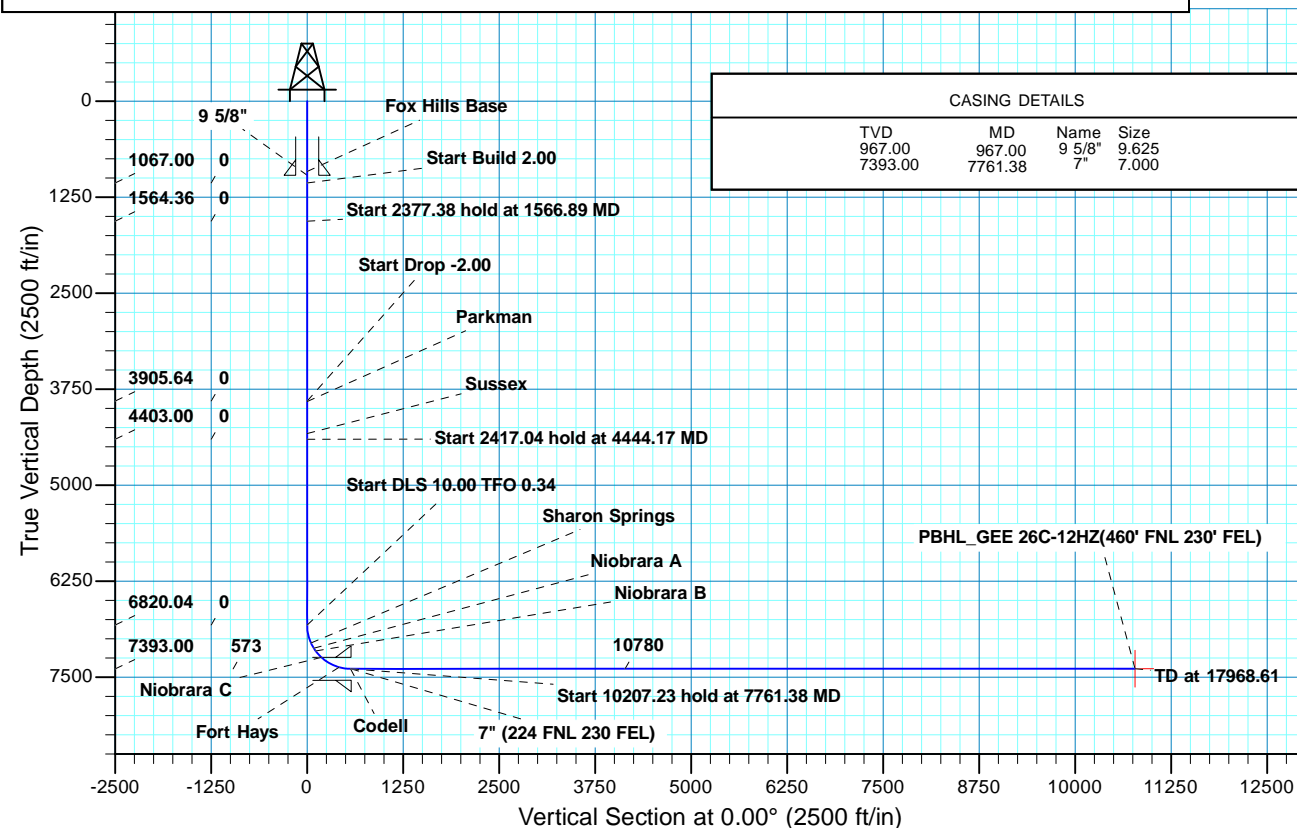




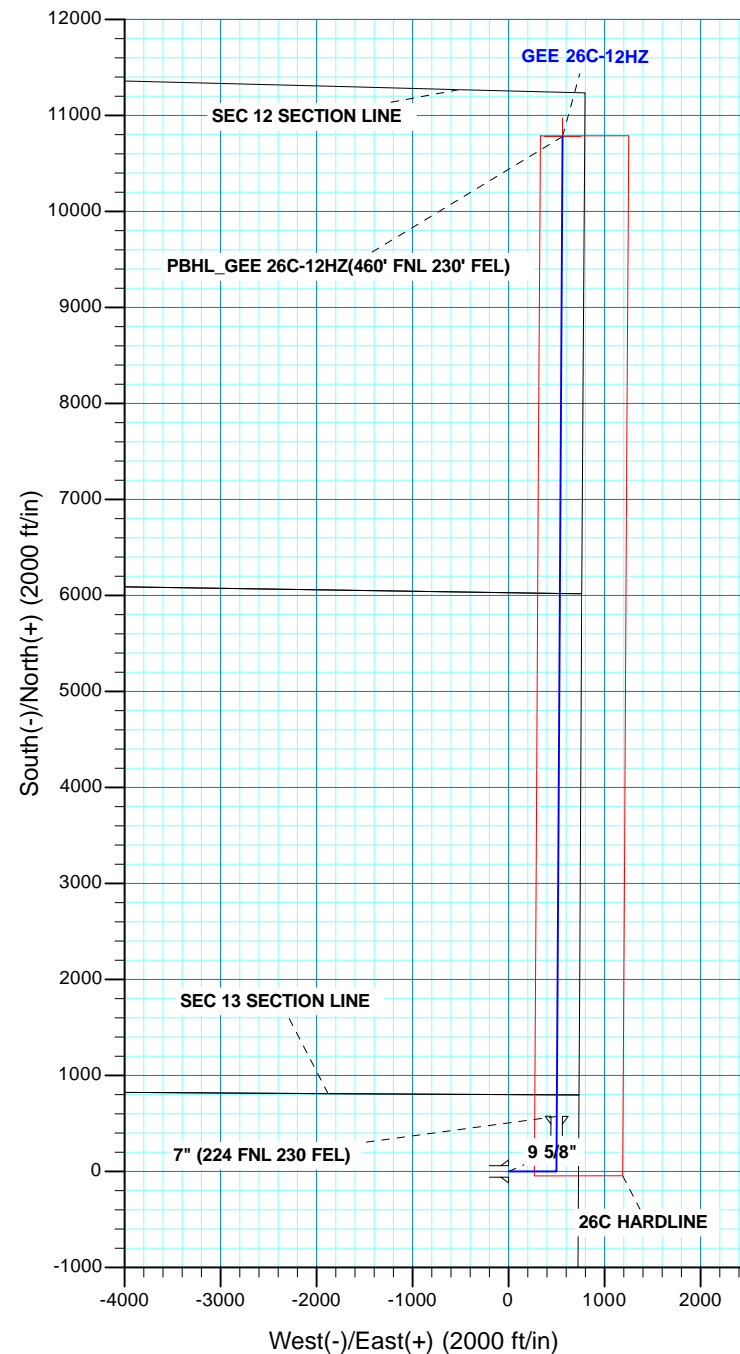
Project: COLORADO NORTHERN ZONE - 83
Site: GEE 1-24HZ PAD
Well: GEE 26C-12HZ
Wellbore: OH
Design: PLAN #2 PRELIMINARY



WELL DETAILS: GEE 26C-12HZ											
GL 4858 & KB 17 @ 4875.00ft (ASSUMED)											
+N/-S 0.00		+E/-W 0.00		Northing 1290363.13		Easting 3186636.62		Latitude 40.1285120		Longitude -104.8325420	
SECTION DETAILS											
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1067.00	0.00	0.00	1067.00	0.00	0.00	0.00	0.00	0.00	0.00		
1566.89	10.00	90.00	1564.36	0.00	43.50	2.00	90.00	0.00	0.00		
3944.27	10.00	90.00	3905.64	0.00	456.25	0.00	0.00	0.00	0.00		
4444.17	0.00	0.00	4403.00	0.00	499.75	2.00	180.00	0.00	0.00		
6861.21	0.00	0.00	6820.04	0.00	499.75	0.00	0.00	0.00	0.00		
7761.38	90.02	0.34	7393.00	573.12	503.12	10.00	0.34	573.12			
17968.61	90.02	0.34	7390.00	10780.17	563.20	0.00	0.00	10780.17	PBHL_GEE 26C-12HZ(460' FNL 230' FEL)		
DESIGN TARGET DETAILS											
Name		TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
PBHL		7390.00	10780.17	563.20	1301147.22	3187118.67	40.1581050	-104.8305270	Point		
- plan hits target center											
FORMATION TOP DETAILS											
		TVDPath	MDPath	Formation		DipDirInc					
		917.00	917.00	Fox Hills Base		0.00					
		3912.00	3950.73	Parkman		9.87					
		4329.00	4370.16	Sussex		1.48					
		7056.00	7104.41	Sharon Springs		24.32					
		7124.00	7181.61	Niobrara A		32.04					
		7158.00	7222.67	Niobrara B		36.15					
		7243.00	7337.00	Niobrara C		47.58					
		7371.00	7601.93	Fort Hays		74.07					
		7393.00	7753.79	Codell		90.02					



