

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
Hobbs

MAY 12 2014

RECEIVED

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. NMNM129266
2. Name of Operator CIMAREX ENERGY COMPANY OF CO		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-620-1964		8. Well Name and No. LYNCH 35 FEDERAL COM 3H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T20S R34E NENW 0350FSL 2580FWL 32.320967 N Lat, 103.315720 W Lon		9. API Well No. 30-025-41644-00-X1
		10. Field and Pool, or Exploratory BERRY
		11. County or Parish, and State LEA COUNTY, NM

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:

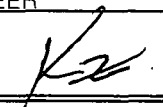
BHL move,

Approved:
BHL 330' FNL & 1980' FWL
KOP 10772'
EOC 11517
MD 15681
TVD 11300

Proposed:

14. I hereby certify that the foregoing is true and correct. Electronic Submission #244183 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 05/02/2014 (14CRW0166SE)	
Name (Printed/Typed) DEYSI FAVELA	Title DRILLING TECHNICIAN
Signature (Electronic Submission)	Date 05/02/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/02/2014</u>
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 Hobbs 

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 ****

MAY 14 2014

Additional data for EC transaction #244183 that would not fit on the form

32. Additional remarks, continued

KOP 10928'
EOC 11693'
MD 15786'
TVD 11250'

From just below the 9-5/8" casing at 5700', the well shall be nudged to the west, building at 1.5 deg DLS to 7 deg. Hold that tangent to 10,300' MD / 10,270' TVD where the inclination will be reduced at 1 deg DLS to vertical at 10,928' MD / 10,898' TVD. Thereupon the curve will be built to the north, at the normal build rate of 12 deg/100', landing in the 3rd Bone Spring C at 11,375' TVD, and the lateral will be drilled at an azimuth of 359.6 deg and inclination of 91.8 deg to TD of 4616' VS.

HOBBS OCD

MAY 12 2014

DISTRICT I

1025 N. French Dr., Hobbs, NM 88240
Phone (505) 523-8181 Fax: (505) 523-0720

DISTRICT II

911 S. First St., Artesia, NM 88210
Phone (505) 748-1525 Fax: (505) 748-0720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-0170 Fax: (505) 334-8170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised August 1, 2011Submit one copy to appropriate
District Office

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OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41644	Pool Code	Pool Name Berry; Bone Spring, North
Property Code	Property Name LYNCH 35 FEDERAL	Well Number 3H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3803'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	20 S	34 E		350	SOUTH	2580	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
C	35	20 S	34 E		340	NORTH	2050	WEST	LEA
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

N: 559947.0 E: 785976.3 (NAD-83) 2050' NM002127A N: 557346.7 E: 785993.3 (NAD-83) 2580' N: 554670.3 E: 786013.0 (NAD-83)	N: 559968.0 E: 786021.4 (NAD-83) 340' B.H. 4635.6' 350' S.L. N: 554689.1 E: 786059.0 (NAD-83)	N: 559985.5 E: 791288.2 (NAD-83) N: 557348.7 E: 791285.8 (NAD-83) N: 554707.8 E: 791205.0 (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. <i>Deysi Favela</i> 5/1/2014 Signature Date Deysi Favela Printed Name dfavela@cimarex.com Email Address 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: <i>August 22, 2013</i> Signature: <i>[Signature]</i> Professional Surveyor Certification No. <i>29329</i> L. Jones 7977 Basin Surveys 29329
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Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-14 Proposal Report
(Non-Def Plan)



Report Date: April 22, 2014 - 03:51 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Lynch 35 Federal #3H / Lynch 35 Federal #3H
Well: Lynch 35 Federal #3H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-14
Survey Date: April 22, 2014
Tort / AHD / DDI / ERD Ratio: 105.703 ° / 5110.631 ft / 5.875 / 0.449
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 31' 23.89008", W 103° 31' 52.08975"
Location Grid N/E Y/X: N 555038.900 ftUS, E 788589.800 ftUS
CRS Grid Convergence Angle: 0.4313 °
Grid Scale Factor: 0.9999791

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 353.017 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3828.000 ft above MSL
Seabed / Ground Elevation: 3803.000 ft above MSL
Magnetic Declination: 7.352 °
Total Field Strength: 48492.705 nT
Magnetic Dip Angle: 60.387 °
Declination Date: April 22, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4313 °
Total Corr Mag North->Grid North: 6.9209 °
Local Coord Referenced To: Structure Reference Point

