

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM92167

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
DA VINCI 7 FEDERAL COM 5H

2. Name of Operator Contact: DEYSI FAVELA  
CIMAREX ENERGY COMPANY OF CO Email: dfavela@cimarex.com

9. API Well No.  
30-015-41621-00-X1

3a. Address  
600 NORTH MARIENFELD STREET SUITE 600  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 432-620-1964

10. Field and Pool, or Exploratory  
WILDCAT

*Cottonwood Draw; B.S.*

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. County or Parish, and State

Sec 7 T25S R27E SWSW 300FSL 330FWL  
32.081687 N Lat, 104.131281 W Lon

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex Energy respectfully requests changes to the APD as follows,

Approved:  
12487' MD  
7902' TVD  
7616' KOP  
8065' EOC

Changed to:  
11578' MD  
7172' TVD  
6516' KOP

Accepted for record  
NMOCD *TES*  
*12/3/2013*

RECEIVED  
DEC 02 2013  
NMOCD ARTESIA

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14. I hereby certify that the foregoing is true and correct.

Electronic Submission #227016 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 11/18/2013 (14CRW0154SE)

Name (Printed/Typed) DEYSI FAVELA

Title DRILLING TECHNICIAN

Signature (Electronic Submission)

Date 11/15/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 11/25/2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

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.

**Additional data for EC transaction #227016 that would not fit on the form**

**32. Additional remarks, continued**

7512' EOC



# Cimarex Da Vinci 7 Federal Com #5H Rev0 WEB 13-Nov-13 Proposal Report

(Non-Def Plan)

<b>Report Date:</b>	November 14, 2013 - 06:24 PM	<b>Survey / DLS Computation:</b>	Minimum Curvature / Lubinski
<b>Client:</b>	Cimarex	<b>Vertical Section Azimuth:</b>	7.039 ° (Grid North)
<b>Field:</b>	NM Eddy County (NAD 83)	<b>Vertical Section Origin:</b>	0.000 ft, 0.000 ft
<b>Structure / Slot:</b>	Caclus 116 / Cimarex Da Vinci 7 Federal Com #5H	<b>TVD Reference Datum:</b>	RKB
<b>Well:</b>	Cimarex Da Vinci 7 Federal Com #5H	<b>TVD Reference Elevation:</b>	3227.000 ft above
<b>Borehole:</b>	Original Borehole	<b>Seabed / Ground Elevation:</b>	3209.000 ft above
<b>UWI / API#:</b>	Unknown / Unknown	<b>Magnetic Declination:</b>	7.703 °
<b>Survey Name:</b>	Cimarex Da Vinci 7 Federal Com #5H Rev0 WEB 13-Nov-13	<b>Total Gravity Field Strength:</b>	998.4983mgn (9.80665 Based)
<b>Survey Date:</b>	November 13, 2013	<b>Total Magnetic Field Strength:</b>	48227.269 nT
<b>Tort / AHD / DDI / ERD Ratio:</b>	89.754 ° / 4698.644 ft / 5.833 / 0.655	<b>Magnetic Dip Angle:</b>	59.914 °
<b>Coordinate Reference System:</b>	NAD83 New Mexico State Plane, Eastern Zone, US Feet	<b>Declination Date:</b>	November 13, 2013
<b>Location Lat / Long:</b>	N 32° 8' 16.86990", W 104° 14' 12.80537"	<b>Magnetic Declination Model:</b>	BGGM 2013
<b>Location Grid N/E Y/X:</b>	N 413960.500 RUS, E 571188.800 RUS	<b>North Reference:</b>	Grid North
<b>CRS Grid Convergence Angle:</b>	0.0513 °	<b>Grid Convergence Used:</b>	0.0513 °
<b>Grid Scale Factor:</b>	0.99991011	<b>Total Corr Mag North-&gt;Grid North:</b>	7.6513 °
		<b>Local Coord Referenced To:</b>	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Cimarex Da Vinci 7 Federal Com #5H	0.00	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00	N/A	7.04M
KOP - Build 9"/100ft DLS	6515.50	0.00	7.04	6515.50	0.00	0.00	0.00	0.00	0.00	0.00	7.04M
Landing Point Cimarex Da Vinci 7 Federal Com #5H	7512.32	89.73	7.04	7152.00	633.51	628.73	77.64	633.51	7.04	9.00	174.78L
PBHL	11577.51	89.71	7.04	7172.00	4698.64	4663.23	575.80	4698.64	7.04	0.00	

