

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

SUBMIT IN DUPLICATE\*  
(See other in-  
struction on  
reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

**OCD-ARTESIA**

5. LEASE DESIGNATION AND SERIAL NO.  
**NMNM-118706**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

**Mack Energy Corporation**

8. FARM OR LEASE NAME, WELL NO.  
**Black Cat Federal #4**

3. ADDRESS AND TELEPHONE NO.

**P.O. Box 960, Artesia, NM 88211-0960 (575) 748-1288**

9. API WELL NO.

**30-015-36039**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

**2310 FSL & 2310 FWL**

10. FIELD AND POOL, OR WILDCAT

**Empire; Yeso**

At top prod. interval reported below

**DEC - 2 2008**

At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

**Sec. 14 T17S R28E**

14. PERMIT NO.

**OCD-ARTESIA**

12. COUNTY OR PARISH  
**Eddy**

13. STATE  
**NM**

15. DATE SPUDDED  
**8/2/2008**

16. DATE T.D. REACHED  
**8/12/2008**

17. DATE COMPL. (Ready to prod.)  
**10/10/2008**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)  
**3632.5' RKB**

19. ELEV. CASING HEAD  
**3615'**

20. TOTAL DEPTH, MD & TVD  
**5,193'**

21. PLUG, BACK T.D., MD & TVD  
**4,740'**

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS  
**Yes**

CABLE TOOLS

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

**3,633-4,682' Empire; Yeso**

25. WAS DIRECTIONAL SURVEY MADE

**Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray**

27. WAS WELL CORED  
**No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
<b>8 5/8, J-55</b>	<b>24</b>	<b>335'</b>	<b>12 1/4</b>	<b>250sx</b>	<b>None</b>
<b>5 1/2, J-55</b>	<b>17</b>	<b>5,166'</b>	<b>7 7/8</b>	<b>898sx</b>	<b>None</b>

29. LINER RECORD

30. TUBING RECORD

SIZE	T O P (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					<b>2 7/8</b>	<b>4,689'</b>	

31. PERFORATION RECORD (Interval, size and number)

**3,663-3,948', .41, 74  
4,061-4,243', .41, 50  
4,352.5-4,682' .41, 58  
CIBP @ 4,775' w/ 35' cmt cap  
4,869.5-5,017', .41, 48**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<b>3,663-5,017'</b>	<b>See C-103 for details</b>

33.

PRODUCTION

DATE FIRST PRODUCTION  
**10/18/2008**

PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)  
**2 1/2 x 2 x 16' pump**

WELL STATUS (Producing or shut-in)  
**Producing**

DATE OF TEST  
**10/27/2008**

HOURS TESTED  
**24 hours**

CHOKE SIZE

PROD'N FOR TEST PERIOD

OIL-BBL.  
**59**

GAS-MCF.  
**80**

WATER-BBL.  
**190**

GAS- OIL RATIO  
**1356**

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED 24-HOUR RATE

OIL-BBL.  
**59**

GAS-MCF.  
**80**

WATER-BBL.  
**190**

OIL GRAVITY - API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

**Sold**

35. LIST OF ATTACHMENTS

**Deviation Survey & Logs**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*Jerry W. Sherrill*

TITLE

**Production Clerk**

**BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE**

\*(See Instructions and spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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.

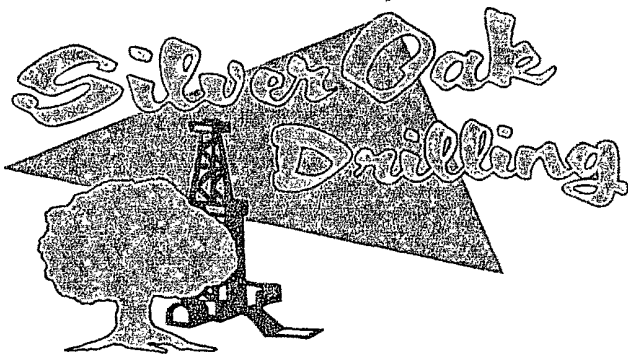
**Accepted for record - NMOCD**

37. SUMMARY OF POROUS ZONES- (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):

38.

## GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Empire; Yeso	3,633'	4,682'		Yates	589	
				Seven Rivers	846	
				Queen	1,396	
				Grayburg	1,826	
				San Andres	2,164	
				Glorietta	3,524	
				Tubb	4,990	



PO Box 1370  
Artesia, NM 88211-1370  
(505) 748-1288

August 21, 2008

Mack Energy Corporation  
PO Box 960  
Artesia, NM 88211-0960

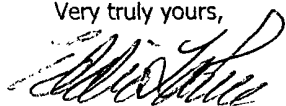
RE: Black Cat Federal #4  
2310' FSL & 2310' FWL  
Sec. 14, T17S, R28E  
Eddy County, New Mexico

Dear Sir,

The following is the Deviation Survey for the above captioned well.

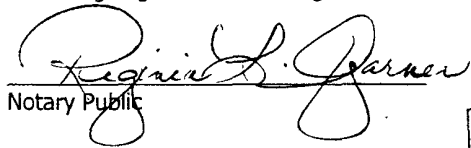
DEPTH	DEVIATION	DEPTH	DEVIATION
175.00	1.00	2749.00	0.60
319.00	0.75	3096.00	0.30
362.00	0.40	3346.0	0.10
604.00	0.50	3668.00	0.60
783.00	0.50	3985.00	0.90
1029.00	0.40	4081.00	0.90
1285.00	0.10	4176.00	0.30
1448.00	0.20	4363.00	0.60
1666.00	0.20	4589.00	0.70
1890.00	0.50	4779.00	0.70
2051.00	0.30	4965.00	0.70
2269.00	0.10	5179.00	1.10
2520.00	0.20		

Very truly yours,

  
Eddie C. LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 21<sup>st</sup> day of August, 2008.

  
Notary Public

