

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Huerfano Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-4170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-1460 Fax: (505) 476-3462

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

ARTESIA DISTRICT

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

☒ AMENDED REPORT

JAN 27 2016

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30015-42182	Pool Code 98018	Pool Name Wildcat Bone Spring
Property Code 40358	Property Name KLEIN 33 FEDERAL COM	Well Number 10H
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3212'

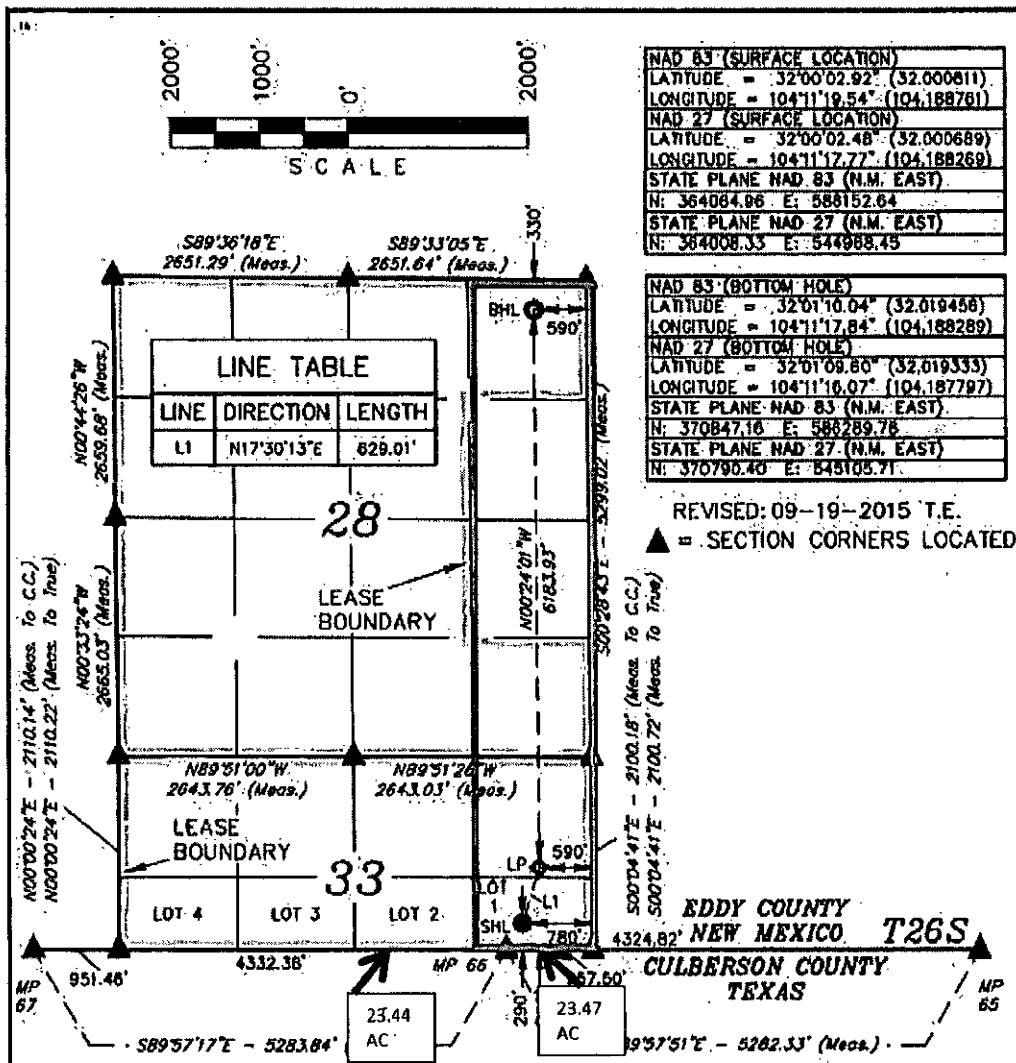
Surface Location

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	26S	27E		290	SOUTH	780	EAST	EDDY

Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	26S	27E		330	NORTH	590	EAST	EDDY
Dedicated Acres 223.47		Lot 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.



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 leased 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 10/13/15
Signature Date

Aricka Easterling

Printed Name:

aeasterling@cimarex.com

E-mail Address

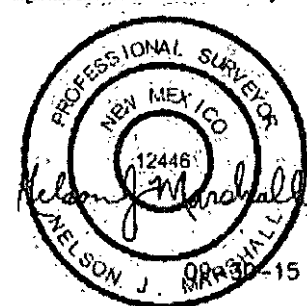
SURVEYOR CERTIFICATION

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.

