

NM OIL CONSERVATION DISTRICT
NMOCED
 JUN 20 2016
 Artesia

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMNM14124**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. **MARQUARDT FEDERAL 16H**

9. API Well No. **30-015-42487-00-S1**

10. Field and Pool, or Exploratory **COTTONWOOD DRAW-BONE SPRING**

11. Sec., T., R., M., or Block and Survey or Area **Sec 12 T25S R26E Mer NMP**

12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **10/16/2015** 15. Date T.D. Reached **10/28/2015** 16. Date Completed D & A Ready to Prod. **02/11/2016** 17. Elevations (DF, KB, RT, GL)* **3310 GL**

18. Total Depth: MD **12054** TVD **7162** 19. Plug Back T.D.: MD **12043** TVD **7162** 20. Depth Bridge Plug Set: MD **12043** TVD **7162**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **N A** 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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	48.0	0	412		505	120	0	
12.250	9.625 J-55	36.0	0	1940		710	213	0	
8.500	5.500 L-80	17.0	0	12054		2140	685	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)
2.375	6161	6161						

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7409	12015	7409 TO 12015	0.460	600	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7409 TO 12015	FRAC WITH 5,426,785 GAL FRAC FLUID & 8,552,100 # SAND.

Accepted for record - NMOCED

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
02/11/2016	02/16/2011	24	→	140.0	1017.0	1366.0	37.0		GAS LIFT
Choke Size	Tbg. Press. Flwg. 700 SI	Csg. Press. 200.0	24 Hr. Rate →	Oil BBL 140	Gas MCF 197	Water BBL 1366	Gas:Oil Ratio 1407	Well Status 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 #332960 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
 ** BLM REVISED **
RECLAMATION DUE: AUG 11 2016

DAVID R. GLASS
 PETROLEUM ENGINEER

ACCEPTED FOR RECORD
AS/ DAVID R. GLASS
 JUN 01 2016

AB
 105
 4/22/16

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	Thg. Press Plwg. SI	Case 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 Plwg. SI	Case 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
RUSTLER	0	1160		TOP SALT	1160
BELL CANYON	2000	2940	WATER	BASE OF SALT	1740
CHERRY CANYON	2940	4080	WATER	BELL CANYON	2000
BRUSHY CANYON	4080	5430	WATER OIL AND GAS	CHERRY CANYON	2940
BONE SPRING	5430	8160	WATER OIL AND GAS	BRUSHY CANYON	4080
				BONE SPRING	5430

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):

Electronic Submission #332960 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 05/20/2016 (16JAS1564SE)

Name (please print) ARICKA EASTERLING

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 03/07/2016

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.

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