

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD - Artesia

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No. NMNM025559

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. IRWIN 13 FEDERAL 2

9. API Well No. 30-015-38099-00-S1

10. Field and Pool, or Exploratory HACKBERRY, B5, NW

11. Sec, T., R., M., or Block and Survey or Area Sec 13 T19S R30E Mer NMP

12. County or Parish EDDY 13 State NM

14. Date Spudded 03/16/2011 15. Date T.D. Reached 04/27/2011 16. Date Completed  D & A  Ready to Prod. 05/30/2011 17. Elevations (DF, KB, RT, GL)\* 3428 GL

18. Total Depth: MD 13480 TVD 8664 19. Plug Back T.D.: MD 13430 TVD 8665 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NOLOGSRUN 22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

**RECEIVED**  
 JUL 15 2011  
 ALMOCD ARTESIA

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 HCK-55	48.0	0	500		972		0	
12.250	9.625 J-55	40.0	0	3997	2209	1690		0	
8.750	5.500 P-110	17.0	0	13480		1890		3016	

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		8354						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8850	13430	9813 TO 10538	0.420	40	OPEN, SEE LAST STAGE IN BO
B)			10777 TO 11502	0.420	40	OPEN
C)			11741 TO 12466	0.420	40	OPEN
D)			12705 TO 13430	0.420	40	OPEN

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

Depth Interval	Amount and Type of Material
9813 TO 10538	184,892 GAL 20# BORATE XL, & 248,581# 20/40 SLC, SEE LAST STAGE IN BOX 53
10777 TO 11502	184,211 GAL 20# BORATE XL, & 260,695# 20/40 SLC
11741 TO 12466	183,244 GAL 20# BORATE XL, & 255,717# 20/40 SLC
12705 TO 13430	198,525 GAL 20# BORATE XL, & 232,972# 20/40 SLC

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
06/06/2011	06/16/2011	24	→	376 0	806 0	957.0	40.2	1.29	PRODUCTION METHOD: ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
OPEN	SI 390	125 0	→	376	806	957	2142	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	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 reverse side)  
 ELECTRONIC SUBMISSION #111863 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
 \*\* BLM REVISED \*\*

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

32. Additional remarks (include plugging procedure):

Last Perf Interval: 8850-9574 0.42, 40 holes, open. Frac'd with 178964 gal 20# Borate XL & 250244# 20/40 SLC.

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 #111863 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 06/29/2011 (11KMS1977SE)**

Name (please print) NATALIE E KRUEGER Title REGULATORY

Signature \_\_\_\_\_ (Electronic Submission) Date 06/29/2011

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.