

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		8. Well Name and No. HORNSBY 35 FEDERAL COM 11H
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: DEYSI FAVELA E-Mail: dfavela@cimarex.com		9. API Well No. 30-015-42171-00-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
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T26S R27E Lot 1 0210FSL 0750FEL 32.000206 N Lat, 104.091676 W Lon		11. County or Parish, and State EDDY COUNTY, NM <i>(GAS)</i> <i>4980177</i>

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 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:

Directional Plan Change / BHL Move

Approved:
BHL 660' FNL & 750' FEL
KOP 9421'
EOC 10169'
MD 16263'
TVD 9918'
Pool Wolfcamp (Gas Well)

Proposed:

Accepted for record adjust liner top accordingly.
NMOCD 10/17/14

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 16 2014

Original COAs still stand.

RECEIVED

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #245749 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 (14CQ0172SE)	
Name (Printed/Typed)	DEYSI FAVELA	Title	DRILLING TECH
Signature	(Electronic Submission)	Date	05/14/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		APPROVED <i>[Signature]</i> JUN 11 2014 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
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.		Office	

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.

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

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6101 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (505) 746-1225 Fax: (505) 746-0720

DISTRICT III

1000 Rio Bronco Rd., Aztec, NM 87410
Phone (505) 334-0170 Fax: (505) 334-0170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3400 Fax: (505) 476-3100

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 30015-42171	Pool Code 30215	Well Name WC-015 5262728A WC (BAS) Hay Hollow, Bone Spring
Property Code 40444	Property Name HORNBY "35" FEDERAL COM	Well Number 11H
OGRIID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3228'

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 1	35	26 S	27 E		210	SOUTH	750	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
A	26	26 S	27 E		330	NORTH	750	EAST	EDDY

Dedicated Acres 224.18	Joint or Infill	Consolidation Code	Order No. NSL/NSP pending
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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

BOTTOM HOLE Lat - N 32°01'10.35" Long - W 104°09'16.82" NMSPC - N 370893.8 E 596708.6 (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 undivided 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. Signature: <i>Deysi Favela</i> Date: 5-2-14 Printed Name: Deysi Favela Email: dfavela@cimarex.com
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: 5-2-14 Signature & Seal of Professional Surveyor: <i>Gary L. Jones</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 29247		

Surface Location
Lat - N 32°00'02.06"
Long - W 104°09'16.76"
NMSPC - N 363994.0
E 596724.8
(NAD-83)



A Schlumberger Company



Cimarex Hornsby 35 Federal Com 11H Rev1 TP 6-May-14 Proposal Report

(Non-Def Plan)

Report Date:	May 06, 2014 - 02:46 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	359.865 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hornsby 35 Federal Com 11H / Cimarex Hornsby 35 Federal Com 11H	TVD Reference Datum:	Ground level
Well:	Cimarex Hornsby 35 Federal Com 11H	TVD Reference Elevation:	3228.000 ft above
Borehole:	Cimarex Hornsby 35 Federal Com 11H	Seabed / Ground Elevation:	3228.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.600 °
Survey Name:	Cimarex Hornsby 35 Federal Com 11H Rev1 TP 6-May-14	Total Field Strength:	48099.130 nT
Survey Date:	October 14, 2013	Magnetic Dip Angle:	59.787 °
Tort / AHD / DDI / ERD Ratio:	89.826 ° / 6900.236 ft / 6.062 / 0.889	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' 2.06541", W 104° 9' 16.76434"	North Reference:	Grid North
Location Grid N/E Y/X:	N 363994.000 ftUS, E 596724.800 ftUS	Grid Convergence Used:	0.0947 °
CRS Grid Convergence Angle:	0.0947 °	Total Corr Mag North->Grid North:	7.5053 °
Grid Scale Factor:	0.9999126	Local Coord Referenced To:	Structure Reference Point