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Tie-In	0.00	0.00	270.00	0.00	-3828.00	0.00	0.00	0.00	N/A	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	100.00	0.00	270.00	100.00	-3728.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	200.00	0.00	270.00	200.00	-3628.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	300.00	0.00	270.00	300.00	-3528.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	400.00	0.00	270.00	400.00	-3428.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	500.00	0.00	270.00	500.00	-3328.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	600.00	0.00	270.00	600.00	-3228.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	700.00	0.00	270.00	700.00	-3128.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	800.00	0.00	270.00	800.00	-3028.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	900.00	0.00	270.00	900.00	-2928.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1000.00	0.00	270.00	1000.00	-2828.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1100.00	0.00	270.00	1100.00	-2728.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1200.00	0.00	270.00	1200.00	-2628.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1300.00	0.00	270.00	1300.00	-2528.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1400.00	0.00	270.00	1400.00	-2428.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1500.00	0.00	270.00	1500.00	-2328.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1600.00	0.00	270.00	1600.00	-2228.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1700.00	0.00	270.00	1700.00	-2128.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1800.00	0.00	270.00	1800.00	-2028.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	1900.00	0.00	270.00	1900.00	-1928.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2000.00	0.00	270.00	2000.00	-1828.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2100.00	0.00	270.00	2100.00	-1728.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2200.00	0.00	270.00	2200.00	-1628.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2300.00	0.00	270.00	2300.00	-1528.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2400.00	0.00	270.00	2400.00	-1428.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2500.00	0.00	270.00	2500.00	-1328.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2600.00	0.00	270.00	2600.00	-1228.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2700.00	0.00	270.00	2700.00	-1128.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2800.00	0.00	270.00	2800.00	-1028.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	2900.00	0.00	270.00	2900.00	-928.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	3000.00	0.00	270.00	3000.00	-828.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3100.00	0.00	270.00	3100.00	-728.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3200.00	0.00	270.00	3200.00	-628.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3300.00	0.00	270.00	3300.00	-528.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3400.00	0.00	270.00	3400.00	-428.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3500.00	0.00	270.00	3500.00	-328.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3600.00	0.00	270.00	3600.00	-228.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3700.00	0.00	270.00	3700.00	-128.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3800.00	0.00	270.00	3800.00	-28.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	3900.00	0.00	270.00	3900.00	72.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4000.00	0.00	270.00	4000.00	172.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4100.00	0.00	270.00	4100.00	272.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4200.00	0.00	270.00	4200.00	372.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4300.00	0.00	270.00	4300.00	472.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4400.00	0.00	270.00	4400.00	572.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4500.00	0.00	270.00	4500.00	672.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4600.00	0.00	270.00	4600.00	772.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4700.00	0.00	270.00	4700.00	872.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4800.00	0.00	270.00	4800.00	972.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	4900.00	0.00	270.00	4900.00	1072.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5000.00	0.00	270.00	5000.00	1172.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5100.00	0.00	270.00	5100.00	1272.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5200.00	0.00	270.00	5200.00	1372.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5300.00	0.00	270.00	5300.00	1472.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5400.00	0.00	270.00	5400.00	1572.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
9 5/8 Casing Point	5480.00	0.00	270.00	5480.00	1652.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5500.00	0.00	270.00	5500.00	1672.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5600.00	0.00	270.00	5600.00	1772.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5700.00	0.00	270.00	5700.00	1872.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	5800.00	0.00	270.00	5800.00	1972.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
Nudge 1.5" DLS	5900.00	0.00	270.00	5900.00	2072.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	6000.00	0.00	270.00	6000.00	2172.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
	6100.00	1.50	270.00	6099.99	2271.99	0.16	0.00	-1.31	1.50	555038.90	788588.49	N 32 31 23.89	W 103 31 52.11
	6200.00	3.00	270.00	6199.91	2371.91	0.64	0.00	-5.23	1.50	555038.90	788584.57	N 32 31 23.89	W 103 31 52.15
	6300.00	4.50	270.00	6299.69	2471.69	1.43	0.00	-11.77	1.50	555038.90	788578.03	N 32 31 23.89	W 103 31 52.23
Hold Inc.	6400.00	6.00	270.00	6399.27	2571.27	2.54	0.00	-20.92	1.50	555038.90	788568.88	N 32 31 23.89	W 103 31 52.33
	6465.09	6.98	270.00	6463.94	2635.94	3.44	0.00	-28.28	1.50	555038.90	788561.52	N 32 31 23.89	W 103 31 52.42
	6500.00	6.98	270.00	6498.59	2670.59	3.95	0.00	-32.52	0.00	555038.90	788557.28	N 32 31 23.89	W 103 31 52.47
	6600.00	6.98	270.00	6597.85	2769.85	5.43	0.00	-44.67	0.00	555038.90	788545.14	N 32 31 23.89	W 103 31 52.61
	6700.00	6.98	270.00	6697.11	2869.11	6.91	0.00	-56.81	0.00	555038.90	788532.99	N 32 31 23.89	W 103 31 52.75
	6800.00	6.98	270.00	6796.37	2968.37	8.38	0.00	-68.96	0.00	555038.90	788520.84	N 32 31 23.90	W 103 31 52.90
	6900.00	6.98	270.00	6895.63	3067.63	9.86	0.00	-81.10	0.00	555038.90	788508.70	N 32 31 23.90	W 103 31 53.04
	7000.00	6.98	270.00	6994.89	3166.89	11.34	0.00	-93.25	0.00	555038.90	788496.55	N 32 31 23.90	W 103 31 53.18
	7100.00	6.98	270.00	7094.15	3266.15	12.81	0.00	-105.40	0.00	555038.90	788484.41	N 32 31 23.90	W 103 31 53.32
	7200.00	6.98	270.00	7193.41	3365.41	14.29	0.00	-117.54	0.00	555038.90	788472.26	N 32 31 23.90	W 103 31 53.46
	7300.00	6.98	270.00	7292.67	3464.67	15.77	0.00	-129.69	0.00	555038.90	788460.11	N 32 31 23.90	W 103 31 53.60
	7400.00	6.98	270.00	7391.93	3563.93	17.24	0.00	-141.83	0.00	555038.90	788447.97	N 32 31 23.90	W 103 31 53.75
	7500.00	6.98	270.00	7491.19	3663.19	18.72	0.00	-153.98	0.00	555038.90	788435.82	N 32 31 23.90	W 103 31 53.89
	7600.00	6.98	270.00	7590.45	3762.45	20.20	0.00	-166.13	0.00	555038.90	788423.68	N 32 31 23.90	W 103 31 54.03
	7700.00	6.98	270.00	7689.71	3861.71	21.67	0.00	-178.27	0.00	555038.90	788411.53	N 32 31 23.90	W 103 31 54.17
	7800.00	6.98	270.00	7788.97	3960.97	23.15	0.00	-190.42	0.00	555038.90	788399.39	N 32 31 23.90	W 103 31 54.31
	7900.00	6.98	270.00	7888.23	4060.23	24.63	0.00	-202.56	0.00	555038.90	788387.24	N 32 31 23.91	W 103 31 54.46
	8000.00	6.98	270.00	7987.49	4159.49	26.10	0.00	-214.71	0.00	555038.90	788375.09	N 32 31 23.91	W 103 31 54.60

