

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NMNM120350
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: DEYSI FAVELA E-Mail: dfavela@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1964	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T26S R27E Lot 3 0210FSL 2180FWL 32.000208 N Lat, 104.094588 W Lon		8. Well Name and No. HORNSBY 35 FEDERAL COM 5H
		9. API Well No. 30-015-42167-00-X1
		10. Field and Pool, or Exploratory WILDCAT wc-0155262728A; WC (GAS)
		11. County or Parish, and State EDDY COUNTY, NM <98017>

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleat 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 recompleat 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:

Directional Plan Change / BHL Move
Approved:
BHL 660' FNL & 1980' FWL
KOP 9416'
EOC 10164'
MD 16232'
TVD 9913'
Pool Wolfcamp (Gas Well)

Proposed:

Accepted for record

NMOCD TOS
6-17-14

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 16 2014

RECEIVED

Original COAs still stand

14. I hereby certify that the foregoing is true and correct. Electronic Submission #245747 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad Committed to AFMSS for processing by CATHY QUEEN on 06/06/2014 (14CQ0173SE)	
Name (Printed/Typed) DEYSI FAVELA	Title DRILLING TECH
Signature (Electronic Submission)	Date 05/14/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
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.	
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.	

APPROVED
JUN 11 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Additional data for EC transaction #245747 that would not fit on the form

32. Additional remarks, continued

BHL 330' FNL & 1980' FWL

KOP 7267'

EOC 8015'

MD 14412'

TVD 7764'

Pool Bone Spring Horizontal (Oil Well)

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone (505) 393-0161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1283 Fax: (505) 746-0720

DISTRICT III
1000 Rio Braxos Rd., Aztec, NM 87410
Phone (505) 934-0178 Fax: (505) 934-0170

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30015-42167	Pool Code 30215 98017	Well Name WC-015 S262728A; WC (GAS) Hay Hallow; Bone Spring
Property Code 40444	Property Name HORNSBY 35 FEDERAL COM	Well Number 5H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3263'

Surface Location

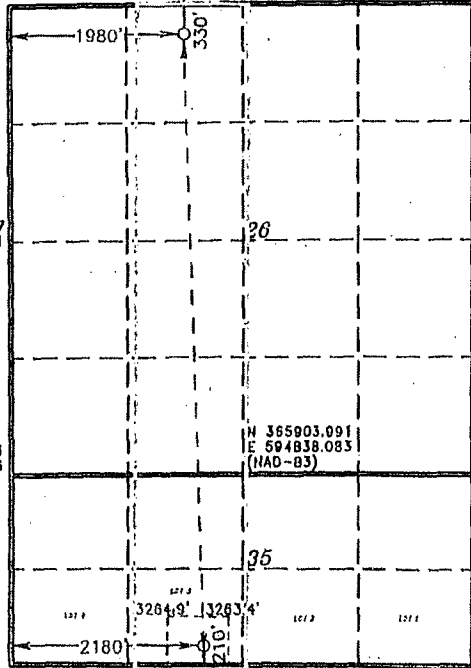
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	35	26 S	27 E		210	SOUTH	2180	WEST	EDDY

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
C	26	26 S	27 E		330	NORTH	1980	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
224.07			

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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°01'10.06" Long - W 104°09'46.61" NMSPCE- N 370860.2 E 594144.3 (NAD-83)		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>Deysi Favela</u> 5-2-14 Signature Date Printed Name dfavela@cimarex.com Email Address
SURFACE LOCATION Lat - N 32°00'02.08" Long - W 104°09'43.86" NMSPCE- N 363991.958 E 594389.290 (NAD-83)		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 1, 2014 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gory L. Jones 7977 BASIN SURVEYS 29241



Cimarex Hornsby 35 Federal Com 5H Rev1 TP 6-May-14 Proposal Report

(Non-Def Plan)

