

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

S

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. NM-097874			
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____ Add Abo Sidetrack _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator Cimarex Energy Co. of Colorado						7. Unit or CA Agreement Name and No			
3. Address PO Box 140907; Irving, TX 75014				3a. Phone No. (include area code) 972-443-6489		8. Lease Name and Well No. Bear Bryant 31 Federal No. 1			
4. Location of Well (Report Location clearly and in accordance with Federal requirements)*  At surface 1850' FSL & 990' FWL  At top prod. interval reported below 1850' FSL & 990' FWL  At total depth 1960' FSL & 597' FEL						9. API Well No 30-015-34906			
MAR 18 2008 OCD-ARTESIA						10. Field and Pool, or Exploratory Pavo Mesa; Abo			
						11. Sec, T., R., M., on Block and Survey or Area 31-16S-29E			
14. Date Spudded 06.16.06		15. Date T.D. Reached 07.13.06		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		12. County or Parish Eddy		13. State NM	
18. Total Depth: MD 10,338' TVD 7,065'		19. Plug Back TD: MD 10,338' TVD 7,065'		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  Logs run on initial completion				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey <input checked="" type="checkbox"/> No <input type="checkbox"/> 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
17½"	13½" H-40	48#	0	207'		425 sx RFC/CI C		0' circ	Previously set
12½"	9½" J-55	40#	0	3,100'		968 sx POZC/CI C		0' circ	Previously set
8½"	5½" P-110	17#	0	10,445'	7,378'	1150 sx PBL/POZH		0' TS	Previously set
6½"	4½" N-80	11.6#	6545'	10,338'		310 sx Super H		0' circ	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-3/8"	6,524'								
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Abo		6,040'	7,134'	9797'-10073' (MD)		0.42	54	Producing	
B)				9067'-9590' (MD)		0.42	72	Producing	
C)				8510'-8863' (MD)		0.42	72	Producing	
D)				7817'-8343' (MD)		0.42	72	Producing	
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
9797'-10073'		4959 gal 15% NeFe Acid, 31990 gal SpectraFrac 2500 Gel w/ 5774# 20/40 & 30/50 White Sand, 2% KCl flush.							
9067'-9590'		5023 gal 15% NeFe Acid, 97960 gal SpectraFrac 2500 Gel w/ 187520# 20/40 & 30/50 White Sand, 2% KCl flush.							
8510'-8863'		4356 gal 15% NeFe Acid, 70143 gal Slick Water, 20206 gal 15% Deep Spot Acid, 71175 gal SpectraFrac 2500 Gel w/ 95700# 20/40 & 30/50 White Sand, 2% KCl flush.							
7817'-8343'		5025 gal 15% NeFe Acid, 67609 gal Slick Water, 25174 gal 15% Deep Spot Acid, 46976 gal SpectraFrac 2500 Gel w/ 15423# 20/40 White Sand, 2% KCl flush.							
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 (BTU)	Production Method
11.11.07	11.30.07	24	→	62	52	99	42.3	1.476	Pumping
Choke Size	Tbg Press. Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	ACCEPTED FOR RECORD  FEB 29 2008  JERRY FANT PETROLEUM GEOLOGIST
open	SI 110	200	→				839	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	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
SI			→						

\* (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.)

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
				Yates	813'
				7 Rivers	1,000'
				Queen	1,405'
				San Andres	2,478'
				Glorieta	4,138'
				Tubb	5,130'
				Abo	6,040'
				Wolfcamp	7,135'
				Strawn	9,686'
				Atoka	9,900'
				Morrow	10,235'
				Mississippian	10,370'

32. Additional remarks (include plugging procedure)

2½" x 2" x 24' RHBC BNC Rod pump installed on 11-08-07.

See attached WBD.