August 29, 2013

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

Cimarex Klein 33 Federal Com 10H Rev2 JLP 9-Oct-15 Proposal Geodetic Report

(Non-Def Plan)



Report Date:	October 09, 2015 - 03:24 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	1.158 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Klein 33 Federal Com #10H / Cimarex Klein 33 Federal Com #10H	TVD Reference Datum:	Ground level
Well:	Cimarex Klein 33 Federal Com #10H	TVD Reference Elevation:	3212.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3212.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.524 °
Survey Name:	Cimarex Klein 33 Federal Com 10H Rev2 JLP 9-Oct-15	Total Gravity Field Strength:	998.8847mgn (9 80665 Based)
Survey Date:	October 09, 2015	Gravity Model:	DOX
Tort / AHD / DDI / ERD Ratio:	108 008 ° / 6861 454 ft / 8.140 / 0.918	Total Magnetic Field Strength:	48145.113 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.710 °
Location Lat / Long:	N 32° 0' 2.92405", W 104° 11' 19.54174"	Declination Date:	October 09, 2015
Location Grid N/E/Y/X:	N 364064.960 ftUS, E 586152.840 ftUS	Magnetic Declination Model:	HDGM 2015
CRS Grid Convergence Angle:	0.0768 °	North Reference:	Grid North
Grid Scale Factor:	0.99991139	Grid Convergence Used:	0.0768 °
Version / Patch:	2.8.572.0	Total Corr Mag North->Grid North:	7.4475 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Cimarex Klein 33 Federal Com 10H	0.00	0.00	90.00	0.00	0.00	0.00	0.00	N/A	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	100.00	0.00	90.00	100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	200.00	0.00	90.00	200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	300.00	0.00	90.00	300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	400.00	0.00	90.00	400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	500.00	0.00	90.00	500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	600.00	0.00	90.00	600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	700.00	0.00	90.00	700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	800.00	0.00	90.00	800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	900.00	0.00	90.00	900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1000.00	0.00	90.00	1000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1100.00	0.00	90.00	1100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1200.00	0.00	90.00	1200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1300.00	0.00	90.00	1300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1400.00	0.00	90.00	1400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1500.00	0.00	90.00	1500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1600.00	0.00	90.00	1600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1700.00	0.00	90.00	1700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1800.00	0.00	90.00	1800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	1900.00	0.00	90.00	1900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2000.00	0.00	90.00	2000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2100.00	0.00	90.00	2100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2200.00	0.00	90.00	2200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2300.00	0.00	90.00	2300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2400.00	0.00	90.00	2400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2500.00	0.00	90.00	2500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2600.00	0.00	90.00	2600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2700.00	0.00	90.00	2700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2800.00	0.00	90.00	2800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	2900.00	0.00	90.00	2900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3000.00	0.00	90.00	3000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3100.00	0.00	90.00	3100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3200.00	0.00	90.00	3200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3300.00	0.00	90.00	3300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3400.00	0.00	90.00	3400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3500.00	0.00	90.00	3500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3600.00	0.00	90.00	3600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3700.00	0.00	90.00	3700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3800.00	0.00	90.00	3800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	3900.00	0.00	90.00	3900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4000.00	0.00	90.00	4000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4100.00	0.00	90.00	4100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4200.00	0.00	90.00	4200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4300.00	0.00	90.00	4300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4400.00	0.00	90.00	4400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4500.00	0.00	90.00	4500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4600.00	0.00	90.00	4600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4700.00	0.00	90.00	4700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4800.00	0.00	90.00	4800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	4900.00	0.00	90.00	4900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5000.00	0.00	90.00	5000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5100.00	0.00	90.00	5100.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5200.00	0.00	90.00	5200.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5300.00	0.00	90.00	5300.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5400.00	0.00	90.00	5400.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5500.00	0.00	90.00	5500.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5600.00	0.00	90.00	5600.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5700.00	0.00	90.00	5700.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5800.00	0.00	90.00	5800.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	5900.00	0.00	90.00	5900.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54
	6000.00	0.00	90.00	6000.00	0.00	0.00	0.00	0.00	364064.96	586152.84	N 32 0 2.92	W 104 11 19.54

