

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 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 30-005-29168	Pool Code 97722	Pool Name Wildcat Abo/Wolfcamp
Property Code 38444	Property Name NASSAU "29" STATE COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4440'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	29	15 S	31 E		660	NORTH	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
A	29	15 S	31 E		660	NORTH	330	EAST	CHAVES

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160		P	

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 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> 1/3/2011 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 03 2010 Date Surveyed <i>[Signature]</i> Signature of Professional Surveyor Professional Surveyor Seal No. 10841 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 23841					



Cimarex Energy Co.

Chaves County

Sec 29 - T15S - R31E

Nassau 29 State Com #1

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 #1
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well Nassau 29 State Com #1
 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 #1					
Well Position	+N/-S	0.0 usft	Northings:	725,073.55 usft	Latitude:	32° 59' 32.284 N
	+E/-W	0.0 usft	Easting:	689,035.43 usft	Longitude:	103° 51' 5.804 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	01/03/11	7.82	60.88	49,152

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.77

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	89.77	8,721.0	0.8	191.0	30.00	30.00	0.00	89.77	
13,269.1	90.00	89.77	8,721.0	18.6	4,630.0	0.00	0.00	0.00	0.00	Nassau #1 PBHL



Great White Directional Services
Planning Report



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Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Nassau 29 State Com #1
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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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 @ 89.77 AZI									
8,540.0	3.00	89.77	8,540.0	0.0	0.3	0.3	30.00	30.00	0.00
8,550.0	6.00	89.77	8,550.0	0.0	1.0	1.0	30.00	30.00	0.00
8,560.0	9.00	89.77	8,560.0	0.0	2.4	2.4	30.00	30.00	0.00
8,570.0	12.00	89.77	8,569.7	0.0	4.2	4.2	30.00	30.00	0.00
8,580.0	15.00	89.77	8,579.4	0.0	6.5	6.5	30.00	30.00	0.00
8,590.0	18.00	89.77	8,589.0	0.0	9.3	9.3	30.00	30.00	0.00
8,600.0	21.00	89.77	8,598.4	0.1	12.7	12.7	30.00	30.00	0.00
8,610.0	24.00	89.77	8,607.7	0.1	16.5	16.5	30.00	30.00	0.00
8,620.0	27.00	89.77	8,616.7	0.1	20.8	20.8	30.00	30.00	0.00
8,630.0	30.00	89.77	8,625.5	0.1	25.6	25.6	30.00	30.00	0.00
8,640.0	33.00	89.77	8,634.0	0.1	30.8	30.8	30.00	30.00	0.00
8,650.0	36.00	89.77	8,642.3	0.1	36.5	36.5	30.00	30.00	0.00
8,660.0	39.00	89.77	8,650.2	0.2	42.6	42.6	30.00	30.00	0.00
8,670.0	42.00	89.77	8,657.8	0.2	49.1	49.1	30.00	30.00	0.00
8,680.0	45.00	89.77	8,665.0	0.2	55.9	55.9	30.00	30.00	0.00
8,690.0	48.00	89.77	8,671.9	0.3	63.2	63.2	30.00	30.00	0.00
8,700.0	51.00	89.77	8,678.4	0.3	70.8	70.8	30.00	30.00	0.00
8,710.0	54.00	89.77	8,684.5	0.3	78.7	78.7	30.00	30.00	0.00
8,720.0	57.00	89.77	8,690.2	0.3	87.0	87.0	30.00	30.00	0.00