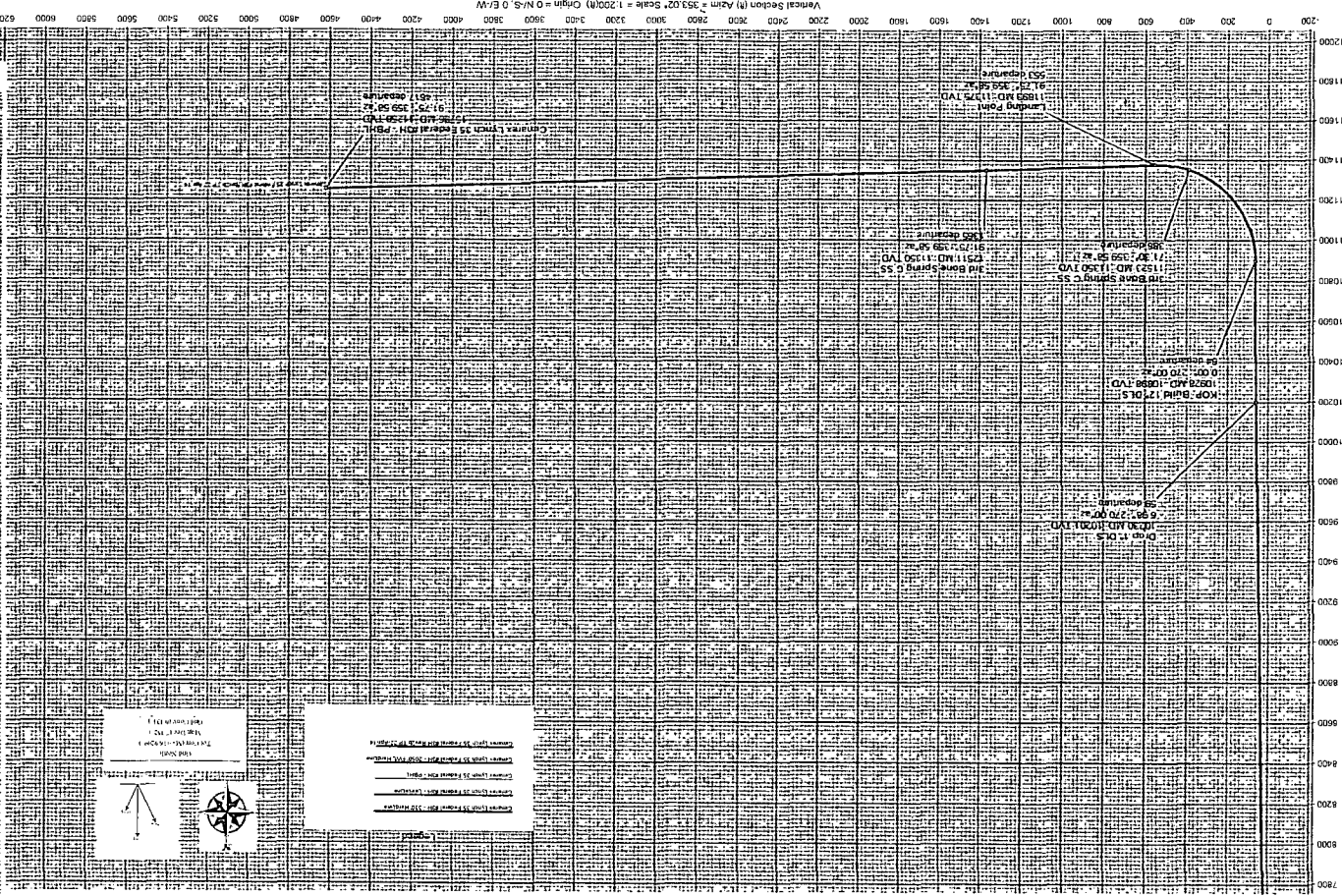
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8100.00	6.98	270.00	8086.75	4258.75	27.58	0.00	-226.86	0.00	555038.90	788362.95	N 32 31 23.91	W 103 31 54.74
	8200.00	6.98	270.00	8186.01	4358.01	29.06	0.00	-239.00	0.00	555038.90	788350.80	N 32 31 23.91	W 103 31 54.88
	8300.00	6.98	270.00	8285.27	4457.27	30.53	0.00	-251.15	0.00	555038.90	788338.66	N 32 31 23.91	W 103 31 55.02
	8400.00	6.98	270.00	8384.53	4556.53	32.01	0.00	-263.29	0.00	555038.90	788326.51	N 32 31 23.91	W 103 31 55.16
	8500.00	6.98	270.00	8483.79	4655.79	33.49	0.00	-275.44	0.00	555038.90	788314.37	N 32 31 23.91	W 103 31 55.31
	8600.00	6.98	270.00	8583.05	4755.05	34.96	0.00	-287.59	0.00	555038.90	788302.22	N 32 31 23.91	W 103 31 55.45
	8700.00	6.98	270.00	8682.31	4854.31	36.44	0.00	-299.73	0.00	555038.90	788290.07	N 32 31 23.91	W 103 31 55.59
	8800.00	6.98	270.00	8781.56	4953.56	37.92	0.00	-311.88	0.00	555038.90	788277.93	N 32 31 23.91	W 103 31 55.73
	8900.00	6.98	270.00	8880.82	5052.82	39.39	0.00	-324.02	0.00	555038.90	788265.78	N 32 31 23.91	W 103 31 55.87
	9000.00	6.98	270.00	8980.08	5152.08	40.87	0.00	-336.17	0.00	555038.90	788253.64	N 32 31 23.92	W 103 31 56.02
	9100.00	6.98	270.00	9079.34	5251.34	42.35	0.00	-348.32	0.00	555038.90	788241.49	N 32 31 23.92	W 103 31 56.16
	9200.00	6.98	270.00	9178.60	5350.60	43.82	0.00	-360.46	0.00	555038.90	788229.35	N 32 31 23.92	W 103 31 56.30
	9300.00	6.98	270.00	9277.86	5449.86	45.30	0.00	-372.61	0.00	555038.90	788217.20	N 32 31 23.92	W 103 31 56.44
	9400.00	6.98	270.00	9377.12	5549.12	46.78	0.00	-384.75	0.00	555038.90	788205.05	N 32 31 23.92	W 103 31 56.58
	9500.00	6.98	270.00	9476.38	5648.38	48.25	0.00	-396.90	0.00	555038.90	788192.91	N 32 31 23.92	W 103 31 56.73
	9600.00	6.98	270.00	9575.64	5747.64	49.73	0.00	-409.05	0.00	555038.90	788180.76	N 32 31 23.92	W 103 31 56.87
	9700.00	6.98	270.00	9674.90	5846.90	51.21	0.00	-421.19	0.00	555038.90	788168.62	N 32 31 23.92	W 103 31 57.01
