

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 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 T20S R34E NENW 0350FSL 2580FWL 32.320967 N Lat, 103.315720 W Lon		8. Well Name and No. LYNCH 35 FEDERAL COM 3H
		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 A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 request Changes to the APD:

Update Directional Plans

Sundry Approved:
KOP 10928'
ECO 11693'
MD 15786'
TVD 11250'

Proposed:

HOBBS OCD

MAY 19 2014

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14. I hereby certify that the foregoing is true and correct. Electronic Submission #245565 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 05/14/2014 (14CRW0180SE)	
Name (Printed/Typed) DEYSI FAVELA	Title DRILLING TECHNICIAN
Signature (Electronic Submission)	Date 05/13/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 05/14/2014
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 ****

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DISTRICT I

1025 N. French Dr., Hobbs, NM 88240

Phone (505) 523-2151 Fax: (505) 523-0720

DISTRICT II

511 S. First St., Artesia, NM 88210

Phone (505) 740-1233 Fax: (505) 740-9720

DISTRICT III

1000 Rio Grande Rd., Aztec, NM 87410

Phone (505) 354-0170 Fax: (505) 354-8170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone (505) 476-3400 Fax: (505) 476-3400

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

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
GRID 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	Joint or Infill	Consolidation Code	Order No.
160			

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: 650947.0 E: 785978.3 (NAD-83) 2050' N: 559866.0 E: 788021.4 (NAD-83) 340' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°32'09.27" Long - W 103°31'58.24" NMSPC - N 559821.3 E 788028.5 (NAD-83) N: 559895.0 E: 791288.2 (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. <i>Deysi Favela</i> 5/1/2014 Signature Date Deysi Favela Printed Name dfavela@cimarex.com Email Address
N: 557346.7 E: 785963.3 (NAD-83) NM002127A 4636.6' 340' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°31'23.93" Long - W 103°31'52.11" NMSPC - N 555038.9 E 788589.6 (NAD-83) N: 557346.7 E: 791288.2 (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. DATE SURVEYED: AUGUST 28, 2013 Signature: [Signature] Professional Surveyor Certification No. 7977
N: 554670.3 E: 786013.0 (NAD-83) 2580' 1350' SURFACE LOCATION Lat - N 32°31'23.93" Long - W 103°31'52.11" NMSPC - N 555038.9 E 788589.6 (NAD-83) N: 554689.1 E: 788659.0 (NAD-83) N: 554707.8 E: 791305.0 (NAD-83)	BASIN SURVEYS 29329

Additional data for EC transaction #245565 that would not fit on the form

32. Additional remarks, continued

KOP 10948'
EOC 11713'
MD 15805'
TVD 11250' No Change

Revisions to Operator-Submitted EC Data for Sundry Notice #245565

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM002127A	NMNM129266
Agreement:		
Operator:	CIMAREX ENERGY CO. 600 N. MARIENFELD MIDLAND, TX 79701 Ph: 432-571-7800	CIMAREX ENERGY COMPANY OF CO 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701 Ph: 432.571.7800
Admin Contact:	DEYSI FAVELA DRILLING TECH E-Mail: dfavela@cimarex.com Ph: 432-620-1964	DEYSI FAVELA DRILLING TECHNICIAN E-Mail: dfavela@cimarex.com Ph: 432-620-1964
Tech Contact:	DEYSI FAVELA DRILLING TECH E-Mail: dfavela@cimarex.com Ph: 432-620-1964	DEYSI FAVELA DRILLING TECHNICIAN E-Mail: dfavela@cimarex.com Ph: 432-620-1964
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	BERRY;BONE SPRING, NORTH	BERRY
Well/Facility:	LYNCH 35 FEDERAL 3H Sec 35 T20S R34E SESW 350FSL 2580FWL	LYNCH 35 FEDERAL COM 3H Sec 35 T20S R34E NENW 0350FSL 2580FWL 32.320967 N Lat, 103.315720 W Lon



A Schlumberger Company



Cimarex Lynch 35 Federal #3H Rev3 TP 9-May-14 Proposal Report (Non-Def Plan)