CASING DETAILS				
TVD	MD	Name	Size	
967.00	967.00	9 5/8"	9.625	
7393.00	7761.38	7"	7.000	





Scientific Drilling

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

GEE 1-24HZ PAD

GEE 26C-12HZ

OH

Plan: PLAN #2 PRELIMINARY

Standard Planning Report

24 June, 2014

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	GEE 1-24HZ PAD, SECTION 24 T2N R67W			
Site Position:		Northing:	1,290,363.14 usft	Latitude: 40.1285120
From:	Lat/Long	Easting:	3,186,636.63 usft	Longitude: -104.8325420
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.43 °

Well	GEE 26C-12HZ, 800 FNL 730 FEL			
Well Position	+N/-S	0.00 ft	Northing:	1,290,363.13 usft
	+E/-W	0.00 ft	Easting:	3,186,636.63 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	4,858.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	06/12/14	8.52	66.70	52,580

Design	PLAN #2 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,067.00	0.00	0.00	1,067.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,566.89	10.00	90.00	1,564.36	0.00	43.50	2.00	2.00	0.00	90.00	
3,944.27	10.00	90.00	3,905.64	0.00	456.25	0.00	0.00	0.00	0.00	
4,444.17	0.00	0.00	4,403.00	0.00	499.75	2.00	-2.00	0.00	180.00	
6,861.21	0.00	0.00	6,820.04	0.00	499.75	0.00	0.00	0.00	0.00	
7,761.38	90.02	0.34	7,393.00	573.12	503.12	10.00	10.00	0.04	0.34	
17,968.61	90.02	0.34	7,390.00	10,780.17	563.20	0.00	0.00	0.00	0.00	PBHL_GEE 26C-12H