	9800.00	6.98	270.00	9774.16	5946.16	52.68	0.00	-433.34	0.00	555038.90	788156.47	N 32 31 23.92	W 103 31 57.15
	9900.00	6.98	270.00	9873.42	6045.42	54.16	0.00	-445.48	0.00	555038.90	788144.33	N 32 31 23.92	W 103 31 57.29
	10000.00	6.98	270.00	9972.68	6144.68	55.64	0.00	-457.63	0.00	555038.90	788132.18	N 32 31 23.92	W 103 31 57.43
	10100.00	6.98	270.00	10071.94	6243.94	57.11	0.00	-469.78	0.00	555038.90	788120.03	N 32 31 23.93	W 103 31 57.58
	10200.00	6.98	270.00	10171.20	6343.20	58.59	0.00	-481.92	0.00	555038.90	788107.89	N 32 31 23.93	W 103 31 57.72
Drop 1° DLS	10230.11	6.98	270.00	10201.08	6373.08	59.04	0.00	-485.58	0.00	555038.90	788104.23	N 32 31 23.93	W 103 31 57.76
	10300.00	6.28	270.00	10270.51	6442.51	60.02	0.00	-493.65	1.00	555038.90	788096.17	N 32 31 23.93	W 103 31 57.85
	10400.00	5.28	270.00	10370.00	6542.00	61.24	0.00	-503.71	1.00	555038.90	788086.10	N 32 31 23.93	W 103 31 57.97
	10500.00	4.28	270.00	10469.65	6641.65	62.25	0.00	-512.04	1.00	555038.90	788077.77	N 32 31 23.93	W 103 31 58.07
	10600.00	3.28	270.00	10569.43	6741.43	63.05	0.00	-518.63	1.00	555038.90	788071.18	N 32 31 23.93	W 103 31 58.15
	10700.00	2.28	270.00	10669.31	6841.31	63.64	0.00	-523.47	1.00	555038.90	788066.34	N 32 31 23.93	W 103 31 58.20
	10800.00	1.28	270.00	10769.26	6941.26	64.02	0.00	-526.58	1.00	555038.90	788063.24	N 32 31 23.93	W 103 31 58.24
	10900.00	0.28	270.00	10869.25	7041.25	64.19	0.00	-527.93	1.00	555038.90	788061.88	N 32 31 23.93	W 103 31 58.26
	10927.75	0.00	270.00	10897.00	7069.00	64.19	0.00	-528.00	1.00	555038.90	788061.81	N 32 31 23.93	W 103 31 58.26
KOP, Build 12° DLS	10928.48	0.00	270.00	10897.74	7069.74	64.19	0.00	-528.00	0.00	555038.90	788061.81	N 32 31 23.93	W 103 31 58.26
	11000.00	8.58	359.58	10968.99	7140.99	69.50	5.35	-528.04	12.00	555044.25	788061.77	N 32 31 23.98	W 103 31 58.26
	11100.00	20.58	359.58	11065.59	7237.59	94.47	30.48	-528.22	12.00	555069.38	788061.59	N 32 31 24.23	W 103 31 58.26
