

RECEIVED

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

JAN 04 2011 State of New Mexico
Energy, Minerals and Natural Resources Department

HOBBS OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised July 18, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-005-29170	Pool Code 97722	Pool Name Wildcat Abo/Wolfcamp
Property Code 38444	Property Name NASSAU "29" STATE COM	Well Number 3
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4427'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	15 S	31 E		1830	SOUTH	330	WEST	CHAVES

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
I	29	15 S	31 E		1980	SOUTH	330	EAST	CHAVES
Dedicated Acres 160	Joint or Infill	Consolidation Code P	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

SURFACE LOCATION Lat - N 32°59'04.714" Long - W 103°51'05.827" NMSPCE- N 722284.77 E 689047.14 (NAD-83)				PROPOSED BOTTOM HOLE LOCATION Lat - N 32°59'06.146" Long - W 103°50'11.263" NMSPCE- N 722451.35 E 693694.02 (NAD-83)			
Diagram showing well location and acreage dedication plat. The diagram includes a grid with sections 29, 15 S, 31 E, and 30. The well location is marked with a dot and labeled 'B.H.' (Bottom Hole). The surface location is marked with a dot and labeled 'S.L.' (Surface Location). The distance between the surface and bottom hole locations is 4651.1'. The well is located 330' from the east line and 1980' from the south line. The surface is located 330' from the east line and 1830' from the south line. The diagram also shows the well location relative to the section lines and the distance from the well to the section lines.							
EQ-8664-0001				EO-5819-0003		EO-5819-0004	
BO-9495-0027							
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 unCHAVESSed 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>Natalie Krueger</i> 1/4/2011 Signature Date Natalie Krueger Printed Name nkrueger@cimarex.com Email Address							
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. DECEMBER 09, 2010 Date Surveyed Signature & Seal of Professional Surveyor W.C. NO. 23843 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 23843							



Cimarex Energy Co.

Chaves County

Sec 29 - T15S - R31E

Nassau 29 State Com #3

Wellbore #1

Plan: Plan #1

Standard Planning Report

03 January, 2011





Great White Directional Services

Planning Report



Database: EDM 5000.1 Single User Db
 Company: Cimarex Energy Co.
 Project: Chaves County
 Site: Sec 29 - T15S - R31E
 Well: Nassau 29 State Com #3
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well Nassau 29 State Com #3
 TVD Reference: WELL @ 0.0usft (Original Well Elev)
 MD Reference: WELL @ 0.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Chaves County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 29 - T15S - R31E		
Site Position:	Northing:	725,073.55 usft	Latitude: 32° 59' 32.284 N
From: Map	Easting:	689,035.43 usft	Longitude: 103° 51' 5.804 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.26 °

Well	Nassau 29 State Com #3		
Well Position	+N/-S	-2,788.6 usft	Northing: 722,284.77 usft
	+E/-W	11.7 usft	Easting: 689,047.14 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 0.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	01/03/11	7.82
			Dip Angle (°)
			60.87
			Field Strength (nT)
			49,148

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tic On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			87.95

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,530.0	0.00	0.00	8,530.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,830.0	90.00	87.95	8,721.0	6.8	190.9	30.00	30.00	0.00	87.95	
13,288.9	90.00	87.95	8,721.0	166.3	4,646.9	0.00	0.00	0.00	0.00	Nassau #3



Great White Directional Services

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Wellbore: Wellbore #1
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TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Great White Directional Services Planning Report



