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District III
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District IV
1230 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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

WELL OIL CONSERVATION

ARTESIA DISTRICT

AMENDED REPORT

JAN 27 2016

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30015-42180	Pool Code 98018	Well Name Wildcat, Bone Spring
Property Code 40358	Property Name KLEIN 33 FEDERAL COM	Well Number 7H
GRUB No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3197'

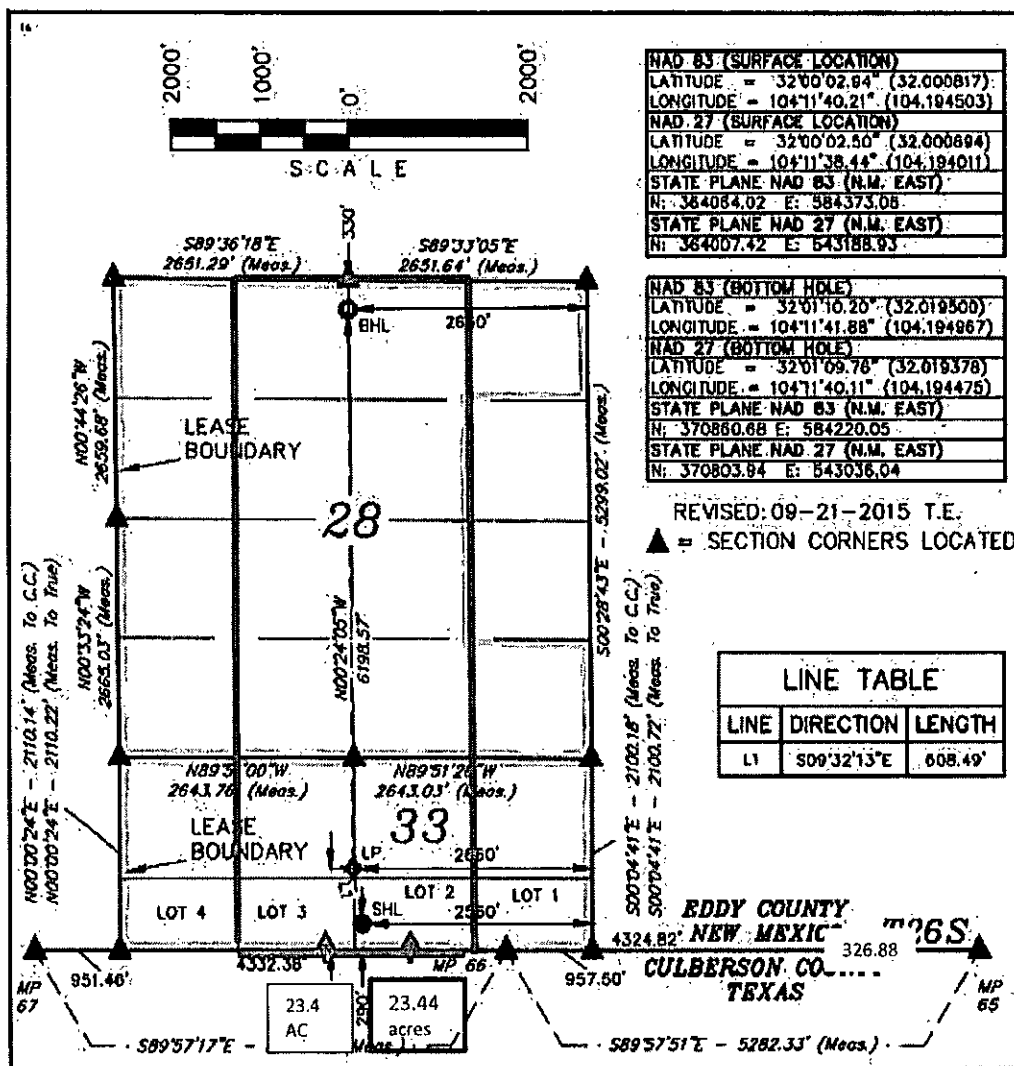
"Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	33	26S	27E		290	SOUTH	2560	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	26S	27E		330	NORTH	2660	EAST	EDDY
Dedicated Acres 246.82	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.