Report Date: May 09, 2014 - 10:37 AM
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 Rev3 TP 9-May-14
Survey Date: April 22, 2014
Tort / AHD / DDI / ERD Ratio: 122.328 ° / 5347.858 ft / 5.959 / 0.470
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: 7.347 °
Total Field Strength: 48487.262 nT
Magnetic Dip Angle: 60.386 °
Declination Date: May 09, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4313 °
Total Corr Mag North->Grid North: 6.9157 °
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
	88.40	0.57	206.46	88.40	-3739.60	-0.37	-0.39	-0.20	0.64	555038.51	788589.60	N 32 31 23.89	W 103 31 52.09
	178.50	0.80	210.19	178.49	-3649.51	-1.24	-1.34	-0.71	0.26	555037.56	788589.09	N 32 31 23.88	W 103 31 52.10
	273.10	0.84	207.92	273.08	-3554.92	-2.34	-2.52	-1.37	0.05	555036.38	788588.43	N 32 31 23.87	W 103 31 52.11
	361.40	0.68	211.63	361.37	-3466.63	-3.28	-3.54	-1.95	0.19	555035.36	788587.85	N 32 31 23.86	W 103 31 52.11
	451.90	0.71	211.84	451.87	-3376.13	-4.13	-4.47	-2.52	0.03	555034.43	788587.28	N 32 31 23.85	W 103 31 52.12
	541.80	0.61	207.31	541.76	-3286.24	-4.96	-5.37	-3.04	0.13	555033.53	788586.76	N 32 31 23.84	W 103 31 52.13
	632.80	0.59	221.42	632.76	-3195.24	-5.67	-6.15	-3.57	0.16	555032.75	788586.23	N 32 31 23.83	W 103 31 52.13
	723.20	0.53	216.76	723.15	-3104.85	-6.29	-6.84	-4.13	0.08	555032.06	788585.67	N 32 31 23.82	W 103 31 52.14
	816.90	0.45	234.01	816.85	-3011.15	-6.78	-7.40	-4.68	0.18	555031.50	788585.12	N 32 31 23.82	W 103 31 52.15
	909.30	0.25	227.39	909.25	-2918.75	-7.07	-7.75	-5.13	0.22	555031.15	788584.67	N 32 31 23.81	W 103 31 52.15
	1000.70	0.23	226.28	1000.65	-2827.35	-7.30	-8.01	-5.41	0.02	555030.89	788584.39	N 32 31 23.81	W 103 31 52.15
	1090.90	0.01	299.00	1090.85	-2737.15	-7.40	-8.13	-5.54	0.25	555030.77	788584.26	N 32 31 23.81	W 103 31 52.16
	1183.30	0.06	328.39	1183.25	-2644.75	-7.35	-8.09	-5.58	0.06	555030.81	788584.22	N 32 31 23.81	W 103 31 52.16
	1277.60	0.07	239.52	1277.55	-2550.45	-7.33	-8.08	-5.65	0.10	555030.82	788584.15	N 32 31 23.81	W 103 31 52.16
	1371.90	0.10	135.25	1371.85	-2456.15	-7.42	-8.16	-5.64	0.14	555030.74	788584.16	N 32 31 23.81	W 103 31 52.16
	1466.50	0.20	159.48	1466.45	-2361.55	-7.64	-8.38	-5.53	0.12	555030.52	788584.27	N 32 31 23.81	W 103 31 52.16
	1560.60	0.34	186.34	1560.54	-2267.46	-8.07	-8.81	-5.50	0.20	555030.09	788584.30	N 32 31 23.80	W 103 31 52.15
	1655.00	0.44	208.05	1654.94	-2173.06	-8.64	-9.41	-5.70	0.19	555029.49	788584.10	N 32 31 23.80	W 103 31 52.16
	1749.60	0.49	211.34	1749.54	-2078.46	-9.26	-10.07	-6.08	0.06	555028.83	788583.72	N 32 31 23.79	W 103 31 52.16
	1844.00	0.43	213.67	1843.94	-1984.06	-9.84	-10.71	-6.49	0.07	555028.19	788583.31	N 32 31 23.78	W 103 31 52.17
	1938.40	0.43	202.24	1938.33	-1889.67	-10.42	-11.33	-6.82	0.09	555027.57	788582.98	N 32 31 23.78	W 103 31 52.17
	2032.90	0.40	200.84	2032.83	-1795.17	-11.02	-11.97	-7.07	0.03	555026.93	788582.73	N 32 31 23.77	W 103 31 52.17
	2127.40	0.40	198.67	2127.33	-1700.67	-11.61	-12.59	-7.29	0.02	555026.31	788582.51	N 32 31 23.77	W 103 31 52.18
	2222.00	0.50	192.26	2221.93	-1606.07	-12.30	-13.31	-7.49	0.12	555025.59	788582.31	N 32 31 23.76	W 103 31 52.18
	2316.50	0.42	191.25	2316.42	-1511.58	-13.02	-14.05	-7.64	0.09	555024.85	788582.16	N 32 31 23.75	W 103 31 52.18
	2410.80	0.37	191.19	2410.72	-1417.28	-13.64	-14.69	-7.77	0.05	555024.21	788582.03	N 32 31 23.75	W 103 31 52.18
	2505.10	0.42	180.90	2505.02	-1322.98	-14.27	-15.33	-7.83	0.09	555023.57	788581.97	N 32 31 23.74	W 103 31 52.18
	2599.40	0.38	177.80	2599.32	-1228.68	-14.92	-15.99	-7.83	0.05	555022.91	788581.97	N 32 31 23.73	W 103 31 52.18
	2693.50	0.36	170.96	2693.41	-1134.59	-15.53	-16.59	-7.77	0.05	555022.31	788582.03	N 32 31 23.73	W 103 31 52.18

