Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA
MAR 30 2009

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

CONFIDENTIALITY REQUESTED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NM-14128 4

1a. Type of Well [X] Oil Well [ ] Gas Well [ ] Dry [ ] Other
b. Type of Completion: [X] 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
Cimarex Energy Co. of Colorado

8. Lease Name and Well No.
Marquardt Federal 8

3. Address
5215 N. O'Connor Blvd ste. 1500 Irving Tx 75039

3a. Phone No. *(include area code)*
972-443-6489

9. API Well No.
30-015-36602

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

10 Field and Pool, or Exploratory
~~Black River; Delaware, South~~ 51845

At surface 330 FSL & 660 FWL

11. Sec., T., R., M., on Block and Survey or Area
1-25S-26E

At top prod. interval reported below 348 FSL & 681 FWL

12. County or Parish
Eddy

13. State
NM

At total depth 2305 FSL & 681 FWL

14. Date Spudded	15. Date T D Reached	16. Date Completed	17 Elevations (DF, RKB, RT, GL)*
11.04.08	11.19.08	12.13.08 [ ] D & A [X] Ready to Prod	3305' GL

18. Total Depth:	19. Plug Back TD:	20. Depth Bridge Plug Set:
MD 4,955'	MD 4,955'	MD
Pilot Hole 3400' TVD 3,063'	Pilot Hole 2860' TVD 3,063'	TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHCGR, LLAGR, TDLD

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey [ ] No [X] Yes (Submit copy)

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
12¼"	8⅝" J-55	24	0'	450'		350 sx class C		0'	
7⅞"	5½" P-110	17	0'	2,808'		900 sx POZ/C		0'	
7⅞"	2⅞"	fiberglass	2,808'	3,394'					
4¾"	2⅞" L-80	6.5	2,637'	4,850'		no cement			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2⅞"	2,604'	2,647'	5 1/2" X 2 7/8"					

25. Producing Intervals

	Formation	Top	Bottom
A)	Cherry Canyon	2,964'	3400'
B)			
C)			
D)			

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
no perfs...iso-pack strata-port			

ACCEPTED FOR RECORD
MAR 28 2009
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

Depth Interval	Amount and Type of Material
	please see attachment for 5-stage frac job details

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
12.19.08	12.20.08	24	→	14	12	238	43.38	btu 1.0	Pumping

Choke Size	Tbg Press Flwg. / SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
28/64	340 / SI	50	→	14	12	238	857	Producing

28. 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 page 2)*

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.)*

Flare testing gas, waiting for Hunter gas tie in.

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
				Top Salt	1,202'
				Base Salt	1,735'
				Delaware	1,942'
				Cherry Canyon	2,964'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

[X] Electrical/Mechanical Logs (1 full set req'd.) [ ] Geologic Report [ ] DST Report [X] Directional Survey

[ ] Sundry Notice for plugging and cement verification [ ] Core Analysis [ ] Other: PEAK Systems Drawing, Frac Job, Deviation/well path

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Scott Haynes Title Regulatory Analyst

Signature Scott Haynes Date March 9, 2009

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.

Acid, Fracture, Treatment, Cement Squeeze, etc. Attachment

Marquardt Federal 8

1-25S-26E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 4615'-4850'	Pump 29 bbls 20# linear gel & BD at 2737#, ISIP 940#. Pump 36 bbls of 20# linear gel pad followed by 1 ppg to 3 ppg white sand in SilverStim gel system. Pump down 2 7/8" tbg at 10 BPM at 2075#. Drop 1 1/2" ball. Pump 25 bbls 20# linear gel, seat ball, open port at 4447' with 3384#. Max psi 1770#. 5000# 16/30 white sand pumped.
Stage 2 4282'-4615'	Pump 36 bbls of 20# linear gel pad at 10 BPM followed by 1 ppg to 3 ppg 16/30 white sand in SilverStim gel system, drop 1 3/4" ball. Pump 23 bbls 20# linear gel, seat ball, open port at 4114' with 3901#. Max psi 1910#. 5000# 16/30 white sand pumped.
Stage 3 3915'-4282'	Pump 36 bbls of 20# linear gel pad at 10 BPM followed by 1 ppg to 3 ppg 16/30 white sand in SilverStim gel system drop 2" ball. Pump 22 bbls 20# linear gel, seat ball, open port at 3813' with 3505#. Max psi 2060#. 5000# 16/30 white sand pumped.
Stage 4 3679'-3915	Pump 36 bbls of 20# linear gel pad at 10 BPM followed by 1 ppg to 3 ppg 16/30 white sand in SilverStim gel system drop 2 1/4" ball. Pump 20 bbls 20# linear gel, seat ball, open port at 3511' with 3223#. Max psi 1950#. 5000# 16/30 white sand pumped.
Stage 5 3313'-3679'	Pump 36 bbls of 20# linear gel pad at 10 BPM followed by 1 ppg to 3 ppg 16/30 white sand in SilverStim gel system & well screened out with 2 ppg in formation. Max psi 6860#. Approx 2500# in the formation. 5000# 16/30 white sand pumped.