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Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 02 2010

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

State of New Mexico
Bureau of Land Management
Farmington Field Office

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

1a. Type of Well ☐ Oil Well ☒ Gas ☐ Dry Other
b. Type of Completion: ☐ New ☒ 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.

2. Name of Operator

Black Hills Gas Resources, Inc. c/o Mike Pippin LLC (Agent)

8. Lease Name and Well No.

JICARILLA 29-02-09 #143

3. Address

3104. N. Sullivan, Farmington, NM 87401

3a. Phone No. (include area code)

505-327-4573

9. API Well No.

30-039-30080-0002

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

At surface **500' FSL & 1650' FEL Unit (O) Sec. 9, T29N, R2W**

At top prod. interval reported below **939' FSL & 2137' FWL Unit (N) Sec. 9, T29N, R2W**

At total depth **2306' FSL & 2413' FEL Unit (J) Sec. 8, T29N, R2W**

10. Field and Pool, or Exploratory

**La Jara Canyon Tertiary
East Blanco Pictured Cliffs**

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

Survey or Area O 9 T29N R2W

12. County or Parish

Rio Arriba

13. State

NM

14. Date Spudded

08/16/08

15. Date T.D. Reached

09/12/08

16. Date Completed

☐ P & A ☒ Ready to Prod.
W/O: 2/2/10

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

7365' GL & 7377' KB

18. Total Depth: MD **9509'**
TVD **3718'**

19. Plug Back T.D.: MD **9509'**
TVD **3718'**

20. Depth Bridge Plug Set: MD
TVD

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

Mud Log / CBL

22. Was well cored? ☒ No ☐ Yes (Submit copy)

Was DST run? ☒ No ☐ Yes (Submit copy)

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
17-1/2"	13-3/8"	48# H-40	0'	266'		325, G	105	0' - circ	0'
8-3/4"	7" J-55	23#	0'	MD4868'		400, POZ	100		0'
					2300'	660, G	342	0' - circ	0'
12-1/4"	1.9" J-55	2.76# IJ	0'	2564'	Parasite string on outside of 7" csg.				0'
6-1/8"	4-1/2"	11.6# N-80	MD4779'	MD9496'		0			0'

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set	Packer Depth	Size	
2-3/8"	1286'				2882'	7"	1.9" tailpipe to 4700'

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Tertiary	Surface	3665'	1179'-82', 1227'-30', 42', 1248'-51', 1262'- 1334'-39', 1346'-48'	0.34"	46	Open

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

Depth Interval	Amount and type of Material
1179'-1348'	550 gal 7.5% HCL & Fraced w/94,400# polar prop sand in 70Q foam

RCVD FEB 2 '10
OIL CONS. DIV.
DIST. 3

28. Production - Interval A **A2T-3313**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Ready	01/28/10	4.5	→		152	0			Flowing
Choke Size	Tbg. Press Flwg. PSI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
3/4"		41 psi	→		811	0			Shut-in

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
			→						
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 reverse side)

NMOCD

ACCEPTED FOR RECORD
FEB 02 2010
FARMINGTON FIELD OFFICE
BY **T. S. S. S.**

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
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

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
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 (Sold, 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
Pictured Cliffs	3619' TVD	3769' TVD	GAS	San Jose Nacimiento Ojo Alamo Kirtland Fruitland Pictured Cliffs	MD TVD Surface 2142' 2142' 3276' 3216' 3665' 3452' 3906' 3537' 4763' 3619'

32 Additional remarks (include plugging procedure):

Jicarilla 29-02-09 #143 Recomplete into Tertiary & Commingle w/PC ✓ Approval rec. 1/11/2010

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 | 5. Core Analysis | 7. Other. | |

36 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) Mike Pippin 505-327-4573 Title Petroleum Engineer (Agent)

Signature Mike Pippin / L. Lam Date February 1, 2010

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.

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 22: Show how reported top(s) of cement were determined, i.e., circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

PRIVACY ACT

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSE: The information will be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory once a well is drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, Bureau Clearance Officer, (WO-630) MS 401 LS, 1849 C Street, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Interior Desk Officer (1004-0136), Washington, D.C. 20503.