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 ° ' ")
	2787.80	0.25	153.49	2787.71	-1040.29	-16.02	-17.07	-7.63	0.15	555021.83	788582.17	N 32 31 23.72	W 103 31 52.18
	2882.20	0.30	141.24	2882.11	-945.89	-16.42	-17.45	-7.38	0.08	555021.45	788582.42	N 32 31 23.72	W 103 31 52.18
	2976.60	0.38	124.80	2976.51	-851.49	-16.84	-17.82	-6.97	0.13	555021.08	788582.83	N 32 31 23.71	W 103 31 52.17
	3071.00	0.49	105.71	3070.91	-757.09	-17.20	-18.11	-6.33	0.19	555020.79	788583.47	N 32 31 23.71	W 103 31 52.17
	3165.40	0.61	97.24	3165.30	-662.70	-17.48	-18.28	-5.44	0.15	555020.62	788584.36	N 32 31 23.71	W 103 31 52.15
	3259.80	0.53	98.25	3259.70	-568.30	-17.72	-18.41	-4.51	0.09	555020.49	788585.29	N 32 31 23.71	W 103 31 52.14
	3354.20	0.91	90.71	3354.09	-473.91	-17.94	-18.48	-3.33	0.41	555020.42	788586.47	N 32 31 23.71	W 103 31 52.13
	3448.60	0.84	91.95	3448.48	-379.52	-18.14	-18.51	-1.89	0.08	555020.39	788587.91	N 32 31 23.71	W 103 31 52.11
	3542.80	0.85	89.77	3542.67	-285.33	-18.33	-18.53	-0.50	0.04	555020.37	788589.30	N 32 31 23.71	W 103 31 52.10
	3637.40	0.79	84.86	3637.26	-190.74	-18.44	-18.47	0.85	0.10	555020.43	788590.65	N 32 31 23.71	W 103 31 52.08
	3731.80	0.78	82.73	3731.65	-96.35	-18.46	-18.33	2.14	0.03	555020.57	788591.94	N 32 31 23.71	W 103 31 52.07
	3826.00	0.79	88.58	3825.84	-2.16	-18.51	-18.23	3.42	0.09	555020.67	788593.22	N 32 31 23.71	W 103 31 52.05
	3920.40	0.88	77.59	3920.23	92.23	-18.51	-18.06	4.78	0.19	555020.84	788594.58	N 32 31 23.71	W 103 31 52.04
	4014.70	1.04	76.94	4014.52	186.52	-18.35	-17.71	6.32	0.17	555021.19	788596.12	N 32 31 23.71	W 103 31 52.02
	4108.90	1.05	78.14	4108.70	280.70	-18.19	-17.34	8.00	0.03	555021.56	788597.80	N 32 31 23.72	W 103 31 52.00
	4203.30	1.23	84.18	4203.08	375.08	-18.13	-17.06	9.86	0.23	555021.84	788599.66	N 32 31 23.72	W 103 31 51.98
	4297.80	1.37	82.43	4297.56	469.56	-18.14	-16.81	11.98	0.15	555022.09	788601.78	N 32 31 23.72	W 103 31 51.95
	4392.40	1.67	79.49	4392.13	564.13	-18.05	-16.41	14.46	0.33	555022.49	788604.26	N 32 31 23.73	W 103 31 51.92
	4486.90	1.79	78.53	4486.58	658.58	-17.85	-15.87	17.26	0.13	555023.04	788607.06	N 32 31 23.73	W 103 31 51.89
	4581.60	1.77	77.62	4581.24	753.24	-17.59	-15.26	20.14	0.04	555023.64	788609.94	N 32 31 23.74	W 103 31 51.86
	4676.10	2.14	81.36	4675.68	847.68	-17.40	-14.68	23.31	0.41	555024.22	788613.11	N 32 31 23.74	W 103 31 51.82
	4770.60	2.31	81.31	4770.11	942.11	-17.30	-14.13	26.94	0.18	555024.77	788616.74	N 32 31 23.75	W 103 31 51.78
	4864.50	2.43	80.35	4863.93	1035.93	-17.15	-13.51	30.77	0.13	555025.39	788620.57	N 32 31 23.75	W 103 31 51.73
	4959.10	2.62	79.80	4958.44	1130.44	-16.93	-12.79	34.87	0.20	555026.11	788624.67	N 32 31 23.76	W 103 31 51.68
	5053.70	2.73	78.27	5052.94	1224.94	-16.63	-11.95	39.21	0.14	555026.95	788629.01	N 32 31 23.77	W 103 31 51.63
	5148.10	2.99	77.95	5147.22	1319.22	-16.22	-10.98	43.82	0.28	555027.92	788633.62	N 32 31 23.78	W 103 31 51.58
	5242.80	3.15	81.33	5241.78	1413.78	-15.93	-10.07	48.80	0.26	555028.83	788638.60	N 32 31 23.79	W 103 31 51.52
	5337.40	3.27	80.31	5336.23	1508.23	-15.72	-9.22	54.03	0.14	555029.68	788643.83	N 32 31 23.79	W 103 31 51.46
	5431.80	3.26	79.22	5430.48	1602.48	-15.42	-8.27	59.32	0.07	555030.63	788649.12	N 32 31 23.80	W 103 31 51.40
9 5/8 Casing Point	5481.40	3.41	79.21	5480.00	1652.00	-15.23	-7.73	62.16	0.30	555031.17	788651.96	N 32 31 23.81	W 103 31 51.36
	5526.20	3.54	79.20	5524.72	1696.72	-15.05	-7.22	64.82	0.30	555031.68	788654.62	N 32 31 23.81	W 103 31 51.33
	5620.70	3.68	78.95	5619.03	1791.03	-14.64	-6.09	70.67	0.15	555032.81	788660.46	N 32 31 23.82	W 103 31 51.26
Tie-In	5648.50	3.79	78.73	5646.77	1818.77	-14.51	-5.74	72.44	0.40	555033.16	788662.24	N 32 31 23.83	W 103 31 51.24
Nudge 1.5° DLS	6002.51	3.79	78.73	6000.00	2172.00	-12.76	-1.17	95.39	0.00	555037.73	788685.19	N 32 31 23.87	W 103 31 50.98
Hold Inc.	6868.88	9.25	269.61	6863.49	3035.49	-2.58	3.97	53.63	1.50	555042.87	788643.43	N 32 31 23.93	W 103 31 51.46
	10022.02	9.25	269.61	9975.60	6147.60	55.63	0.51	-453.43	0.00	555039.41	788136.38	N 32 31 23.93	W 103 31 57.39
Drop 1° DLS	10947.44	0.00	269.61	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	10948.18	0.00	269.61	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	11542.36	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	11712.76	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	12530.70	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	15805.26	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

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 ° ' ")
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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		Act Stns	30.000	30.000	SLB_NSG+MSHOT-Depth Only
	25.000	5620.700		Act Stns	30.000	30.000	SLB_NSG+MSHOT
	5620.700	5648.000	1/100.000		30.000	30.000	SLB_NSG+MSHOT
	5648.000	5648.500	1/100.000		30.000	30.000	SLB_MWD-STD
	5648.500	15805.258	1/100.000		30.000	30.000	SLB_MWD-STD

Original Borehole / Cimaxex Lynch
35 Federal #3H Gyro+MWD 0ft to
Update
Original Borehole / Cimaxex Lynch
35 Federal #3H Gyro+MWD 0ft to
Original Borehole / Cimaxex Lynch
35 Federal #3H Gyro+MWD 0ft to
Original Borehole / Cimaxex Lynch
35 Federal #3H Gyro+MWD 0ft to
Original Borehole / Cimaxex Lynch
35 Federal #3H Rev3 TP 9-May-



Cimarex Lynch 35 Federal #3H Rev3 TP 9-May-14 Proposal Report

(Non-Def Plan)