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6100.00	0.00	90.00	6100.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6200.00	0.00	90.00	6200.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6300.00	0.00	90.00	6300.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6400.00	0.00	90.00	6400.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6500.00	0.00	90.00	6500.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6600.00	0.00	90.00	6600.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6700.00	0.00	90.00	6700.00	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
KOP - Build @ 12°/100'	6719.70	0.00	90.00	6719.70	0.00	0.00	0.00	0.00	364064.96	566152.64	N 32 0	2.92 W 104 11 19.54
	6800.00	9.84	90.00	6799.62	0.14	0.00	6.74	12.00	364064.96	566159.38	N 32 0	2.92 W 104 11 19.48
Build & Turn @ 12°/100'	6880.12	19.25	90.00	6877.12	0.54	0.00	26.70	12.00	364064.96	566179.33	N 32 0	2.92 W 104 11 19.23
	6900.00	19.36	82.79	6895.88	1.09	0.41	33.24	12.00	364065.37	566185.88	N 32 0	2.93 W 104 11 19.16
	7000.00	23.70	51.82	6889.18	16.29	14.97	65.60	12.00	364079.93	566218.24	N 32 0	3.07 W 104 11 18.78
	7100.00	32.02	33.06	7077.68	51.67	49.74	95.98	12.00	364114.89	566248.61	N 32 0	3.41 W 104 11 18.43
	7200.00	42.01	21.93	7157.52	105.66	103.20	123.04	12.00	364166.15	566275.67	N 32 0	3.64 W 104 11 18.11
	7300.00	52.73	14.54	7225.19	175.92	173.01	145.60	12.00	364237.95	566298.23	N 32 0	4.63 W 104 11 17.85
	7400.00	63.78	9.03	7277.78	256.36	256.13	162.69	12.00	364321.06	566315.31	N 32 0	5.46 W 104 11 17.65
	7500.00	75.01	4.49	7312.91	352.35	348.92	173.54	12.00	364413.84	566326.17	N 32 0	6.37 W 104 11 17.52
	7600.00	86.32	0.41	7329.12	450.82	447.32	177.70	12.00	364512.24	566330.32	N 32 0	7.35 W 104 11 17.47
Landing Point	7619.73	88.55	356.63	7330.00	470.52	467.03	177.71	12.00	364531.94	566330.33	N 32 0	7.54 W 104 11 17.47
	7700.00	88.55	356.63	7332.03	550.74	547.27	177.19	0.00	364612.18	566329.81	N 32 0	8.34 W 104 11 17.48
	7800.00	88.55	356.63	7334.56	650.68	647.24	176.54	0.00	364712.14	566329.17	N 32 0	9.33 W 104 11 17.48
	7900.00	88.55	356.63	7337.09	750.61	747.20	175.90	0.00	364812.10	566326.52	N 32 0	10.32 W 104 11 17.49
	8000.00	88.55	356.63	7339.63	850.54	847.17	175.25	0.00	364912.05	566327.88	N 32 0	11.30 W 104 11 17.49
	8100.00	88.55	356.63	7342.16	950.47	947.14	174.61	0.00	365012.01	566327.23	N 32 0	12.29 W 104 11 17.50
	8200.00	88.55	356.63	7344.69	1050.41	1047.10	173.96	0.00	365111.97	566326.59	N 32 0	13.28 W 104 11 17.51
	8300.00	88.55	356.63	7347.22	1150.34	1147.07	173.32	0.00	365211.92	566325.94	N 32 0	14.27 W 104 11 17.51
	8400.00	88.55	356.63	7349.75	1250.27	1247.03	172.67	0.00	365311.88	566325.30	N 32 0	15.26 W 104 11 17.52
	8500.00	88.55	356.63	7352.28	1350.20	1347.00	172.03	0.00	365411.84	566324.65	N 32 0	16.25 W 104 11 17.52
	8600.00	88.55	356.63	7354.81	1450.13	1446.97	171.38	0.00	365511.79	566324.01	N 32 0	17.24 W 104 11 17.53
	8700.00	88.55	356.63	7357.34	1550.07	1546.93	170.74	0.00	365611.75	566323.36	N 32 0	18.23 W 104 11 17.53
	8800.00	88.55	356.63	7359.87	1650.00	1646.90	170.09	0.00	365711.71	566322.72	N 32 0	19.22 W 104 11 17.54
	8900.00	88.55	356.63	7362.40	1749.93	1740.86	169.45	0.00	365811.67	566322.08	N 32 0	20.21 W 104 11 17.55
	9000.00	88.55	356.63	7364.94	1849.86	1840.83	168.81	0.00	365911.62	566321.43	N 32 0	21.20 W 104 11 17.55
	9100.00	88.55	356.63	7367.47	1949.80	1940.80	168.16	0.00	366011.58	566320.79	N 32 0	22.19 W 104 11 17.56
	9200.00	88.55	356.63	7370.00	2049.73	2046.76	167.52	0.00	366111.54	566320.14	N 32 0	23.18 W 104 11 17.56
	9300.00	88.55	356.63	7372.53	2149.66	2146.73	166.88	0.00	366211.49	566319.50	N 32 0	24.16 W 104 11 17.57
	9400.00	88.55	356.63	7375.06	2249.59	2246.69	166.23	0.00	366311.45	566318.86	N 32 0	25.15 W 104 11 17.58
	9500.00	88.55	356.63	7377.59	2349.53	2346.66	165.58	0.00	366411.41	566318.21	N 32 0	26.14 W 104 11 17.58
	9600.00	88.55	356.63	7380.12	2449.46	2446.62	164.93	0.00	366511.36	566317.57	N 32 0	27.13 W 104 11 17.59