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

- ☐ Electrical/Mechanical Logs (1 full set req'd)    ☐ Geologic Report    ☐ DST Report    ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification    ☐ Core Analysis    ☐ Other:

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) Natalie Krueger Title Regulatory AnalystSignature: Natalie Krueger Date March 3, 2008

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.

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34906	Pool Code 97575	Pool Name Pavo Mesa; Abo
Property Code	Property Name BEAR BRYANT "31" FEDERAL	Well Number 1
OGRID No. 162683	Operator Name Cimarex Energy Co. of Colorado	Elevation 3694'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	31	16 S	29 E		1850	SOUTH	990	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	31	16 S	29E		1960	SOUTH	597	EAST	EDDY

Dedicated Acres 120	Joint or Infill	Consolidation Code	Order No. NSL-5584
------------------------	-----------------	--------------------	-----------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 1 25.63 AC.				<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Zeno Farris</u> Signature</p> <p><u>Zeno Farris</u> Printed Name</p> <p><u>Mgr Operations Admin</u> Title</p> <p><u>03-03-08</u> Date</p>
LOT 2 25.60 AC.				
LOT 3 25.58 AC.	<p>3687.7' 3692.7'</p> <p>990' SHL</p> <p>3692.4' 3688.9'</p>	<p>NM-97874</p> <p>3230'</p> <p>Lot - N32°52'33.6" Long - W104°07'05.0"</p>	<p>BHL 597'</p>	
LOT 4 25.55 AC.	<p>1850'</p> <p>855'</p>		<p>1960'</p>	
				<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><u>GARY L. JONES</u> Date Surveyed</p> <p><u>GARY L. JONES</u> Signature &amp; Seal of Professional Surveyor</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

Cimarex Energy Company

03-03-08 nek

		Casing			
Lease :	Bear Bryant 31 Fed #1	Size	Weight	Grade	Depth
Field :		13 <sup>3</sup> / <sub>8</sub> "	48	H40	205
KB :	GL:	9 <sup>5</sup> / <sub>8</sub> "	40	K55	3,096
Legals :	Sec 31, 16S-29E	7"	26	P110	10,421
SHL Lat:	32° 52' 33.6" N	4 <sup>1</sup> / <sub>2</sub> "	11.6	N80	6,536-10,338
Long:	104° 7' 5.0" W	Tubing			
BHL Lat:	32° 52' 34.803" N	Size	Weight	Grade	Depth
Long:	104° 6' 24.3" W	2 <sup>7</sup> / <sub>8</sub> "	6.5	L80	6,524
Drawing Not To Scale					

Tubing Detail

Cmt w/ 100 Sx lead & 325 sx tail  
cmt to surface

13<sup>3</sup>/<sub>8</sub>" 48# H40 STC @ 205'

Cmt w/ 768 Sx lead & 200 sx tail  
cement to surface

9<sup>5</sup>/<sub>8</sub>" 40# K55 LT&C set @ 3096'

Horizontal

Stage 1 perfs 10070-73;' 9907-10;' 9797-9800'

Stage 2 perfs 9587-90;' 9357-60;' 9207-10;' 9067-70'

Stage 3 perfs 8860-63;' 8817-20;' 8600'-03;' 8510-13'

Stage 4 perfs 8340-43;' 8190-93;' 8030-33;' 7817-20'

Window 6850-6864'

Vertical Lwr ABO perfs  
7030-34;' 7038-68;' 7090-96'

89 deg @ 77126' MD 7029' TVD  
Cmt 4<sup>1</sup>/<sub>2</sub>" liner w/ 310 sxs; reverse out 43 bbls  
Wolfcamp 6-1/8" hole 10338' MD 7060' TVD  
MJ @ 9334;' 8328;' 7370'

1st Wolfcamp  
8,210' - 8,220'

35' of Cement - PBTD @ 8,140'  
7" 26# P110 LTC set @ 10421' MD  
PBTD @ 10338

8<sup>3</sup>/<sub>4</sub>" original hole TD @ 10445'