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District II
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
NM OIL CONSERVATION DIVISION
ARTESIA DISTRICT
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Phone copy to appropriate
District Office

JAN 27 2016

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30015-42166	² Pool Code 98018	³ Pool Name Wildcat: Bone Spring
⁴ Property Code 40444	⁵ Property Name HORNSBY 35 FEDERAL COM	
⁷ OGRID No. 215099	⁶ Operator Name CIMAREX ENERGY CO.	⁸ Well Number 4H
		⁹ Elevation 3260.1'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	35	26S	27E		290	SOUTH	2110	WEST	EDDY

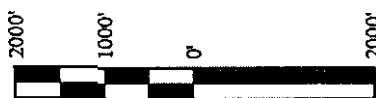
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	26S	27E		330	NORTH	1700	WEST	EDDY
¹² Dedicated Acres 224.04	¹³ Joint or Joint III	¹⁴ Consolidation Code	¹⁵ Order No.						

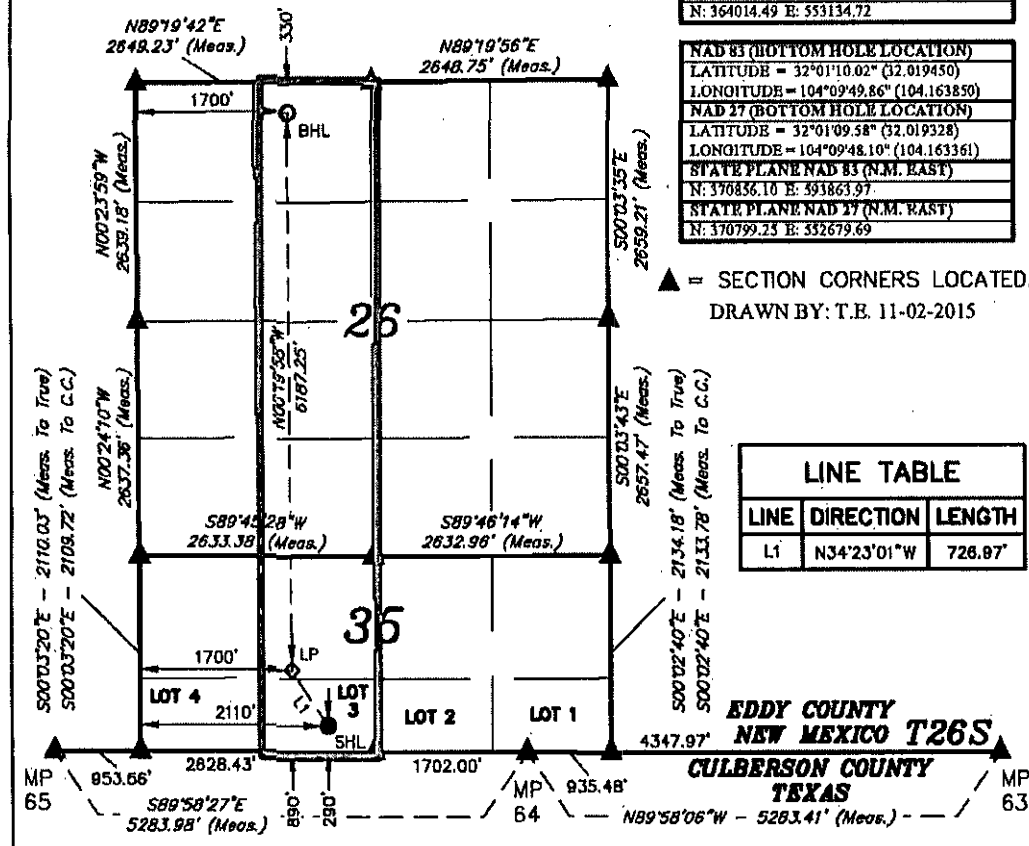
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE:

Distances referenced on plat to section lines are perpendicular.