	11200.00	32.58	359.58	11154.85	7326.85	138.84	75.14	-528.55	12.00	555114.04	788061.27	N 32 31 24.67	W 103 31 58.26
	11300.00	44.58	359.58	11232.88	7404.88	200.68	137.39	-529.00	12.00	555176.29	788060.81	N 32 31 25.29	W 103 31 58.26
	11400.00	56.58	359.58	11296.26	7468.26	277.29	214.50	-529.56	12.00	555253.39	788060.25	N 32 31 26.05	W 103 31 58.26
	11500.00	68.58	359.58	11342.23	7514.23	365.32	303.10	-530.20	12.00	555342.00	788059.61	N 32 31 26.93	W 103 31 58.26
3rd Bone Spring C SS	11522.66	71.30	359.58	11350.00	7522.00	386.46	324.39	-530.36	12.00	555363.28	788059.45	N 32 31 27.14	W 103 31 58.26
	11600.00	80.58	359.58	11368.77	7540.77	460.91	399.32	-530.90	12.00	555438.22	788058.91	N 32 31 27.88	W 103 31 58.25
Landing Point	11693.07	91.75	359.58	11374.98	7546.98	553.01	492.03	-531.58	12.00	555530.92	788058.24	N 32 31 28.80	W 103 31 58.25
	11700.00	91.75	359.58	11374.77	7546.77	559.90	498.96	-531.63	0.00	555537.85	788058.19	N 32 31 28.87	W 103 31 58.25
	11800.00	91.75	359.58	11371.71	7543.71	659.19	598.91	-532.35	0.00	555637.80	788057.46	N 32 31 29.86	W 103 31 58.25
	11900.00	91.75	359.58	11368.66	7540.66	758.49	698.87	-533.08	0.00	555737.75	788056.73	N 32 31 30.84	W 103 31 58.25
	12000.00	91.75	359.58	11365.61	7537.61	857.79	798.82	-533.80	0.00	555837.70	788056.01	N 32 31 31.83	W 103 31 58.25
	12100.00	91.75	359.58	11362.55	7534.55	957.09	898.77	-534.53	0.00	555937.65	788055.28	N 32 31 32.82	W 103 31 58.25
	12200.00	91.75	359.58	11359.50	7531.50	1056.38	998.72	-535.26	0.00	556037.59	788054.55	N 32 31 33.81	W 103 31 58.25
	12300.00	91.75	359.58	11356.44	7528.44	1155.68	1098.67	-535.98	0.00	556137.54	788053.83	N 32 31 34.80	W 103 31 58.25
	12400.00	91.75	359.58	11353.39	7525.39	1254.98	1198.62	-536.71	0.00	556237.49	788053.10	N 32 31 35.79	W 103 31 58.25
	12500.00	91.75	359.58	11350.34	7522.34	1354.28	1298.57	-537.44	0.00	556337.44	788052.38	N 32 31 36.78	W 103 31 58.25

