

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 20045. 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 ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

7. Unit or CA Agreement Name and No.

24245

8. Lease Name and Well No.

Jicarilla 29-02-16 No. 4

9. API Well No.

30-039-27462

10. Field and Pool, or Exploratory  
East Blanco, Pictured Cliffs11. Sec., T., R., M., on Block and Survey  
or Area Sec. 16 T29N-R02W

12. County or Parish

Rio Arriba

13. State

NM

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

7248' GL, 7263 KB

2. Name of Operator

Black Hills Exploration &amp; Production dba Mallon Oil Company

3. Address

50 Indiana St, Suite 400 Golden, CO 80401

3a. Phone No. (include area code)

720-210-1308

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

At surface 685' FNL and 690' FWL (NWNW) Unit D

At top prod. interval reported below 685' FNL and 690' FWL (NWNW) Unit D

At total depth 685' FNL and 690' FWL (NWNW) Unit D

4. Date Spudded

7/13/2003

15. Date T.D. Reached

7/18/2003

16. Date Completed

☐ D & A☒ Ready to Prod.

9-5-03

8. Total Depth: MD

TVD 3845'

19. Plug-Back T.D.: MD

3825' KB

TVD

20. Depth Bridge Plug Set:

MD

TVD

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

p Density Neutron, Hi Resolution Induction, Cement Bond

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit report)Directional Survey? ☒ No ☐ Yes (Submit copy)

3. 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	24 lb/ft	0	283		171 sks & Type III	52 bbls	surface;	
								circ 20bbl	
								to surface	
7 7/8	5 1/2	15.5lb/ft	0	3874		1170 sks & 50/50 POZ	75 bbls	surface	
								circ 63bbl	
								to surface	

4. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8	3551' KB	3495' KB						

5. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
) Pictured Cliffs	3548'	3570'	3548'-3570'	2 jspf	44	
)						
)						
)						

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

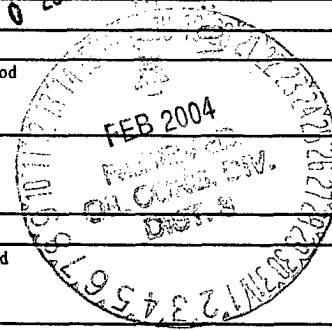
Depth Interval	Amount and Type of Material
48'-3570'	Frac w/ 65 quality foam, 472,500 scf of N2, 66,380 lbs. 12/20 brown brady sand proppant @1-4 ppg. stages.

8. Production - Interval A

ate First duced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/25/03	9/5/03	24	<input type="checkbox"/>	0	119	16.8	n/a	n/a	Flowing
oke ze	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
3/8"			<input type="checkbox"/>					Producing	

a. Production - Interval B

ate First duced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
oke ze	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

ACCEPTED FOR RECORD  
FEB 10 2004

## 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
			<input type="checkbox"/>						
Choke Size	Thg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 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
			<input type="checkbox"/>						
Choke Size	Thg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 29. Disposition of Gas (Sold 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	surface
				Nacimiento	2360
				Ojo Alamo	2690
				Kirtland	3150
				Fruitland	3380
				Pictured Cliffs	3650
				Lewis	3750

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

## 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   
☐ 6 Core Analysis   
☐ 7 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) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 11/17/03

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.