

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No.
NMNM0144698

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator CIMAREX ENERGY COMPANY OF TEXAS Contact: NATALIE E KRUEGER Email: nkrueger@cimarex.com			8. Lease Name and Well No. SUPERIOR FEDERAL 10		
3. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701			9. API Well No. 30-015-38465-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW Lot D 330FNL 560FWL 32.608864 N Lat, 104 035197 W Lon At top prod interval reported below NWNW 330FNL 560FWL At total depth SWSW 341FSL 673FWL			10. Field and Pool, or Exploratory PARKWAY		
14. Date Spudded 03/31/2011			15. Date T.D. Reached 06/02/2011		
16. Date Completed ☐ D & A ☒ Ready to Prod 07/08/2011			17. Elevations (DF, KB, RT, GL)* 3323 GL		
18. Total Depth: MD 13098 TVD 8337			19. Plug Back T.D.: MD 13098 TVD 8337		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) POROSITY&RESIST		
22. Was well cored? ☐ No ☒ Yes (Submit analysis) Was DST run? ☐ No ☒ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	20.000 J-55	94.0	0	329		1000		0	
17.500	13.375 J-55	61.0	0	1590		1270		0	
12.250	9.625 J-55	40.0	0	3454	1420	983		0	
8.750	5.500 P-110	17.0	0	8059					
8.750	4.500 P-110	11.6	8059	8559					
8.750	4.500 P-110	11.6	8559	13098		1500		0	

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	8076							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status
A) BONE SPRING	8476	13041	8476 TO 9201	0.380	40	OPEN
B)			9439 TO 10161	0.380	40	OPEN
C)			10399 TO 11121	0.380	40	OPEN
D)			11359 TO 12081	0.380	40	OPEN

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

Depth Interval	Amount and Type of Material
8476 TO 9201	185,465 GAL 20# LINEAR GEL & 248,868# 20/40 CRC SAND
9439 TO 10161	164,225 GAL 20# LINEAR GEL & 255,356# 20/40 CRC SAND
10399 TO 11121	176,905 GAL 20# LINEAR GEL & 252,956# 20/40 CRC SAND
11359 TO 12081	177,917 GAL 20# BORATE XL & 241,064 20/40 CRC SAND

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
07/08/2011	08/03/2011	24	→	74.0	500.0	171.0	40.7	1.23	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	
48/64	200 SI	100.0	→	74	500	171	6757	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	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #116214 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

OCD - Artesia

RECEIVED
SEP 12 2011
NMNM0144698ACCEPTED FOR RECORD
SEP 4 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
ELECTRIC PUMP SUB-SURFACERECLAMATION
DUE 1-8-12

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	1150	1700	SAND	BASE OF SALT	415
SEVEN RIVERS	1700	3500	SHALE	TOP SALT	415
DELAWARE	3500	5952	SAND	YATES	1150
BONE SPRING	5952		LIMESTONE, SANDSTONE	DELAWARE	3500
				BONE SPRING	5952

32. Additional remarks (include plugging procedure):

Addl Bone Spring Perf Interval:
8476-9201 0.38 40 holes OPEN
Frac with 185,465 gal 20# Linear gel & 248,868# 20/40 CRC Sand

Logs to be sent via mail.

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 #116214 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/29/2011 (11DLM1250SE)

Name (please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 08/26/2011

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #116214 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
12559 TO 13041	0.380	30	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued

Depth Interval	Amount and Type of Material
12559 TO 13041	208,589 GAL 20# BORATE XL & 252,830 20/40 CRC SAND

HOBBS OCD

JAN 30 2012

DISTRICT I
1828 N French Dr., Hobbs, NM 88240DISTRICT II
1301 W. Grand Avenue, Artesia, NM 80210DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised October 15, 2009Submit one copy to appropriate
District Office

RECEIVED

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38465	Pool Code 49622	Pool Name Parkway; Bone Spring
Property Code 300505	Property Name SUPERIOR FEDERAL	Well Number 10
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3323'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	1	20 S	29 E		330	NORTH	560	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
M	1	20 S	29 E		341	SOUTH	673	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	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 or has a right to drill this well at this 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>Natalie Krueger</u> 8/26/2011 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. Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
--	--