Report Date: May 09, 2014 - 10:37 AM
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 Rev3 TP 9-May-14
Survey Date: April 22, 2014
Tort / AHD / DDI / ERD Ratio: 122.328' / 5347.858 ft / 5.959 / 0.470
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: 7.347°
Total Field Strength: 48487.262 nT
Magnetic Dip Angle: 60.386°
Declination Date: May 09, 2014
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4313°
Total Corr Mag North->Grid North: 6.9157°
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
	88.40	0.57	206.46	88.40	-3739.60	-0.37	-0.39	-0.20	0.64	555038.51	788589.60	N 32 31 23.89	W 103 31 52.09
	178.50	0.80	210.19	178.49	-3649.51	-1.24	-1.34	-0.71	0.26	555037.56	788589.09	N 32 31 23.88	W 103 31 52.10
	273.10	0.84	207.92	273.08	-3554.92	-2.34	-2.52	-1.37	0.05	555036.38	788588.43	N 32 31 23.87	W 103 31 52.11
	361.40	0.68	211.63	361.37	-3466.63	-3.28	-3.54	-1.95	0.19	555035.36	788587.85	N 32 31 23.86	W 103 31 52.11
	451.90	0.71	211.84	451.87	-3376.13	-4.13	-4.47	-2.52	0.03	555034.43	788587.28	N 32 31 23.85	W 103 31 52.12
	541.80	0.61	207.31	541.76	-3286.24	-4.96	-5.37	-3.04	0.13	555033.53	788586.76	N 32 31 23.84	W 103 31 52.13
	632.80	0.59	221.42	632.76	-3195.24	-5.67	-6.15	-3.57	0.16	555032.75	788586.23	N 32 31 23.83	W 103 31 52.13
	723.20	0.53	216.76	723.15	-3104.85	-6.29	-6.84	-4.13	0.08	555032.06	788585.67	N 32 31 23.82	W 103 31 52.14
	816.90	0.45	234.01	816.85	-3011.15	-6.78	-7.40	-4.68	0.18	555031.50	788585.12	N 32 31 23.82	W 103 31 52.15
	909.30	0.25	227.39	909.25	-2918.75	-7.07	-7.75	-5.13	0.22	555031.15	788584.67	N 32 31 23.81	W 103 31 52.15
	1000.70	0.23	226.28	1000.65	-2827.35	-7.30	-8.01	-5.41	0.02	555030.89	788584.39	N 32 31 23.81	W 103 31 52.15
	1090.90	0.01	299.00	1090.85	-2737.15	-7.40	-8.13	-5.54	0.25	555030.77	788584.26	N 32 31 23.81	W 103 31 52.16
	1183.30	0.06	328.39	1183.25	-2644.75	-7.35	-8.09	-5.58	0.06	555030.81	788584.22	N 32 31 23.81	W 103 31 52.16
	1277.60	0.07	239.52	1277.55	-2550.45	-7.33	-8.08	-5.65	0.10	555030.82	788584.15	N 32 31 23.81	W 103 31 52.16
	1371.90	0.10	135.25	1371.85	-2456.15	-7.42	-8.16	-5.64	0.14	555030.74	788584.16	N 32 31 23.81	W 103 31 52.16
	1466.50	0.20	159.48	1466.45	-2361.55	-7.64	-8.38	-5.53	0.12	555030.52	788584.27	N 32 31 23.81	W 103 31 52.16
	1560.60	0.34	186.34	1560.54	-2267.46	-8.07	-8.81	-5.50	0.20	555030.09	788584.30	N 32 31 23.80	W 103 31 52.15
	1655.00	0.44	208.05	1654.94	-2173.06	-8.64	-9.41	-5.70	0.19	555029.49	788584.10	N 32 31 23.80	W 103 31 52.16
	1749.60	0.49	211.34	1749.54	-2078.46	-9.26	-10.07	-6.08	0.06	555028.83	788583.72	N 32 31 23.79	W 103 31 52.16
	1844.00	0.43	213.67	1843.94	-1984.06	-9.84	-10.71	-6.49	0.07	555028.19	788583.31	N 32 31 23.78	W 103 31 52.17
	1938.40	0.43	202.24	1938.33	-1889.67	-10.42	-11.33	-6.82	0.09	555027.57	788582.98	N 32 31 23.78	W 103 31 52.17
	2032.90	0.40	200.84	2032.83	-1795.17	-11.02	-11.97	-7.07	0.03	555026.93	788582.73	N 32 31 23.77	W 103 31 52.17
	2127.40	0.40	198.67	2127.33	-1700.67	-11.61	-12.59	-7.29	0.02	555026.31	788582.51	N 32 31 23.77	W 103 31 52.18
	2222.00	0.50	192.26	2221.93	-1606.07	-12.30	-13.31	-7.49	0.12	555025.59	788582.31	N 32 31 23.76	W 103 31 52.18
	2316.50	0.42	191.25	2316.42	-1511.58	-13.02	-14.05	-7.64	0.09	555024.85	788582.16	N 32 31 23.75	W 103 31 52.18
	2410.80	0.37	191.19	2410.72	-1417.28	-13.64	-14.69	-7.77	0.05	555024.21	788582.03	N 32 31 23.75	W 103 31 52.18
	2505.10	0.42	180.90	2505.02	-1322.98	-14.27	-15.33	-7.83	0.09	555023.57	788581.97	N 32 31 23.74	W 103 31 52.18
	2599.40	0.38	177.80	2599.32	-1228.68	-14.92	-15.99	-7.83	0.05	555022.91	788581.97	N 32 31 23.73	W 103 31 52.18
	2693.50	0.36	170.96	2693.41	-1134.59	-15.53	-16.59	-7.77	0.05	555022.31	788582.03	N 32 31 23.73	W 103 31 52.18