SCALE



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.

Aricka Easterling 12/9/15
Signature Date

Aricka Easterling

Printed Name

aeasterling@cimarex.com

E-mail Address

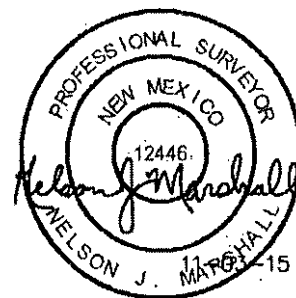
SURVEYOR CERTIFICATION

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.

October 27, 2015

Date of Survey

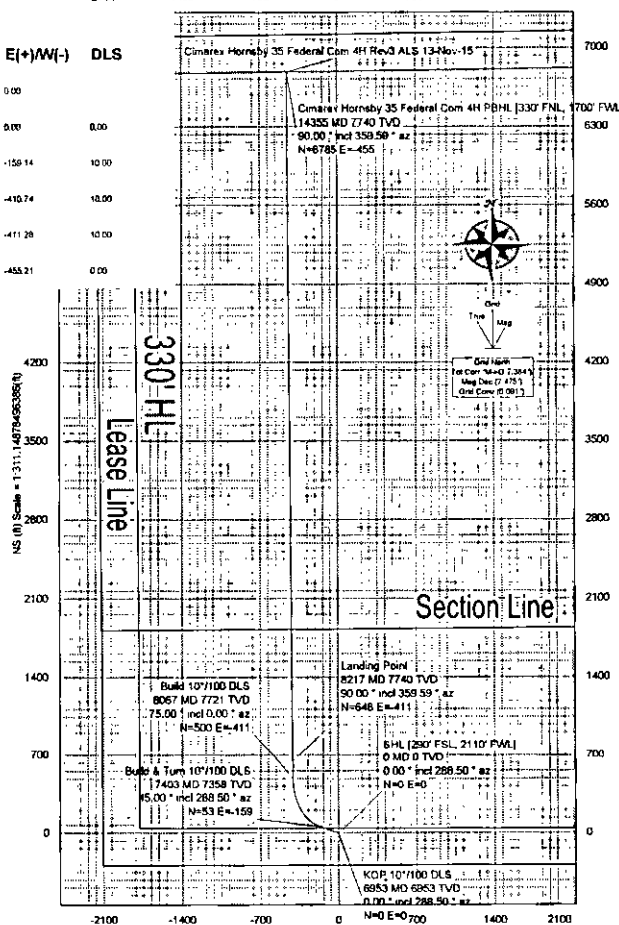
Signature and Seal of Professional Surveyor:



Certificate Number:

CONTROLLED	
Form 101 For issuing to Every member of DASH	CHESTER COUNTY 24 HOURS COUNCIL P.O. BOX 100000 AND 5 CHESTER, PA 19380-0000 (610) 336-1111
1. C. Scott 2. K. Scott 3. C. Scott 4. C. Scott	
Every member for	for

Cimarex Hornsby 35 Federal Com 4H Rev3 ALS 13-Nov-15 7000



EW (n) Scale = 1 311.14878496386(n)



Cimarex Hornsby 35 Federal Com 4H Rev3 ALS 13-Nov-15 Proposal
Geodetic Report
(Non-Def Plan)