	9700.00	88.55	356.63	7382.66	2549.39	2546.59	164.30	0.00	366611.32	566316.93	N 32 0	28.12 W 104 11 17.59
	9800.00	88.55	356.63	7385.19	2649.32	2646.56	163.66	0.00	366711.28	566316.28	N 32 0	29.11 W 104 11 17.60
	9900.00	88.55	356.63	7387.72	2749.26	2746.52	163.02	0.00	366811.23	566315.64	N 32 0	30.10 W 104 11 17.61
	10000.00	88.55	356.63	7390.25	2849.19	2846.49	162.37	0.00	366911.19	566315.00	N 32 0	31.09 W 104 11 17.61
	10100.00	88.55	356.63	7392.78	2949.12	2946.45	161.73	0.00	367011.15	566314.36	N 32 0	32.08 W 104 11 17.62
	10200.00	88.55	356.63	7395.32	3049.05	3046.42	161.09	0.00	367111.10	566313.71	N 32 0	33.07 W 104 11 17.62
	10300.00	88.55	356.63	7397.85	3148.99	3146.39	160.45	0.00	367211.06	566313.07	N 32 0	34.06 W 104 11 17.63
	10400.00	88.55	356.63	7400.38	3248.92	3246.35	159.80	0.00	367311.02	566312.43	N 32 0	35.05 W 104 11 17.64
	10500.00	88.55	356.63	7402.91	3348.85	3346.32	159.16	0.00	367410.97	566311.79	N 32 0	36.04 W 104 11 17.64
	10600.00	88.55	356.63	7405.44	3448.78	3446.28	158.52	0.00	367510.93	566311.14	N 32 0	37.02 W 104 11 17.65
	10700.00	88.55	356.63	7407.98	3548.72	3546.25	157.88	0.00	367610.89	566310.50	N 32 0	38.01 W 104 11 17.65
	10800.00	88.55	356.63	7410.51	3648.65	3646.22	157.23	0.00	367710.84	566309.86	N 32 0	39.00 W 104 11 17.66
	10900.00	88.55	356.63	7413.04	3748.58	3746.18	156.59	0.00	367810.80	566309.22	N 32 0	39.99 W 104 11 17.66
	11000.00	88.55	356.63	7415.57	3848.51	3846.15	155.95	0.00	367910.76	566308.58	N 32 0	40.98 W 104 11 17.67
	11100.00	88.55	356.63	7418.11	3948.45	3946.11	155.31	0.00	368010.72	566307.94	N 32 0	41.97 W 104 11 17.68
	11200.00	88.55	356.63	7420.64	4048.38	4046.08	154.67	0.00	368110.67	566307.29	N 32 0	42.96 W 104 11 17.68
	11300.00	88.55	356.63	7423.17	4148.31	4146.04	154.03	0.00	368210.63	566306.65	N 32 0	43.95 W 104 11 17.69
	11400.00	88.55	356.63	7425.71	4248.24	4246.01	153.39	0.00	368310.59	566306.01	N 32 0	44.94 W 104 11 17.69
	11500.00	88.55	356.63	7428.24	4348.18	4345.98	152.74	0.00	368410.54	566305.37	N 32 0	45.93 W 104 11 17.70
	11600.00	88.55	356.63	7430.77	4448.11	4445.94	152.10	0.00	368510.50	566304.73	N 32 0	46.92 W 104 11 17.71
	11700.00	88.55	356.63	7433.30	4548.04	4545.91	151.46	0.00	368610.46	566304.09	N 32 0	47.91 W 104 11 17.71
	11800.00	88.55	356.63	7435.84	4647.97	4645.87	150.82	0.00	368710.41	566303.45	N 32 0	48.90 W 104 11 17.72
	11900.00	88.55	356.63	7438.37	4747.91	4745.84	150.18	0.00	368810.37	566302.81	N 32 0	49.89 W 104 11 17.72
	12000.00	88.55	356.63	7440.90	4847.84	4845.81	149.54	0.00	368910.33	566302.17	N 32 0	50.87 W 104 11 17.73
	12100.00	88.55	356.63	7443.44	4947.77	4945.77	148.90	0.00	369010.28	566301.53	N 32 0	51.86 W 104 11 17.74
	12200.00	88.55	356.63	7445.97	5047.70	5045.74	148.26	0.00	369110.24	566300.89	N 32 0	52.85 W 104 11 17.74
	12300.00	88.55	356.63	7448.50	5147.64	5145.70	147.62	0.00	369210.20	566300.25	N 32 0	53.84 W 104 11 17.75
	12400.00	88.55	356.63	7451.04	5247.57	5245.67	146.98	0.00	369310.15	566299.61	N 32 0	54.83 W 104 11 17.75
	12500.00	88.55	356.63	7453.57	5347.50	5345.63	146.34	0.00	369410.11	566298.97	N 32 0	55.82 W 104 11 17.76
	12600.00	88.55	356.63	7456.10	5447.43	5445.60	145.70	0.00	369510.07	566298.33	N 32 0	56.81 W 104 11 17.76
	12700.00	88.55	356.63	7458.64	5547.37	5545.57	145.06	0.00	369610.02	566297.69	N 32 0	57.80 W 104 11 17.77
	12800.00	88.55	356.63	7461.17	5647.30	5645.53	144.42	0.00	369709.98	566297.05	N 32 0	58.79 W 104 11 17.78
	12900.00	88.55	356.63	7463.70	5747.23	5745.50	143.78	0.00	369809.94	566296.41	N 32 0	59.78 W 104 11 17.78
	13000.00	88.55	356.63	7466.24	5847.16	5845.46	143.14	0.00	369909.89	566295.77	N 32 0	1.77 W 104 11 17.79
	13100.00	88.55	356.63	7468.77	5947.10	5945.43	142.50	0.00	370009.85	566295.13	N 32 1	1.76 W 104 11 17.79
	13200.00	88.55	356.63	7471.31	6047.03	6045.40	141.86	0.00	370109.81	566294.49	N 32 1	2.74 W 104 11 17.80
	13300.00	88.55	356.63	7473.84	6146.96	6145.36	141.22	0.00	370209.76	566293.85	N 32 1	3.73 W 104 11 17.81
	13400.00	88.55	356.63	7476.37	6246.89	6245.33	140.58	0.00	370309.72	566293.21	N 32 1	4.72