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
917.00	0.00	0.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00
Fox Hills Base									
967.00	0.00	0.00	967.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,067.00	0.00	0.00	1,067.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	0.66	90.00	1,100.00	0.00	0.19	0.00	2.00	2.00	0.00
1,200.00	2.66	90.00	1,199.95	0.00	3.09	0.00	2.00	2.00	0.00
1,300.00	4.66	90.00	1,299.74	0.00	9.47	0.00	2.00	2.00	0.00
1,400.00	6.66	90.00	1,399.25	0.00	19.33	0.00	2.00	2.00	0.00
1,500.00	8.66	90.00	1,498.35	0.00	32.66	0.00	2.00	2.00	0.00
1,566.89	10.00	90.00	1,564.36	0.00	43.50	0.00	2.00	2.00	0.00
Start 2377.38 hold at 1566.89 MD									
1,600.00	10.00	90.00	1,596.96	0.00	49.25	0.00	0.00	0.00	0.00
1,700.00	10.00	90.00	1,695.45	0.00	66.61	0.00	0.00	0.00	0.00
1,800.00	10.00	90.00	1,793.93	0.00	83.97	0.00	0.00	0.00	0.00
1,900.00	10.00	90.00	1,892.41	0.00	101.34	0.00	0.00	0.00	0.00
2,000.00	10.00	90.00	1,990.89	0.00	118.70	0.00	0.00	0.00	0.00
2,100.00	10.00	90.00	2,089.37	0.00	136.06	0.00	0.00	0.00	0.00
2,200.00	10.00	90.00	2,187.85	0.00	153.42	0.00	0.00	0.00	0.00
2,300.00	10.00	90.00	2,286.33	0.00	170.78	0.00	0.00	0.00	0.00
2,400.00	10.00	90.00	2,384.82	0.00	188.14	0.00	0.00	0.00	0.00
2,500.00	10.00	90.00	2,483.30	0.00	205.50	0.00	0.00	0.00	0.00
2,600.00	10.00	90.00	2,581.78	0.00	222.86	0.00	0.00	0.00	0.00
2,700.00	10.00	90.00	2,680.26	0.00	240.22	0.00	0.00	0.00	0.00
2,800.00	10.00	90.00	2,778.74	0.00	257.59	0.00	0.00	0.00	0.00
2,900.00	10.00	90.00	2,877.22	0.00	274.95	0.00	0.00	0.00	0.00
3,000.00	10.00	90.00	2,975.70	0.00	292.31	0.00	0.00	0.00	0.00
3,100.00	10.00	90.00	3,074.19	0.00	309.67	0.00	0.00	0.00	0.00
3,200.00	10.00	90.00	3,172.67	0.00	327.03	0.00	0.00	0.00	0.00
3,300.00	10.00	90.00	3,271.15	0.00	344.39	0.00	0.00	0.00	0.00
3,400.00	10.00	90.00	3,369.63	0.00	361.75	0.00	0.00	0.00	0.00
3,500.00	10.00	90.00	3,468.11	0.00	379.11	0.00	0.00	0.00	0.00
3,600.00	10.00	90.00	3,566.59	0.00	396.48	0.00	0.00	0.00	0.00
3,700.00	10.00	90.00	3,665.07	0.00	413.84	0.00	0.00	0.00	0.00
3,800.00	10.00	90.00	3,763.56	0.00	431.20	0.00	0.00	0.00	0.00
3,900.00	10.00	90.00	3,862.04	0.00	448.56	0.00	0.00	0.00	0.00
3,944.27	10.00	90.00	3,905.64	0.00	456.25	0.00	0.00	0.00	0.00
Start Drop -2.00									
3,950.73	9.87	90.00	3,912.00	0.00	457.36	0.00	2.00	-2.00	0.00
Parkman									
4,000.00	8.88	90.00	3,960.61	0.00	465.39	0.00	2.00	-2.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	6.88	90.00	4,059.66	0.00	479.10	0.00	2.00	-2.00	0.00
4,200.00	4.88	90.00	4,159.13	0.00	489.35	0.00	2.00	-2.00	0.00
4,300.00	2.88	90.00	4,258.89	0.00	496.12	0.00	2.00	-2.00	0.00
4,370.16	1.48	90.00	4,329.00	0.00	498.79	0.00	2.00	-2.00	0.00
Sussex									
4,400.00	0.88	90.00	4,358.83	0.00	499.41	0.00	2.00	-2.00	0.00
4,444.17	0.00	0.00	4,403.00	0.00	499.75	0.00	2.00	-2.00	0.00
Start 2417.04 hold at 4444.17 MD									