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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)
8,730.0	60.00	89.77	8,695.4	0.4	95.5	95.5	30.00	30.00	0.00
8,740.0	63.00	89.77	8,700.2	0.4	104.3	104.3	30.00	30.00	0.00
8,750.0	66.00	89.77	8,704.5	0.5	113.3	113.3	30.00	30.00	0.00
8,760.0	69.00	89.77	8,708.3	0.5	122.5	122.5	30.00	30.00	0.00
8,770.0	72.00	89.77	8,711.6	0.5	132.0	132.0	30.00	30.00	0.00
8,780.0	75.00	89.77	8,714.5	0.6	141.6	141.6	30.00	30.00	0.00
8,790.0	78.00	89.77	8,716.8	0.6	151.3	151.3	30.00	30.00	0.00
8,800.0	81.00	89.77	8,718.6	0.6	161.1	161.1	30.00	30.00	0.00
8,810.0	84.00	89.77	8,719.9	0.7	171.0	171.0	30.00	30.00	0.00
8,820.0	87.00	89.77	8,720.7	0.7	181.0	181.0	30.00	30.00	0.00
8,830.0	90.00	89.77	8,721.0	0.8	191.0	191.0	30.00	30.00	0.00
EOC - Hold to TD									
8,900.0	90.00	89.77	8,721.0	1.0	261.0	261.0	0.00	0.00	0.00
9,000.0	90.00	89.77	8,721.0	1.4	361.0	361.0	0.00	0.00	0.00
9,100.0	90.00	89.77	8,721.0	1.9	461.0	461.0	0.00	0.00	0.00
9,200.0	90.00	89.77	8,721.0	2.3	561.0	561.0	0.00	0.00	0.00
9,300.0	90.00	89.77	8,721.0	2.7	661.0	661.0	0.00	0.00	0.00
9,400.0	90.00	89.77	8,721.0	3.1	761.0	761.0	0.00	0.00	0.00
9,500.0	90.00	89.77	8,721.0	3.5	861.0	861.0	0.00	0.00	0.00
9,600.0	90.00	89.77	8,721.0	3.9	961.0	961.0	0.00	0.00	0.00
9,700.0	90.00	89.77	8,721.0	4.3	1,061.0	1,061.0	0.00	0.00	0.00
9,800.0	90.00	89.77	8,721.0	4.7	1,161.0	1,161.0	0.00	0.00	0.00
9,900.0	90.00	89.77	8,721.0	5.1	1,261.0	1,261.0	0.00	0.00	0.00
10,000.0	90.00	89.77	8,721.0	5.5	1,361.0	1,361.0	0.00	0.00	0.00
10,100.0	90.00	89.77	8,721.0	5.9	1,461.0	1,461.0	0.00	0.00	0.00
10,200.0	90.00	89.77	8,721.0	6.3	1,561.0	1,561.0	0.00	0.00	0.00
10,300.0	90.00	89.77	8,721.0	6.7	1,661.0	1,661.0	0.00	0.00	0.00
10,400.0	90.00	89.77	8,721.0	7.1	1,761.0	1,761.0	0.00	0.00	0.00
10,500.0	90.00	89.77	8,721.0	7.5	1,861.0	1,861.0	0.00	0.00	0.00
10,600.0	90.00	89.77	8,721.0	7.9	1,961.0	1,961.0	0.00	0.00	0.00
10,700.0	90.00	89.77	8,721.0	8.3	2,061.0	2,061.0	0.00	0.00	0.00
10,800.0	90.00	89.77	8,721.0	8.7	2,161.0	2,161.0	0.00	0.00	0.00
10,900.0	90.00	89.77	8,721.0	9.1	2,261.0	2,261.0	0.00	0.00	0.00
11,000.0	90.00	89.77	8,721.0	9.5	2,361.0	2,361.0	0.00	0.00	0.00
11,100.0	90.00	89.77	8,721.0	9.9	2,461.0	2,461.0	0.00	0.00	0.00
11,200.0	90.00	89.77	8,721.0	10.3	2,561.0	2,561.0	0.00	0.00	0.00
11,300.0	90.00	89.77	8,721.0	10.7	2,661.0	2,661.0	0.00	0.00	0.00
11,400.0	90.00	89.77	8,721.0	11.1	2,761.0	2,761.0	0.00	0.00	0.00
11,500.0	90.00	89.77	8,721.0	11.5	2,861.0	2,861.0	0.00	0.00	0.00
11,600.0	90.00	89.77	8,721.0	11.9	2,961.0	2,961.0	0.00	0.00	0.00
11,700.0	90.00	89.77	8,721.0	12.3	3,061.0	3,061.0	0.00	0.00	0.00
11,800.0	90.00	89.77	8,721.0	12.7	3,161.0	3,161.0	0.00	0.00	0.00
11,900.0	90.00	89.77	8,721.0	13.1	3,261.0	3,261.0	0.00	0.00	0.00
12,000.0	90.00	89.77	8,721.0	13.5	3,361.0	3,361.0	0.00	0.00	0.00
12,100.0	90.00	89.77	8,721.0	13.9	3,461.0	3,461.0	0.00	0.00	0.00
12,200.0	90.00	89.77	8,721.0	14.3	3,561.0	3,561.0	0.00	0.00	0.00
12,300.0	90.00	89.77	8,721.0	14.7	3,661.0	3,661.0	0.00	0.00	0.00
12,400.0	90.00	89.77	8,721.0	15.1	3,761.0	3,761.0	0.00	0.00	0.00
12,500.0	90.00	89.77	8,721.0	15.5	3,861.0	3,861.0	0.00	0.00	0.00
12,600.0	90.00	89.77	8,721.0	15.9	3,961.0	3,961.0	0.00	0.00	0.00
12,700.0	90.00	89.77	8,721.0	16.3	4,061.0	4,061.0	0.00	0.00	0.00
12,800.0	90.00	89.77	8,721.0	16.7	4,161.0	4,161.0	0.00	0.00	0.00
12,900.0	90.00	89.77	8,721.0	17.1	4,261.0	4,261.0	0.00	0.00	0.00
13,000.0	90.00	89.77	8,721.0	17.5	4,361.0	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 #1
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well Nassau 29 State Com #1
 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	89.77	8,721.0	17.9	4,460.9	4,461.0	0.00	0.00	0.00
13,200.0	90.00	89.77	8,721.0	18.3	4,560.9	4,561.0	0.00	0.00	0.00
13,269.1	90.00	89.77	8,721.0	18.6	4,630.0	4,630.1	0.00	0.00	0.00