"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 unreleased 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 01/15/15
Signature Date

Aricka Easterling

Printed Name

aeasterling@cimarex.com

E-mail Address

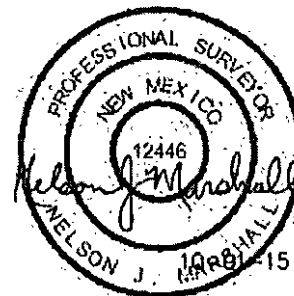
"SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of a real survey 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 7H Rev3 JLP 9-Oct-15 Proposal Geodetic Report

(Non-Def Plan)



Report Date: October 09, 2015 - 03:20 PM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Klein 33 Federal Com #7H / Cimarex Klein 33 Federal Com #7H
Well: Cimarex Klein 33 Federal Com #7H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Klein 33 Federal Com 7H Rev3 JLP 9-Oct-15
Survey Date: October 09, 2015
Tort / AHD / DDI / ERD Ratio: 94.119' / 8816.597' ft / 8.078 / 0.909
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 0' 2.93783" W 104° 11' 40.20876"
Location Grid N/E Y/X: N 384064.020 NUS, E 584373.060 NUS
CRS Grid Convergence Angle: 0.0736°
Grid Scale Factor: 0.99991121
Version / Patch: 2.8.572.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 358.710° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground level
TVD Reference Elevation: 3197.000 ft above MSL
Seabed / Ground Elevation: 3197.000 ft above MSL
Magnetic Declination: 7.532°
Total Gravity Field Strength: 998.6852mgn (9.80665 Based)
Gravity Model: DOX
Total Magnetic Field Strength: 48142.692 nT
Magnetic Dip Angle: 59.708°
Declination Date: October 09, 2015
Magnetic Declination Model: HDGM 2015
North Reference: Grid North
Grid Convergence Used: 0.0736°
Total Corr Mag North->Grid North: 7.4585°
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 7H	0.00	0.00	318.00	0.00	0.00	0.00	0.00	N/A	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	100.00	0.00	318.00	100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	200.00	0.00	318.00	200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	300.00	0.00	318.00	300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	400.00	0.00	318.00	400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	500.00	0.00	318.00	500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	600.00	0.00	318.00	600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	700.00	0.00	318.00	700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	800.00	0.00	318.00	800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	900.00	0.00	318.00	900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1000.00	0.00	318.00	1000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1100.00	0.00	318.00	1100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1200.00	0.00	318.00	1200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1300.00	0.00	318.00	1300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1400.00	0.00	318.00	1400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1500.00	0.00	318.00	1500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1600.00	0.00	318.00	1600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1700.00	0.00	318.00	1700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1800.00	0.00	318.00	1800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	1900.00	0.00	318.00	1900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2000.00	0.00	318.00	2000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2100.00	0.00	318.00	2100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2200.00	0.00	318.00	2200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2300.00	0.00	318.00	2300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2400.00	0.00	318.00	2400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2500.00	0.00	318.00	2500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2600.00	0.00	318.00	2600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2700.00	0.00	318.00	2700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2800.00	0.00	318.00	2800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	2900.00	0.00	318.00	2900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3000.00	0.00	318.00	3000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3100.00	0.00	318.00	3100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3200.00	0.00	318.00	3200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3300.00	0.00	318.00	3300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3400.00	0.00	318.00	3400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3500.00	0.00	318.00	3500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3600.00	0.00	318.00	3600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3700.00	0.00	318.00	3700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3800.00	0.00	318.00	3800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	3900.00	0.00	318.00	3900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4000.00	0.00	318.00	4000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4100.00	0.00	318.00	4100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4200.00	0.00	318.00	4200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4300.00	0.00	318.00	4300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4400.00	0.00	318.00	4400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4500.00	0.00	318.00	4500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4600.00	0.00	318.00	4600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4700.00	0.00	318.00	4700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4800.00	0.00	318.00	4800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	4900.00	0.00	318.00	4900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5000.00	0.00	318.00	5000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5100.00	0.00	318.00	5100.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5200.00	0.00	318.00	5200.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5300.00	0.00	318.00	5300.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5400.00	0.00	318.00	5400.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5500.00	0.00	318.00	5500.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5600.00	0.00	318.00	5600.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5700.00	0.00	318.00	5700.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5800.00	0.00	318.00	5800.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	5900.00	0.00	318.00	5900.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21
	6000.00	0.00	318.00	6000.00	0.00	0.00	0.00	0.00	384064.02	584373.06	N 32 0 2.94	W 104 11 40.21