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)
SHL Cimarex Hornsby 35 Federal Com 11H	0.00	- 0.00	359.87	0.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	N/A
	100.00	0.00	359.87	100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	200.00	0.00	359.87	200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	300.00	0.00	359.87	300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	400.00	0.00	359.87	400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	500.00	0.00	359.87	500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	600.00	0.00	359.87	600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	700.00	0.00	359.87	700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	800.00	0.00	359.87	800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	900.00	0.00	359.87	900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1000.00	0.00	359.87	1000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1100.00	0.00	359.87	1100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1200.00	0.00	359.87	1200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1300.00	0.00	359.87	1300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1400.00	0.00	359.87	1400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1500.00	0.00	359.87	1500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1600.00	0.00	359.87	1600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1700.00	0.00	359.87	1700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1800.00	0.00	359.87	1800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	1900.00	0.00	359.87	1900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2000.00	0.00	359.87	2000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2100.00	0.00	359.87	2100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2200.00	0.00	359.87	2200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2300.00	0.00	359.87	2300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2400.00	0.00	359.87	2400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2500.00	0.00	359.87	2500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2600.00	0.00	359.87	2600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2700.00	0.00	359.87	2700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	2800.00	0.00	359.87	2800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	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 (ft/100ft)
	2900.00	0.00	359.87	2900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3000.00	0.00	359.87	3000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3100.00	0.00	359.87	3100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3200.00	0.00	359.87	3200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3300.00	0.00	359.87	3300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3400.00	0.00	359.87	3400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3500.00	0.00	359.87	3500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3600.00	0.00	359.87	3600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3700.00	0.00	359.87	3700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3800.00	0.00	359.87	3800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	3900.00	0.00	359.87	3900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4000.00	0.00	359.87	4000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4100.00	0.00	359.87	4100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4200.00	0.00	359.87	4200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4300.00	0.00	359.87	4300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4400.00	0.00	359.87	4400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4500.00	0.00	359.87	4500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4600.00	0.00	359.87	