Nassau #1 PBHL

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 #1 PBHL	0.00	0.00	8,720.0	18.3	4,630.0	725,091.82	693,665.47	32° 59' 32.252 N	103° 50' 11.441 W
- plan misses target center by 1.0usft at 13269.1usft MD (8721.0 TVD, 18.6 N, 4630.0 E)									
- Point									

Plan Annotations

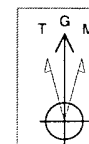
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,530.0	8,530.0	0.0	0.0	KOP 30/100 DLS @ 89.77 AZI
8,830.0	8,721.0	0.8	191.0	EOC - Hold to TD
13,269.1	8,721.0	18.6	4,630.0	TD at 13269.1



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

WELL DETAILS: Nassau 29 State Com #1

+N/-S	+E/-W	Northing	Ground Level:	0.0	Easting	Latitude	Longitude
0.0	0.0	725073.55			689035.43	32° 59' 32.284 N	103° 51' 5.804 W
SHL: 660' FNL / 330' FWL							
BHL: 660' FNL / 330' FEL							



Azimuths to Grid North

Total Correction: 7.55°

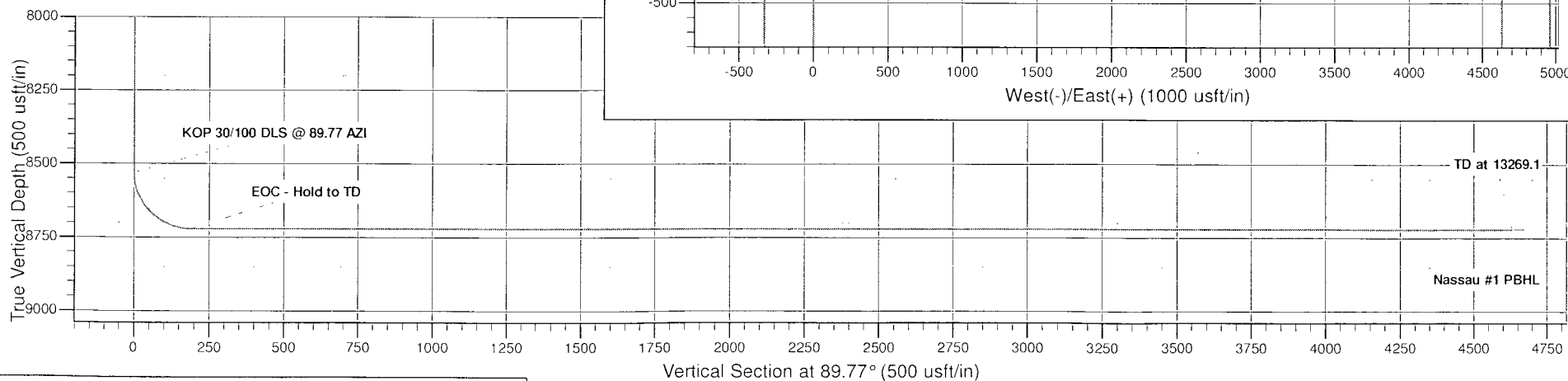
Magnetic Field
Strength: 49152.4snT
Dip Angle: 60.88°
Date: 01/03/2011
Model: IGRF200510

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Nassau #1 PBHL	8720.0	18.3	4630.0	32° 59' 32.252 N	103° 50' 11.441 W

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 @ 89.77 AZI
8721.0	8830.0	90.00	89.77	0.8	191.0	191.0	191.0	EOC - Hold to TD
8721.0	13269.1	90.00	89.77	18.6	4630.0	4630.1	4630.1	TD at 13269.1



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

Created By: Aaron Pullin

Date: 14:30, January 03 2011