REFERENCE INFORMATION

Coordinate (N/E) Reference: Well Superior Fed #10H
Vertical (TVD) Reference: WELL @ 0.0ust (Original Well Elev)
Location (N/E) Reference: Well @ 0.0ust
Measuring Depth Reference: WELL @ 0.0ust (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS Superior Fed #10H

WELL NO.	WELL NAME	WELL TYPE	WELL STATUS	WELL DATE	WELL DEPTH	WELL LENGTH	WELL DIAMETER
01-T20S-R29E	Superior Fed #10H	Oil	Active	1984	104' 2"	104' 2"	10 1/2"

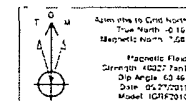
WELLBORE TARGET DETAILS LAT (LONG)

It is target data is available

SECTION DETAILS

NO.	DATE	WELL NO.	WELL NAME	WELL TYPE	WELL STATUS	WELL DATE	WELL DEPTH	WELL LENGTH	WELL DIAMETER
8705.0	12.40	194.32	3326.1	111.2	140.5	0.00	0.00	110.2	10 1/2"
1012.7	05.04	170.5	0121.6	112.3	17.3	0.00	17.3	0.00	10 1/2"
1012.7	05.04	170.5	0121.6	112.3	17.3	0.00	17.3	0.00	10 1/2"

Company: Cimarex Energy Co. (Midland)
Project: Eddy County (NM33E)
Site: Sec 01-T20S-R29E
Well: Superior Fed #10H
Wellbore: Wellbore #3
Design: Design #6
Lat: 32° 36' 31.910 N
Long: 104° 2' 6.711 W
GL: 0.0
KB: WELL @ 0.0ust (Original Well Elev)
Job #: 02835-433-22



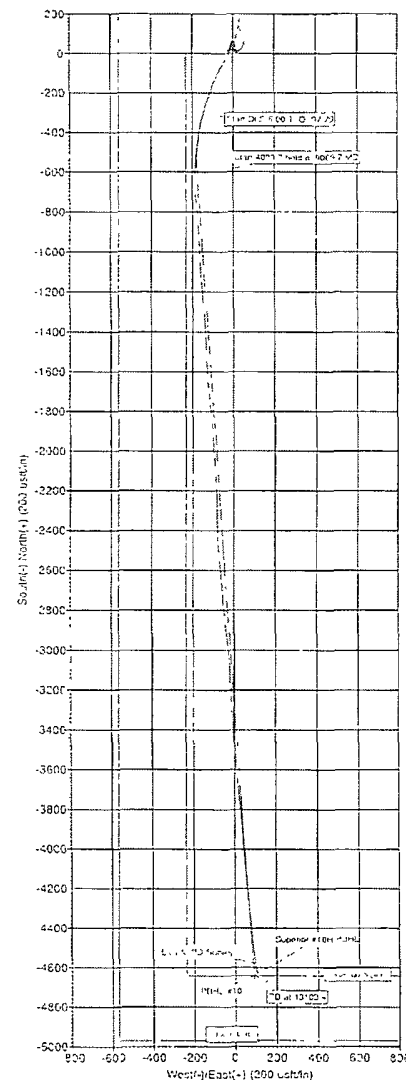
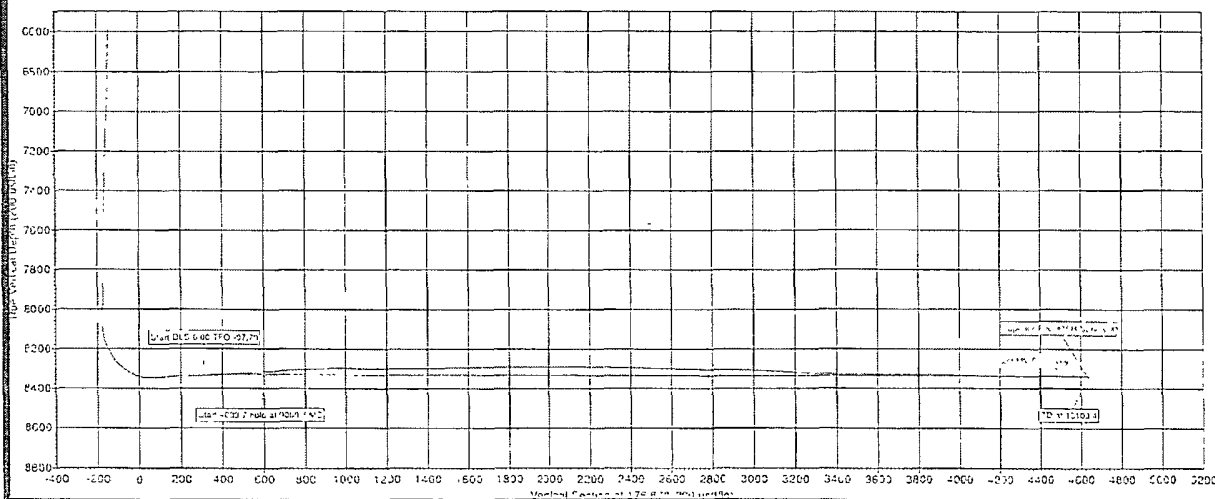
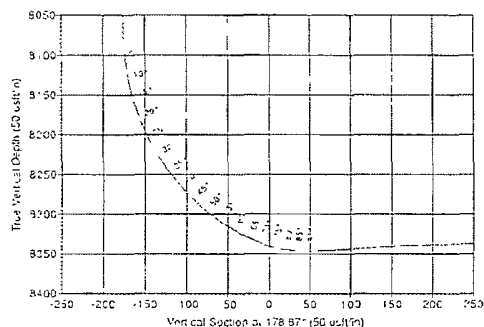
PROJECT DETAILS Safety Controls (MMS)