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 ° ' ")
	2787.80	0.25	153.49	2787.71	-1040.29	-16.02	-17.07	-7.63	0.15	555021.83	788582.17	N 32 31 23.72	W 103 31 52.18
	2882.20	0.30	141.24	2882.11	-945.89	-16.42	-17.45	-7.38	0.08	555021.45	788582.42	N 32 31 23.72	W 103 31 52.18
	2976.60	0.38	124.80	2976.51	-851.49	-16.84	-17.82	-6.97	0.13	555021.08	788582.83	N 32 31 23.71	W 103 31 52.17
	3071.00	0.49	105.71	3070.91	-757.09	-17.20	-18.11	-6.33	0.19	555020.79	788583.47	N 32 31 23.71	W 103 31 52.17
	3165.40	0.61	97.24	3165.30	-662.70	-17.48	-18.28	-5.44	0.15	555020.62	788584.36	N 32 31 23.71	W 103 31 52.15
	3259.80	0.53	98.25	3259.70	-568.30	-17.72	-18.41	-4.51	0.09	555020.49	788585.29	N 32 31 23.71	W 103 31 52.14
	3354.20	0.91	90.71	3354.09	-473.91	-17.94	-18.48	-3.33	0.41	555020.42	788586.47	N 32 31 23.71	W 103 31 52.13
	3448.60	0.84	91.95	3448.48	-379.52	-18.14	-18.51	-1.89	0.08	555020.39	788587.91	N 32 31 23.71	W 103 31 52.11
	3542.80	0.85	89.77	3542.67	-285.33	-18.33	-18.53	-0.50	0.04	555020.37	788589.30	N 32 31 23.71	W 103 31 52.10
	3637.40	0.79	84.86	3637.26	-190.74	-18.44	-18.47	0.85	0.10	555020.43	788590.65	N 32 31 23.71	W 103 31 52.08
	3731.80	0.78	82.73	3731.65	-96.35	-18.46	-18.33	2.14	0.03	555020.57	788591.94	N 32 31 23.71	W 103 31 52.07
	3826.00	0.79	88.58	3825.84	-2.16	-18.51	-18.23	3.42	0.09	555020.67	788593.22	N 32 31 23.71	W 103 31 52.05
	3920.40	0.88	77.59	3920.23	92.23	-18.51	-18.06	4.78	0.19	555020.84	788594.58	N 32 31 23.71	W 103 31 52.04
	4014.70	1.04	76.94	4014.52	186.52	-18.35	-17.71	6.32	0.17	555021.19	788596.12	N 32 31 23.71	W 103 31 52.02
	4108.90	1.05	78.14	4108.70	280.70	-18.19	-17.34	8.00	0.03	555021.56	788597.80	N 32 31 23.72	W 103 31 52.00
	4203.30	1.23	84.18	4203.08	375.08	-18.13	-17.06	9.86	0.23	555021.84	788599.66	N 32 31 23.72	W 103 31 51.98
	4297.80	1.37	82.43	4297.56	469.56	-18.14	-16.81	11.98	0.15	555022.09	788601.78	N 32 31 23.72	W 103 31 51.95
	4392.40	1.67	79.49	4392.13	564.13	-18.05	-16.41	14.46	0.33	555022.49	788604.26	N 32 31 23.73	W 103 31 51.92
	4486.90	1.79	78.53	4486.58	658.58	-17.85	-15.87	17.26	0.13	555023.04	788607.06	N 32 31 23.73	W 103 31 51.89
	4581.60	1.77	77.62	4581.24	753.24	-17.59	-15.26	20.14	0.04	555023.64	788609.94	N 32 31 23.74	W 103 31 51.86
	4676.10	2.14	81.36	4675.68	847.68	-17.40	-14.68	23.31	0.41	555024.22	788613.11	N 32 31 23.74	W 103 31 51.82
	4770.60	2.31	81.31	4770.11	942.11	-17.30	-14.13	26.94	0.18	555024.77	788616.74	N 32 31 23.75	W 103 31 51.78
	4864.50	2.43	80.35	4863.93	1035.93	-17.15	-13.51	30.77	0.13	555025.39	788620.57	N 32 31 23.75	W 103 31 51.73
	4959.10	2.62	79.80	4958.44	1130.44	-16.93	-12.79	34.87	0.20	555026.11	788624.67	N 32 31 23.76	W 103 31 51.68
	5053.70	2.73	78.27	5052.94	1224.94	-16.63	-11.95	39.21	0.14	555026.95	788629.01	N 32 31 23.77	W 103 31 51.63
	5148.10	2.99	77.95	5147.22	1319.22	-16.22	-10.98	43.82	0.28	555027.92	788633.62	N 32 31 23.78	W 103 31 51.58
	5242.80	3.15	81.33	5241.78	1413.78	-15.93	-10.07	48.80	0.26	555028.83	788638.60	N 32 31 23.79	W 103 31 51.52
	5337.40	3.27	80.31	5336.23	1508.23	-15.72	-9.22	54.03	0.14	555029.68	788643.83	N 32 31 23.79	W 103 31 51.46
	5431.80	3.26	79.22	5430.48	1602.48	-15.42	-8.27	59.32	0.07	555030.63	788649.12	N 32 31 23.80	W 103 31 51.40
9 5/8 Casing Point	5481.40	3.41	79.21	5480.00	1652.00	-15.23	-7.73	62.16	0.30	555031.17	788651.96	N 32 31 23.81	W 103 31 51.36
	5526.20	3.54	79.20	5524.72	1696.72	-15.05	-7.22	64.82	0.30	555031.68	788654.62	N 32 31 23.81	W 103 31 51.33
	5620.70	3.68	78.95	5619.03	1791.03	-14.64	-6.09	70.67	0.15	555032.81	788660.46	N 32 31 23.82	W 103 31 51.26
Tie-In	5648.50	3.79	78.73	5646.77	1818.77	-14.51	-5.74	72.44	N/A	555033.16	788662.24	N 32 31 23.83	W 103 31 51.24
	5700.00	3.79	78.73	5698.16	1870.16	-14.25	-5.08	75.78	0.00	555033.82	788665.58	N 32 31 23.83	W 103 31 51.21
	5800.00	3.79	78.73	5797.94	1969.94	-13.76	-3.78	82.26	0.00	555035.12	788672.06	N 32 31 23.85	W 103 31 51.13
	5900.00	3.79	78.73	5897.72	2069.72	-13.26	-2.49	88.75	0.00	555036.41	788678.54	N 32 31 23.86	W 103 31 51.05
	6000.00	3.79	78.73	5997.50	2169.50	-12.77	-1.20	95.23	0.00	555037.70	788685.03	N 32 31 23.87	W 103 31 50.98
Nudge 1.5° DLS	6002.51	3.79	78.73	6000.00	2172.00	-12.76	-1.17	95.39	0.00	555037.73	788685.19	N 32 31 23.87	W 103 31 50.98
	6100.00	2.35	73.91	6097.35	2269.35	-12.20	0.02	100.47	1.50	555038.92	788690.27	N 32 31 23.88	W 103 31 50.92
	6200.00	0.94	53.67	6197.31	2369.31	-11.47	1.07	103.10	1.50	555039.97	788692.90	N 32 31 23.89	W 103 31 50.89
	6300.00	0.87	302.33	6297.30	2469.30	-10.59	1.97	103.12	1.50	555040.87	788692.92	N 32 31 23.90	W 103 31 50.89
	6400.00	2.27	279.50	6397.26	2569.26	-9.54	2.70	100.53	1.50	555041.60	788690.33	N 32 31 23.91	W 103 31 50.92
	6500.00	3.74	274.31	6497.12	2669.12	-8.34	3.27	95.33	1.50	555042.17	788685.13	N 32 31 23.92	W 103 31 50.98
	6600.00	5.23	272.06	6596.81	2768.81	-6.99	3.68	87.52	1.50	555042.58	788677.32	N 32 31 23.92	W 103 31 51.07
	6700.00	6.73	270.81	6696.27	2868.27	-5.48	3.93	77.10	1.50	555042.83	788666.90	N 32 31 23.92	W 103 31 51.19
	6800.00	8.22	270.01	6795.41	2967.41	-3.81	4.01	64.10	1.50	555042.91	788653.90	N 32 31 23.92	W 103 31 51.34
Hold Inc.	6868.88	9.25	269.61	6863.49	3035.49	-2.58	3.97	53.63	1.50	555042.87	788643.43	N 32 31 23.93	W 103 31 51.46
	6900.00	9.25	269.61	6894.21	3066.21	-2.00	3.94	48.63	0.00	555042.84	788638.43	N 32 31 23.93	W 103 31 51.52
	7000.00	9.25	269.61	6992.91	3164.91	-0.15	3.83	32.55	0.00	555042.73	788622.35	N 32 31 23.93	W 103 31 51.71
	7100.00	9.25	269.61	7091.61	3263.61	1.69	3.72	16.47	0.00	555042.62	788606.27	N 32 31 23.93	W 103 31 51.90
	7200.00	9.25	269.61	7190.30	3362.30	3.54	3.61	0.38	0.00	555042.51	788590.18	N 32 31 23.93	W 103 31 52.08
	7300.00	9.25	269.61	7289.00	3461.00	5.38	3.50	-15.70	0.00	555042.40	788574.10	N 32 31 23.93	W 103 31 52.27
	7400.00	9.25	269.61	7387.70	3559.70	7.23	3.39	-31.78	0.00	555042.29	788558.02	N 32 31 23.93	W 103 31 52.46