Report Date:	November 13, 2015 - 05:57 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	357.871 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Hornsby 35 Federal Com 4H / Cimarex Hornsby 35 Federal Com 4H	TVD Reference Datum:	Ground level
Well:	Cimarex Hornsby 35 Federal Com 4H	TVD Reference Elevation:	3260.100 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3260.100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.475 °
Survey Name:	Cimarex Hornsby 35 Federal Com 4H Rev3 ALS 13-Nov-15	Total Gravity Field Strength:	998.6830mgm (9.80665 Based)
Survey Date:	October 09, 2013	Gravity Model:	DOX
Tort / AHD / DOI / ERD Ratio:	126.445 ° / 7000.310 ft / 6.215 / 0.904	Total Magnetic Field Strength:	48145.214 nT
Coordinate Reference System:	NA83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.717 °
Location Lat / Long:	N 32° 0' 2.86799", W 104° 9' 44.70074"	Declination Date:	November 13, 2015
Location Grid N/E Y/X:	N 364071.210 ftUS E 594319.140 ftUS	Magnetic Declination Model:	HDM 2015
CRS Grid Convergence Angle:	0.0906 °	North Reference:	Grid North
Grid Scale Factor:	0.99991231	Grid Convergence Used:	0.0906 °
Version / Patch:	2.8 \$72.0	Total Corr Mag North->Grid North:	7.3845 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100m)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
SHL [290' FSL 2110' FWL]	0.00	0.00	288.50	0.00	-3260.10	0.00	0.00	0.00	N/A	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	100.00	0.00	288.50	100.00	-3160.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	200.00	0.00	288.50	200.00	-3060.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	300.00	0.00	288.50	300.00	-2960.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	400.00	0.00	288.50	400.00	-2860.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	500.00	0.00	288.50	500.00	-2760.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	600.00	0.00	288.50	600.00	-2660.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	700.00	0.00	288.50	700.00	-2560.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	800.00	0.00	288.50	800.00	-2460.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	900.00	0.00	288.50	900.00	-2360.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1000.00	0.00	288.50	1000.00	-2260.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1100.00	0.00	288.50	1100.00	-2160.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1200.00	0.00	288.50	1200.00	-2060.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1300.00	0.00	288.50	1300.00	-1960.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1400.00	0.00	288.50	1400.00	-1860.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1500.00	0.00	288.50	1500.00	-1760.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1600.00	0.00	288.50	1600.00	-1660.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1700.00	0.00	288.50	1700.00	-1560.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft/US)	Easting (ft/US)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	1800.00	0.00	288.50	1800.00	-1460.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	1900.00	0.00	288.50	1900.00	-1380.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2000.00	0.00	288.50	2000.00	-1260.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2100.00	0.00	288.50	2100.00	-1180.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2200.00	0.00	288.50	2200.00	-1060.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2300.00	0.00	288.50	2300.00	-960.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2400.00	0.00	288.50	2400.00	-860.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2500.00	0.00	288.50	2500.00	-760.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2600.00	0.00	288.50	2600.00	-660.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2700.00	0.00	288.50	2700.00	-560.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2800.00	0.00	288.50	2800.00	-460.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	2900.00	0.00	288.50	2900.00	-360.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3000.00	0.00	288.50	3000.00	-260.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3100.00	0.00	288.50	3100.00	-160.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3200.00	0.00	288.50	3200.00	-60.10	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3300.00	0.00	288.50	3300.00	39.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3400.00	0.00	288.50	3400.00	139.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3500.00	0.00	288.50	3500.00	239.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3600.00	0.00	288.50	3600.00	339.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3700.00	0.00	288.50	3700.00	439.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3800.00	0.00	288.50	3800.00	539.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	3900.00	0.00	288.50	3900.00	639.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4000.00	0.00	288.50	4000.00	739.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4100.00	0.00	288.50	4100.00	839.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4200.00	0.00	288.50	4200.00	939.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4300.00	0.00	288.50	4300.00	1039.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4400.00	0.00	288.50	4400.00	1139.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4500.00	0.00	288.50	4500.00	1239.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4600.00	0.00	288.50	4600.00	1339.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4700.00	0.00	288.50	4700.00	1439.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4800.00	0.00	288.50	4800.00	1539.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	4900.00	0.00	288.50	4900.00	1639.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5000.00	0.00	288.50	5000.00	1739.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5100.00	0.00	288.50	5100.00	1839.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5200.00	0.00	288.50	5200.00	1939.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5300.00	0.00	288.50	5300.00	2039.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5400.00	0.00	288.50	5400.00	2139.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5500.00	0.00	288.50	5500.00	2239.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5600.00	0.00	288.50	5600.00	2339.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5700.00	0.00	288.50	5700.00	2439.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5800.00	0.00	288.50	5800.00	2539.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	5900.00	0.00	288.50	5900.00	2639.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6000.00	0.00	288.50	6000.00	2739.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6100.00	0.00	288.50	6100.00	2839.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6200.00	0.00	288.50	6200.00	2939.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6300.00	0.00	288.50	6300.00	3039.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6400.00	0.00	288.50	6400.00	3139.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6500.00	0.00	288.50	6500.00	3239.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6600.00	0.00	288.50	6600.00	3339.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6700.00	0.00	288.50	6700.00	3439.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6800.00	0.00	288.50	6800.00	3539.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	6900.00	0.00	288.50	6900.00	3639.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
KOP 10°/100 DLS	6953.00	0.00	288.50	6953.00	3692.90	0.00	0.00	0.00	0.00	364071.21	594319.14	N 32 0 2.87	W 104 9 44.70
	7000.00	4.70	288.50	6999.95	3739.85	0.69	0.61	-1.83	10.00	364071.82	594317.31	N 32 0 2.87	W 104 9 44.72
	7100.00	14.70	288.50	7098.39	3838.29	6.61	5.95	-17.79	10.00	364077.15	594301.36	N 32 0 2.93	W 104 9 44.91
	7200.00	24.70	288.50	7192.42	3932.32	16.47	16.63	-49.71	10.00	364087.84	594269.43	N 32 0 3.03	W 104 9 45.28
	7300.00	34.70	288.50	7278.17	4019.07	35.90	32.33	-96.64	10.00	364103.54	594222.51	N 32 0 3.19	W 104 9 45.82
	7400.00	44.70	288.50	7356.02	4095.92	56.38	52.58	-157.14	10.00	364123.78	594162.02	N 32 0 3.39	W 104 9 46.52
Build & Turn 10°/100 DLS	7403.00	45.00	288.50	7358.14	4098.04	59.12	53.25	-159.14	10.00	364124.45	594160.01	N 32 0 3.40	W 104 9 46.55
	7500.00	46.16	302.00	7426.19	4166.09	90.91	82.74	-221.48	10.00	364153.94	594097.68	N 32 0 3.69	W 104 9 47.27
	7600.00	48.93	315.04	7493.84	4233.74	138.91	128.64	-278.85	10.00	364199.84	594040.31	N 32 0 4.15	W 104 9 47.94