4600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4700.00	0.00	359.87	4700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4800.00	0.00	359.87	4800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	4900.00	0.00	359.87	4900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5000.00	0.00	359.87	5000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5100.00	0.00	359.87	5100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5200.00	0.00	359.87	5200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5300.00	0.00	359.87	5300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5400.00	0.00	359.87	5400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5500.00	0.00	359.87	5500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5600.00	0.00	359.87	5600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5700.00	0.00	359.87	5700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5800.00	0.00	359.87	5800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	5900.00	0.00	359.87	5900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6000.00	0.00	359.87	6000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6100.00	0.00	359.87	6100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6200.00	0.00	359.87	6200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6300.00	0.00	359.87	6300.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6400.00	0.00	359.87	6400.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6500.00	0.00	359.87	6500.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6600.00	0.00	359.87	6600.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6700.00	0.00	359.87	6700.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6800.00	0.00	359.87	6800.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	6900.00	0.00	359.87	6900.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	7000.00	0.00	359.87	7000.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	7100.00	0.00	359.87	7100.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	7200.00	0.00	359.87	7200.00	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
KOP - Build 12"/100ft DLS	7266.50	0.00	359.87	7266.50	0.00	0.00	0.00	363994.00	596724.80	N 32 0 2.07	W 104 9 16.76	0.00	0.00	0.00
	7300.00	4.02	359.87	7299.97	1.17	1.17	0.00	363995.17	596724.80	N 32 0 2.08	W 104 9 16.76	1.17	359.87	12.00
	7400.00	16.02	359.87	7398.27	18.54	18.54	-0.04	364012.54	596724.76	N 32 0 2.25	W 104 9 16.76	18.54	359.87	12.00
	7500.00	28.02	359.87	7490.80	55.96	55.96	-0.13	364049.96	596724.67	N 32 0 2.62	W 104 9 16.76	55.96	359.87	12.00
	7600.00	40.02	359.87	7573.54	111.80	111.80	-0.26	364105.79	596724.54	N 32 0 3.17	W 104 9 16.77	111.80	359.87	12.00
	7700.00	52.02	359.87	7642.86	183.63	183.63	-0.42	364177.61	596724.38	N 32 0 3.88	W 104 9 16.77	183.63	359.87	12.00
	7800.00	64.01	359.87	7695.73	268.29	268.29	-0.62	364262.27	596724.18	N 32 0 4.72	W 104 9 16.77	268.29	359.87	12.00
	7900.00	76.01	359.87	7729.85	362.10	362.10	-0.83	364356.06	596723.97	N 32 0 5.65	W 104 9 16.77	362.10	359.87	12.00
	8000.00	88.01	359.87	7743.72	460.95	460.95	-1.06	364454.90	596723.74	N 32 0 6.63	W 104 9 16.77	460.95	359.87	12.00
Landing point	8015.06	89.82	359.87	7744.00	476.00	476.00	-1.10	364469.96	596723.70	N 32 0 6.78	W 104 9 16.77	476.00	359.87	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 (%/100ft)
	8100.00	89.82	359.87	7744.27	560.94	560.94	-1.29	364554.89	596723.51	N 32 0 7.62	W 104 9 16.77	560.94	359.87	0.00
	8200.00	89.82	359.87	7744.58	660.94	660.94	-1.52	364654.88	596723.28	N 32 0 8.61	W 104 9 16.77	660.94	359.87	0.00
	8300.00	89.82	359.87	7744.89	760.94	760.94	-1.75	364754.87	596723.05	N 32 0 9.60	W 104 9 16.77	760.94	359.87	0.00
	8400.00	89.82	359.87	7745.21	860.94	860.94	-1.98	364854.86	596722.82	N 32 0 10.58	W 104 9 16.77	860.94	359.87	0.00