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
3rd Bone Spring C SS	12511.01	91.75	359.58	11350.00	7522.00	1365.21	1309.57	-537.52	0.00	556348.44	788052.30	N 32 31 36.89	W 103 31 58.25
	12600.00	91.75	359.58	11347.28	7519.28	1453.57	1398.52	-538.16	0.00	556437.39	788051.65	N 32 31 37.77	W 103 31 58.25
	12700.00	91.75	359.58	11344.23	7516.23	1552.87	1498.47	-538.89	0.00	556537.34	788050.92	N 32 31 38.76	W 103 31 58.25
	12800.00	91.75	359.58	11341.17	7513.17	1652.17	1598.42	-539.62	0.00	556637.28	788050.20	N 32 31 39.75	W 103 31 58.25
	12900.00	91.75	359.58	11338.12	7510.12	1751.47	1698.37	-540.34	0.00	556737.23	788049.47	N 32 31 40.73	W 103 31 58.25
	13000.00	91.75	359.58	11335.07	7507.07	1850.77	1798.32	-541.07	0.00	556837.18	788048.74	N 32 31 41.72	W 103 31 58.25
	13100.00	91.75	359.58	11332.01	7504.01	1950.06	1898.27	-541.79	0.00	556937.13	788048.02	N 32 31 42.71	W 103 31 58.25
	13200.00	91.75	359.58	11328.96	7500.96	2049.36	1998.22	-542.52	0.00	557037.08	788047.29	N 32 31 43.70	W 103 31 58.25
	13300.00	91.75	359.58	11325.91	7497.91	2148.66	2098.18	-543.25	0.00	557137.03	788046.57	N 32 31 44.69	W 103 31 58.25
	13400.00	91.75	359.58	11322.85	7494.85	2247.96	2198.13	-543.97	0.00	557236.98	788045.84	N 32 31 45.68	W 103 31 58.25
	13500.00	91.75	359.58	11319.80	7491.80	2347.25	2298.08	-544.70	0.00	557336.92	788045.11	N 32 31 46.67	W 103 31 58.25
	13600.00	91.75	359.58	11316.74	7488.74	2446.55	2398.03	-545.43	0.00	557436.87	788044.39	N 32 31 47.66	W 103 31 58.25
	13700.00	91.75	359.58	11313.69	7485.69	2545.85	2497.98	-546.15	0.00	557536.82	788043.66	N 32 31 48.65	W 103 31 58.25
	13800.00	91.75	359.58	11310.64	7482.64	2645.15	2597.93	-546.88	0.00	557636.77	788042.93	N 32 31 49.64	W 103 31 58.25
	13900.00	91.75	359.58	11307.58	7479.58	2744.44	2697.88	-547.60	0.00	557736.72	788042.21	N 32 31 50.62	W 103 31 58.25
	14000.00	91.75	359.58	11304.53	7476.53	2843.74	2797.83	-548.33	0.00	557836.67	788041.48	N 32 31 51.61	W 103 31 58.25
	14100.00	91.75	359.58	11301.47	7473.47	2943.04	2897.78	-549.06	0.00	557936.61	788040.76	N 32 31 52.60	W 103 31 58.25
	14200.00	91.75	359.58	11298.42	7470.42	3042.34	2997.73	-549.78	0.00	558036.56	788040.03	N 32 31 53.59	W 103 31 58.25
	14300.00	91.75	359.58	11295.37	7467.37	3141.63	3097.68	-550.51	0.00	558136.51	788039.30	N 32 31 54.58	W 103 31 58.25
	14400.00	91.75	359.58	11292.31	7464.31	3240.93	3197.63	-551.24	0.00	558236.46	788038.58	N 32 31 55.57	W 103 31 58.25
	14500.00	91.75	359.58	11289.26	7461.26	3340.23	3297.58	-551.96	0.00	558336.41	788037.85	N 32 31 56.56	W 103 31 58.25
	14600.00	91.75	359.58	11286.21	7458.21	3439.53	3397.53	-552.69	0.00	558436.36	788037.12	N 32 31 57.55	W 103 31 58.25
	14700.00	91.75	359.58	11283.15	7455.15	3538.82	3497.49	-553.42	0.00	558536.31	788036.40	N 32 31 58.54	W 103 31 58.25
	14800.00	91.75	359.58	11280.10	7452.10	3638.12	3597.44	-554.14	0.00	558636.25	788035.67	N 32 31 59.53	W 103 31 58.25
	14900.00	91.75	359.58	11277.04	7449.04	3737.42	3697.39	-554.87	0.00	558736.20	788034.94	N 32 32 0.51	W 103 31 58.25
	15000.00	91.75	359.58	11273.99	7445.99	3836.72	3797.34	-555.59	0.00	558836.15	788034.22	N 32 32 1.50	W 103 31 58.25
	15100.00	91.75	359.58	11270.94	7442.94	3936.01	3897.29	-556.32	0.00	558936.10	788033.49	N 32 32 2.49	W 103 31 58.24
	15200.00	91.75	359.58	11267.88	7439.88	4035.31	3997.24	-557.05	0.00	559036.05	788032.77	N 32 32 3.48	W 103 31 58.24
	15300.00	91.75	359.58	11264.83	7436.83	4134.61	4097.19	-557.77	0.00	559136.00	788032.04	N 32 32 4.47	W 103 31 58.24
	15400.00	91.75	359.58	11261.77	7433.77	4233.91	4197.14	-558.50	0.00	559235.94	788031.31	N 32 32 5.46	W 103 31 58.24
	15500.00	91.75	359.58	11258.72	7430.72	4333.20	4297.09	-559.23	0.00	559335.89	788030.59	N 32 32 6.45	W 103 31 58.24
	15600.00	91.75	359.58	11255.67	7427.67	4432.50	4397.04	-559.95	0.00	559435.84	788029.86	N 32 32 7.44	W 103 31 58.24
	15700.00	91.75	359.58	11252.61	7424.61	4531.80	4496.99	-560.68	0.00	559535.79	788029.13	N 32 32 8.43	W 103 31 58.24
Cimarex Lynch 35 Federal #3H - PBHL	15785.56	91.75	359.58	11250.00	7422.00	4616.76	4582.51	-561.30	0.00	559621.31	788028.51	N 32 32 9.27	W 103 31 58.24