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7700.00	53.03	326.79	7556.92	4296.82	200.93	188.89	-327.49	10.00	364260.06	593991.68	N 32 0 4.74	W 104 9 48.50
	7800.00	58.17	337.21	7613.50	4353.40	275.08	261.67	-365.92	10.00	364332.85	593953.25	N 32 0 5.46	W 104 9 48.95
	7900.00	64.05	346.45	7661.87	4401.77	359.11	344.75	-392.98	10.00	364415.93	593926.19	N 32 0 6.29	W 104 9 49.26
	8000.00	70.47	354.77	7700.56	4440.46	450.47	435.62	-407.85	10.00	364506.79	593911.33	N 32 0 7.18	W 104 9 49.43
Build 107/100 DLS	8067.38	75.00	0.00	7720.56	4460.46	514.77	499.86	-410.74	10.00	364571.02	593908.43	N 32 0 7.82	W 104 9 49.46
	8100.00	78.26	359.91	7728.11	4468.01	546.49	531.58	-418.77	10.00	364602.75	593908.41	N 32 0 8.13	W 104 9 49.46
	8200.00	88.26	359.64	7739.83	4479.73	645.50	630.77	-411.17	10.00	364701.92	593908.01	N 32 0 9.12	W 104 9 49.46
Landing Point	8217.45	90.00	359.59	7740.09	4479.99	663.04	648.21	-411.28	10.00	364719.36	593907.89	N 32 0 9.29	W 104 9 49.46
	8300.00	90.00	359.59	7740.09	4479.99	745.56	730.76	-411.88	0.00	364801.90	593907.30	N 32 0 10.11	W 104 9 49.47
	8400.00	90.00	359.59	7740.09	4479.99	845.51	830.76	-412.56	0.00	364901.89	593906.59	N 32 0 11.10	W 104 9 49.48
	8500.00	90.00	359.59	7740.09	4479.99	945.47	930.76	-413.31	0.00	365001.88	593905.87	N 32 0 12.06	W 104 9 49.48
	8600.00	90.00	359.59	7740.09	4479.99	1045.42	1030.75	-414.02	0.00	365101.87	593905.15	N 32 0 13.07	W 104 9 49.49
	8700.00	90.00	359.59	7740.09	4479.99	1145.38	1130.75	-414.74	0.00	365201.86	593904.44	N 32 0 14.06	W 104 9 49.50
	8800.00	90.00	359.59	7740.09	4479.99	1245.33	1230.75	-415.45	0.00	365301.85	593903.72	N 32 0 15.05	W 104 9 49.50
	8900.00	90.00	359.59	7740.08	4479.98	1345.29	1330.74	-416.17	0.00	365401.84	593903.01	N 32 0 16.04	W 104 9 49.51
	9000.00	90.00	359.59	7740.08	4479.98	1445.24	1430.74	-416.89	0.00	365501.82	593902.29	N 32 0 17.03	W 104 9 49.52
	9100.00	90.00	359.59	7740.08	4479.98	1545.20	1530.74	-417.60	0.00	365601.81	593901.58	N 32 0 18.02	W 104 9 49.52
	9200.00	90.00	359.59	7740.08	4479.98	1645.15	1630.74	-418.32	0.00	365701.80	593900.86	N 32 0 19.01	W 104 9 49.53
	9300.00	90.00	359.59	7740.08	4479.98	1745.11	1730.73	-419.03	0.00	365801.79	593900.15	N 32 0 20.00	W 104 9 49.54
	9400.00	90.00	359.59	7740.08	4479.98	1845.06	1830.73	-419.75	0.00	365901.78	593899.43	N 32 0 20.99	W 104 9 49.54
