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Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

EC

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM105885

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. NMNM124555

2. Name of Operator CHESAPEAKE OPERATING INC — Contact: LINDA GOOD — E-Mail: linda.good@chk.com

8. Lease Name and Well No. PERSEUS 10 FEDERAL COM 3H

3. Address OKLAHOMA CITY, OK 73154-0496

3a. Phone No. (include area code) Ph: 405-935-4275

9. API Well No. 30-005-29137-00-S1

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

At surface SENE 1980FNL 200FEL

At top prod interval reported below SWNW 1981FNL 355FWL

At total depth SWNW ~~1980FNL 330FWL~~ 2023/N & 493D/E

10. Field and Pool, or Exploratory WILDCAT ABO
~~UNDESIGNATED~~-WOLFCAMP

11. Sec., T., R., M., or Block and Survey or Area Sec 10 T15S R31E Mer NMP

12. County or Parish CHAVES

13. State NM

14. Date Spudded 06/17/2010

15. Date T.D. Reached 07/16/2010

16. Date Completed ☐ D & A ☒ Ready to Prod. 10/04/2010

17. Elevations (DF, KB, RT, GL)* 4414 GL

18. Total Depth: MD 13360 TVD 8743

19. Plug Back T.D.: MD TVD

20. Depth Bridge Plug Set: MD TVD

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

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	436		534	167	0	
12.250	9.625 J-55	40.0	0	3972		2275	670	0	
7.875	5.500 P-110	17.0	0	13360		1930	614		

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	5112							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WOLFCAMP	9240	13322	9240 TO 13322		732	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
9240 TO 13322	FRAC W/1,895,093# SAND & 2,509,122 GAL 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
10/06/2010	10/17/2010	24	→	99.0	69.0	363.0			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**	
			→	99	69	363		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 #95475 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

ACCEPTED FOR RECORD
David R. Glass
OCT 27 2010
DAVID R. GLASS
PETROLEUM ENGINEER

ACCEPTED
~~APPROVED~~ FOR 6 MONTH PERIOD
ENDING APR 04 2011

MAY 23 2011

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
QUATERNARY	0	200		RUSTLER	1430
WOLFCAMP	9240	13322		YATES	2450
				SEVEN RIVERS	2700
				QUEEN	3275
				GRAYBURG	3677
				SAN ANDRES	4025
				GLORIETA	5508
				TUBB	6796
				ABO	7530
				WOLFCAMP	8778

32. Additional remarks (include plugging procedure):
ADDITIONAL FORMATION MARKERS:
ABO 7530
WOLFCAMP 8778

LOGS BEING SUBMITTED VIA UPS OVERNIGHT MAIL.
CBL BEING SUBMITTED BY EMAIL.

(CHK PN 618836)

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 #95475 Verified by the BLM Well Information System.
For CHESAPEAKE OPERATING INC, sent to the Roswell
Committed to AFMSS for processing by DAVID GLASS on 10/21/2010 (11DG0010SE)

Name *(please print)* LINDA GOOD Title SR. REGULATORY COMPLIANCE SPEC

Signature (Electronic Submission) Date 10/21/2010

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 ****

Additional data for transaction #95475 that would not fit on the form

32. Additional remarks, continued