Report Date:	May 06, 2014 - 01:52 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	357.957 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hornsby 35 Federal Com 5H / Cimarex Hornsby 35 Federal Com 5H	TVD Reference Datum:	Ground level
Well:	Cimarex Hornsby 35 Federal Com 5H	TVD Reference Elevation:	3263.000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3263.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.603 °
Survey Name:	Cimarex Hornsby 35 Federal Com 5H Rev1 TP 6-May-14	Total Field Strength:	48097.922 nT
Survey Date:	October 09, 2013	Magnetic Dip Angle:	59.785 °
Tort / AHD / DDI / ERD Ratio:	89.826 ° / 6873.226 ft / 6.059 / 0.885	Declination Date:	May 06, 2014
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2013
Location Lat / Long:	N 32° 0' 2.08259", W 104° 9' 43.88752"	North Reference:	Grid North
Location Grid N/E Y/X:	N 363991.958 RUS, E 594389.290 RUS	Grid Convergence Used:	0.0907 °
CRS Grid Convergence Angle:	0.0907 °	Total Corr Mag North->Grid North:	7.5128 °
Grid Scale Factor:	0.99991231	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
SHL Cimarex Hornsby 35 Federal Com 5H	0.00	0.00	357.96	0.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	N/A
	100.00	0.00	357.96	100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	200.00	0.00	357.96	200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	300.00	0.00	357.96	300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	400.00	0.00	357.96	400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	500.00	0.00	357.96	500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	600.00	0.00	357.96	600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	700.00	0.00	357.96	700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	800.00	0.00	357.96	800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	900.00	0.00	357.96	900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1000.00	0.00	357.96	1000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1100.00	0.00	357.96	1100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1200.00	0.00	357.96	1200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1300.00	0.00	357.96	1300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1400.00	0.00	357.96	1400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1500.00	0.00	357.96	1500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1600.00	0.00	357.96	1600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1700.00	0.00	357.96	1700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1800.00	0.00	357.96	1800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	1900.00	0.00	357.96	1900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2000.00	0.00	357.96	2000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2100.00	0.00	357.96	2100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2200.00	0.00	357.96	2200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2300.00	0.00	357.96	2300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2400.00	0.00	357.96	2400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2500.00	0.00	357.96	2500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2600.00	0.00	357.96	2600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2700.00	0.00	357.96	2700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	2800.00	0.00	357.96	2800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
