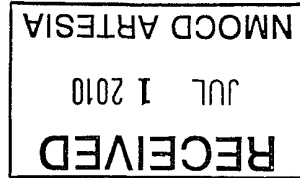


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RM



Cimarex Energy Co.

Eddy County (NM83E)

Sec 32 -T25S - R26E

Neo State Com #1

Wellbore #1

Plan: Plan #1

Standard Planning Report

24 June, 2010

MRZ

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Neo State Com #1
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 32 -T25S - R26E	North Reference:	Grid
Well:	Neo State Com #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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 32 -T25S - R26E		
Site Position:		Northing:	397,140.10 usft
From:	Map	Easting:	549,023.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 30.535 N
		Longitude:	104° 18' 30.653 W
		Grid Convergence:	0.01 °

Well	Neo State Com #1		
Well Position	+N/-S	0.0 usft	Northing: 397,140.10 usft
	+E/-W	0.0 usft	Easting: 549,023.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 5' 30.535 N
			Longitude: 104° 18' 30.653 W
			Ground Level: 0.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	2010/06/24	8.02
			Dip Angle
			(°)
			59.98
			Field Strength
			(nT)
			48,609

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			270.21

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,028.0	0.00	0.00	9,028.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,485.7	91.54	270.21	9,314.4	1.1	-294.2	20.00	20.00	0.00	270.21	
13,181.8	91.54	270.22	9,215.0	14.9	-3,988.9	0.00	0.00	0.00	80.21	Neo State Com 1

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Neo State Com #1
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 32 - T25S - R26E	North Reference:	Grid
Well:	Neo State Com #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,028.0	0.00	0.00	9,028.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 20°/100 DLS @ 270.21° AZI									
9,050.0	4.40	270.21	9,050.0	0.0	-0.8	0.8	20.00	20.00	0.00
9,075.0	9.40	270.21	9,074.8	0.0	-3.8	3.8	20.00	20.00	0.00
9,100.0	14.40	270.21	9,099.2	0.0	-9.0	9.0	20.00	20.00	0.00
9,125.0	19.40	270.21	9,123.2	0.1	-16.3	16.3	20.00	20.00	0.00
9,150.0	24.40	270.21	9,146.3	0.1	-25.6	25.6	20.00	20.00	0.00
9,175.0	29.40	270.21	9,168.6	0.1	-36.9	36.9	20.00	20.00	0.00
9,200.0	34.40	270.21	9,189.9	0.2	-50.1	50.1	20.00	20.00	0.00
9,225.0	39.40	270.21	9,209.8	0.2	-65.1	65.1	20.00	20.00	0.00
9,250.0	44.40	270.21	9,228.4	0.3	-81.8	81.8	20.00	20.00	0.00
9,275.0	49.40	270.21	9,245.5	0.4	-100.0	100.0	20.00	20.00	0.00
9,300.0	54.40	270.21	9,260.9	0.4	-119.7	119.7	20.00	20.00	0.00
9,325.0	59.40	270.21	9,274.6	0.5	-140.6	140.6	20.00	20.00	0.00
9,350.0	64.40	270.21	9,286.4	0.6	-162.7	162.7	20.00	20.00	0.00
9,375.0	69.40	270.21	9,296.2	0.7	-185.7	185.7	20.00	20.00	0.00
9,400.0	74.40	270.21	9,303.9	0.8	-209.4	209.4	20.00	20.00	0.00
9,425.0	79.40	270.21	9,309.6	0.9	-233.8	233.8	20.00	20.00	0.00
9,450.0	84.40	270.21	9,313.1	0.9	-258.5	258.5	20.00	20.00	0.00
9,475.0	89.40	270.21	9,314.5	1.0	-283.5	283.5	20.00	20.00	0.00
9,485.7	91.54	270.21	9,314.4	1.1	-294.2	294.2	20.00	20.00	0.00
EOC - Hold to TD									
9,500.0	91.54	270.21	9,314.0	1.1	-308.5	308.5	0.00	0.00	0.00
9,600.0	91.54	270.21	9,311.3	1.5	-408.4	408.4	0.00	0.00	0.00
9,700.0	91.54	270.21	9,308.6	1.9	-508.4	508.4	0.00	0.00	0.00
9,800.0	91.54	270.21	9,305.9	2.2	-608.4	608.4	0.00	0.00	0.00
9,900.0	91.54	270.21	9,303.2	2.6	-708.3	708.3	0.00	0.00	0.00
10,000.0	91.54	270.21	9,300.6	3.0	-808.3	808.3	0.00	0.00	0.00
10,100.0	91.54	270.21	9,297.9	3.3	-908.2	908.3	0.00	0.00	0.00
10,200.0	91.54	270.21	9,295.2	3.7	-1,008.2	1,008.2	0.00	0.00	0.00
10,300.0	91.54	270.21	9,292.5	4.1	-1,108.2	1,108.2	0.00	0.00	0.00
10,400.0	91.54	270.21	9,289.8	4.4	-1,208.1	1,208.1	0.00	0.00	0.00
10,500.0	91.54	270.21	9,287.1	4.8	-1,308.1	1,308.1	0.00	0.00	0.00
10,600.0	91.54	270.21	9,284.4	5.2	-1,408.1	1,408.1	0.00	0.00	0.00
10,700.0	91.54	270.21	9,281.7	5.6	-1,508.0	1,508.0	0.00	0.00	0.00
10,800.0	91.54	270.21	9,279.0	5.9	-1,608.0	1,608.0	0.00	0.00	0.00
10,900.0	91.54	270.21	9,276.4	6.3	-1,708.0	1,708.0	0.00	0.00	0.00
11,000.0	91.54	270.21	9,273.7	6.7	-1,807.9	1,807.9	0.00	0.00	0.00
11,100.0	91.54	270.21	9,271.0	7.0	-1,907.9	1,907.9	0.00	0.00	0.00
11,200.0	91.54	270.21	9,268.3	7.4	-2,007.8	2,007.9	0.00	0.00	0.00
11,300.0	91.54	270.21	9,265.6	7.8	-2,107.8	2,107.8	0.00	0.00	0.00
11,400.0	91.54	270.21	9,262.9	8.2	-2,207.8	2,207.8	0.00	0.00	0.00
11,500.0	91.54	270.21	9,260.2	8.5	-2,307.7	2,307.8	0.00	0.00	0.00
11,600.0	91.54	270.21	9,257.5	8.9	-2,407.7	2,407.7	0.00	0.00	0.00
11,700.0	91.54	270.21	9,254.9	9.3	-2,507.7	2,507.7	0.00	0.00	0.00
11,800.0	91.54	270.21	9,252.2	9.7	-2,607.6	2,607.6	0.00	0.00	0.00
11,900.0	91.54	270.22	9,249.5	10.0	-2,707.6	2,707.6	0.00	0.00	0.00
12,000.0	91.54	270.22	9,246.8	10.4	-2,807.5	2,807.6	0.00	0.00	0.00
12,100.0	91.54	270.22	9,244.1	10.8	-2,907.5	2,907.5	0.00	0.00	0.00
12,200.0	91.54	270.22	9,241.4	11.2	-3,007.5	3,007.5	0.00	0.00	0.00
12,300.0	91.54	270.22	9,238.7	11.5	-3,107.4	3,107.5	0.00	0.00	0.00
12,400.0	91.54	270.22	9,236.0	11.9	-3,207.4	3,207.4	0.00	0.00	0.00
12,500.0	91.54	270.22	9,233.3	12.3	-3,307.4	3,307.4	0.00	0.00	0.00
12,600.0	91.54	270.22	9,230.6	12.7	-3,407.3	3,407.4	0.00	0.00	0.00