Comments	MD (m)	Incl (°)	Azim Grid (°)	TVD (m)	VSEC (m)	NS (m)	EW (m)	DLS (°/100ft)	Northing (mUS)	Easting (mUS)	Latitude (N/S ° ° ' °)	Longitude (E/W ° ° ' °)
	6100.00	0.00	318.00	6100.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6200.00	0.00	318.00	6200.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6300.00	0.00	318.00	6300.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6400.00	0.00	318.00	6400.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6500.00	0.00	318.00	6500.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6600.00	0.00	318.00	6600.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6700.00	0.00	318.00	6700.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6800.00	0.00	318.00	6800.00	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
KOP - Build with 12" DLS	6871.05	0.00	318.00	6871.05	0.00	0.00	0.00	0.00	364064.02	584373.06	N 32 0	2.94 W 104 11 40.21
	6900.00	3.47	318.00	6899.98	0.87	0.85	-0.59	12.00	364064.67	584372.47	N 32 0	2.94 W 104 11 40.22
	7000.00	15.47	318.00	6898.44	13.12	12.88	-11.58	12.00	364078.88	584381.48	N 32 0	3.07 W 104 11 40.34
Build & Turn @ 12"/100'	7037.72	20.00	318.00	7034.35	21.83	21.40	-19.27	12.00	364065.42	584353.79	N 32 0	3.15 W 104 11 40.43
	7100.00	25.91	329.85	7091.71	41.85	41.11	-33.25	12.00	364105.12	584339.81	N 32 0	3.35 W 104 11 40.59
	7200.00	36.55	340.71	7177.18	89.47	88.27	-54.13	12.00	364152.29	584318.93	N 32 0	3.81 W 104 11 40.84
	7300.00	47.77	347.10	7251.21	154.29	152.70	-72.30	12.00	364218.71	584300.78	N 32 0	4.45 W 104 11 41.05
	7400.00	58.24	351.52	7319.61	233.47	231.57	-86.96	12.00	364296.57	584288.10	N 32 0	5.23 W 104 11 41.22
	7500.00	70.82	354.98	7352.77	323.55	321.43	-97.47	12.00	364385.43	584275.80	N 32 0	6.12 W 104 11 41.34
	7600.00	82.46	357.98	7375.84	420.58	418.37	-103.37	12.00	364482.35	584269.70	N 32 0	7.08 W 104 11 41.40
Landing Point	7655.35	88.91	359.58	7380.00	475.78	473.52	-104.55	12.00	364537.50	584268.52	N 32 0	7.82 W 104 11 41.42
	7700.00	88.91	359.58	7380.85	520.39	518.18	-104.89	0.00	364582.13	584268.18	N 32 0	8.07 W 104 11 41.42
	7800.00	88.91	359.58	7382.74	620.38	618.14	-105.66	0.00	364682.10	584267.41	N 32 0	9.06 W 104 11 41.43
	7900.00	88.91	359.58	7384.84	720.33	718.12	-106.42	0.00	364782.07	584266.65	N 32 0	10.05 W 104 11 41.43
	8000.00	88.91	359.58	7386.53	820.30	818.10	-107.19	0.00	364882.04	584265.88	N 32 0	11.03 W 104 11 41.44
	8100.00	88.91	359.58	7388.43	920.27	918.08	-107.95	0.00	364982.01	584265.12	N 32 0	12.02 W 104 11 41.45
	8200.00	88.91	359.58	7390.32	1020.24	1018.06	-108.72	0.00	365081.98	584264.35	N 32 0	13.01 W 104 11 41.46
	8300.00	88.91	359.58	7392.22	1120.22	1118.03	-109.49	0.00	365181.95	584263.58	N 32 0	14.00 W 104 11 41.46
	8400.00	88.91	359.58	7394.11	1220.19	1218.01	-110.25	0.00	365281.92	584262.82	N 32 0	14.99 W 104 11 41.47
	8500.00	88.91	359.58	7396.01	1320.16	1317.99	-111.02	0.00	365381.89	584262.05	N 32 0	15.98 W 104 11 41.48
	8600.00	88.91	359.58	7397.91	1420.13	1417.97	-111.79	0.00	365481.86	584261.28	N 32 0	16.97 W 104 11 41.49
	8700.00	88.91	359.58	7399.80	1520.10	1517.95	-112.55	0.00	365581.83	584260.52	N 32 0	17.96 W 104 11 41.49
	8800.00	88.91	359.58	7401.70	1620.07	1617.93	-113.32	0.00	365681.80	584259.75	N 32 0	18.95 W 104 11 41.50
	8900.00	88.91	359.58	7403.59	1720.04	1717.91	-114.09	0.00	365781.77	584258.98	N 32 0	19.94 W 104 11 41.51
	9000.00	88.91	359.58	7405.49	1820.01	1817.89	-114.85	0.00	365881.74	584258.22	N 32 0	20.93 W 104 11 41.52
	9100.00	88.91	359.58	7407.39	1919.98	1917.87	-115.62	0.00	365981.71	584257.45	N 32 0	21.92 W 104 11 41.52
	9200.00	88.91	359.58	7409.28	2019.95	2017.85	-116.39	0.00	366081.68	584256.69	N 32 0	22.91 W 104 11 41.53
	9300.00	88.91	359.58	7411.18	2119.93	2117.83	-117.15	0.00	366181.65	584255.92	N 32 0	23.90 W 104 11 41.54
	9400.00	88.91	359.58	7413.08	2219.90	2217.80	-117.92	0.00	366281.62	584255.15	N 32 0	24.89 W 104 11 41.55
	9500.00	88.91	359.58	7414.97	2319.87	2317.78	-118.68	0.00	366381.59	584254.39	N 32 0	25.87 W 104 11 41.55
	9600.00	88.91	359.58	7416.87	2419.84	2417.76	-119.45	0.00	366481.56	584253.62	N 32 0	26.86 W 104 11 41.56