	2900.00	0.00	357.96	2900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3000.00	0.00	357.96	3000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3100.00	0.00	357.96	3100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3200.00	0.00	357.96	3200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3300.00	0.00	357.96	3300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3400.00	0.00	357.96	3400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3500.00	0.00	357.96	3500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3600.00	0.00	357.96	3600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3700.00	0.00	357.96	3700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3800.00	0.00	357.96	3800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	3900.00	0.00	357.96	3900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4000.00	0.00	357.96	4000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4100.00	0.00	357.96	4100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4200.00	0.00	357.96	4200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4300.00	0.00	357.96	4300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4400.00	0.00	357.96	4400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4500.00	0.00	357.96	4500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4600.00	0.00	357.96	4600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4700.00	0.00	357.96	4700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4800.00	0.00	357.96	4800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	4900.00	0.00	357.96	4900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5000.00	0.00	357.96	5000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5100.00	0.00	357.96	5100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5200.00	0.00	357.96	5200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5300.00	0.00	357.96	5300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5400.00	0.00	357.96	5400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5500.00	0.00	357.96	5500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5600.00	0.00	357.96	5600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5700.00	0.00	357.96	5700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5800.00	0.00	357.96	5800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	5900.00	0.00	357.96	5900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6000.00	0.00	357.96	6000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6100.00	0.00	357.96	6100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6200.00	0.00	357.96	6200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6300.00	0.00	357.96	6300.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6400.00	0.00	357.96	6400.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6500.00	0.00	357.96	6500.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6600.00	0.00	357.96	6600.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6700.00	0.00	357.96	6700.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6800.00	0.00	357.96	6800.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	6900.00	0.00	357.96	6900.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	7000.00	0.00	357.96	7000.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	7100.00	0.00	357.96	7100.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	7200.00	0.00	357.96	7200.00	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