Control System: US Steel Plant 102
Data: North American Datum 1983
Control: GPS 1983
Data: North American Datum 1983

SITE DETAILS Sec 01-T20S-R29E

Site Center Latitude: 32° 36' 31.910 N
Longitude: 104° 2' 6.711 W
Positional Uncertainty: 0.9
Convergence: 0.6
Scale: 1:100,000

General Wellbore Details
Well Name: Superior Fed #10H
Well Type: Oil
Well Status: Active
Well Date: 1984
Well Depth: 104' 2"
Well Length: 104' 2"
Well Diameter: 10 1/2"
Wellbore #3
Design: Design #6
Lat: 32° 36' 31.910 N
Long: 104° 2' 6.711 W
GL: 0.0
KB: WELL @ 0.0ust (Original Well Elev)
Job #: 02835-433-22



RECEIVED
JAN 30 2012
HOBBS OCB

30-015-38465

HOBBS OCD

JAN 30 2012

RECEIVED

Cimarex Energy Co. (Midland)

Eddy County (NM83E)

Sec 01-T20S-R29E

Superior Fed #10H

Wellbore #3

Survey: Survey #1

Standard Survey Report

07 June, 2011

Great White Directional Services

Survey Report

Company: Cimarex Energy Co. (Midland)
 Project: Eddy County (NM83E)
 Site: Sec 01-T20S-R29E
 Well: Superior Fed #10H
 Wellbore: Wellbore #3
 Design: Wellbore #3

Local Co-ordinate Reference: Well Superior Fed #10H
 TVD Reference: WELL @ 0 0usft (Original Well Elev)
 MD Reference: WELL @ 0 0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Project	Eddy County (NM83E)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 01-T20S-R29E		
Site Position:	Northing:	585,364.20 usft	Latitude: 32° 36' 31.910 N
From: Map	Easting:	633,140.30 usft	Longitude: 104° 2' 6.711 W
Position Uncertainty	0 0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0 16 "

Well	Superior Fed #10H		
Well Position	+N/-S	0 0 usft	Northing: 585,364.20 usft
	+E/-W	0 0 usft	Easting: 633,140.30 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
			Ground Level: 0 0 usft

Wellbore	Wellbore #3		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	05/27/11	7.84
			Dip Angle (°)
			60.46
			Field Strength (nT)
			48,828

Design	Wellbore #3		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0 0	0 0	0 0
			Direction (°)
			178.87