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: Neo State Com #1
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 32 -T25S - R26E	North Reference:	Grid
Well:	Neo State Com #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,700.0	91.54	270.22	9,228.0	13.0	-3,507.3	3,507.3	0.00	0.00	0.00
12,800.0	91.54	270.22	9,225.3	13.4	-3,607.3	3,607.3	0.00	0.00	0.00
12,900.0	91.54	270.22	9,222.6	13.8	-3,707.2	3,707.2	0.00	0.00	0.00
13,000.0	91.54	270.22	9,219.9	14.2	-3,807.2	3,807.2	0.00	0.00	0.00
13,100.0	91.54	270.22	9,217.2	14.6	-3,907.1	3,907.2	0.00	0.00	0.00
13,181.8	91.54	270.22	9,215.0	14.9	-3,988.9	3,988.9	0.00	0.00	0.00
TD at 13181.8 - Neo State Com 1									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Neo State Com 1	0.00	0.00	9,215.0	14.9	-3,988.9	397,154.97	545,034.40	32° 5' 30.689 N	104° 19' 17.024 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Plan Annotations

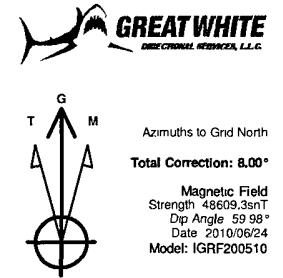
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,028.0	9,028.0	0.0	0.0	KOP 20°/100 DLS @ 270.21° AZI
9,485.7	9,314.4	1.1	-294.2	EOC - Hold to TD
13,181.8	9,215.0	14.9	-3,988.9	TD at 13181.8

Cimarex Energy Co.

Project Eddy County (NM83E)
Site Sec 32-T25S-R26E
Well Neo State Com #1
Wellbore Wellbore #1
Design Plan #1

WELL DETAILS: Neo State Com #1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	397140.10	549023.30	32° 5' 30.535 N	104° 18' 30.653 W
SHL: 660' FNL / 660' FEL					
BHL: 660' FNL / 660' FWL					



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Neo State Com 1	9215.0	14.9	-3988.9	397154.97	545034.40

PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9028.0	0.00	0.00	9028.0	0.0	0.0	0.00	0.00	0.0	
3	9485.7	91.54	270.21	9314.4	1.1	-294.2	20.00	270.21	294.2	
4	13181.8	91.54	270.22	9215.0	14.9	-3988.9	0.00	80.21	3988.9	Neo State Com 1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
9028.0	9028.0	0.00	0.00	0.0	0.0	0.0	0.0	KOP 20°/100 DLS @ 270.2°
9314.4	9485.7	91.54	270.21	1.1	-294.2	294.2	294.2	EOC - Hold to TD
9215.0	13181.8	91.54	270.22	14.9	-3988.9	3988.9	3988.9	TD at 13181.8