	9500.00	90.00	359.59	7740.07	4479.97	1945.02	1930.73	-420.46	0.00	366001.77	593898.71	N 32 0 21.98	W 104 9 49.55
	9600.00	90.00	359.59	7740.07	4479.97	2044.97	2030.73	-421.18	0.00	366101.75	593898.00	N 32 0 22.97	W 104 9 49.55
	9700.00	90.00	359.59	7740.07	4479.97	2144.93	2130.72	-421.90	0.00	366201.74	593897.28	N 32 0 23.96	W 104 9 49.55
	9800.00	90.00	359.59	7740.07	4479.97	2244.88	2230.72	-422.61	0.00	366301.73	593896.57	N 32 0 24.95	W 104 9 49.57
	9900.00	90.00	359.59	7740.07	4479.97	2344.84	2330.72	-423.33	0.00	366401.72	593895.85	N 32 0 25.94	W 104 9 49.57
	10000.00	90.00	359.59	7740.07	4479.97	2444.79	2430.72	-424.04	0.00	366501.71	593895.14	N 32 0 26.93	W 104 9 49.58
	10100.00	90.00	359.59	7740.07	4479.97	2544.75	2530.71	-424.76	0.00	366601.70	593894.42	N 32 0 27.92	W 104 9 49.59
	10200.00	90.00	359.59	7740.06	4479.96	2644.70	2630.71	-425.47	0.00	366701.69	593893.70	N 32 0 28.91	W 104 9 49.59
	10300.00	90.00	359.59	7740.06	4479.96	2744.66	2730.71	-426.19	0.00	366801.67	593892.99	N 32 0 29.90	W 104 9 49.60
	10400.00	90.00	359.59	7740.06	4479.96	2844.61	2830.71	-426.91	0.00	366901.66	593892.27	N 32 0 30.89	W 104 9 49.61
	10500.00	90.00	359.59	7740.06	4479.96	2944.57	2930.70	-427.62	0.00	367001.65	593891.56	N 32 0 31.88	W 104 9 49.61
	10600.00	90.00	359.59	7740.06	4479.96	3044.52	3030.70	-428.34	0.00	367101.64	593890.84	N 32 0 32.86	W 104 9 49.62
	10700.00	90.00	359.59	7740.06	4479.96	3144.48	3130.70	-429.05	0.00	367201.63	593890.13	N 32 0 33.85	W 104 9 49.63
	10800.00	90.00	359.59	7740.05	4479.95	3244.43	3230.70	-429.77	0.00	367301.62	593889.41	N 32 0 34.84	W 104 9 49.63
	10900.00	90.00	359.59	7740.05	4479.95	3344.39	3330.69	-430.48	0.00	367401.60	593888.69	N 32 0 35.83	W 104 9 49.64
	11000.00	90.00	359.59	7740.05	4479.95	3444.34	3430.69	-431.20	0.00	367501.59	593887.98	N 32 0 36.82	W 104 9 49.65
	11100.00	90.00	359.59	7740.05	4479.95	3544.30	3530.69	-431.92	0.00	367601.58	593887.26	N 32 0 37.81	W 104 9 49.65
	11200.00	90.00	359.59	7740.05	4479.95	3644.25	3630.69	-432.63	0.00	367701.57	593886.55	N 32 0 38.80	W 104 9 49.66
	11300.00	90.00	359.59	7740.05	4479.95	3744.21	3730.68	-433.35	0.00	367801.56	593885.83	N 32 0 39.79	W 104 9 49.66
	11400.00	90.00	359.59	7740.05	4479.95	3844.16	3830.68	-434.06	0.00	367901.55	593885.12	N 32 0 40.78	W 104 9 49.67
	11500.00	90.00	359.59	7740.04	4479.94	3944.12	3930.68	-434.78	0.00	368001.54	593884.40	N 32 0 41.77	W 104 9 49.68