4,500.00	0.00	0.00	4,458.83	0.00	499.75	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,558.83	0.00	499.75	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,658.83	0.00	499.75	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,758.83	0.00	499.75	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,858.83	0.00	499.75	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	4,958.83	0.00	499.75	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,058.83	0.00	499.75	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,158.83	0.00	499.75	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,258.83	0.00	499.75	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,358.83	0.00	499.75	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,458.83	0.00	499.75	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,558.83	0.00	499.75	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,658.83	0.00	499.75	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,758.83	0.00	499.75	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,858.83	0.00	499.75	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,958.83	0.00	499.75	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,058.83	0.00	499.75	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,158.83	0.00	499.75	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,258.83	0.00	499.75	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,358.83	0.00	499.75	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,458.83	0.00	499.75	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,558.83	0.00	499.75	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,658.83	0.00	499.75	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,758.83	0.00	499.75	0.00	0.00	0.00	0.00
6,861.21	0.00	0.00	6,820.04	0.00	499.75	0.00	0.00	0.00	0.00
Start DLS 10.00 TFO 0.34									
6,900.00	3.88	0.34	6,858.80	1.31	499.76	1.31	10.00	10.00	0.00
7,000.00	13.88	0.34	6,957.48	16.73	499.85	16.73	10.00	10.00	0.00
7,100.00	23.88	0.34	7,051.98	49.04	500.04	49.04	10.00	10.00	0.00
7,104.41	24.32	0.34	7,056.00	50.84	500.05	50.84	10.00	10.00	0.00
Sharon Springs									
7,181.61	32.04	0.34	7,124.00	87.27	500.26	87.27	10.00	10.00	0.00
Niobrara A									
7,200.00	33.88	0.34	7,139.43	97.28	500.32	97.28	10.00	10.00	0.00
7,222.67	36.15	0.34	7,158.00	110.29	500.40	110.29	10.00	10.00	0.00
Niobrara B									
7,300.00	43.88	0.34	7,217.18	159.97	500.69	159.97	10.00	10.00	0.00
7,337.00	47.58	0.34	7,243.00	186.45	500.85	186.45	10.00	10.00	0.00
Niobrara C									
7,400.00	53.88	0.34	7,282.86	235.20	501.13	235.20	10.00	10.00	0.00
7,500.00	63.88	0.34	7,334.48	320.70	501.64	320.70	10.00	10.00	0.00
7,600.00	73.88	0.34	7,370.47	413.86	502.19	413.86	10.00	10.00	0.00
7,601.93	74.07	0.34	7,371.00	415.71	502.20	415.71	10.00	10.00	0.00
Fort Hays									
7,700.00	83.88	0.34	7,389.73	511.86	502.76	511.86	10.00	10.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,753.79	90.02	0.34	7,393.00	565.52	503.08	565.52	11.41	11.41	0.00
Codell									
7,761.38	90.02	0.34	7,393.00	573.12	503.12	573.12	0.00	0.00	0.00
Start 10207.23 hold at 7761.38 MD - 7" (224 FNL 230 FEL)									
7,800.00	90.02	0.34	7,392.99	611.74	503.35	611.74	0.00	0.00	0.00
7,900.00	90.02	0.34	7,392.96	711.74	503.94	711.74	0.00	0.00	0.00
8,000.00	90.02	0.34	7,392.93	811.74	504.53	811.74	0.00	0.00	0.00
8,100.00	90.02	0.34	7,392.90	911.73	505.12	911.73	0.00	0.00	0.00
8,200.00	90.02	0.34	7,392.87	1,011.73	505.71	1,011.73	0.00	0.00	0.00
8,300.00	90.02	0.34	7,392.84	1,111.73	506.29	1,111.73	0.00	0.00	0.00
8,400.00	90.02	0.34	7,392.81	1,211.73	506.88	1,211.73	0.00	0.00	0.00
8,500.00	90.02	0.34	7,392.78	1,311.73	507.47	1,311.73	0.00	0.00	0.00
8,600.00	90.02	0.34	7,392.75	1,411.72	508.06	1,411.72	0.00	0.00	0.00
8,700.00	90.02	0.34	7,392.72	1,511.72	508.65	1,511.72	0.00	0.00	0.00
8,800.00	90.02	0.34	7,392.69	1,611.72	509.24	1,611.72	0.00	0.00	0.00