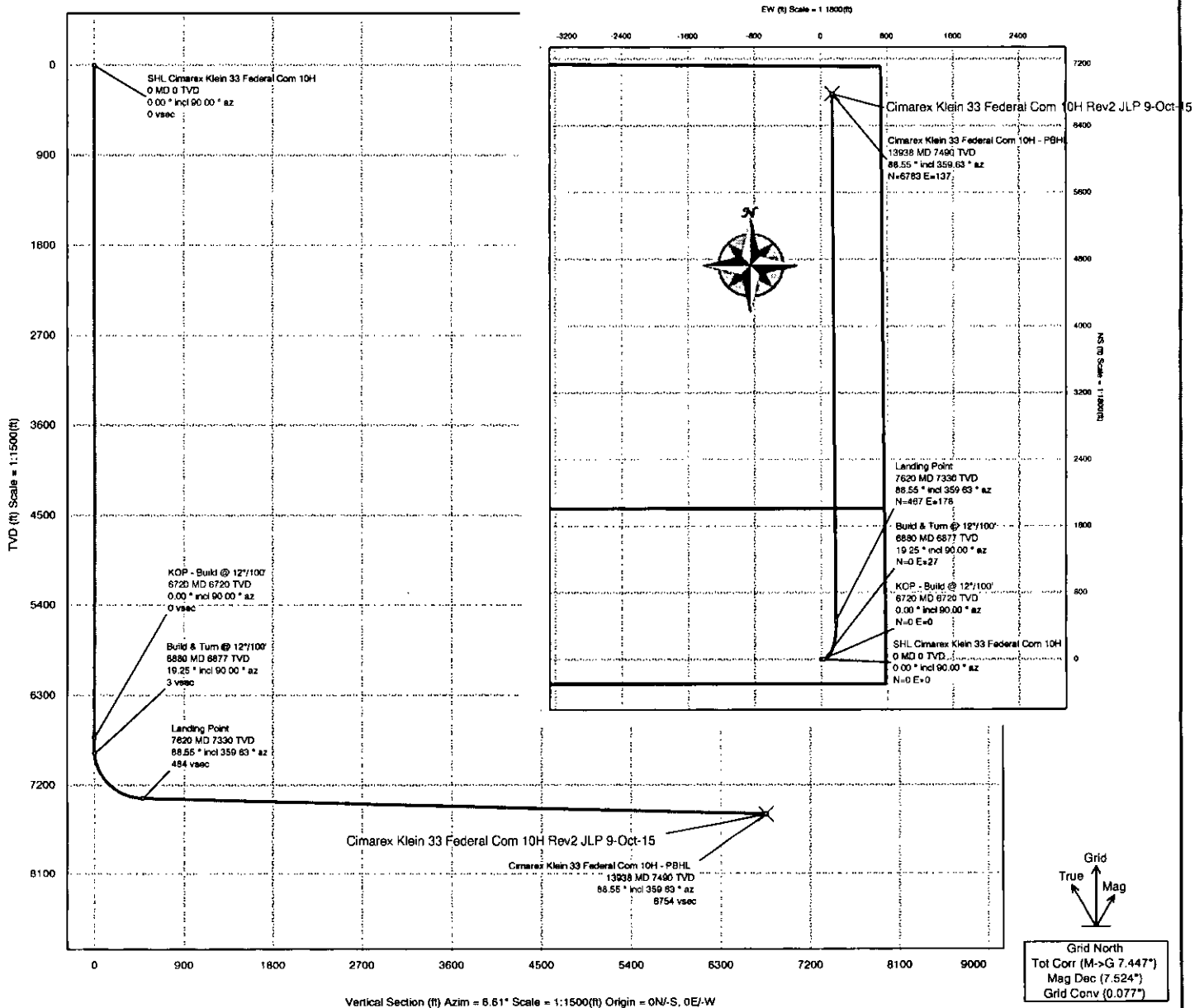
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (mUS)	Easting (mUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
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Survey Type: Non-Del Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95 000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EDU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	13637.671	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Klein 33 Federal Com 10H Rev2 JLP 9-