Survey Type: Non-Def Plan

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

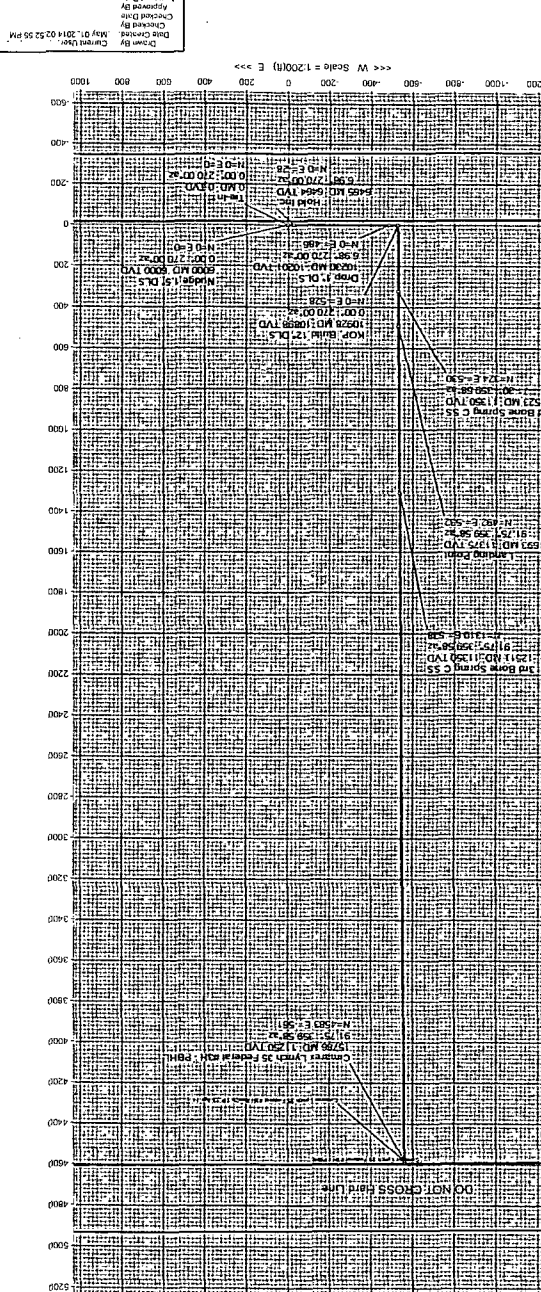
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	25.000	1/100.000	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-
	25.000	5480.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-
	5480.000	15785.560	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-



