Form 3160-4 (September 2001)

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

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

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

5. Lease Serial No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

BLA Jicarilla Contract #460 6. If Indian, Allottee or Tribe Name la. Type of Well Oil Well Gas Well Dry Other New Well Work Over Deepen Plug Back Diff. Resvr. b. Type of Completion: t)] (e. AL BUQUE ROUE, N.M. Other. 2. Name of Operator 8. Lease Name and Well No. Mallon Oil Company, an indirect wholly-owned subsidiary of Black Hills Exploration & Production, Inc Jicarilla460-21 No. 21 3. Address 3a. Phone No. (include area code) 9. API Well No. 350 Indiana Street, Suite 400, Golden, CO 80401 720-210-1308 30-039-25866 4. Location of Well (Report location clearly and in accordance with Federal requirements)* 10. Field and Pool, or Exploratory East Blanco, Pictured Cliffs At surface 1456' FNL & 1476' FWL (SE/NW) Unit F 11. Sec., T., R., M., on Block and Survey or Area Sec. 21, T30N-R03W At top prod. interval reported below 1456' FNL & 1476' FWL (SE/NW) Unit F 12. County or Parish 13. State At total depth 1456' FNL & 1476' FWL (SE/NW) Unit F Rio Arriba NM 16. Date Completed 17. Elevations (DF, RKB, RT, GL)* 14. Date Spudded 15. Date T.D. Reached D&A Ready to Prod. 6/18/1998 6/25/1998 1/24/04 18. Total Depth: MD 19. Plug Back T.D.: MD Depth Bridge Plug Set: 20. MD TVD 4050' TVD 39821 TVD 1769' 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Yes (Submit analysis) Was well cored? \square Νo Was DST run? \square Yes (Submit report) No Directional Survey? \square Yes (Submit copy) No SDL/DSN, DIGL 23. Casing and Liner Record (Report all strings set in well) No of Sks & Stage Cementer Slurry Vol. Amount Pulled Cement Top* Hole Size Size/Grade Wt. (#/ft.) Top (MD) Bottom (MD) (BBL) Depth Type of Cement 12 1/4 8 5/8 25 0 542 300 & surface; Class H circ. 65sx to surface 7 7/8 5 1/2 15.5 0 4013 575 sx surface; circ. 13sx to surface 24. Tubing Record Depth Set (MD) Packer Depth (MD) Depth Set (MD) Packer Depth (MD) Packer Depth (MD) Size Size Size Depth Set (MD) 2 3/8 3794' 25. Producing Intervals 26. Perforation Record Formation Bottom Perforated Interval Size No. Holes Perf. Status TOP A) Pictured Cliffs 3794 3805 3794-3805 4 jspf B) C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, Etc Depth Interval Amount and Type of Material 3794-3805 107 bbls gelled h2o assisted w/132 mscf nitrogen, followed by 1 lb pg sand = to 12510# sand in 77.2 bbls gelled h2o assisted w/ 66.9 mscf of N2, followed by 2 lb pg sand = to 18920# sand in 88.8 bbls gelled h2o assisted w/ 66.8 mscf of N2, followed by 3 lb pg sand = to 28000# sand in 102.6 bbls gelled h20 assisted w/ 66.6 msef of N2, followed by 4 lb pg sand = to 26170# sand in 80.5 bbls gelled h20 assited w/48.9 mscf of N2, flush 13 bbls, 8.7 mscf of N2 28. Production - Interval A Gas MCF N/F Oil Gravity Date First Hours Production Method Test Gas Oil BBL Production Tested BBL Gravity 24 8/18/98 1/21/04 82 Flowing Choke Tbg. Press 24 Hr. Rate Oil Gas Water Well Status Gas: Oil Csg. Flgw. Press BBL MCF Producing 210 28a. Production - Interval B Date First Oil BBL Oil Gravity Corr. API Hours Test Gas MCF Water Production Method Gas Produced Date Production BBL Gravity Tbg. Press Flwg. SI Choke Size 24 Hr Oil BBL Water BBL Gas: Oil Ratio Well Status Rate

28b. Produ	ction - Inter	val 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. Produ	ction - Inter	val D	-l	 						
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	The Press Flwg SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status		
29. Disposi Sold	tion of Gas	(Sold use	d for fuel, v	ented, etc.)					
30. Summary of Porous Zones (Include Aquifers): 31. Formation (Log) Markers										
tests,	all importa including de coveries.	ant zones o epth interv	of porosity a al tested, cu	and conter shion used	nts thereof: (, time tool o	Cored interva pen, flowing	als and all drill-ster and shut-in pressure	n es		
Formation		Тор	Bottom		Descriptions, Contents, etc.				Name Top Meas. Depth	
				-						
,									Nacimiento	2076'
									Ojo Alamo	3268'
				ĺ					Kirtland	3492'
									Fruitland	3685'
	İ			İ					Pictured Cliffs	3784'
									Lewis	3876'
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32. Additio	onal remark	s (include	plugging pr	ocedure):	····					<u> </u>
										4
										
33. Circle	enclosed att	tachments:								
1 Ele	ctrical/Mec	hanical Lo	gs (1 full set	t req'd.)	2 (Geologic Repo	ort 3 DST F	Report 4 D	Directional Survey	
5 Sun	dry Notice	for pluggii	ng and cemen	nt verificat		Core Analysis			·	
34. I hereb	y certify th	at the fore	going and at	tached info	ormation is c	omplete and	correct as determin	ed from all availa	able records (see attached instr	uctions)*
Name (please print) Allison Newcomb Title Engineering Technician										
Signature allison Teuronk Date 2/18/2004										

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.