KOP - Build 12"/100ft DLS	7266.50	0.00	357.96	7266.50	0.00	0.00	0.00	363991.96	594389.29	N 32 0 2.08	W 104 9 43.89	0.00	0.00	0.00
	7300.00	4.02	357.96	7299.97	1.17	1.17	-0.04	363993.13	594389.25	N 32 0 2.09	W 104 9 43.89	1.17	357.96	12.00
	7400.00	16.02	357.96	7398.27	18.54	18.53	-0.66	364010.49	594388.63	N 32 0 2.27	W 104 9 43.89	18.54	357.96	12.00
	7500.00	28.02	357.96	7490.80	55.96	55.93	-1.99	364047.88	594387.30	N 32 0 2.64	W 104 9 43.91	55.96	357.96	12.00
	7600.00	40.02	357.96	7573.54	111.80	111.73	-3.98	364103.68	594385.31	N 32 0 3.19	W 104 9 43.93	111.80	357.96	12.00
	7700.00	52.02	357.96	7642.86	183.63	183.51	-6.54	364175.45	594382.75	N 32 0 3.90	W 104 9 43.96	183.63	357.96	12.00
	7800.00	64.01	357.96	7695.73	268.29	268.12	-9.55	364260.06	594379.74	N 32 0 4.74	W 104 9 43.99	268.29	357.96	12.00
	7900.00	76.01	357.96	7729.85	362.10	361.87	-12.89	364353.79	594376.40	N 32 0 5.66	W 104 9 44.03	362.10	357.96	12.00
	8000.00	88.01	357.96	7743.72	460.95	460.65	-16.41	364452.57	594372.88	N 32 0 6.64	W 104 9 44.07	460.95	357.96	12.00
Landing point	8015.06	89.82	357.96	7744.00	476.00	475.70	-16.94	364467.62	594372.35	N 32 0 6.79	W 104 9 44.08	476.00	357.96	12.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
	8100.00	89.82	357.96	7744.27	560.94	560.59	-19.97	364552.50	594369.32	N 32 0 7.63	W 104 9 44.11	560.94	357.96	0.00
	8200.00	89.82	357.96	7744.58	660.94	660.52	-23.53	364652.42	594365.76	N 32 0 8.62	W 104 9 44.15	660.94	357.96	0.00
	8300.00	89.82	357.96	7744.89	760.94	760.46	-27.09	364752.35	594362.20	N 32 0 9.61	W 104 9 44.19	760.94	357.96	0.00
	8400.00	89.82	357.96	7745.21	860.94	860.40	-30.65	364852.28	594358.64	N 32 0 10.60	W 104 9 44.23	860.94	357.96	0.00
	8500.00	89.82	357.96	7745.52	960.94	960.33	-34.21	364952.20	594355.08	N 32 0 11.59	W 104 9 44.27	960.94	357.96	0.00
	8600.00	89.82	357.96	7745.84	1060.94	1060.27	-37.77	365052.13	594351.52	N 32 0 12.58	W 104 9 44.31	1060.94	357.96	0.00
	8700.00	89.82	357.96	7746.15	1160.94	1160.20	-41.33	365152.06	594347.96	N 32 0 13.56	W 104 9 44.35	1160.94	357.96	0.00
	8800.00	89.82	357.96	7746.46	1260.94	1260.14	-44.89	365251.99	594344.40	N 32 0 14.55	W 104 9 44.39	1260.94	357.96	0.00
	8900.00	89.82	357.96	7746.78	1360.94	1360.08	-48.45	365351.91	594340.84	N 32 0 15.54	W 104 9 44.43	1360.94	357.96	0.00
	9000.00	89.82	357.96	7747.09	1460.94	1460.01	-52.01	365451.84	594337.28	N 32 0 16.53	W 104 9 44.46	1460.94	357.96	0.00
	9100.00	89.82	357.96	7747.41	1560.94	1559.95	-55.57	365551.77	594333.72	N 32 0 17.52	W 104 9 44.50	1560.94	357.96	0.00
	9200.00	89.82	357.96	7747.72	1660.94	1659.88	-59.14	365651.69	594330.16	N 32 0 18.51	W 104 9 44.54	1660.94	357.96	0.00
	9300.00	89.82	357.96	7748.03	1760.94	1759.82	-62.70	365751.62	594326.60	N 32 0 19.50	W 104 9 44.58	1760.94	357.96	0.00
