

WELL LOGS

K Z

API number:	30-025-38240	
OGRID:		Operator: CIMAREX ENERGY COMPANY OF CO
		Property: MADURO UNIT # 8

surface	ULSTR:	L	28	T	19S	R	33E
			1740	FSL	660	FWL	

BH Loc	ULSTR:	L	28	T	19S	R	33E
			1740	FSL	660	FWL	

Ground Level:	3583	DF:	3607	KB:	3608	
Datum:	KB			TD:	13845	

Land:	FEDERAL	Completion Date: (1)	4/4/2007	
		Date Logs Received:	7/17/2007	*** LATE ***
		Date Logs Due in: (2)	4/24/2007	

Confidential:	NO			Date out:		
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Confidential period: 90 Days for State & Fee, 1 Year for federal

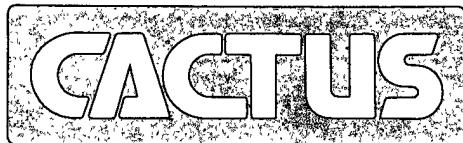
Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
DSN/SDL	200	13748	Spectral Density Dual Spaced Neutron
DLL/MGRD	5021	13797	Dual Laterolog Micro Guard Log

K Z

OCD TOPS

Rustler	1245	Strawn	12078	
Tansill		Atoka	12329	
Yates		Morrow	12916	
7R		Barnett	13608	
T. Bowers Sd		Austin		
B. Bowers Sd		Chester		
Queen		Miss Lime		
Penrose				
Grayburg				
San Andres				
Delaware Sd	4107			
Bone Spring	7984			
1st Sd	9146			
2nd Carb	9408			
2nd Sd	9676			
3rd Carb	10250			
3rd Sd	10634			
Wolfcamp	10810			



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

30-025-38240

OPERATOR CIMAREX ENERGY CO OF COLORADO
600 EAST LAS COLINAS BLVD STE 1100
IRVING, TX 75039

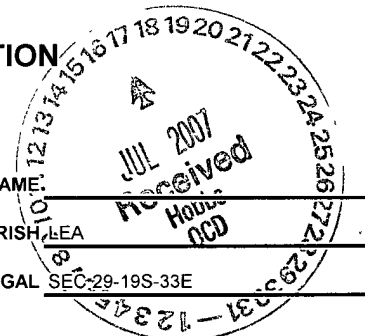
FIELD NAME:

COUNTY/PARISH: LEA

LEGAL SEC-29-19S-33E

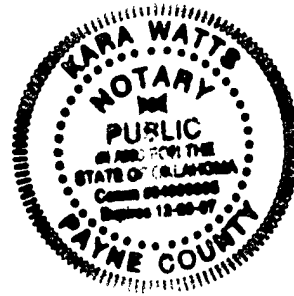
WELL NAME & NO. MADURO UNIT #8

Unit 2
1740/S & 660/W



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
600	6 00	3/8	0 6458	3 87	3 87	
1001	4 01	1 1/5	2 0768	8 33	12 20	
1624	6 23	1/2	0 8727	5 44	17 64	
1985	3 61	1/2	0 8727	3 15	20 79	
2260	2 75	1/2	0 8727	2 40	23 19	
2659	3 99	1/2	0 8727	3 48	26 67	
2934	2 75	1	1 7452	4 80	31 47	
3150	2 16	1/2	0 8727	1 88	33 36	
3373	2 23	1/2	0 8727	1 95	35 30	
3532	1 59	1/2	0 8727	1 39	36 69	
3884	3 52	2/3	1 1693	4 12	40 81	
4256	3 72	1/2	0 8552	3 18	43 99	
4470	2 14	3 5/9	6 1920	13 25	57 24	
4675	2 05	3	5 2336	10 73	67 97	
5259	5 84	1	1 7452	10 19	78 16	
5565	3 06	1 1/2	2 6177	8 01	86 17	
5884	3 19	1 1/2	2 6177	8 35	94 52	
6212	3 28	1 1/2	2 6177	8 59	103 10	
6242	0 30	1 5/7	2 9841	0 90	104 00	
6552	3 10	1 1/2	2 6177	8 11	112 12	
6902	3 50	1	1 7452	6 11	118 22	
7230	3 28	1	1 7452	5 72	123 95	
7548	3 18	1	1 7452	5 55	129 50	
7834	2 86	1	1 7452	4 99	134 49	
8215	3 81	1/2	0 8727	3 32	137 81	
8520	3 05	1/2	0 8727	2 66	140 48	
8840	3 20	1	1 7452	5 58	146 06	
9710	8 70	1	1 7452	15 18	161 24	
10200	4 90	1	1 7452	8 55	169 80	
10520	3 20	1	1 7452	5 58	175 38	
10850	3 30	1	1 7452	5 76	181 14	
11124	2 74	1/2	0 8727	2 39	183 53	
11472	3 48	2 2/7	4 0132	13 97	197 50	
11565	0 93	1/2	0 8727	0 81	198 31	
11690	1 25	2	3 3504	4 19	202 50	
11818	1 28	5/7	1 2566	1 61	204 10	
12042	2 24	1/2	0 8727	1 95	206 06	
12233	1 91	1 1/2	2 6177	5 00	211 06	
12373	1 40	1 1/2	2 6177	3 66	214 72	
12559	1 86	1/2	0 8727	1 62	216 35	
12974	4 15	1/2	0 8727	3 62	219 97	
13325	3 51	1/2	0 8727	3 06	223 03	