	11600.00	90.00	359.59	7740.04	4479.94	4044.07	4030.68	-435.49	0.00	368101.52	593883.69	N 32 0 42.76	W 104 9 49.68
	11700.00	90.00	359.59	7740.04	4479.94	4144.03	4130.67	-436.21	0.00	368201.51	593882.97	N 32 0 43.75	W 104 9 49.69
	11800.00	90.00	359.59	7740.04	4479.94	4243.98	4230.67	-436.93	0.00	368301.50	593882.25	N 32 0 44.74	W 104 9 49.70
	11900.00	90.00	359.59	7740.04	4479.94	4343.94	4330.67	-437.64	0.00	368401.49	593881.54	N 32 0 45.73	W 104 9 49.70
	12000.00	90.00	359.59	7740.04	4479.94	4443.89	4430.67	-438.36	0.00	368501.48	593880.82	N 32 0 46.72	W 104 9 49.71
	12100.00	90.00	359.59	7740.03	4479.93	4543.85	4530.66	-439.07	0.00	368601.47	593880.11	N 32 0 47.71	W 104 9 49.72
	12200.00	90.00	359.59	7740.03	4479.93	4643.80	4630.66	-439.79	0.00	368701.45	593879.39	N 32 0 48.70	W 104 9 49.72
	12300.00	90.00	359.59	7740.03	4479.93	4743.76	4730.66	-440.50	0.00	368801.44	593878.68	N 32 0 49.69	W 104 9 49.73
	12400.00	90.00	359.59	7740.03	4479.93	4843.71	4830.66	-441.22	0.00	368901.43	593877.96	N 32 0 50.68	W 104 9 49.74
	12500.00	90.00	359.59	7740.03	4479.93	4943.67	4930.65	-441.94	0.00	369001.42	593877.24	N 32 0 51.67	W 104 9 49.74
	12600.00	90.00	359.59	7740.03	4479.93	5043.62	5030.65	-442.65	0.00	369101.41	593876.53	N 32 0 52.66	W 104 9 49.75
	12700.00	90.00	359.59	7740.02	4479.92	5143.58	5130.65	-443.37	0.00	369201.40	593875.81	N 32 0 53.65	W 104 9 49.76
	12800.00	90.00	359.59	7740.02	4479.92	5243.53	5230.64	-444.08	0.00	369301.39	593875.10	N 32 0 54.63	W 104 9 49.76
	12900.00	90.00	359.59	7740.02	4479.92	5343.49	5330.64	-444.80	0.00	369401.37	593874.38	N 32 0 55.62	W 104 9 49.77
	13000.00	90.00	359.59	7740.02	4479.92	5443.44	5430.64	-445.51	0.00	369501.36	593873.67	N 32 0 56.61	W 104 9 49.78
	13100.00	90.00	359.59	7740.02	4479.92	5543.40	5530.64	-446.23	0.00	369601.35	593872.95	N 32 0 57.60	W 104 9 49.78
	13200.00	90.00	359.59	7740.02	4479.92	5643.35	5630.63	-446.95	0.00	369701.34	593872.23	N 32 0 58.59	W 104 9 49.79
	13300.00	90.00	359.59	7740.02	4479.92	5743.31	5730.63	-447.66	0.00	369801.33	593871.52	N 32 0 59.58	W 104 9 49.79
	13400.00	90.00	359.59	7740.01	4479.91	5843.26	5830.63	-448.38	0.00	369901.32	593870.80	N 32 1 0.57	W 104 9 49.80
	13500.00	90.00	359.59	7740.01	4479.91	5943.22	5930.63	-449.09	0.00	370001.31	593870.09	N 32 1 1.56	W 104 9 49.81
	13600.00	90.00	359.59	7740.01	4479.91	6043.17	6030.62	-449.81	0.00	370101.29	593869.37	N 32 1 2.55	W 104 9 49.81