	9700.00	88.91	359.58	7418.76	2519.81	2517.74	-120.22	0.00	366581.53	584252.85	N 32 0	27.85 W 104 11 41.57
	9800.00	88.91	359.58	7420.66	2619.78	2617.72	-120.98	0.00	366681.50	584252.09	N 32 0	28.84 W 104 11 41.57
	9900.00	88.91	359.58	7422.56	2719.75	2717.70	-121.75	0.00	366781.47	584251.32	N 32 0	29.83 W 104 11 41.58
	10000.00	88.91	359.58	7424.45	2819.72	2817.68	-122.52	0.00	366881.44	584250.55	N 32 0	30.82 W 104 11 41.59
	10100.00	88.91	359.58	7426.35	2919.69	2917.66	-123.28	0.00	366981.41	584249.79	N 32 0	31.81 W 104 11 41.60
	10200.00	88.91	359.58	7428.25	3019.66	3017.64	-124.05	0.00	367081.38	584249.02	N 32 0	32.80 W 104 11 41.60
	10300.00	88.91	359.58	7430.14	3119.64	3117.62	-124.82	0.00	367181.35	584248.26	N 32 0	33.79 W 104 11 41.61
	10400.00	88.91	359.58	7432.04	3219.61	3217.60	-125.58	0.00	367281.32	584247.49	N 32 0	34.78 W 104 11 41.62
	10500.00	88.91	359.58	7433.94	3319.58	3317.57	-126.35	0.00	367381.29	584246.72	N 32 0	35.77 W 104 11 41.63
	10600.00	88.91	359.58	7435.84	3419.55	3417.55	-127.12	0.00	367481.26	584245.96	N 32 0	36.76 W 104 11 41.63
	10700.00	88.91	359.58	7437.73	3519.52	3517.53	-127.88	0.00	367581.23	584245.19	N 32 0	37.75 W 104 11 41.64
	10800.00	88.91	359.58	7439.63	3619.49	3617.51	-128.65	0.00	367681.20	584244.42	N 32 0	38.74 W 104 11 41.65
	10900.00	88.91	359.58	7441.53	3719.46	3717.49	-129.41	0.00	367781.17	584243.66	N 32 0	39.73 W 104 11 41.66
	11000.00	88.91	359.58	7443.42	3819.43	3817.47	-130.18	0.00	367881.14	584242.89	N 32 0	40.72 W 104 11 41.66
	11100.00	88.91	359.58	7445.32	3919.40	3917.45	-130.95	0.00	367981.11	584242.12	N 32 0	41.70 W 104 11 41.67
	11200.00	88.91	359.58	7447.22	4019.37	4017.43	-131.71	0.00	368081.08	584241.36	N 32 0	42.69 W 104 11 41.68
	11300.00	88.91	359.58	7449.12	4119.35	4117.41	-132.48	0.00	368181.05	584240.59	N 32 0	43.68 W 104 11 41.69
	11400.00	88.91	359.58	7451.01	4219.32	4217.39	-133.25	0.00	368281.02	584239.83	N 32 0	44.67 W 104 11 41.69
	11500.00	88.91	359.58	7452.91	4319.29	4317.36	-134.01	0.00	368380.99	584239.06	N 32 0	45.66 W 104 11 41.70
	11600.00	88.91	359.58	7454.81	4419.26	4417.34	-134.78	0.00	368480.96	584238.29	N 32 0	46.65 W 104 11 41.71
	11700.00	88.91	359.58	7456.71	4519.23	4517.32	-135.55	0.00	368580.93	584237.53	N 32 0	47.64 W 104 11 41.72
	11800.00	88.91	359.58	7458.61	4619.20	4617.30	-136.31	0.00	368680.90	584236.77	N 32 0	48.63 W 104 11 41.72
	11900.00	88.91	359.58	7460.50	4719.17	4717.28	-137.08	0.00	368780.87	584235.99	N 32 0	49.62 W 104 11 41.73
	12000.00	88.91	359.58	7462.40	4819.14	4817.26	-137.85	0.00	368880.84	584235.23	N 32 0	50.61 W 104 11 41.74
	12100.00	88.91	359.58	7464.30	4919.11	4917.24	-138.61	0.00	368980.81	584234.46	N 32 0	51.60 W 104 11 41.75
	12200.00	88.91	359.58	7466.20	5019.08	5017.22	-139.38	0.00	369080.78	584233.69	N 32 0	52.59 W 104 11 41.75
	12300.00	88.91	359.58	7468.10	5119.06	5117.20	-140.14	0.00	369180.75	584232.93	N 32 0	53.58 W 104 11 41.76
	12400.00	88.91	359.58	7469.99	5219.03	5217.18	-140.91	0.00	369280.72	584232.16	N 32 0	54.57 W 104 11 41.77
	12500.00	88.91	359.58	7471.89	5319.00	5317.16	-141.68	0.00	369380.69	584231.40	N 32 0	55.56 W 104 11 41.77
	12600.00	88.91	359.58	7473.79	5418.97	5417.13	-142.44	0.00	369480.66	584230.63	N 32 0	56.54 W 104 11 41.78
	12700.00	88.91	359.58	7475.69	5518.94	5517.11	-143.21	0.00	369580.63	584229.86	N 32 0	57.53 W 104 11 41.79
	12800.00	88.91	359.58	7477.59	5618.91	5617.08	-143.98	0.00	369680.60	584229.10	N 32 0	58.52 W 104 11 41.80
	12900.00	88.91	359.58	7479.48	5718.88	5717.07	-144.74	0.00	369780.57	584228.33	N 32 0	59.51 W 104 11 41.80
	13000.00	88.91	359.58	7481.38	5818.85	5817.05	-145.51	0.00	369880.54	584227.56	N 32 1	0.50 W 104 11 41.81
	13100.00	88.91	359.58	7483.28	5918.82	5917.03	-146.28	0.00	369980.51	584226.80	N 32 1	1.49 W 104 11 41.82
	13200.00	88.91	359.58	7485.18	6018.79	6017.01	-147.04	0.00	370080.48	584226.03	N 32 1	2.48 W 104 11 41.83
	13300.00	88.91	359.58	7487.08	6118.76	6116.99	-147.81	0.00	370180.45	584225.26	N 32 1	3.47 W 104 11 41.83
	13400.00	88.91	359.58	7488.98	6218.74	6216.97	-148.58	0.00	370280.42	584224.50	N 32	