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Wellbore: Wellbore #1
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,530.0	0.00	0.00	8,530.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 30/100 DLS @ 87.95 AZI									
8,540.0	3.00	87.95	8,540.0	0.0	0.3	0.3	30.00	30.00	0.00
8,550.0	6.00	87.95	8,550.0	0.0	1.0	1.0	30.00	30.00	0.00
8,560.0	9.00	87.95	8,559.9	0.1	2.3	2.4	30.00	30.00	0.00
8,570.0	12.00	87.95	8,569.7	0.1	4.2	4.2	30.00	30.00	0.00
8,580.0	15.00	87.95	8,579.4	0.2	6.5	6.5	30.00	30.00	0.00
8,590.0	18.00	87.95	8,589.0	0.3	9.3	9.3	30.00	30.00	0.00
8,600.0	21.00	87.95	8,598.4	0.5	12.7	12.7	30.00	30.00	0.00
8,610.0	24.00	87.95	8,607.7	0.6	16.5	16.5	30.00	30.00	0.00
8,620.0	27.00	87.95	8,616.7	0.7	20.8	20.8	30.00	30.00	0.00
8,630.0	30.00	87.95	8,625.5	0.9	25.6	25.6	30.00	30.00	0.00
8,640.0	33.00	87.95	8,634.0	1.1	30.8	30.8	30.00	30.00	0.00
8,650.0	36.00	87.95	8,642.3	1.3	36.5	36.5	30.00	30.00	0.00
8,660.0	39.00	87.95	8,650.2	1.5	42.5	42.6	30.00	30.00	0.00
8,670.0	42.00	87.95	8,657.8	1.8	49.0	49.1	30.00	30.00	0.00
8,680.0	45.00	87.95	8,665.0	2.0	55.9	55.9	30.00	30.00	0.00
8,690.0	46.00	87.95	8,671.9	2.3	63.2	63.2	30.00	30.00	0.00
8,700.0	51.00	87.95	8,678.4	2.5	70.7	70.8	30.00	30.00	0.00
8,710.0	54.00	87.95	8,684.5	2.8	78.7	78.7	30.00	30.00	0.00
8,720.0	57.00	87.95	8,690.2	3.1	86.9	87.0	30.00	30.00	0.00