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 ° ' ")
	7500.00	9.25	269.61	7486.40	3658.40	9.08	3.28	-47.86	0.00	555042.18	788541.94	N 32 31 23.93	W 103 31 52.65
	7600.00	9.25	269.61	7585.10	3757.10	10.92	3.17	-63.94	0.00	555042.07	788525.86	N 32 31 23.93	W 103 31 52.84
	7700.00	9.25	269.61	7683.80	3855.80	12.77	3.06	-80.02	0.00	555041.96	788509.78	N 32 31 23.93	W 103 31 53.02
	7800.00	9.25	269.61	7782.50	3954.50	14.61	2.95	-96.10	0.00	555041.85	788493.70	N 32 31 23.93	W 103 31 53.21
	7900.00	9.25	269.61	7881.19	4053.19	16.46	2.84	-112.18	0.00	555041.74	788477.62	N 32 31 23.93	W 103 31 53.40
	8000.00	9.25	269.61	7979.89	4151.89	18.31	2.73	-128.26	0.00	555041.63	788461.54	N 32 31 23.93	W 103 31 53.59
	8100.00	9.25	269.61	8078.59	4250.59	20.15	2.62	-144.35	0.00	555041.52	788445.46	N 32 31 23.93	W 103 31 53.78
	8200.00	9.25	269.61	8177.29	4349.29	22.00	2.51	-160.43	0.00	555041.41	788429.38	N 32 31 23.93	W 103 31 53.96
	8300.00	9.25	269.61	8275.99	4447.99	23.84	2.40	-176.51	0.00	555041.30	788413.30	N 32 31 23.93	W 103 31 54.15
	8400.00	9.25	269.61	8374.69	4546.69	25.69	2.29	-192.59	0.00	555041.19	788397.22	N 32 31 23.93	W 103 31 54.34
	8500.00	9.25	269.61	8473.38	4645.38	27.54	2.18	-208.67	0.00	555041.08	788381.13	N 32 31 23.93	W 103 31 54.53
	8600.00	9.25	269.61	8572.08	4744.08	29.38	2.07	-224.75	0.00	555040.97	788365.05	N 32 31 23.93	W 103 31 54.71
	8700.00	9.25	269.61	8670.78	4842.78	31.23	1.96	-240.83	0.00	555040.86	788348.97	N 32 31 23.93	W 103 31 54.90
	8800.00	9.25	269.61	8769.48	4941.48	33.07	1.85	-256.91	0.00	555040.75	788332.89	N 32 31 23.93	W 103 31 55.09
	8900.00	9.25	269.61	8868.18	5040.18	34.92	1.74	-272.99	0.00	555040.64	788316.81	N 32 31 23.93	W 103 31 55.28
	9000.00	9.25	269.61	8966.88	5138.88	36.77	1.63	-289.08	0.00	555040.53	788300.73	N 32 31 23.93	W 103 31 55.47
	9100.00	9.25	269.61	9065.58	5237.58	38.61	1.52	-305.16	0.00	555040.42	788284.65	N 32 31 23.93	W 103 31 55.65
	9200.00	9.25	269.61	9164.27	5336.27	40.46	1.41	-321.24	0.00	555040.31	788268.57	N 32 31 23.93	W 103 31 55.84
	9300.00	9.25	269.61	9262.97	5434.97	42.30	1.30	-337.32	0.00	555040.20	788252.49	N 32 31 23.93	W 103 31 56.03
	9400.00	9.25	269.61	9361.67	5533.67	44.15	1.19	-353.40	0.00	555040.09	788236.41	N 32 31 23.93	W 103 31 56.22
	9500.00	9.25	269.61	9460.37	5632.37	46.00	1.08	-369.48	0.00	555039.98	788220.33	N 32 31 23.93	W 103 31 56.40
	9600.00	9.25	269.61	9559.07	5731.07	47.84	0.97	-385.56	0.00	555039.87	788204.25	N 32 31 23.93	W 103 31 56.59
	9700.00	9.25	269.61	9657.77	5829.77	49.69	0.86	-401.64	0.00	555039.76	788188.17	N 32 31 23.93	W 103 31 56.78
	9800.00	9.25	269.61	9756.46	5928.46	51.53	0.75	-417.72	0.00	555039.65	788172.08	N 32 31 23.93	W 103 31 56.97
	9900.00	9.25	269.61	9855.16	6027.16	53.38	0.64	-433.81	0.00	555039.54	788156.00	N 32 31 23.93	W 103 31 57.16
	10000.00	9.25	269.61	9953.86	6125.86	55.23	0.53	-449.89	0.00	555039.43	788139.92	N 32 31 23.93	W 103 31 57.34
Drop 1° DLS	10022.02	9.25	269.61	9975.60	6147.60	55.63	0.51	-453.43	0.00	555039.41	788136.38	N 32 31 23.93	W 103 31 57.39
	10100.00	8.47	269.61	10052.64	6224.64	57.01	0.43	-465.44	1.00	555039.33	788124.37	N 32 31 23.93	W 103 31 57.53
	10200.00	7.47	269.61	10151.67	6323.67	58.60	0.33	-479.32	1.00	555039.23	788110.49	N 32 31 23.93	W 103 31 57.69
	10300.00	6.47	269.61	10250.93	6422.93	60.00	0.25	-491.46	1.00	555039.15	788098.35	N 32 31 23.93	W 103 31 57.83
	10400.00	5.47	269.61	10350.39	6522.39	61.19	0.18	-501.87	1.00	555039.08	788087.94	N 32 31 23.93	W 103 31 57.95
	10500.00	4.47	269.61	10450.01	6622.01	62.19	0.12	-510.54	1.00	555039.02	788079.27	N 32 31 23.93	W 103 31 58.05
	10600.00	3.47	269.61	10549.77	6721.77	62.98	0.07	-517.47	1.00	555038.97	788072.34	N 32 31 23.93	W 103 31 58.13