Survey Type: Non-Def Plan

Survey Error Model: ISCW/SA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
 Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	18.000	1/100.000	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H Rev0
	18.000	6674.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H Rev0
	6674.000	11577.510	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H Rev0



Cactus 116

Cimarex

Rev0



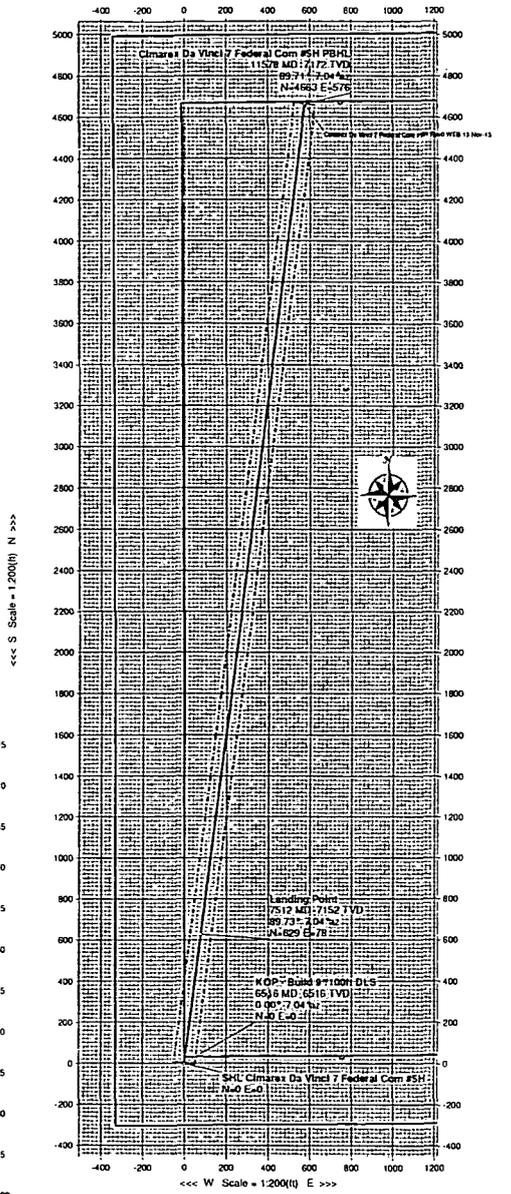
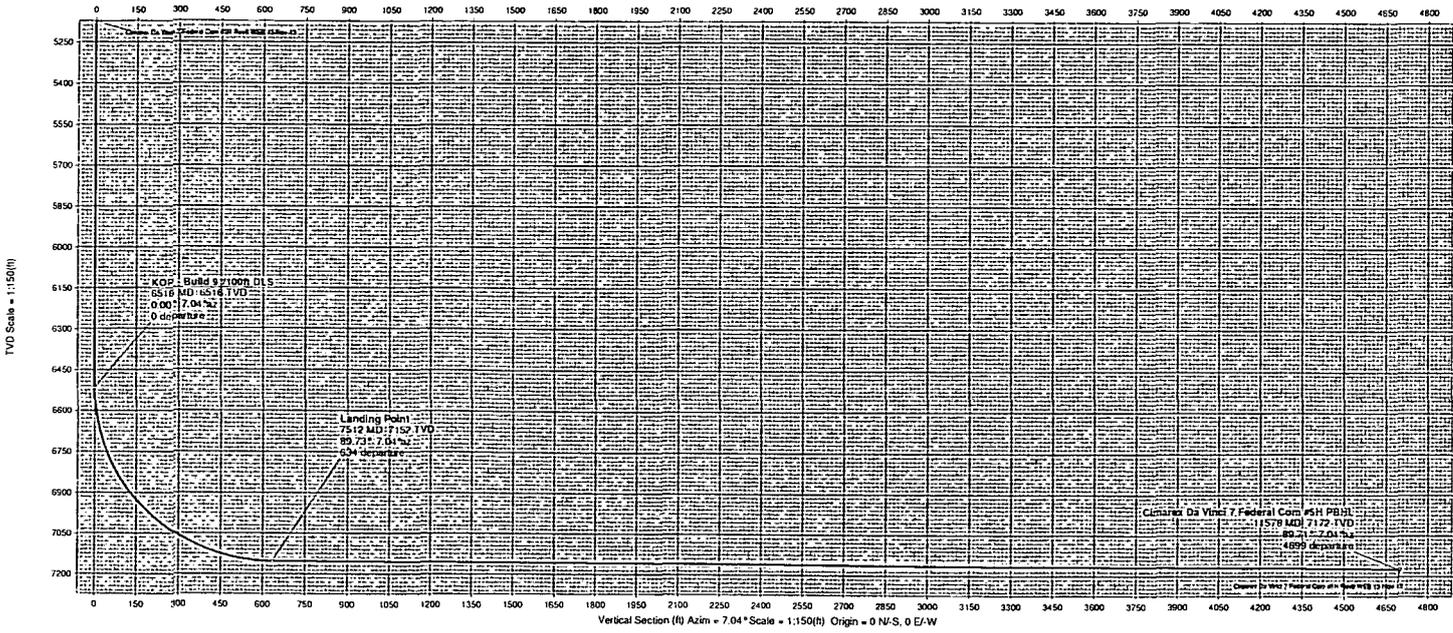
WELL	Da Vinci 7 Federal Com #5H	FIELD	NM Eddy County	STRUCTURE	Cactus 116
Algebraic Parameters	Model: RIG/1M 2013	Phi: 54.934°	Date: November 13, 2013	Surface Location	SNAP/SON Version State Plane, Eastern Zone, U.S. Feet
	Mag Dec: 7.703°	PS: 48227.347		Lat: N 32 8 16.870	Longitude: W 104 14 12.805
				Northing: 413960.50	Easting: 571138.80
				Grid Conv: 0.051°	Scale Fact: 0.99991011
				Mag Dec: 7.703°	Grid Conv: 0.051°