Survey Program	Date 06/03/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
117.1	7,979.4	Survey #1-Gyro (Wellbore #1)	NS-GYRO-MS
8,005.0	8,765.0	Survey #1 (Wellbore #2)	MWD
8,828.0	13,098.0	Survey #1 (Wellbore #3)	MWD
			Description
			North sensing gyrocompassing m/s
			MWD - Standard
			MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,765.0	92.40	194.30	8,335.1	-313.2	-148.6	310.3	0.00	0.00	0.00
8,828.0	93.60	190.60	8,331.8	-374.7	-162.1	371.4	6.17	1.90	-5.87
8,891.0	92.30	187.50	8,328.5	-436.8	-172.0	433.3	5.33	-2.06	-4.92
8,954.0	93.10	185.30	8,325.6	-499.3	-179.0	495.7	3.71	1.27	-3.49
9,018.0	94.20	183.50	8,321.5	-563.0	-183.9	559.3	3.29	1.72	-2.81
9,081.0	94.80	181.60	8,316.5	-625.7	-186.7	621.9	3.15	0.95	-3.02
9,144.0	95.00	177.70	8,311.2	-688.5	-186.3	684.7	6.18	0.32	-6.19
9,207.0	93.50	175.50	8,306.5	-751.2	-182.6	747.5	4.22	-2.38	-3.49
9,271.0	92.60	175.20	8,303.1	-814.9	-177.4	811.2	1.48	-1.41	-0.47

Great White Directional Services

Survey Report

Company: Cimarex Energy Co. (Midland)
 Project: Eddy County (NM83E)
 Site: Sec 01-T20S-R29E
 Well: Superior Fcd #10H
 Wellbore: Wellbore #3
 Design: Wellbore #3

Local Co-ordinate Reference: Well Superior Fcd #10H
 TVD Reference: WELL @ 0.0usft (Original Well Elev)
 MD Reference: WELL @ 0.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,335.0	92.50	175.60	8,300.2	-878.6	-172.3	875.1	0.64	-0.16	0.63
9,398.0	92.00	177.20	8,297.8	-941.5	-168.3	938.0	2.66	-0.79	2.54
9,461.0	88.70	176.70	8,297.4	-1,004.4	-165.0	1,000.9	5.30	-5.24	-0.79
9,524.0	89.20	176.10	8,298.5	-1,067.2	-161.0	1,063.8	1.24	0.79	-0.95
9,586.0	90.20	175.60	8,298.9	-1,129.1	-156.6	1,125.8	1.80	1.61	-0.81
9,649.0	90.20	176.30	8,298.6	-1,191.9	-152.1	1,188.7	1.11	0.00	1.11
9,713.0	89.40	176.50	8,298.9	-1,255.8	-148.1	1,252.6	1.29	-1.25	0.31
9,776.0	90.00	175.60	8,299.2	-1,318.6	-143.7	1,315.5	1.72	0.95	-1.43
9,840.0	90.60	176.70	8,298.9	-1,382.5	-139.4	1,379.5	1.96	0.94	1.72
9,903.0	90.90	177.50	8,298.0	-1,445.4	-136.3	1,442.4	1.36	0.48	1.27
9,966.0	92.10	178.00	8,296.4	-1,508.3	-133.8	1,505.4	2.06	1.90	0.79
10,029.0	91.70	176.50	8,294.3	-1,571.2	-130.8	1,568.3	2.46	-0.63	-2.38