Borehole: Original Borehole		Well: Klein 33 Federal Com # 10H	Field: NM Eddy County (NAD 83)	Structure: TBD
Gravity & Magnetic Parameters		Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet		Miscellaneous
Model: HDGM	Dip: 59.71°	Date: 09-Oct-2015	Lat: N 32 0 2.92	Northings: 364064.96RU
2015	FS: 48145.113m	Gravity FS: 998.885mgm (0.80665 Based)	Lon: W 104 11 19.54	Eastings: 56152.64RU
Mag Dec: 7.524°			Scale Fact: 0.9991139	Plan: Rev2 JLP 9-Oct-15



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Cimarex Klein 33 Federal Com 10H	0.00	0.00	90.00	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100'	6719.70	0.00	90.00	6719.70	0.00	0.00	0.00	0.00
Build & Turn @ 12°/100'	6880.12	19.25	90.00	6877.12	0.54	0.00	26.70	12.00
Landing Point	7619.73	88.55	359.63	7330.00	470.52	467.03	177.71	12.00
Cimarex Klein 33 Federal Com 10H - PBHL	13937.67	88.55	359.63	7490.00	6784.20	6782.81	137.15	0.00

CONTROLLED

Plan ref	Cimarex Klein 33 Federal Com 10H Rev2 JLP 9-Oct-15
Drawing ref	
Copy number	of 3
Date	09-Oct-2015

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for