

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other						5. Lease Serial No. NM-104674			
b. Type of Completion. ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ 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 PO Box 140907; Irving, TX 75014						8. Lease Name and Well No Crow Flats 7 Federal Com No. 4			
3a. Phone No. (include area code) 972-443-6489						9. API Well No. 30-015-35479			
4. Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 1980' FSL & 660' FEL At top prod. interval reported below 1980' FSL & 660' FEL At total depth 1980' FSL & 660' FEL						10. Field and Pool, or Exploratory Diamond Mound; Morrow			
OCT 09 2007 OCD-ARTESIA						11. Sec., T., R., M., on Block and Survey or Area 7-16S-28E			
						12. County or Parish Eddy		13. State NM	
14. Date Spudded 03.20.07		15. Date T.D. Reached 04.18.07		16. Date Completed 06.01.07 ☐ D & A ☒ Ready to Prod		17. Elevations (DF, RKB, RT, GL)* 3,670' GR			
18. Total Depth: MD 9,410' TVD		19. Plug Back TD: MD 9,325' TVD		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Neutron Log, Laterolog						22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey ☒ No ☐ 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
17-1/2"	13-3/8" H-40	48	0	434'	NA	430 sx Prem Plus		0	
11"	8-5/8" J-55	24	0	1,819'	NA	820 sx IntC/PremP		0	
7-7/8"	4-1/2" P-110	11.6	0	9,407'	NA	450 sx PBSH		1600'	
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"	9054'								
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf Status	
A) Diamond Mound, Morrow		9,050'	9,249'	9,102'-9,176'		0.32	204	Producing	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
9,102'-9,176'		92000 gal 65Q 35# Water Frac CMHPG carrying 143500# Versaprop							
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
06.01.07	06.27.07	24	→	12	2187	0	57.4	1.001	Flowing
Choke Size	Tbg Press Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
21/64	SI 1467	900	→				182,250	Flowing	
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
				San Andres	1,755'
				Abo	5,295'
				Wolfcamp	6,485'
				Atoka	8,860'
				Morrow	9,050'
				Mississippian	9,250'

32. Additional remarks (include plugging procedure).

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 Reg Analyst 1
 Signature Natalie Krueger Date October 8, 2007

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

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm 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 30-015-35479	Pool Code 76079	Pool Name Diamond Mound; Morrow (Gas)
Property Code	Property Name CROW FLATS "7" FEDERAL COM	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3670'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	7	16 S	28 E		1980	SOUTH	660	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

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

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		NM-30395	
LOT 2		Lat - N32°56'08.3" Long - W104°12'30.3" NMSPCE - N 704137.000 E 579664.477 (NAD-83)	NM-104674 3663.6' - 3667.9' 3676.6' - 3686.9' 660' 1980'
LOT 3		Crow Flats 7 Fed Com #4	
LOT 4			

OPERATOR CERTIFICATION

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.

Natalie Krueger 10-08-07
Signature Date

Natalie Krueger
Printed Name

SURVEYOR CERTIFICATION

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.

JANUARY 30, 2007

Date Surveyed

Signature SAUL L. JONES
Professional Seal or Stamp

No. 7977

Certificate No. SAUL L. JONES 7977

BASIN SURVEYS



CACTUS DRILLING COMPANY, L.L.C.
REPORT OF PROOF OF APPARENT DEVIATION
NEW MEXICO

OPERATOR GRUY PETROLEUM MANAGEMENT CO.
600 EAST LAS COLINAS BLVD. STE 1100
IRVING, TX 75039

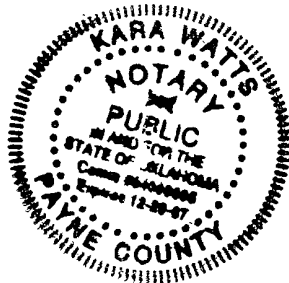
FIELD NAME _____

COUNTY/PARISH EDDY _____

WELL NAME & NO. CROW FLATS 7 FEDERAL #4 _____

LEGAL SEC 7-16S-28E _____

MEASURED DEPTH (FT)	COURSE LENGTH (HUNDREDS OF FT)	ANGLE OF INCLINATION (DEGREES)	DISPLACEMENT PER HUNDRED FT (SINE OF ANGLE X 100)	COURSE DISPLACEMENT (FEET)	ACCUMULATIVE DISPLACEMENT (FEET)	REMARKS
1300	13.00	1/3	0.5585	7.26	7.26	
1819	5.19	1/7	0.2618	1.36	8.62	
2120	3.01	1/2	0.8727	2.63	11.25	
2415	2.95	1	1.7452	5.15	16.39	
2755	3.40	1	1.7452	5.93	22.33	
3015	2.60	1	1.7452	4.54	26.87	
3377	3.62	1/2	0.8727	3.16	30.02	
3680	3.03	1	1.7452	5.29	35.31	
3971	2.91	1	1.7452	5.08	40.39	
4271	3.00	1	1.7452	5.24	45.63	
4580	3.09	1	1.7452	5.39	51.02	
4876	2.96	1	1.7452	5.17	56.19	
5183	3.07	1 1/2	2.6177	8.04	64.22	
5541	3.58	1	1.7452	6.25	70.47	
5965	4.24	1/2	0.8727	3.70	74.17	
6233	2.68	2	3.4899	9.35	83.52	
6300	0.67	1 1/2	2.6177	1.75	85.28	
6820	5.20	1/2	0.8727	4.54	89.82	
7150	3.30	4/9	0.7854	2.59	92.41	
7475	3.25	1/2	0.8727	2.84	95.24	
7761	2.86	1 1/2	2.6177	7.49	102.73	
7952	1.91	2	3.4899	6.67	109.40	
8131	1.79	2	3.4899	6.25	115.64	
8249	1.18	3	5.2336	6.18	121.82	
8376	1.27	2 1/2	4.3096	5.47	127.29	



Kara Watts
5-11-07
Comm. # 04000000

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