10,092.0	91.70	175.60	8,292.4	-1,634.0	-126.4	1,631.2	1.43	0.00	-1.43
10,156.0	90.70	174.90	8,291.1	-1,697.8	-121.1	1,695.1	1.91	-1.56	-1.09
10,218.0	90.10	174.20	8,290.6	-1,759.5	-115.2	1,756.9	1.49	-0.97	-1.13
10,281.0	89.50	174.40	8,290.9	-1,822.2	-109.0	1,819.7	1.00	-0.95	0.32
10,344.0	89.10	177.40	8,291.6	-1,885.0	-104.5	1,882.6	4.80	-0.63	4.76
10,407.0	90.20	176.60	8,292.0	-1,947.9	-101.2	1,945.6	2.16	1.75	-1.27
10,470.0	91.50	175.90	8,291.1	-2,010.8	-97.1	2,008.5	2.34	2.06	-1.11
10,533.0	89.50	175.90	8,290.5	-2,073.6	-92.6	2,071.4	3.17	-3.17	0.00
10,597.0	88.80	176.80	8,291.5	-2,137.5	-88.5	2,135.3	1.78	-1.09	1.41
10,659.0	88.70	177.64	8,292.8	-2,199.4	-85.5	2,197.3	1.37	-0.16	1.36
10,723.0	90.40	179.10	8,293.3	-2,263.4	-83.7	2,261.3	3.50	2.66	2.28
10,786.0	88.90	179.00	8,293.7	-2,326.4	-82.6	2,324.3	2.39	-2.38	-0.16
10,849.0	89.10	178.00	8,294.8	-2,389.3	-81.0	2,387.3	1.62	0.32	-1.59
10,912.0	87.70	176.90	8,296.6	-2,452.2	-78.2	2,450.2	2.83	-2.22	-1.75
10,976.0	88.20	175.20	8,298.0	-2,516.0	-73.8	2,514.1	2.77	0.78	-2.66
11,038.0	89.30	175.20	8,300.2	-2,577.8	-68.6	2,576.0	1.77	1.77	0.00
11,103.0	88.30	174.80	8,301.6	-2,642.6	-62.9	2,640.8	1.66	-1.54	-0.62
11,166.0	88.20	174.80	8,303.5	-2,705.3	-57.2	2,703.6	0.16	-0.16	0.00
11,230.0	89.00	174.80	8,305.1	-2,769.0	-51.4	2,767.4	1.25	1.25	0.00
11,293.0	90.60	174.10	8,305.3	-2,831.7	-45.3	2,830.2	2.77	2.54	-1.11
11,356.0	88.70	175.10	8,305.7	-2,894.4	-39.4	2,893.1	3.41	-3.02	1.59
11,420.0	88.80	175.60	8,307.1	-2,958.2	-34.2	2,956.9	0.80	0.16	0.78
11,483.0	87.50	175.50	8,309.1	-3,020.9	-29.3	3,019.8	2.07	-2.06	-0.16
11,546.0	86.20	176.60	8,312.6	-3,083.7	-25.0	3,082.6	2.70	-2.06	1.75
11,609.0	86.30	176.40	8,316.7	-3,146.4	-21.1	3,145.4	0.35	0.16	-0.32
11,673.0	86.90	177.20	8,320.5	-3,210.2	-17.6	3,209.3	1.56	0.94	1.25
11,736.0	87.40	176.80	8,323.6	-3,273.1	-14.3	3,272.2	1.02	0.79	-0.63
11,799.0	87.70	175.90	8,326.3	-3,335.9	-10.3	3,335.0	1.50	0.48	-1.43
11,863.0	89.40	176.20	8,327.9	-3,399.7	-5.9	3,398.9	2.70	2.66	0.47
11,926.0	89.60	175.80	8,328.5	-3,462.6	-1.5	3,461.8	0.71	0.32	-0.63
11,990.0	89.90	176.20	8,328.8	-3,526.4	3.0	3,525.8	0.78	0.47	0.63

