Form 3160-4
(August 1999)

EC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM03428

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

7. Unit or CA Agreement Name and No.

2. Name of Operator: MACK ENERGY CORPORATION
Contact: ROBERT CHASE
E-Mail: jerrys@mackenergycorp.com

8. Lease Name and Well No.: PANTHER FEDERAL 02

3. Address: P O BOX 960, ARTESIA, NM 88211-0960
3a. Phone No. (include area code): Ph: 505.748.1288

9. API Well No.: 30-025-36323-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 31 T17S R32E Mer NMP
At surface NWSW 2310FSL 990FWL
At top prod interval reported below
At total depth

10. Field and Pool, or Exploratory: TAMANO DELAWARE

11. Sec., T., R., M., or Block and Survey or Area: Sec 31 T17S R32E Mer NMP

12. County or Parish: LEA
13. State: NM

14. Date Spudded: 02/26/2004
15. Date T.D. Reached: 03/18/2004
16. Date Completed ☐ D & A ☒ Ready to Prod. 04/06/2004
17. Elevations (DF, KB, RT, GL)*: 3851 GL

18. Total Depth: MD 4875 TVD 4875
19. Plug Back T.D.: MD 4860 TVD 4860
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR N D L SGR

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

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
17.500	13.375 H-40	48.0	0	825		700		0	
12.250	8.625 J-55	32.0	0	2180		825		0	
7.875	5.500 J-55	17.0	0	4873		1100		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4516							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	DELAWARE	4487	4491	4487 TO 4491	0.000	10	2 JSPF
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
4487 TO 4491	1000 GALS 15% NEFE, 44,200# 16/30 & 14/30 SAND, 54,000 GALS BRINE AND 36,000 GALS 40# GEL

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
04/07/2004	04/14/2004	24	→	66.0	60.0	451.0			ELECTRIC PUMPING UNIT
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas:Oil Ratio**	**Well Status**	
		32.0	→	66	60	451		POW	

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)

ELECTRONIC SUBMISSION #30705 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
MAY 25 2004
PETROLEUM ENGINEER

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.)*
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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
DELAWARE	4487	4491		YATES	2248
				SEVEN RIVERS	2671
				QUEEN	3288
				GRAYBURG	4128

32. Additional remarks (include plugging procedure):
03/31/2004 Perforated from 4487-4491' 10 holes.
04/01/2004 Acidized w/1000 gals 15% NEFE.
04/03/2004 Frac w/44,200# 14/30 & 16/30 sand, 54,000 gals brine water and 36,000 gals 40# gel.
04/06/2004 RIH w/149 joint 2 7/8" tubing SN @ 4516', RIH w/2 1/2 x 2 x 24' pump.

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):

Electronic Submission #30705 Verified by the BLM Well Information System.
For MACK ENERGY CORPORATION, sent to the Hobbs
Committed to AFMSS for processing by ARMANDO LOPEZ on 05/25/2004 (04AL0096SE)

Name *(please print)* JERRY SHERRELL Title PRODUCTION CLERK

Signature (Electronic Submission) Date 05/25/2004

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 fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****