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,730.0	60.00	87.95	8,695.4	3.4	95.4	95.5	30.00	30.00	0.00
8,740.0	63.00	87.95	8,700.2	3.7	104.2	104.3	30.00	30.00	0.00
8,750.0	66.00	87.95	8,704.5	4.1	113.2	113.3	30.00	30.00	0.00
8,760.0	69.00	87.95	8,708.3	4.4	122.5	122.5	30.00	30.00	0.00
8,770.0	72.00	87.95	8,711.6	4.7	131.9	132.0	30.00	30.00	0.00
8,780.0	75.00	87.95	8,714.5	5.1	141.5	141.6	30.00	30.00	0.00
8,790.0	78.00	87.95	8,716.8	5.4	151.2	151.3	30.00	30.00	0.00
8,800.0	81.00	87.95	8,718.6	5.8	161.0	161.1	30.00	30.00	0.00
8,810.0	84.00	87.95	8,719.9	6.1	170.9	171.0	30.00	30.00	0.00
8,820.0	87.00	87.95	8,720.7	6.5	180.9	181.0	30.00	30.00	0.00
8,830.0	90.00	87.95	8,721.0	6.8	190.9	191.0	30.00	30.00	0.00
EOC - Hold to TD									
8,900.0	90.00	87.95	8,721.0	9.3	260.8	261.0	0.00	0.00	0.00
9,000.0	90.00	87.95	8,721.0	12.9	360.8	361.0	0.00	0.00	0.00
9,100.0	90.00	87.95	8,721.0	16.5	460.7	461.0	0.00	0.00	0.00
9,200.0	90.00	87.95	8,721.0	20.1	560.6	561.0	0.00	0.00	0.00
9,300.0	90.00	87.95	8,721.0	23.6	660.6	661.0	0.00	0.00	0.00
9,400.0	90.00	87.95	8,721.0	27.2	760.5	761.0	0.00	0.00	0.00
9,500.0	90.00	87.95	8,721.0	30.8	860.4	861.0	0.00	0.00	0.00
9,600.0	90.00	87.95	8,721.0	34.4	960.4	961.0	0.00	0.00	0.00
9,700.0	90.00	87.95	8,721.0	38.0	1,060.3	1,061.0	0.00	0.00	0.00
9,800.0	90.00	87.95	8,721.0	41.5	1,160.2	1,161.0	0.00	0.00	0.00
9,900.0	90.00	87.95	8,721.0	45.1	1,260.2	1,261.0	0.00	0.00	0.00
10,000.0	90.00	87.95	8,721.0	48.7	1,360.1	1,361.0	0.00	0.00	0.00
10,100.0	90.00	87.95	8,721.0	52.3	1,460.1	1,461.0	0.00	0.00	0.00
10,200.0	90.00	87.95	8,721.0	55.8	1,560.0	1,561.0	0.00	0.00	0.00
10,300.0	90.00	87.95	8,721.0	59.4	1,659.9	1,661.0	0.00	0.00	0.00
10,400.0	90.00	87.95	8,721.0	63.0	1,759.9	1,761.0	0.00	0.00	0.00
10,500.0	90.00	87.95	8,721.0	66.6	1,859.8	1,861.0	0.00	0.00	0.00
10,600.0	90.00	87.95	8,721.0	70.1	1,959.7	1,961.0	0.00	0.00	0.00
10,700.0	90.00	87.95	8,721.0	73.7	2,059.7	2,061.0	0.00	0.00	0.00
10,800.0	90.00	87.95	8,721.0	77.3	2,159.6	2,161.0	0.00	0.00	0.00
10,900.0	90.00	87.95	8,721.0	80.9	2,259.5	2,261.0	0.00	0.00	0.00
11,000.0	90.00	87.95	8,721.0	84.5	2,359.5	2,361.0	0.00	0.00	0.00
11,100.0	90.00	87.95	8,721.0	88.0	2,459.4	2,461.0	0.00	0.00	0.00
11,200.0	90.00	87.95	8,721.0	91.6	2,559.3	2,561.0	0.00	0.00	0.00
11,300.0	90.00	87.95	8,721.0	95.2	2,659.3	2,661.0	0.00	0.00	0.00
11,400.0	90.00	87.95	8,721.0	98.8	2,759.2	2,761.0	0.00	0.00	0.00
11,500.0	90.00	87.95	8,721.0	102.3	2,859.2	2,861.0	0.00	0.00	0.00
11,600.0	90.00	87.95	8,721.0	105.9	2,959.1	2,961.0	0.00	0.00	0.00
11,700.0	90.00	87.95	8,721.0	109.5	3,059.0	3,061.0	0.00	0.00	0.00
11,800.0	90.00	87.95	8,721.0	113.1	3,159.0	3,161.0	0.00	0.00	0.00
11,900.0	90.00	87.95	8,721.0	116.7	3,258.9	3,261.0	0.00	0.00	0.00
12,000.0	90.00	87.95	8,721.0	120.2	3,358.8	3,361.0	0.00	0.00	0.00
12,100.0	90.00	87.95	8,721.0	123.8	3,458.8	3,461.0	0.00	0.00	0.00
12,200.0	90.00	87.95	8,721.0	127.4	3,558.7	3,561.0	0.00	0.00	0.00
12,300.0	90.00	87.95	8,721.0	131.0	3,658.6	3,661.0	0.00	0.00	0.00
12,400.0	90.00	87.95	8,721.0	134.5	3,758.6	3,761.0	0.00	0.00	0.00
12,500.0	90.00	87.95	8,721.0	138.1	3,858.5	3,861.0	0.00	0.00	0.00
12,600.0	90.00	87.95	8,721.0	141.7	3,958.5	3,961.0	0.00	0.00	0.00
12,700.0	90.00	87.95	8,721.0	145.3	4,058.4	4,061.0	0.00	0.00	0.00
12,800.0	90.00	87.95	8,721.0	148.8	4,158.3	4,161.0	0.00	0.00	0.00
12,900.0	90.00	87.95	8,721.0	152.4	4,258.3	4,261.0	0.00	0.00	0.00
13,000.0	90.00	87.95	8,721.0	156.0	4,358.2	4,361.0	0.00	0.00	0.00



