

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD-ARTESIA
MAR 30 2009FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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. SHL: NM-89878 BHL: NM-97874	
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Cimarex Energy Co. of Colorado		7. Unit or CA Agreement Name and No. Pending	
3. Address 5215 N. O'Connor Blvd. ste 1500 Irving, Tx 75039		8. Lease Name and Well No. Toad 31 Federal 1	
3a. Phone No. (include area code) 972-401-3111		9. API Well No. 30-015-36715	
4. Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 1650' FNL & 330' FEL At top prod. interval reported below 1659' FNL & 331' FEL At total depth 1712' FNL & 391' FWL		10. Field and Pool, or Exploratory Empire; Glorieta-Yeso Wildcat	
14. Date Spudded 10.20.08		15. Date T.D. Reached 11.17.08	
16. Date Completed <input checked="" type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod		17. Elevations (DF, RKB, RT, GL)* 3660' GR	
18. Total Depth: MD 7958' Pilot hole 4280' TVD 3888'		19. Plug Back TD: MD 7958' pilot hole 3732' TVD 3888'	
20. Depth Bridge Plug Set: CIBP @ 3732'		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL,DLL,MLL,GR, ZDL,CNL,	
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 type="checkbox"/> No <input checked="" 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
14 3/4"	11 3/4" H-40 stc	42#	0'	323'		300 sx class C		0' Circ	
11"	8 3/4" J-55 stc	24#	0'	1352'		410 sx class C		0' circ	
7 7/8"	5 1/2" J-55 LTC	40#	0'	4280'		810 sx poz/C		0' circ	
4 3/4"	2 7/8" L-80	6.5#	3576'	7555'		PEAK, no cement			

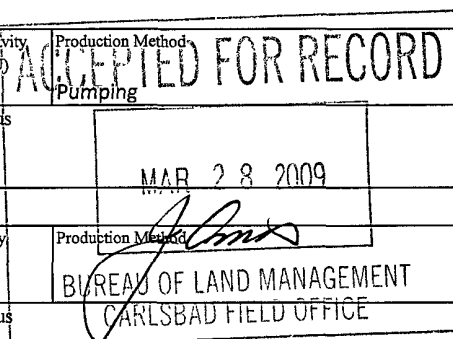
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 7/8"	3530'	3,368'	AS-1 5 1/2" X 2 7/8"						

25. Producing Intervals				26. Perforation Record			
Formation	Top	Bottom		Perforated Interval	Size	No. Holes	Perf. Status
A) Paddock	3795'	4620'		Peak Liner assembly			
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, etc.		Amount and Type of Material	
Depth Interval			
	Please see attachment.		

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
01.12.09	01.13.08	24	→	6	0	570	40	0	Pumping
Choke Size	Tbg. Press. Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
open	SI 260	6	→	6	0	570	0	Shut In	
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.*)

Shut In, well uneconomical to produce

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
				Queen	2,142'
				Grayburg	2,620'
				San Andres	2,872'
				Glorietta	3,742'
				Paddock	3,795'

32. Additional remarks (include plugging procedure):

well produced 372 BO, 9656 BW, and 0 MCF in January during testing and was stored in frac tanks until sold. Well was deemed uneconomical and Shut in.

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 C-102, Inclination report, Peak assembly diagram.

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 23, 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

Toad 31 Federal 1

31-16S-29E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 6526' 7550'	Start acid. Pump 33 bbl 15% HCL at 5.8 bpm. Pump 357 bbl x-linked lightning 2000 gelled pad. Pump 48 bbl Lightning 2000 carrying 400 lbs white sand concentrated at .2 ppg. Pump 357 bbl x-linked Lightning 2000 gelled pad. Start sand stages. Pump 1950 bbl Lightning 2000 carrying 114,600# white sand ramped from .3 ppg to 3 ppg. Pump 159 bbl Lightning 2000 carrying 20001# resin coated sand at 3 ppg. Flush with 100 bbl linear gel. Drop 1.75" ball.
Stage 2 5800'-6526'	Start acid. Pump 33 bbl 15% HCL at 5.3 bpm. Ball seated and port opened at 6138 psi. Start x-linked Lightning 2000 pad. Could only achieve 7.8 bpm at 5032 psi. Cut x-linker. Displace hole volume with linear gel only. Max rate was 8.6 bpm. Cut gel and pump slickwater only. Max rate achieved was 9.8 bpm. Consult with engineering. Drop 2" ball. Average rate was 8 bpm at 5100 psi.
Stage 3 5237'-5800'	Start acid. Pump 33 bbl 15% HCL. Ball seated and port opened at 5417 psi. Start x-linked Lightning 2000 pad. Could only achieve 14 bpm at 5500 psi. Cut x-linker. Displace hole volume with linear gel only. Max rate was 14 bpm. Cut gel and pump slickwater only. Max rate was 16 bpm. Consult with engineering. Pump x-linked Lightning 2000 gel and pressure started increasing. Cut x-linker and drop 2.25" ball. Average pressure was 14 bpm at 4950 psi.
Stage 4 4511'-5237'	Start acid. Pump 44 bbl 15% HCL at 8 bpm. Ball seated and port opened at 6398 psi. Start X-linked Lightning 2000 pad. Pump 357 bbl. Pump 52 bbl Lightning 2000 carrying 400 lbs white sand at .2 ppg. Pump 357 bbl Lightning 2000 pad. Pump 2065 bbl Lightning 2000 carrying 118,477 lbs white sand ramped from .3 ppg to 3 ppg. Pump 183 bbl Lightning 2000 carrying 18,384 lbs resin coated sand at 3 ppg. Flush with 88 bbl linear gel. Average rate was 31 bpm at 5022 psi. Maximum rate achieved was 40.1 bpm.

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

DISTRICT II
1391 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36715	Pool Code 96210	Pool Name Empire; Glorieta-Yeso-Wildcat
Property Code 37430	Property Name TOAD "31" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3660'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	31	16 S	29 E		1650	NORTH	330	EAST	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
E	31	16 S	29 E		1712	NORTH	391	WEST	EDDY

Dedicated Acres 145.6	Joint or Infill	Consolidation Code P	Order No.
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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

<p>1712'</p> <p>391'</p> <p>4090'</p> <p>NM-97874</p> <p>SHL 1712 FNL & 391 FWL</p>		<p><u>SURFACE LOCATION</u> Lat - N32°52'51.16" Long - W104°06'24.06" NMSPEC - N 648272.0 E 610916.6 (NAD-83)</p> <p>1650'</p> <p>3658.0'</p> <p>3651.2'</p> <p>330'</p> <p>3656.9'</p> <p>3650.9'</p> <p>NM-89878</p> <p>SHL 1650 FNL & 330 FEL</p> <p>P.P. Glorieta 1653 FNL & 311 FEL P.P. Padock 1659 FNL & 331 FEL</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Scott Haynes</i> 03-23-09 Signature Date</p> <p>Scott Haynes Printed Name</p> <p>SURVEYOR CERTIFICATION</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>AUGUST 11 2008 Date Surveyed</p> <p>Gary L. Jones Signature Professional Surveyor</p> <p>7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>
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