Station	Survey Mtd	Comments	Sub-Sea TVD	VSP	NS(N) / EW(E) / VSP	Longitudinal (Easting)	Northward (Northing)	Current (Course Azimuth)	Local (Foot)
7800.00		Top of Well	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7850.00		9 5/8 Casing Point	5480.00	0.00	0.00	0.00	0.00	0.00	0.00
7900.00		Mudg 1.5" DLS	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
7950.00		Drop 1" DLS	6465.00	0.00	0.00	0.00	0.00	0.00	0.00
8000.00		3rd Bone Spring C SS	10920.11	0.00	0.00	0.00	0.00	0.00	0.00
8050.00		KOP Build 12" DLS	10920.75	0.00	0.00	0.00	0.00	0.00	0.00
8100.00		3rd Bone Spring C SS	11522.66	0.00	0.00	0.00	0.00	0.00	0.00
8150.00		Landing Point	11693.07	0.00	0.00	0.00	0.00	0.00	0.00
8200.00		3rd Bone Spring C SS	12511.01	0.00	0.00	0.00	0.00	0.00	0.00
8250.00		Cimarex Lynch 35 Federal #3H - PBHL	15785.56	0.00	0.00	0.00	0.00	0.00	0.00
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Station	Survey Mtd	Comments	Sub-Sea TVD	VSP	NS(N) / EW(E) / VSP	Longitudinal (Easting)	Northward (Northing)	Current (Course Azimuth)	Local (Foot)
7800.00		Top of Well	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7850.00		9 5/8 Casing Point	5480.00	0.00	0.00	0.00	0.00	0.00	0.00
7900.00		Mudg 1.5" DLS	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
7950.00		Drop 1" DLS	6465.00	0.00	0.00	0.00	0.00	0.00	0.00
8000.00		3rd Bone Spring C SS	10920.11	0.00	0.00	0.00	0.00	0.00	0.00
8050.00		KOP Build 12" DLS	10920.75	0.00	0.00	0.00	0.00	0.00	0.00
8100.00		3rd Bone Spring C SS	11522.66	0.00	0.00	0.00	0.00	0.00	0.00
8150.00		Landing Point	11693.07	0.00	0.00	0.00	0.00	0.00	0.00
8200.00		3rd Bone Spring C SS	12511.01	0.00	0.00	0.00	0.00	0.00	0.00
8250.00		Cimarex Lynch 35 Federal #3H - PBHL	15785.56	0.00	0.00	0.00	0.00	0.00	0.00
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WEL: Lynch 35 Federal #3H
 FIELD: NM Lea County (NAD 83)
 REVISION: 26
 Rev2b
 A Schlumberger Company
 PATHFINDER



WEL: Lynch 35 Federal #3H
 FIELD: NM Lea County (NAD 83)
 REVISION: 26
 Rev2b
 A Schlumberger Company
 PATHFINDER

Drawn By: [Name]
 Checked By: [Name]
 Date Checked: May 07, 2014 02:55 PM
 Approved Date: [Date]



Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-14 Proposal Report

(Non-Def Plan)

Report Date: April 22, 2014 - 03:51 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Lynch 35 Federal #3H / Lynch 35 Federal #3H
Well: Lynch 35 Federal #3H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-14
Survey Date: April 22, 2014
Tort / AHD / DDI / ERD Ratio: 105.703 ° / 5110.631 ft / 5.875 / 0.449
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 31' 23.89008", W 103° 31' 52.08975"
Location Grid N/E Y/X: N 555038.900 ftUS, E 788589.800 ftUS
CRS Grid Convergence Angle: 0.4313 °
Grid Scale Factor: 0.9999791

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 353.017 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3828.000 ft above MSL
Seabed / Ground Elevation: 3803.000 ft above MSL
Magnetic Declination: 7.352 °
Total Field Strength: 48492.705 nT
Magnetic Dip Angle: 60.387 °
Declination Date: April 22, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4313 °

Total Corr Mag North->Grid North: 6.9209 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Tie-In	0.00	0.00	270.00	0.00	-3828.00	0.00	0.00	0.00	N/A	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
9 5/8 Casing Point	5480.00	0.00	270.00	5480.00	1652.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
Nudge 1.5" DLS	6000.00	0.00	270.00	6000.00	2172.00	0.00	0.00	0.00	0.00	555038.90	788589.80	N 32 31 23.89	W 103 31 52.09
Hold Inc.	6465.09	6.98	270.00	6463.94	2635.94	3.44	0.00	-28.28	1.50	555038.90	788561.52	N 32 31 23.89	W 103 31 52.42
Drop 1" DLS	10230.11	6.98	270.00	10201.08	6373.08	59.04	0.00	-485.58	0.00	555038.90	788104.23	N 32 31 23.93	W 103 31 57.76
	10927.75	0.00	270.00	10897.00	7069.00	64.19	0.00	-528.00	1.00	555038.90	788061.81	N 32 31 23.93	W 103 31 58.26
KOP, Build 12" DLS	10928.48	0.00	270.00	10897.74	7069.74	64.19	0.00	-528.00	0.00	555038.90	788061.81	N 32 31 23.93	W 103 31 58.26
3rd Bone Spring C SS	11522.66	71.30	359.58	11350.00	7522.00	386.46	324.39	-530.36	12.00	555363.28	788059.45	N 32 31 27.14	W 103 31 58.26
Landing Point	11693.07	91.75	359.58	11374.98	7546.98	553.01	492.03	-531.58	12.00	555530.92	788058.24	N 32 31 28.80	W 103 31 58.25
3rd Bone Spring C SS	12511.01	91.75	359.58	11350.00	7522.00	1365.21	1309.57	-537.52	0.00	556348.44	788052.30	N 32 31 36.89	W 103 31 58.25
Cimarex Lynch 35 Federal #3H - PBHL	15785.56	91.75	359.58	11250.00	7422.00	4616.76	4582.51	-561.30	0.00	559621.31	788028.51	N 32 32 9.27	W 103 31 58.24

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	25.000	1/100.000	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-
	25.000	5480.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-
	5480.000	15785.560	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Lynch 35 Federal #3H Rev2b TP 22-Apr-