Great White Directional Services
Planning Report



Database: EDM 5000.1 Single User Db
Company: Cimarex Energy Co.
Project: Chaves County
Site: Sec 29 - T15S - R31E
Well: Nassau 29 State Com #3
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Nassau 29 State Com #3
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.00	87.95	8,721.0	159.6	4,458.1	4,461.0	0.00	0.00	0.00
13,200.0	90.00	87.95	8,721.0	163.2	4,558.1	4,561.0	0.00	0.00	0.00
13,288.9	90.00	87.95	8,721.0	166.3	4,646.9	4,649.9	0.00	0.00	0.00
Nassau #3									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Nassau #3	0.00	0.00	8,720.0	166.6	4,646.9	722,451.35	693,694.02	32° 59' 6.125 N	103° 50' 11.252 W
- plan misses target center by 1.0usft at 13288.9usft MD (8721.0 TVD, 166.3 N, 4646.9 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,530.0	8,530.0	0.0	0.0	KOP 30/100 DLS @ 87.95 AZI
8,830.0	8,721.0	6.8	160.9	EOC - Hold to TD
13,288.9	8,721.0	166.3	4,646.9	TD at 13288.9



Cimarex Energy Co.
Project: Chaves County
Site: Sec 29 - T15S - R31E
Well: Nassau 29 State Com #3
Wellbore: Wellbore #1

WELL DETAILS: Nassau 29 State Com #3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	722284.77	689047.14	32° 59' 4.690 N	103° 51' 5.816 W

SHL: 1830' FSL / 330' FWL
BHL: 1980' FSL / 330' FEL



Azimuths to Grid North
Total Correction: 7.55°
Magnetic Field
Strength: 49147.8nT
Dip Angle: 60.87°
Date: 01/03/2011
Model: IGRF200510

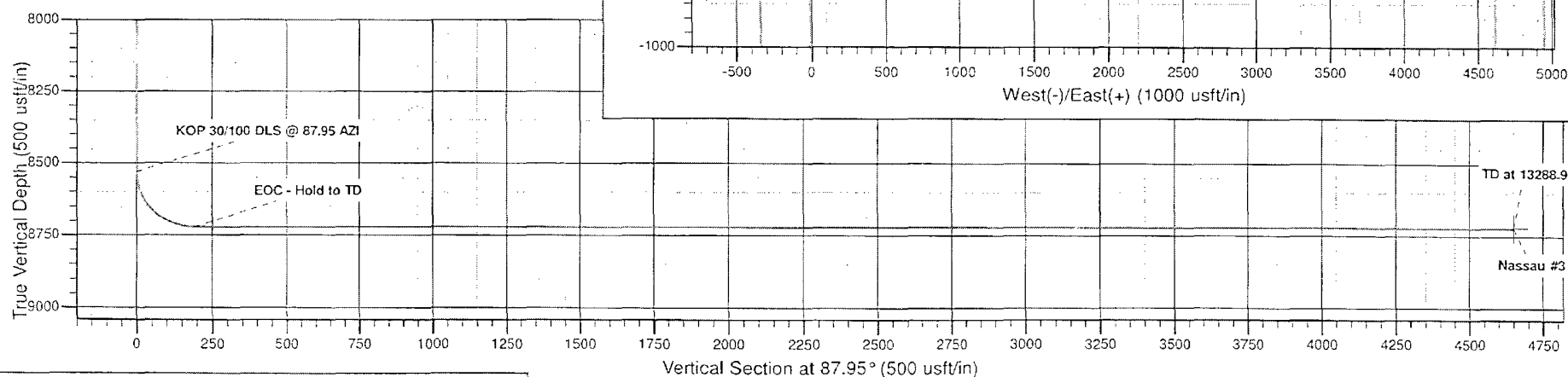
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nassau #3	8720.0	166.6	4646.9	722451.35	593694.02	32° 59' 6.125 N	103° 50' 11.252 W

- plan misses target center by 1.0usft at 13288.9usft: MD (8721.0 TVD, 166.3 N, 4646.9 E)

SECTION DETAILS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
8530.0	8530.0	0.00	0.00	0.0	0.0	0.0	0.0	KOP 30/100 DLS @ 87.95 AZI
8721.0	8830.0	90.00	87.95	6.8	190.9	191.0	191.0	EOC - Hold to TD
8721.0	13288.9	90.00	87.95	166.3	4646.9	4649.9	4649.9	TD at 13288.9



Plan: Plan #1 (Nassau 29 State Com #3/Wellbore #1)

Created By: Aaron Pullin

Date: 14:33, January 03 2011