	8500.00	89.82	359.87	7745.52	960.94	960.94	-2.22	364954.85	596722.58	N 32 0 11.57	W 104 9 16.77	960.94	359.87	0.00
	8600.00	89.82	359.87	7745.84	1060.94	1060.94	-2.45	365054.84	596722.35	N 32 0 12.56	W 104 9 16.77	1060.94	359.87	0.00
	8700.00	89.82	359.87	7746.15	1160.94	1160.94	-2.68	365154.83	596722.12	N 32 0 13.55	W 104 9 16.77	1160.94	359.87	0.00
	8800.00	89.82	359.87	7746.46	1260.94	1260.94	-2.91	365254.82	596721.89	N 32 0 14.54	W 104 9 16.77	1260.94	359.87	0.00
	8900.00	89.82	359.87	7746.78	1360.94	1360.94	-3.14	365354.81	596721.66	N 32 0 15.53	W 104 9 16.77	1360.94	359.87	0.00
	9000.00	89.82	359.87	7747.09	1460.94	1460.93	-3.37	365454.80	596721.43	N 32 0 16.52	W 104 9 16.78	1460.94	359.87	0.00
	9100.00	89.82	359.87	7747.40	1560.94	1560.93	-3.60	365554.79	596721.20	N 32 0 17.51	W 104 9 16.78	1560.94	359.87	0.00
	9200.00	89.82	359.87	7747.72	1660.94	1660.93	-3.84	365654.78	596720.96	N 32 0 18.50	W 104 9 16.78	1660.94	359.87	0.00
	9300.00	89.82	359.87	7748.03	1760.94	1760.93	-4.07	365754.77	596720.73	N 32 0 19.49	W 104 9 16.78	1760.94	359.87	0.00
	9400.00	89.82	359.87	7748.34	1860.94	1860.93	-4.30	365854.77	596720.50	N 32 0 20.48	W 104 9 16.78	1860.94	359.87	0.00
	9500.00	89.82	359.87	7748.66	1960.94	1960.93	-4.53	365954.76	596720.27	N 32 0 21.47	W 104 9 16.78	1960.94	359.87	0.00
	9600.00	89.82	359.87	7748.97	2060.94	2060.93	-4.77	366054.75	596720.03	N 32 0 22.46	W 104 9 16.78	2060.94	359.87	0.00
	9700.00	89.82	359.87	7749.28	2160.94	2160.93	-5.00	366154.74	596719.80	N 32 0 23.45	W 104 9 16.78	2160.94	359.87	0.00
	9800.00	89.82	359.87	7749.59	2260.93	2260.93	-5.23	366254.73	596719.57	N 32 0 24.44	W 104 9 16.78	2260.93	359.87	0.00
	9900.00	89.82	359.87	7749.91	2360.93	2360.93	-5.47	366354.72	596719.34	N 32 0 25.43	W 104 9 16.78	2360.93	359.87	0.00
	10000.00	89.82	359.87	7750.22	2460.93	2460.93	-5.70	366454.71	596719.10	N 32 0 26.42	W 104 9 16.78	2460.93	359.87	0.00
	10100.00	89.82	359.87	7750.53	2560.93	2560.93	-5.93	366554.70	596718.87	N 32 0 27.41	W 104 9 16.78	2560.93	359.87	0.00
	10200.00	89.82	359.87	7750.84	2660.93	2660.93	-6.17	366654.69	596718.63	N 32 0 28.40	W 104 9 16.78	2660.93	359.87	0.00
	10300.00	89.82	359.87	7751.16	2760.93	2760.92	-6.40	366754.68	596718.40	N 32 0 29.39	W 104 9 16.79	2760.93	359.87	0.00
	10400.00	89.82	359.87	7751.47	2860.93	2860.92	-6.63	366854.67	596718.17	N 32 0 30.38	W 104 9 16.79	2860.93	359.87	0.00
	10500.00	89.82	359.87	7751.78	2960.93	2960.92	-6.87	366954.66	596717.93	N 32 0 31.37	W 104 9 16.79	2960.93	359.87	0.00
	10600.00	89.82	359.87	7752.09	3060.93	3060.92	-7.10	367054.65	596717.70	N 32 0 32.35	W 104 9 16.79	3060.93	359.87	0.00
	10700.00	89.82	359.87	7752.40	3160.93	3160.92	-7.34	367154.64	596717.47	N 32 0 33.34	W 104 9 16.79	3160.93	359.87	0.00
	10800.00	89.82	359.87	7752.71	3260.93	3260.92	-7.57	367254.63	596717.23	N 32 0 34.33	W 104 9 16.79	3260.93	359.87	0.00
	10900.00	89.82	359.87	7753.03	3360.93	3360.92	-7.80	367354.62	596717.00	N 32 0 35.32	W 104 9 16.79	3360.93	359.87	0.00
	11000.00	89.82	359.87	7753.34	3460.93	3460.92	-8.04	367454.61	596716.76	N 32 0 36.31	W 104 9 16.79	3460.93	359.87	0.00
	11100.00	89.82	359.87	7753.65	3560.93	3560.92	-8.27	367554.60	596716.53	N 32 0 37.30	W 104 9 16.79	3560.93	359.87	0.00
	11200.00	89.82	359.87	7753.96	3660.93	3660.92	-8.51	367654.59	596716.29	N 32 0 38.29	W 104 9 16.79	3660.93	359.87	0.00
	11300.00	89.82	359.87	7754.27	3760.93	3760.92	-8.74	367754.58	596716.06	N 32 0 39.28	W 104 9 16.79	3760.93	359.87	0.00
	11400.00	89.82	359.87	7754.58	3860.93	3860.92	-8.98	367854.57	596715.82	N 32 0 40.27	W 104 9 16.79	3860.93	359.87	0.00
	11500.00	89.82	359.87	7754.89	3960.93	3960.92	-9.21	367954.56	596715.59	N 32 0 41.26	W 104 9 16.80	3960.93	359.87	0.00