	10700.00	2.47	269.61	10649.63	6821.63	63.58	0.04	-522.66	1.00	555038.94	788067.15	N 32 31 23.93	W 103 31 58.19
	10800.00	1.47	269.61	10749.57	6921.57	63.98	0.01	-526.10	1.00	555038.91	788063.71	N 32 31 23.93	W 103 31 58.23
	10900.00	0.47	269.61	10849.56	7021.56	64.17	0.00	-527.80	1.00	555038.90	788062.01	N 32 31 23.93	W 103 31 58.25
	10947.44	0.00	269.61	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	10948.18	0.00	269.61	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	6.22	359.58	10949.45	7121.45	66.98	2.81	-528.02	12.00	555041.71	788061.79	N 32 31 23.96	W 103 31 58.26
	11100.00	18.22	359.58	11047.01	7219.01	87.97	23.93	-528.17	12.00	555062.83	788061.64	N 32 31 24.17	W 103 31 58.26
	11200.00	30.22	359.58	11138.04	7310.04	128.65	64.88	-528.47	12.00	555103.78	788061.34	N 32 31 24.57	W 103 31 58.26
	11300.00	42.22	359.58	11218.57	7390.57	187.24	123.86	-528.90	12.00	555162.75	788060.91	N 32 31 25.15	W 103 31 58.26
	11400.00	54.22	359.58	11285.08	7457.08	261.18	198.29	-529.44	12.00	555237.18	788060.37	N 32 31 25.89	W 103 31 58.26
	11500.00	66.22	359.58	11334.66	7506.66	347.25	284.92	-530.07	12.00	555323.81	788059.74	N 32 31 26.75	W 103 31 58.26
3rd Bone Spring C SS	11542.36	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	78.22	359.58	11365.14	7537.14	441.68	379.96	-530.76	12.00	555418.86	788059.05	N 32 31 27.69	W 103 31 58.26
	11700.00	90.22	359.58	11375.20	7547.20	540.33	479.27	-531.48	12.00	555518.16	788058.33	N 32 31 28.67	W 103 31 58.25
Landing Point	11712.76	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
	11800.00	91.75	359.58	11372.31	7544.31	639.63	579.23	-532.21	0.00	555618.11	788057.60	N 32 31 29.66	W 103 31 58.25
	11900.00	91.75	359.58	11369.26	7541.26	738.93	679.18	-532.94	0.00	555718.06	788056.88	N 32 31 30.65	W 103 31 58.25
	12000.00	91.75	359.58	11366.21	7538.21	838.23	779.13	-533.66	0.00	555818.01	788056.15	N 32 31 31.64	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	12100.00	91.75	359.58	11363.15	7535.15	937.53	879.08	-534.39	0.00	555917.96	788055.42	N 32 31 32.63	W 103 31 58.25
	12200.00	91.75	359.58	11360.10	7532.10	1036.82	979.03	-535.11	0.00	556017.91	788054.70	N 32 31 33.62	W 103 31 58.25
	12300.00	91.75	359.58	11357.05	7529.05	1136.12	1078.98	-535.84	0.00	556117.86	788053.97	N 32 31 34.61	W 103 31 58.25
	12400.00	91.75	359.58	11353.99	7525.99	1235.42	1178.93	-536.57	0.00	556217.80	788053.25	N 32 31 35.59	W 103 31 58.25
	12500.00	91.75	359.58	11350.94	7522.94	1334.72	1278.88	-537.29	0.00	556317.75	788052.52	N 32 31 36.58	W 103 31 58.25
	12530.70	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	11347.88	7519.88	1434.02	1378.83	-538.02	0.00	556417.70	788051.79	N 32 31 37.57	W 103 31 58.25
	12700.00	91.75	359.58	11344.83	7516.83	1533.31	1478.78	-538.75	0.00	556517.65	788051.07	N 32 31 38.56	W 103 31 58.25
	12800.00	91.75	359.58	11341.78	7513.78	1632.61	1578.73	-539.47	0.00	556617.60	788050.34	N 32 31 39.55	W 103 31 58.25
	12900.00	91.75	359.58	11338.72	7510.72	1731.91	1678.68	-540.20	0.00	556717.55	788049.61	N 32 31 40.54	W 103 31 58.25
	13000.00	91.75	359.58	11335.67	7507.67	1831.21	1778.63	-540.92	0.00	556817.49	788048.89	N 32 31 41.53	W 103 31 58.25
	13100.00	91.75	359.58	11332.61	7504.61	1930.50	1878.59	-541.65	0.00	556917.44	788048.16	N 32 31 42.52	W 103 31 58.25
	13200.00	91.75	359.58	11329.56	7501.56	2029.80	1978.54	-542.38	0.00	557017.39	788047.43	N 32 31 43.51	W 103 31 58.25
	13300.00	91.75	359.58	11326.51	7498.51	2129.10	2078.49	-543.10	0.00	557117.34	788046.71	N 32 31 44.50	W 103 31 58.25
	13400.00	91.75	359.58	11323.45	7495.45	2228.40	2178.44	-543.83	0.00	557217.29	788045.98	N 32 31 45.48	W 103 31 58.25