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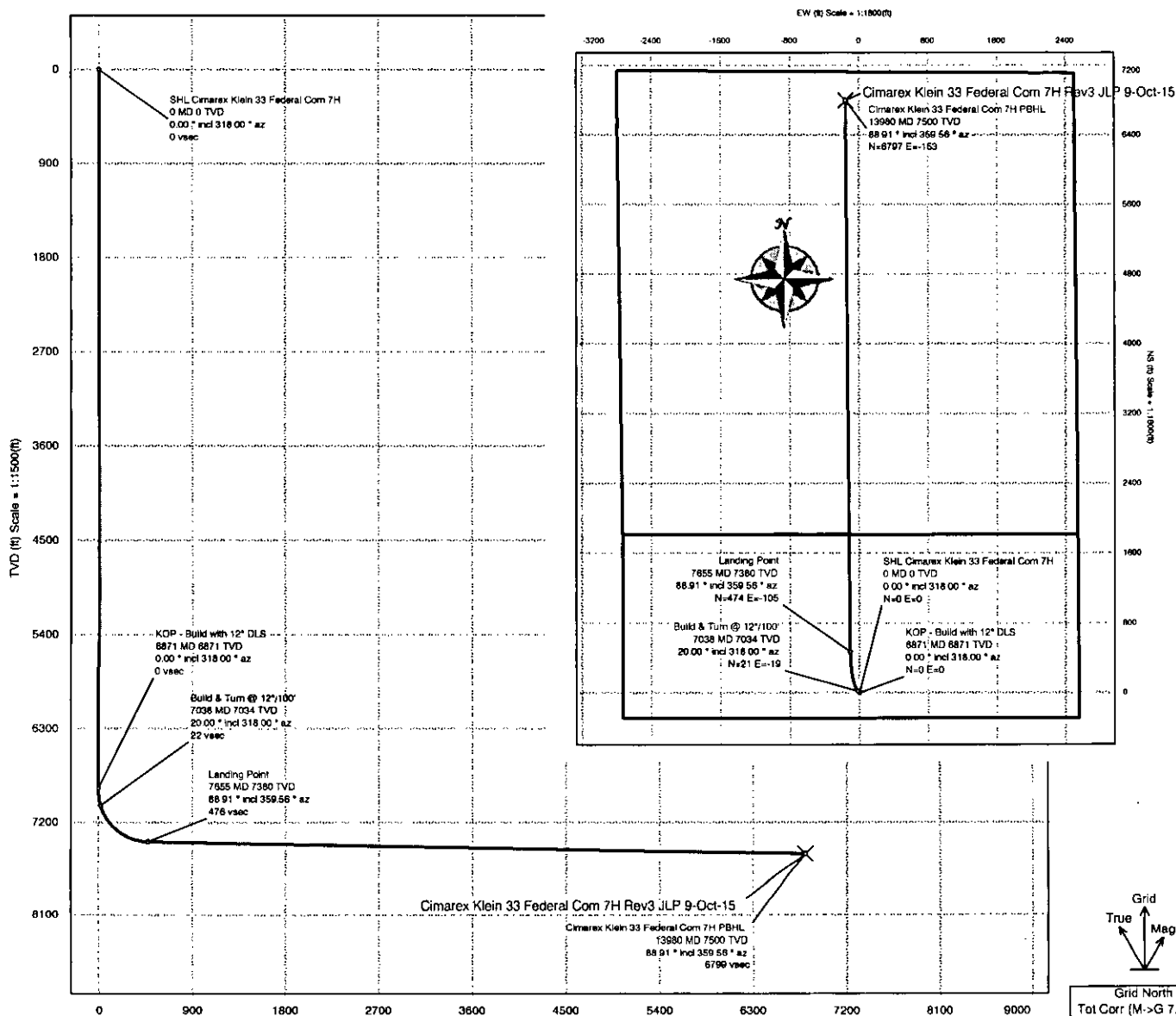
Survey Type: Non-Def Plan