Kara Watts
Comm# OK 04000005
Exp 12-29-07



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr
Other

2 Name of Operator
Cimarex Energy Co of Colorado

3 Address
PO Box 140907, Irving, TX 75014

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

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

At surface 1740' FSL & 660' FWL

At top prod interval reported below 1740' FSL & 660' FWL

At total depth 1740' FSL & 660' FWL

14 Date Spudded
01 15 07

15 Date T D Reached
03 10 07

16 Date Completed
04.04.07

☒ Ready to Prod

18 Total Depth MD 13845'
TVD

19 Plug Back TD MD 13487'
TVD

20 Depth Bridge Plug Set MD
TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)

SDN, DLL

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" J-55	54.5		1302'		990 sx PremPlus		0	
12-1/4"	9-5/8" N-80	40		5030'		2790 sx Thru/IntC/PremPlus		0	
8-3/4"	5-1/2" P-110	17		13845'		1950 IntH/SupH		3320'	

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"	13102'	13034'						

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Gem, Morrow (Gas)	12983'	13607'	13158'-13292' TCP Guns	0.33	356	Producing
B)						
C)						
D)						

26 Perforation Record

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material

ACCEPTED FOR RECORD

JUL 19 2007

LES BABYAK
PETROLEUM ENGINEER

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
04 04 07	04.20.07	24	→	13	236	0	49.7 @ 60		Flowing
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
-10/64	SI 3350	470	→				18154	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)

K2

dm

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
				FBSS	9,147
				SBSS	9,677
				TBSC	10,250
				TBSS	10,635
				Wolfcamp	10,836
				Strawn	12,079
				Atoka	12,415
				Morrow	12,983
				Morrow Clastics	13,073
				Lower Morrow	13,462
				Barnett	13,608

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) Natahe Krueger Title Reg Analyst 1Signature Natahe Krueger Date June 12, 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., Aztec, NM 87410

DISTRICT IV

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

State of New Mexico
Energy, Minerals and Natural Resources DepartmentOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-38240	Pool Code 77370	Pool Name Gem; Morrow (Gas)
Property Code	Property Name MADURO UNIT	Well Number 8
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3583'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	28	19 S	33 E		1740	SOUTH	660	WEST	LEA

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 320	Joint or Infill Y	Consolidation Code U	Order No.						

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

	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. <u>Zeno Farris</u> 06-12-07 Signature Date <u>Zeno Farris</u> 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. SEPTEMBER 28, 2006 Date Surveyed <u>GARY L. JONES</u> Signature Professional Surveyor W.O.
	Certificate No. Gary L. Jones 7977 BASIN SURVEYS

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 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 & Natural Resources

Form C-104
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado PO Box 140907 Irving, TX 75014		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW - 04-04-07
⁴ API Number 30 - 025-38240	⁵ Pool Name Gem; Morrow (Gas)	⁶ Pool Code 77370
⁷ Property Code 300531	⁸ Property Name Maduro Unit	⁹ Well Number 008

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
L	28	19S	33E		1740	South	660	West	Lca

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 04-04-07	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
21778	Sunoco Inc (R&M) PO Box 2039 Tulsa, OK 74102		O	Same as above
221115	Frontier Field Services, LLC 4200 East Skelly Drive, Suite 700 Tulsa, OK 74135		G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description Same as above
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V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, MC
01-15-07	04-04-07	13845'	13487'	13158-13292'	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17-1/2"	13-3/8" 54.5# J-55	1302'	990 sx Prem Plus		
12-1/4"	9-5/8" 40# N-80	5030'	2790 sx Thix/IntC/PremPlus		
8-3/4"	5-1/2" 17# P-110	13845'	1950 sx IntH/SupH, TOC 3320'		
	2-3/8" 4.7# L-80	13102'			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
04-04-07	04-04-07	04-20-07	24 hrs	3350	470
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
10/64	13	0	236		Flowing

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Natalie E. Krueger*
Printed name: Natalie E. Krueger

Title: Reg Analyst I

E-mail Address: nkrueger@cimarex.com

Date: June 12, 2007

Phone: 469-420-2723

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title:

Approval Date:

SEP 13 2007