



30-015-38332

Cimarex Energy Co.

Eddy County (NM83E)

Sec 2 - T20S - R29E

Eddy IK State #6

Wellbore #1

Plan: Plan #1

Standard Planning Report

23 December, 2010



Great White Directional Services

Planning Report

Database: EDM 5000.1 Single User Db
 Company: Cimarex Energy Co.
 Project: Eddy County (NM83E)
 Site: Sec 2 - T20S - R29E
 Well: Eddy IK State #6
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well Eddy IK State #6
 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	Eddy County (NM83E)		
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 2 - T20S - R29E			
Site Position:		Northing:	585,368.30 usft	Latitude:	32° 36' 31.985 N
From:	Map	Easting:	631,920.40 usft	Longitude:	104° 2' 20.973 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	Eddy IK State #6					
Well Position	+N/-S	0.0 usft	Northing:	585,368.30 usft	Latitude:	32° 36' 31.985 N
	+E/-W	0.0 usft	Easting:	631,920.40 usft	Longitude:	104° 2' 20.973 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	12/23/10	7.88	60.50	48,904

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	180.10

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	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,352.4	90.48	180.10	6,186.5	-288.9	-0.5	20.00	20.00	0.00	180.10	
10,707.4	90.48	180.11	6,150.0	-4,643.7	-8.3	0.00	0.00	0.00	94.38	Eddy State #6



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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)
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 20/100 DLS @ 180.1 AZI									
5,925.0	5.00	180.10	5,925.0	-1.1	0.0	1.1	20.00	20.00	0.00
5,950.0	10.00	180.10	5,949.7	-4.4	0.0	4.4	20.00	20.00	0.00
5,975.0	15.00	180.10	5,974.1	-9.8	0.0	9.8	20.00	20.00	0.00
6,000.0	20.00	180.10	5,998.0	-17.3	0.0	17.3	20.00	20.00	0.00
6,025.0	25.00	180.10	6,021.1	-26.8	0.0	26.8	20.00	20.00	0.00
6,050.0	30.00	180.10	6,043.2	-38.4	-0.1	38.4	20.00	20.00	0.00
6,075.0	35.00	180.10	6,064.3	-51.8	-0.1	51.8	20.00	20.00	0.00
6,100.0	40.00	180.10	6,084.1	-67.0	-0.1	67.0	20.00	20.00	0.00
6,125.0	45.00	180.10	6,102.6	-83.9	-0.1	83.9	20.00	20.00	0.00
6,150.0	50.00	180.10	6,119.5	-102.3	-0.2	102.3	20.00	20.00	0.00
6,175.0	55.00	180.10	6,134.7	-122.2	-0.2	122.2	20.00	20.00	0.00
6,200.0	60.00	180.10	6,148.1	-143.2	-0.2	143.2	20.00	20.00	0.00
6,225.0	65.00	180.10	6,159.6	-165.4	-0.3	165.4	20.00	20.00	0.00
6,250.0	70.00	180.10	6,169.2	-188.5	-0.3	188.5	20.00	20.00	0.00
6,275.0	75.00	180.10	6,176.7	-212.3	-0.4	212.3	20.00	20.00	0.00
6,300.0	80.00	180.10	6,182.1	-236.7	-0.4	236.7	20.00	20.00	0.00
6,325.0	85.00	180.10	6,185.4	-261.5	-0.5	261.5	20.00	20.00	0.00
6,352.4	90.48	180.10	6,186.5	-288.9	-0.5	288.9	20.00	20.00	0.00
EOC - Hold to TD									
6,400.0	90.48	180.10	6,186.1	-336.5	-0.6	336.5	0.00	0.00	0.00
6,500.0	90.48	180.10	6,185.2	-436.5	-0.8	436.5	0.00	0.00	0.00
6,600.0	90.48	180.10	6,184.4	-536.5	-0.9	536.5	0.00	0.00	0.00
6,700.0	90.48	180.10	6,183.6	-636.5	-1.1	636.5	0.00	0.00	0.00
6,800.0	90.48	180.10	6,182.7	-736.5	-1.3	736.5	0.00	0.00	0.00
6,900.0	90.48	180.10	6,181.9	-836.5	-1.5	836.5	0.00	0.00	0.00
7,000.0	90.48	180.10	6,181.0	-936.5	-1.6	936.5	0.00	0.00	0.00
7,100.0	90.48	180.10	6,180.2	-1,036.5	-1.8	1,036.5	0.00	0.00	0.00
7,200.0	90.48	180.10	6,179.4	-1,136.4	-2.0	1,136.4	0.00	0.00	0.00
7,300.0	90.48	180.10	6,178.5	-1,236.4	-2.2	1,236.4	0.00	0.00	0.00
7,400.0	90.48	180.10	6,177.7	-1,336.4	-2.3	1,336.4	0.00	0.00	0.00
7,500.0	90.48	180.10	6,176.9	-1,436.4	-2.5	1,436.4	0.00	0.00	0.00
7,600.0	90.48	180.10	6,176.0	-1,536.4	-2.7	1,536.4	0.00	0.00	0.00
7,700.0	90.48	180.10	6,175.2	-1,636.4	-2.9	1,636.4	0.00	0.00	0.00
7,800.0	90.48	180.10	6,174.3	-1,736.4	-3.1	1,736.4	0.00	0.00	0.00
7,900.0	90.48	180.10	6,173.5	-1,836.4	-3.2	1,836.4	0.00	0.00	0.00
8,000.0	90.48	180.10	6,172.7	-1,936.4	-3.4	1,936.4	0.00	0.00	0.00
8,100.0	90.48	180.10	6,171.8	-2,036.4	-3.6	2,036.4	0.00	0.00	0.00
8,200.0	90.48	180.10	6,171.0	-2,136.4	-3.8	2,136.4	0.00	0.00	0.00
8,300.0	90.48	180.10	6,170.2	-2,236.4	-3.9	2,236.4	0.00	0.00	0.00
8,400.0	90.48	180.10	6,169.3	-2,336.4	-4.1	2,336.4	0.00	0.00	0.00
8,500.0	90.48	180.10	6,168.5	-2,436.4	-4.3	2,436.4	0.00	0.00	0.00
8,600.0	90.48	180.10	6,167.6	-2,536.4	-4.5	2,536.4	0.00	0.00	0.00
8,700.0	90.48	180.10	6,166.8	-2,636.4	-4.7	2,636.4	0.00	0.00	0.00
8,800.0	90.48	180.10	6,166.0	-2,736.4	-4.8	2,736.4	0.00	0.00	0.00
8,900.0	90.48	180.10	6,165.1	-2,836.4	-5.0	2,836.4	0.00	0.00	0.00
9,000.0	90.48	180.10	6,164.3	-2,936.4	-5.2	2,936.4	0.00	0.00	0.00
9,100.0	90.48	180.10	6,163.5	-3,036.4	-5.4	3,036.4	0.00	0.00	0.00
9,200.0	90.48	180.10	6,162.6	-3,136.4	-5.6	3,136.4	0.00	0.00	0.00
9,300.0	90.48	180.10	6,161.8	-3,236.4	-5.7	3,236.4	0.00	0.00	0.00
9,400.0	90.48	180.10	6,160.9	-3,336.4	-5.9	3,336.4	0.00	0.00	0.00
9,500.0	90.48	180.10	6,160.1	-3,436.4	-6.1	3,436.4	0.00	0.00	0.00