Survey Error Model: ISQWSA 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	13980.432	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Klein 33 Federal Com 7H Rev3 JLP 9-

Borehole:	Well:	Field:	Structure:
Original Borehole	Klein 33 Federal Com #7H	NM Eddy County (NAD 83)	TBD

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: HDGM	NAD83 New Mexico State Plane, Eastern Zone, US Feet	
2015	364064.02RU	Slot: #7H
Dip: 59.708°	Lat: N 32 0 2.94	TVD Ref: Ground level (3197ft above MSL)
Date: 09-Oct-2015	Northing: 584373.061U	Plan: Rev3 JLP 9-Oct-15
FS: 48142.892n	Grid Conv: 0.0736°	
Gravity FS: 998.585mgm (9.80665 Based)	Lon: W 104 11 40.21	
Mag Dec: 7.532°	Eastng: 8	
	Scale Fact: 0.09991121	



Vertical Section (ft) Azim = 358.71° Scale = 1:1500(ft) Origin = 0N/S, 0E/W

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Cimarex Klein 33 Federal Com 7H	0.00	0.00	318.00	0.00	0.00	0.00	0.00	
KOP - Build with 12° DLS	6871.05	0.00	318.00	6871.05	0.00	0.00	0.00	0.00
Build & Turn @ 12°/100'	7037.72	20.00	318.00	7034.35	21.83	21.40	-19.27	12.00
Landing Point	7655.35	88.91	359.56	7380.00	475.76	473.52	-104.55	12.00
Cimarex Klein 33 Federal Com 7H PBHL	13980.43	88.91	359.56	7500.00	6799.00	6797.28	-153.02	0.00

CONTROLLED

Plan ref	Cimarex Klein 33 Federal Com 7H Rev3 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