	9400.00	89.82	357.96	7748.35	1860.94	1859.76	-66.26	365851.55	594323.04	N 32 0 20.49	W 104 9 44.62	1860.94	357.96	0.00
	9500.00	89.82	357.96	7748.66	1960.94	1959.69	-69.82	365951.47	594319.47	N 32 0 21.48	W 104 9 44.66	1960.94	357.96	0.00
	9600.00	89.82	357.96	7748.97	2060.94	2059.63	-73.38	366051.40	594315.91	N 32 0 22.46	W 104 9 44.70	2060.94	357.96	0.00
	9700.00	89.82	357.96	7749.29	2160.94	2159.56	-76.95	366151.33	594312.35	N 32 0 23.45	W 104 9 44.74	2160.94	357.96	0.00
	9800.00	89.82	357.96	7749.60	2260.93	2259.50	-80.51	366251.26	594308.79	N 32 0 24.44	W 104 9 44.78	2260.93	357.96	0.00
	9900.00	89.82	357.96	7749.91	2360.93	2359.44	-84.07	366351.18	594305.23	N 32 0 25.43	W 104 9 44.82	2360.93	357.96	0.00
	10000.00	89.82	357.96	7750.23	2460.93	2459.37	-87.64	366451.11	594301.66	N 32 0 26.42	W 104 9 44.86	2460.93	357.96	0.00
	10100.00	89.82	357.96	7750.54	2560.93	2559.31	-91.20	366551.04	594298.10	N 32 0 27.41	W 104 9 44.90	2560.93	357.96	0.00
	10200.00	89.82	357.96	7750.85	2660.93	2659.24	-94.76	366650.96	594294.54	N 32 0 28.40	W 104 9 44.94	2660.93	357.96	0.00
	10300.00	89.82	357.96	7751.17	2760.93	2759.18	-98.33	366750.89	594290.97	N 32 0 29.39	W 104 9 44.98	2760.93	357.96	0.00
	10400.00	89.82	357.96	7751.48	2860.93	2859.12	-101.89	366850.82	594287.41	N 32 0 30.38	W 104 9 45.02	2860.93	357.96	0.00
	10500.00	89.82	357.96	7751.79	2960.93	2959.05	-105.45	366950.75	594283.85	N 32 0 31.37	W 104 9 45.06	2960.93	357.96	0.00
	10600.00	89.82	357.96	7752.10	3060.93	3058.99	-109.02	367050.67	594280.28	N 32 0 32.35	W 104 9 45.10	3060.93	357.96	0.00
	10700.00	89.82	357.96	7752.42	3160.93	3158.92	-112.58	367150.60	594276.72	N 32 0 33.34	W 104 9 45.14	3160.93	357.96	0.00
	10800.00	89.82	357.96	7752.73	3260.93	3258.86	-116.15	367250.53	594273.16	N 32 0 34.33	W 104 9 45.18	3260.93	357.96	0.00
	10900.00	89.82	357.96	7753.04	3360.93	3358.80	-119.71	367350.45	594269.59	N 32 0 35.32	W 104 9 45.22	3360.93	357.96	0.00
	11000.00	89.82	357.96	7753.36	3460.93	3458.73	-123.27	367450.38	594266.03	N 32 0 36.31	W 104 9 45.26	3460.93	357.96	0.00
	11100.00	89.82	357.96	7753.67	3560.93	3558.67	-126.84	367550.31	594262.46	N 32 0 37.30	W 104 9 45.30	3560.93	357.96	0.00
	11200.00	89.82	357.96	7753.98	3660.93	3658.60	-130.40	367650.23	594258.90	N 32 0 38.29	W 104 9 45.33	3660.93	357.96	0.00
	11300.00	89.82	357.96	7754.29	3760.93	3758.54	-133.97	367750.16	594255.33	N 32 0 39.28	W 104 9 45.37	3760.93	357.96	0.00
	11400.00	89.82	357.96	7754.61	3860.93	3858.48	-137.53	367850.09	594251.77	N 32 0 40.27	W 104 9 45.41	3860.93	357.96	0.00
	11500.00	89.82	357.96	7754.92	3960.93	3958.41	-141.10	367950.02	594248.20	N 32 0 41.26	W 104 9 45.45	3960.93	357.96	0.00
	11600.00	89.82	357.96	7755.23	4060.93	4058.35	-144.67	368049.94	594244.64	N 32 0 42.24	W 104 9 45.49	4060.93	357.96	0.00
	11700.00	89.82	357.96	7755.54	4160.93	4158.28	-148.23	368149.87	594241.07	N 32 0 43.23	W 104 9 45.53	4160.93	357.96	0.00
	11800.00	89.82	357.96	7755.86	4260.92	4258.22	-151.80	368249.80	594237.51	N 32 0 44.22	W 104 9 45.57	4260.92	357.96	0.00
	11900.00	89.82	357.96	7756.17	4360.92	4358.16	-155.36	368349.72	594233.94	N 32 0 45.21	W 104 9 45.61	4360.92	357.96	0.00