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9,600.0	90.48	180.10	6,159.3	-3,536.4	-6.3	3,536.4	0.00	0.00	0.00
9,700.0	90.48	180.10	6,158.4	-3,636.4	-6.5	3,636.4	0.00	0.00	0.00
9,800.0	90.48	180.10	6,157.6	-3,736.4	-6.6	3,736.4	0.00	0.00	0.00
9,900.0	90.48	180.10	6,156.8	-3,836.3	-6.8	3,836.4	0.00	0.00	0.00
10,000.0	90.48	180.10	6,155.9	-3,936.3	-7.0	3,936.4	0.00	0.00	0.00
10,100.0	90.48	180.10	6,155.1	-4,036.3	-7.2	4,036.3	0.00	0.00	0.00
10,200.0	90.48	180.10	6,154.2	-4,136.3	-7.4	4,136.3	0.00	0.00	0.00
10,300.0	90.48	180.10	6,153.4	-4,236.3	-7.6	4,236.3	0.00	0.00	0.00
10,400.0	90.48	180.10	6,152.6	-4,336.3	-7.7	4,336.3	0.00	0.00	0.00
10,500.0	90.48	180.10	6,151.7	-4,436.3	-7.9	4,436.3	0.00	0.00	0.00
10,600.0	90.48	180.11	6,150.9	-4,536.3	-8.1	4,536.3	0.00	0.00	0.00
10,707.4	90.48	180.11	6,150.0	-4,643.7	-8.3	4,643.7	0.00	0.00	0.00

TD at 10707.4 - Eddy State #6

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Eddy State #6 - plan hits target center - Point	0.00	0.00	6,150.0	-4,643.7	-8.3	580,724.60	631,912.10	32° 35' 46.034 N	104° 2' 21.220 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,900.0	5,900.0	0.0	0.0	KOP 20/100 DLS @ 180.1 AZI
6,352.4	6,186.5	-288.9	-0.5	EOC - Hold to TD
10,707.4	6,150.0	-4,643.7	-8.3	TD at 10707.4