	11600.00	89.82	359.86	7755.21	4060.93	4060.91	-9.45	368054.55	596715.35	N 32 0 42.25	W 104 9 16.80	4060.93	359.87	0.00
	11700.00	89.82	359.86	7755.52	4160.93	4160.91	-9.69	368154.54	596715.11	N 32 0 43.24	W 104 9 16.80	4160.93	359.87	0.00
	11800.00	89.82	359.86	7755.83	4260.92	4260.91	-9.92	368254.53	596714.88	N 32 0 44.23	W 104 9 16.80	4260.92	359.87	0.00
	11900.00	89.82	359.86	7756.14	4360.92	4360.91	-10.16	368354.52	596714.64	N 32 0 45.22	W 104 9 16.80	4360.92	359.87	0.00
	12000.00	89.82	359.86	7756.45	4460.92	4460.91	-10.39	368454.51	596714.41	N 32 0 46.21	W 104 9 16.80	4460.92	359.87	0.00
	12100.00	89.82	359.86	7756.76	4560.92	4560.91	-10.63	368554.50	596714.17	N 32 0 47.20	W 104 9 16.80	4560.92	359.87	0.00
	12200.00	89.82	359.86	7757.07	4660.92	4660.91	-10.87	368654.49	596713.93	N 32 0 48.19	W 104 9 16.80	4660.92	359.87	0.00
	12300.00	89.82	359.86	7757.38	4760.92	4760.91	-11.10	368754.48	596713.70	N 32 0 49.18	W 104 9 16.80	4760.92	359.87	0.00
	12400.00	89.82	359.86	7757.69	4860.92	4860.91	-11.34	368854.47	596713.46	N 32 0 50.17	W 104 9 16.80	4860.92	359.87	0.00
	12500.00	89.82	359.86	7758.00	4960.92	4960.91	-11.58	368954.46	596713.22	N 32 0 51.16	W 104 9 16.80	4960.92	359.87	0.00
	12600.00	89.82	359.86	7758.31	5060.92	5060.91	-11.81	369054.45	596712.99	N 32 0 52.15	W 104 9 16.80	5060.92	359.87	0.00
	12700.00	89.82	359.86	7758.62	5160.92	5160.91	-12.05	369154.45	596712.75	N 32 0 53.14	W 104 9 16.81	5160.92	359.87	0.00
	12800.00	89.82	359.86	7758.93	5260.92	5260.91	-12.29	369254.44	596712.51	N 32 0 54.12	W 104 9 16.81	5260.92	359.87	0.00
	12900.00	89.82	359.86	7759.24	5360.92	5360.90	-12.53	369354.43	596712.27	N 32 0 55.11	W 104 9 16.81	5360.92	359.87	0.00
	13000.00	89.82	359.86	7759.55	5460.92	5460.90	-12.76	369454.42	596712.04	N 32 0 56.10	W 104 9 16.81	5460.92	359.87	0.00
	13100.00	89.82	359.86	7759.86	5560.92	5560.90	-13.00	369554.41	596711.80	N 32 0 57.09	W 104 9 16.81	5560.92	359.87	0.00
	13200.00	89.82	359.86	7760.17	5660.92	5660.90	-13.24	369654.40	596711.56	N 32 0 58.08	W 104 9 16.81	5660.92	359.87	0.00
	13300.00	89.82	359.86	7760.48	5760.92	5760.90	-13.48	369754.39	596711.32	N 32 0 59.07	W 104 9 16.81	5760.92	359.87	0.00
	13400.00	89.82	359.86	7760.79	5860.92	5860.90	-13.72	369854.38	596711.08	N 32 1 0 06	W 104 9 16.81	5860.92	359.87	0.00
	13500.00	89.82	359.86	7761.10	5960.92	5960.90	-13.95	369954.37	596710.85	N 32 1 0 05	W 104 9 16.81	5960.92	359.87	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	359.86	7761.41	6060.92	6060.90	-14.19	370054.36	596710.61	N 32 1 2.04	W 104 9 16.81	6060.92	359.87	0.00
	13700.00	89.82	359.86	7761.72	6160.92	6160.90	-14.43	370154.35	596710.37	N 32 1 3.03	W 104 9 16.81	6160.92	359.87	0.00
	13800.00	89.82	359.86	7762.03	6260.92	6260.90	-14.67	370254.34	596710.13	N 32 1 4.02	W 104 9 16.81	6260.92	359.87	0.00
	13900.00	89.82	359.86	7762.34	6360.91	6360.90	-14.91	370354.33	596709.89	N 32 1 5.01	W 104 9 16.82	6360.91	359.87	0.00
	14000.00	89.82	359.86	7762.64	6460.91	6460.90	-15.15	370454.32	596709.65	N 32 1 6.00	W 104 9 16.82	6460.91	359.87	0.00
	14100.00	89.82	359.86	7762.95	6560.91	6560.90	-15.39	370554.31	596709.41	N 32 1 6.99	W 104 9 16.82	6560.91	359.87	0.00
	14200.00	89.82	359.86	7763.26	6660.91	6660.90	-15.63	370654.30	596709.17	N 32 1 7.98	W 104 9 16.82	6660.91	359.87	0.00
	14300.00	89.82	359.86	7763.57	6760.91	6760.89	-15.87	370754.29	596708.93	N 32 1 8.97	W 104 9 16.82	6760.91	359.87	0.00
	14400.00	89.82	359.86	7763.88	6860.91	6860.89	-16.11	370854.28	596708.69	N 32 1 9.96	W 104 9 16.82	6860.91	359.87	0.00
Cimarex Hornsby 35 Federal Com 11H PBHL	14439.32	89.82	359.86	7764.00	6900.24	6900.22	-16.20	370893.60	596708.60	N 32 1 10.35	W 104 9 16.82	6900.24	359.87	0.00