Legend

- Cimarex Da Vinci 7 Federal Com #5H Land Use
- Cimarex Da Vinci 7 Federal Com #5H Well
- Cimarex Da Vinci 7 Federal Com #5H PBM
- Cimarex Da Vinci 7 Federal Com #5H Well
- Cimarex Da Vinci 7 Federal Com #5H Well

Grid North  
 Tot Corr (M->G 7.6513°)  
 Mag Dec (7.703°)  
 Grid Conv (0.051°)

Critical Points																
Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD	VS(ft)	NS(ft)	EW(ft)	Latitude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	Closure(ft)	Closure Azimuth(deg)	DLS(ft/100ft)	Tool Face(deg)
SHL Cimarex Da Vinci 7 Federal Com #5H	0.00	0.00	7.04	0.00	-3227.00	0.00	0.00	0.00	N 32 8 16.870	W 104 14 12.805	571138.80	413960.50	0.00	0.00		7.04
KOP - Build 99100ft DLS	6515.50	0.00	7.04	6515.50	3288.50	0.00	0.00	0.00	N 32 8 16.870	W 104 14 12.805	571138.80	413960.50	0.00	0.00	0.00	7.04
Landing Point	7512.32	89.73	7.04	7152.00	3925.00	633.51	628.73	77.64	N 32 8 23.091	W 104 14 11.896	571266.44	414589.17	633.51	7.04	9.00	-174.78
Cimarex Da Vinci 7 Federal Com #5H PBHL	11577.51	89.71	7.04	7172.00	3945.00	4698.64	4663.23	575.80	N 32 9 3.009	W 104 14 6.059	571764.55	418623.30	4698.64	7.04	0.00	



Drawn By: Current User  
 Date Created: November 14, 2013 06:26:39 PM  
 Checked By:  
 Checked Date:  
 Approved By:  
 Approved Date: