement squeeze - 100 sx (30 bbl), 12.2 ppg, 1.69 yield
3650 – 3652'	Cement squeeze - 139 sx (42 bbl), 12.2 ppg, 1.69 yield
3890 – 3892'	Cement squeeze - 66 sx (20 bbl), 12.2 ppg, 1.69 yield