Survey Type: Non-Def Plan

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

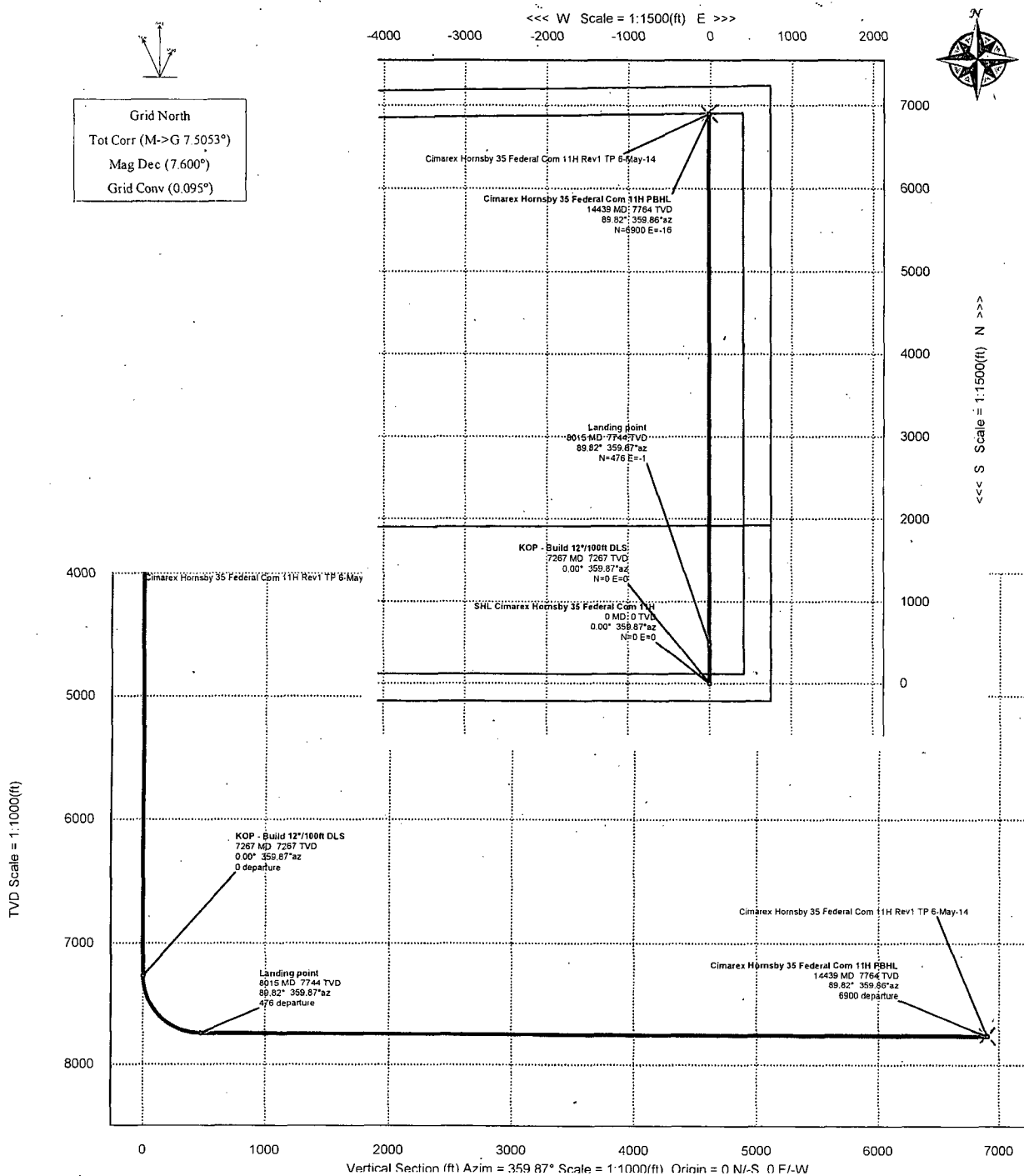
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14439.324	1/100.000	30.000	30.000	SLB_MWD-STD	Cimarex Hornsby 35 Federal Com 11H / Cimarex Hornsby 35



Cimarex

PATHFINDER
A Schlumberger Company

WELL				FIELD				STRUCTURE			
Cimarex Hornsby 35 Federal Com				11NM Eddy County (NAD 83)				Cimarex Hornsby 35 Federal C			
Magnetic Parameters				Surface Location				Miscellaneous			
Model	800M 2013	Dip	59.787	Date	May 06, 2014	Lat	N 32 0 2.065	Slot	Cimarex Hornsby 35 Federal EXH-RH	Ground level (3228 ft above)	
		Mag Dec	7.600	FS	42095 INT	Lon	W 104 9 16.764	Plan	Cimarex Hornsby 35 Federal Exp 04H Rev 04H 6/14/2014		
				Northing				Ground level (3228 ft above)			
				Easting							
				Scale Factor							



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Cimarex Hornsby 35 Federal Com 11H	0.00	0.00	359.87	0.00	0.00	0.00	0.00	
KOP - Build 12°/100ft DLS	7266.50	0.00	359.87	7266.50	0.00	0.00	0.00	0.00
Landing point	8015.06	89.82	359.87	7744.00	476.00	476.00	-1.10	12.00
Cimarex Hornsby 35 Federal Com 11H PBHL	14439.32	89.82	359.86	7764.00	6900.24	6900.22	-16.20	0.00