	13500.00	91.75	359.58	11320.40	7492.40	2327.69	2278.39	-544.56	0.00	557317.24	788045.26	N 32 31 46.47	W 103 31 58.25
	13600.00	91.75	359.58	11317.35	7489.35	2426.99	2378.34	-545.28	0.00	557417.18	788044.53	N 32 31 47.46	W 103 31 58.25
	13700.00	91.75	359.58	11314.29	7486.29	2526.29	2478.29	-546.01	0.00	557517.13	788043.80	N 32 31 48.45	W 103 31 58.25
	13800.00	91.75	359.58	11311.24	7483.24	2625.59	2578.24	-546.74	0.00	557617.08	788043.08	N 32 31 49.44	W 103 31 58.25
	13900.00	91.75	359.58	11308.18	7480.18	2724.88	2678.19	-547.46	0.00	557717.03	788042.35	N 32 31 50.43	W 103 31 58.25
	14000.00	91.75	359.58	11305.13	7477.13	2824.18	2778.14	-548.19	0.00	557816.98	788041.62	N 32 31 51.42	W 103 31 58.25
Cimarex Lynch 35 Federal #3H - PBHL	14100.00	91.75	359.58	11302.08	7474.08	2923.48	2878.09	-548.91	0.00	557916.93	788040.90	N 32 31 52.41	W 103 31 58.25
	14200.00	91.75	359.58	11299.02	7471.02	3022.78	2978.04	-549.64	0.00	558016.88	788040.17	N 32 31 53.40	W 103 31 58.25
	14300.00	91.75	359.58	11295.97	7467.97	3122.07	3077.99	-550.37	0.00	558116.82	788039.45	N 32 31 54.39	W 103 31 58.25
	14400.00	91.75	359.58	11292.91	7464.91	3221.37	3177.94	-551.09	0.00	558216.77	788038.72	N 32 31 55.37	W 103 31 58.25
	14500.00	91.75	359.58	11289.86	7461.86	3320.67	3277.90	-551.82	0.00	558316.72	788037.99	N 32 31 56.36	W 103 31 58.25
	14600.00	91.75	359.58	11286.81	7458.81	3419.97	3377.85	-552.55	0.00	558416.67	788037.27	N 32 31 57.35	W 103 31 58.25
	14700.00	91.75	359.58	11283.75	7455.75	3519.26	3477.80	-553.27	0.00	558516.62	788036.54	N 32 31 58.34	W 103 31 58.25
	14800.00	91.75	359.58	11280.70	7452.70	3618.56	3577.75	-554.00	0.00	558616.57	788035.81	N 32 31 59.33	W 103 31 58.25
	14900.00	91.75	359.58	11277.65	7449.65	3717.86	3677.70	-554.72	0.00	558716.51	788035.09	N 32 32 0.32	W 103 31 58.25
	15000.00	91.75	359.58	11274.59	7446.59	3817.16	3777.65	-555.45	0.00	558816.46	788034.36	N 32 32 1.31	W 103 31 58.25
	15100.00	91.75	359.58	11271.54	7443.54	3916.45	3877.60	-556.18	0.00	558916.41	788033.64	N 32 32 2.30	W 103 31 58.24
	15200.00	91.75	359.58	11268.48	7440.48	4015.75	3977.55	-556.90	0.00	559016.36	788032.91	N 32 32 3.29	W 103 31 58.24
	15300.00	91.75	359.58	11265.43	7437.43	4115.05	4077.50	-557.63	0.00	559116.31	788032.18	N 32 32 4.28	W 103 31 58.24
	15400.00	91.75	359.58	11262.38	7434.38	4214.35	4177.45	-558.36	0.00	559216.26	788031.46	N 32 32 5.26	W 103 31 58.24
	15500.00	91.75	359.58	11259.32	7431.32	4313.64	4277.40	-559.08	0.00	559316.20	788030.73	N 32 32 6.25	W 103 31 58.24
	15600.00	91.75	359.58	11256.27	7428.27	4412.94	4377.35	-559.81	0.00	559416.15	788030.00	N 32 32 7.24	W 103 31 58.24
	15700.00	91.75	359.58	11253.21	7425.21	4512.24	4477.30	-560.54	0.00	559516.10	788029.28	N 32 32 8.23	W 103 31 58.24
	15800.00	91.75	359.58	11250.16	7422.16	4611.54	4577.25	-561.26	0.00	559616.05	788028.55	N 32 32 9.22	W 103 31 58.24
	15805.26	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
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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 ° ' ")
		0.000	25.000		Act Stns	30.000	30.000	SLB_NSG+MSHOT-Depth Only		Original Borehole / Cimarex Lynch 35 Federal #3H Gyro+MWD 0ft to Update			
		25.000	5620.700		Act Stns	30.000	30.000	SLB_NSG+MSHOT		Original Borehole / Cimarex Lynch 35 Federal #3H Gyro+MWD 0ft to			
		5620.700	5648.000		1/100.000	30.000	30.000	SLB_NSG+MSHOT		Original Borehole / Cimarex Lynch 35 Federal #3H Gyro+MWD 0ft to			
		5648.000	5648.500		1/100.000	30.000	30.000	SLB_MWD-STD		Original Borehole / Cimarex Lynch 35 Federal #3H Gyro+MWD 0ft to			
		5648.500	15805.258		1/100.000	30.000	30.000	SLB_MWD-STD		Original Borehole / Cimarex Lynch 35 Federal #3H Rev3 TP 9-May-			