	12000.00	89.82	357.96	7756.48	4460.92	4458.09	-158.93	368449.65	594230.37	N 32 0 46.20	W 104 9 45.65	4460.92	357.96	0.00
	12100.00	89.82	357.96	7756.79	4560.92	4558.03	-162.50	368549.58	594226.81	N 32 0 47.19	W 104 9 45.69	4560.92	357.96	0.00
	12200.00	89.82	357.96	7757.11	4660.92	4657.96	-166.06	368649.50	594223.24	N 32 0 48.18	W 104 9 45.73	4660.92	357.96	0.00
	12300.00	89.82	357.96	7757.42	4760.92	4757.90	-169.63	368749.43	594219.68	N 32 0 49.17	W 104 9 45.77	4760.92	357.96	0.00
	12400.00	89.82	357.96	7757.73	4860.92	4857.84	-173.20	368849.36	594216.11	N 32 0 50.16	W 104 9 45.81	4860.92	357.96	0.00
	12500.00	89.82	357.96	7758.04	4960.92	4957.77	-176.76	368949.28	594212.54	N 32 0 51.14	W 104 9 45.85	4960.92	357.96	0.00
	12600.00	89.82	357.96	7758.35	5060.92	5057.71	-180.33	369049.21	594208.97	N 32 0 52.13	W 104 9 45.89	5060.92	357.96	0.00
	12700.00	89.82	357.96	7758.67	5160.92	5157.64	-183.90	369149.14	594205.41	N 32 0 53.12	W 104 9 45.93	5160.92	357.96	0.00
	12800.00	89.82	357.96	7758.98	5260.92	5257.58	-187.47	369249.07	594201.84	N 32 0 54.11	W 104 9 45.97	5260.92	357.96	0.00
	12900.00	89.82	357.96	7759.29	5360.92	5357.51	-191.03	369348.99	594198.27	N 32 0 55.10	W 104 9 46.01	5360.92	357.96	0.00
	13000.00	89.82	357.96	7759.60	5460.92	5457.45	-194.60	369448.92	594194.70	N 32 0 56.09	W 104 9 46.05	5460.92	357.96	0.00
	13100.00	89.82	357.96	7759.91	5560.92	5557.39	-198.17	369548.85	594191.14	N 32 0 57.08	W 104 9 46.09	5560.92	357.96	0.00
	13200.00	89.82	357.95	7760.22	5660.92	5657.32	-201.74	369648.77	594187.57	N 32 0 58.07	W 104 9 46.13	5660.92	357.96	0.00
	13300.00	89.82	357.95	7760.54	5760.92	5757.26	-205.31	369748.70	594184.00	N 32 0 59.06	W 104 9 46.17	5760.92	357.96	0.00
	13400.00	89.82	357.95	7760.85	5860.92	5857.19	-208.88	369848.63	594180.43	N 32 1 0.05	W 104 9 46.21	5860.92	357.96	0.00
	13500.00	89.82	357.95	7761.16	5960.92	5957.13	-212.45	369948.55	594176.86	N 32 1 1.03	W 104 9 46.25	5960.92	357.96	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
	13600.00	89.82	357.95	7761.47	6060.92	6057.07	-216.01	370048.48	594173.30	N 32 1 2.02	W 104 9 46.29	6060.92	357.96	0.00
	13700.00	89.82	357.95	7761.78	6160.92	6157.00	-219.58	370148.41	594169.73	N 32 1 3.01	W 104 9 46.32	6160.92	357.96	0.00
	13800.00	89.82	357.95	7762.09	6260.92	6256.94	-223.15	370248.33	594166.16	N 32 1 4.00	W 104 9 46.36	6260.92	357.96	0.00
	13900.00	89.82	357.95	7762.41	6360.91	6356.87	-226.72	370348.26	594162.59	N 32 1 4.99	W 104 9 46.40	6360.91	357.96	0.00
	14000.00	89.82	357.95	7762.72	6460.91	6456.81	-230.29	370448.19	594159.02	N 32 1 5.98	W 104 9 46.44	6460.91	357.96	0.00
	14100.00	89.82	357.95	7763.03	6560.91	6556.74	-233.86	370548.11	594155.45	N 32 1 6.97	W 104 9 46.48	6560.91	357.96	0.00
	14200.00	89.82	357.95	7763.34	6660.91	6656.68	-237.43	370648.04	594151.88	N 32 1 7.96	W 104 9 46.52	6660.91	357.96	0.00
	14300.00	89.82	357.95	7763.65	6760.91	6756.62	-241.00	370747.97	594148.31	N 32 1 8.95	W 104 9 46.56	6760.91	357.96	0.00
	14400.00	89.82	357.95	7763.96	6860.91	6856.55	-244.57	370847.89	594144.74	N 32 1 9.94	W 104 9 46.60	6860.91	357.96	0.00
Cimarex Hornsby 35 Federal Com 5H PBHL	14412.31	89.82	357.95	7764.00	6873.23	6868.86	-245.01	370860.20	594144.30	N 32 1 10.06	W 104 9 46.61	6873.23	357.96	0.00