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 ° ' '')
	13700.00	90.00	359.59	7740.01	4479.91	6143.13	6130.62	-450.52	0.00	370201.28	593868.66	N 32 1 3.54	W 104 9 49 82
	13800.00	90.00	359.59	7740.01	4479.91	6243.08	6230.62	-451.24	0.00	370301.27	593867.94	N 32 1 4.53	W 104 9 49 83
	13900.00	90.00	359.59	7740.01	4479.91	6343.04	6330.62	-451.96	0.00	370401.26	593867.23	N 32 1 5.52	W 104 9 49 83
	14000.00	90.00	359.59	7740.01	4479.91	6442.99	6430.61	-452.67	0.00	370501.25	593866.51	N 32 1 6.51	W 104 9 49 84
	14100.00	90.00	359.59	7740.00	4479.90	6542.95	6530.61	-453.39	0.00	370601.24	593865.79	N 32 1 7.50	W 104 9 49 85
	14200.00	90.00	359.59	7740.00	4479.90	6642.90	6630.61	-454.10	0.00	370701.22	593865.08	N 32 1 8.49	W 104 9 49 85
	14300.00	90.00	359.59	7740.00	4479.90	6742.86	6730.61	-454.82	0.00	370801.21	593864.36	N 32 1 9.48	W 104 9 49 86

Cimarex
Hornsby 35
Federal Com 4H
PBHL [330' FNL,
1700' FWL]

14354.89 90.00 359.59 7740.00 4479.90 6797.73 6785.50 -455.21 0.00 370856.10 593863.97 N 32 1 10.02 W 104 9 49 86

Survey Type: Non-Def Plan

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14354.894	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Hornsby 35 Federal Com 4H Rev3