Great White Directional Services

Survey Report

Company: Cimarex Energy Co. (Midland)
 Project: Eddy County (NM83E)
 Site: Sec 01-120S-R29E
 Well: Superior Fed #10H
 Wellbore: Wellbore #3
 Design: Wellbore #3

Local Co-ordinate Reference: Well Superior Fed #10H
 TVD Reference: WELL @ 0 0usft (Original Well Elev)
 MD Reference: WELL @ 0 0usft (Original Well Elev)
 North Reference: Grd
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000 1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,053.0	90.00	175.20	8,328.8	-3,589.2	7.7	3,588.7	1.60	0.16	-1.59
12,166.0	89.60	173.80	8,329.2	-3,701.7	18.5	3,701.3	1.29	-0.35	-1.24
12,180.0	88.80	173.90	8,329.4	-3,715.6	20.0	3,715.3	5.76	-5.71	0.71
12,243.0	90.20	173.70	8,330.0	-3,778.2	26.8	3,778.0	2.24	2.22	-0.32
12,306.0	89.50	175.40	8,330.1	-3,841.0	32.8	3,840.9	2.92	-1.11	2.70
12,368.0	89.20	176.30	8,330.8	-3,902.8	37.3	3,902.8	1.53	-0.48	1.45
12,432.0	88.00	176.00	8,332.4	-3,966.6	41.6	3,966.7	1.93	-1.88	-0.17
12,495.0	89.80	175.80	8,333.6	-4,029.4	46.1	4,029.6	2.87	2.86	-0.32
12,558.0	87.40	175.30	8,335.1	-4,092.2	51.0	4,092.4	3.89	-3.81	-0.79
12,621.0	88.70	174.80	8,337.3	-4,155.0	56.4	4,155.3	2.21	2.06	-0.79
12,684.0	89.40	174.50	8,338.3	-4,217.7	62.3	4,218.1	1.21	1.11	-0.48
12,747.0	90.90	174.20	8,338.2	-4,280.4	68.5	4,280.9	2.43	2.38	-0.48
12,810.0	90.90	174.80	8,337.2	-4,343.1	74.5	4,343.7	0.95	0.00	0.95
12,873.0	89.80	174.80	8,336.8	-4,405.8	80.3	4,406.5	1.75	-1.75	0.00
12,937.0	98.70	174.00	8,337.6	-4,469.5	86.5	4,470.3	2.13	-1.72	-1.25
13,000.0	90.20	174.30	8,338.2	-4,532.2	92.9	4,533.1	2.43	2.38	0.48
13,046.0	91.00	172.70	8,337.7	-4,577.9	98.1	4,578.9	3.89	1.74	-3.48
13,098.0	91.00	172.70	8,336.8	-4,629.4	104.7	4,630.6	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,046.0	8,337.7	-4,577.9	98.1	Last MWD Survey
13,098.0	8,336.8	-4,629.4	104.7	Projection to Bit

Checked By: _____

Approved By: _____

Date: _____

HOBBS OCD

JAN 30 2012

RECEIVED

Operator: Cimarex Energy Co. of Colorado
 Well/Lease: Superior Federal No. 10
 API Number: 30-015-38465
 County: Eddy, NM

30-015-38465

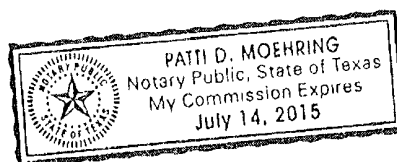
State of New Mexico
 Deviation Report

194'	0.30
321'	0.40
625'	1.00
906'	3.20
1001'	3.50
1095'	3.80
1220'	3.30
1283'	2.60
1314'	1.90
1408'	1.50
1566'	1.10
1633'	0.25
2066'	0.50
2560'	0.50
3032'	0.50
3594'	0.50
3971'	0.50
4389'	0.50
4780'	0.50
5192'	0.50
5615'	0.50
5993'	0.50
6348'	0.50
6697'	0.50
7098'	0.50
7450'	0.50
7906'	0.50
8330'	0.50

State of: *New Mexico*
 County of: *Eddy*

The foregoing instrument was acknowledged before me on 8-24-11, by
Richard Jeter, on behalf of Key Energy

Patti D. Moehring
 Notary Public For: *Texas*
 My Commission Expires: *7/14/15*



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

Form C-104
Revised June 10, 2003

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 600 N. Marienfeld., Ste. 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW / 07-08-11
⁴ API Number 30-015-38465	⁵ Pool Name Parkway; Bone Spring	⁶ Pool Code 49622
⁷ Property Code 300505	⁸ Property Name Superior Federal	⁹ Well Number 010

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
D	1	20S	29E	4	330	North	560	West	Eddy

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
M	1	20S	29E		341	South	673	West	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 07-11-11	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		O	
180055	Duke Energy Field Services 6120 S. Yale Ave. Ste 1100 Tulsa, OK		G	

RECEIVED
AUG 29 2011
INMOCD ARTESIA

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description Same as above
-------------------	---

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTB	²⁹ Perforations	³⁰ DHC, MC
03-31-11	07-08-11	MD 13098 TVD 8337	MD 13098 TVD 8337	8476-13041	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
26	20	329	1000		
17.5	13.375	1590	1270		
12.25	9.625	3454	983		
8.75	5.5	13098	1500		
	2.875	8076			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
07-08-11	07-11-11	08-03-11	24 hrs	200	100
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
48/64	74	171	500		Producing

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:

Printed name: Natalie Krueger

Title: Regulatory Analyst

E-mail Address: nkrueger@cimarex.com

Date: August 26, 2011

Phone: 432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

JAN 30 2012

dm