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

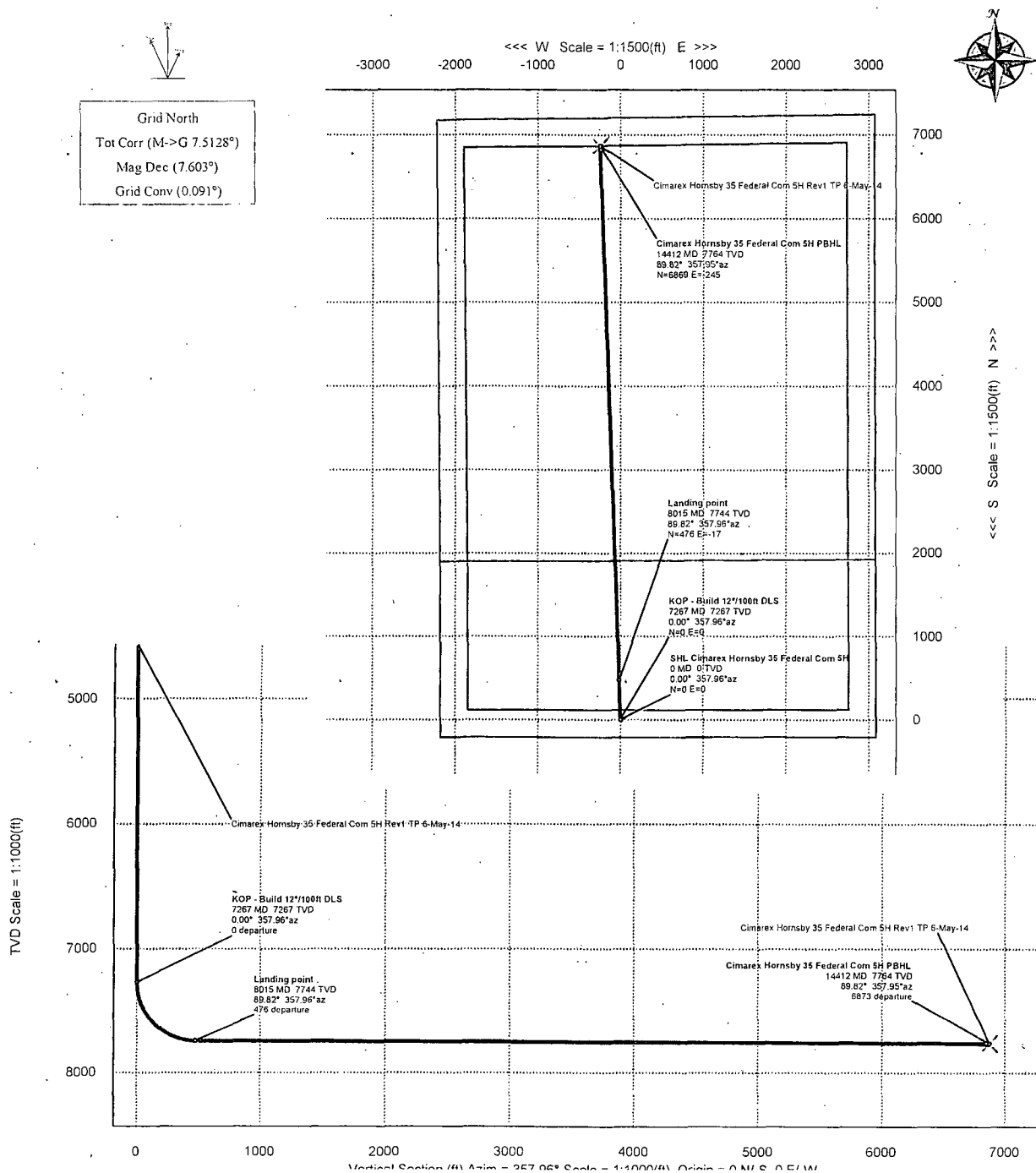
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	9415.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Hornsby 35 Federal Com 5H
	9415.000	14412.314	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Hornsby 35 Federal Com 5H



Cimarex

PATHFINDER
A Schlumberger Company

WELL			FIELD			STRUCTURE		
Cimarex Hornsby 35 Federal Com 5H			5HNM Eddy County (NAD 83)			Cimarex Hornsby 35 Federal C		
Magnetic Parameters								
Model	BGG12 2013	Dip	59.785	Date	May 06, 2014	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	
		Mag Dec	7.603	PS	48097 SH	LAI	353861 85 NUS	Grid Cont. 0.001
						LON	594385 29 NUS	Scale Fact: 0.99997231
						Easting	Miscalculation	
							Shl	Cimarex Hornsby 35 Federal C/D-Rst. Ground elev:2250ft above s
							Plan	Cimarex Hornsby 35 Federal C/D-Rst. Ground elev:2250ft above s



Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Cimarex Hornsby 35 Federal Com 5H	0.00	0.00	357.96	0.00	0.00	0.00	0.00	
KOP - Build 12"/100ft DLS	7266.50	0.00	357.96	7266.50	0.00	0.00	0.00	0.00
Landing point	8015.06	89.82	357.96	7744.00	476.00	475.70	-16.94	12.00
Cimarex Hornsby 35 Federal Com 5H PBHL	14412.31	89.82	357.95	7764.00	6873.23	6868.86	-245.01	0.00