Form 3160-4
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
MDA 701-98-0013

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 Tribe

7. Unit or CA Agreement Name and No.
25496

2. Name of Operator
Mallon Oil Company, an indirect wholly-owned subsidiary of Black Hills Exploration & Production, Inc

8. Lease Name and Well No.
Jicarilla 29-02-33 No. 2

3. Address
350 Indiana Street, Suite 400 Golden, CO 80401

3a. Phone No. *(include area code)*
720-210-1308

9. API Well No.
30-039-26819

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

At surface 770' FNL & 725' FWL (NW/NW) Unit D

At top prod. interval reported below 770' FNL & 725' FWL (NW/NW) Unit D

At total depth 770' FNL & 725' FWL (NW/NW) Unit D

10. Field and Pool, or Exploratory
La Jara Canyon, Tertiary

11. Sec., T., R., M., on Block and Survey or Area Sec. 33, T29N-R02W

12. County or Parish
Rio Arriba

13. State
NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
6/20/2003	6/24/2003	☐ D&A ☑ Ready to Prod. 11-19-03	7256' GL, 7251' KB

18. Total Depth: MD / TVD	19. Plug Back T.D.: MD / TVD	20. Depth Bridge Plug Set: MD / TVD
TVD 3750' KB	TVD 3712' KB	TVD 3710' KB

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

Hi Resolution Induction, Spect. Density Dual Spaced Neutron

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	24	0	262' KB		175 & III	36.5 bbls	surface;	
								circ. 6bbl	
								to surface	
7 7/8	5 1/2	15.5	0	3750' KB		1170 sx		surface;	
								circ 108bb	
								to surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
~~2 7/8~~ 1.9	~~3616' KB~~ 2878	3489' KB	1.9	3495' KB	3495' KB	1.9	2878' KB	

25. Producing Intervals / 26. Perforation Record

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Ojo Alamo	2870'	2880'	2870-2880	2 jspf	20	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	11/11/03	24	☐		877	12			Flowing

Choke Size	Tbg. Press. Flgw. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status
1/2			☐					Waiting on Pipeline

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	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status
			☐					

(See instructions and spaces for additional data on next page)

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	Thg 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.)

Sold

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.

Formation	Top	Bottom	Descriptions, Contents, etc.

31. Formation (Log) Markers

Name	Top Meas. Depth
San Jose	~surface
Nacimiento	2506'
Ojo Alamo	2870'
Kirtland	3280'
Fruitland	3495'
Pictured Cliffs	3580'
Lewis	3645'

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 2/11/2004

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.