8,900.00	90.02	0.34	7,392.66	1,711.72	509.83	1,711.72	0.00	0.00	0.00
9,000.00	90.02	0.34	7,392.63	1,811.72	510.41	1,811.72	0.00	0.00	0.00
9,100.00	90.02	0.34	7,392.60	1,911.72	511.00	1,911.72	0.00	0.00	0.00
9,200.00	90.02	0.34	7,392.58	2,011.71	511.59	2,011.71	0.00	0.00	0.00
9,300.00	90.02	0.34	7,392.55	2,111.71	512.18	2,111.71	0.00	0.00	0.00
9,400.00	90.02	0.34	7,392.52	2,211.71	512.77	2,211.71	0.00	0.00	0.00
9,500.00	90.02	0.34	7,392.49	2,311.71	513.36	2,311.71	0.00	0.00	0.00
9,600.00	90.02	0.34	7,392.46	2,411.71	513.95	2,411.71	0.00	0.00	0.00
9,700.00	90.02	0.34	7,392.43	2,511.71	514.53	2,511.71	0.00	0.00	0.00
9,800.00	90.02	0.34	7,392.40	2,611.70	515.12	2,611.70	0.00	0.00	0.00
9,900.00	90.02	0.34	7,392.37	2,711.70	515.71	2,711.70	0.00	0.00	0.00
10,000.00	90.02	0.34	7,392.34	2,811.70	516.30	2,811.70	0.00	0.00	0.00
10,100.00	90.02	0.34	7,392.31	2,911.70	516.89	2,911.70	0.00	0.00	0.00
10,200.00	90.02	0.34	7,392.28	3,011.70	517.48	3,011.70	0.00	0.00	0.00
10,300.00	90.02	0.34	7,392.25	3,111.70	518.07	3,111.70	0.00	0.00	0.00
10,400.00	90.02	0.34	7,392.22	3,211.69	518.65	3,211.69	0.00	0.00	0.00
10,500.00	90.02	0.34	7,392.19	3,311.69	519.24	3,311.69	0.00	0.00	0.00
10,600.00	90.02	0.34	7,392.16	3,411.69	519.83	3,411.69	0.00	0.00	0.00
10,700.00	90.02	0.34	7,392.13	3,511.69	520.42	3,511.69	0.00	0.00	0.00
10,800.00	90.02	0.34	7,392.11	3,611.69	521.01	3,611.69	0.00	0.00	0.00
10,900.00	90.02	0.34	7,392.08	3,711.68	521.60	3,711.68	0.00	0.00	0.00
11,000.00	90.02	0.34	7,392.05	3,811.68	522.19	3,811.68	0.00	0.00	0.00
11,100.00	90.02	0.34	7,392.02	3,911.68	522.77	3,911.68	0.00	0.00	0.00
11,200.00	90.02	0.34	7,391.99	4,011.68	523.36	4,011.68	0.00	0.00	0.00
11,300.00	90.02	0.34	7,391.96	4,111.68	523.95	4,111.68	0.00	0.00	0.00
11,400.00	90.02	0.34	7,391.93	4,211.68	524.54	4,211.68	0.00	0.00	0.00
11,500.00	90.02	0.34	7,391.90	4,311.67	525.13	4,311.67	0.00	0.00	0.00
11,600.00	90.02	0.34	7,391.87	4,411.67	525.72	4,411.67	0.00	0.00	0.00
11,700.00	90.02	0.34	7,391.84	4,511.67	526.31	4,511.67	0.00	0.00	0.00
11,800.00	90.02	0.34	7,391.81	4,611.67	526.89	4,611.67	0.00	0.00	0.00
11,900.00	90.02	0.34	7,391.78	4,711.67	527.48	4,711.67	0.00	0.00	0.00
12,000.00	90.02	0.34	7,391.75	4,811.67	528.07	4,811.67	0.00	0.00	0.00
12,100.00	90.02	0.34	7,391.72	4,911.66	528.66	4,911.66	0.00	0.00	0.00
12,200.00	90.02	0.34	7,391.69	5,011.66	529.25	5,011.66	0.00	0.00	0.00
12,300.00	90.02	0.34	7,391.66	5,111.66	529.84	5,111.66	0.00	0.00	0.00
12,400.00	90.02	0.34	7,391.64	5,211.66	530.43	5,211.66	0.00	0.00	0.00
12,500.00	90.02	0.34	7,391.61	5,311.66	531.01	5,311.66	0.00	0.00	0.00
12,600.00	90.02	0.34	7,391.58	5,411.66	531.60	5,411.66	0.00	0.00	0.00
12,700.00	90.02	0.34	7,391.55	5,511.65	532.19	5,511.65	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,800.00	90.02	0.34	7,391.52	5,611.65	532.78	5,611.65	0.00	0.00	0.00
12,900.00	90.02	0.34	7,391.49	5,711.65	533.37	5,711.65	0.00	0.00	0.00
13,000.00	90.02	0.34	7,391.46	5,811.65	533.96	5,811.65	0.00	0.00	0.00
13,100.00	90.02	0.34	7,391.43	5,911.65	534.55	5,911.65	0.00	0.00	0.00
13,200.00	90.02	0.34	7,391.40	6,011.64	535.13	6,011.64	0.00	0.00	0.00
13,300.00	90.02	0.34	7,391.37	6,111.64	535.72	6,111.64	0.00	0.00	0.00
13,400.00	90.02	0.34	7,391.34	6,211.64	536.31	6,211.64	0.00	0.00	0.00
13,500.00	90.02	0.34	7,391.31	6,311.64	536.90	6,311.64	0.00	0.00	0.00
13,600.00	90.02	0.34	7,391.28	6,411.64	537.49	6,411.64	0.00	0.00	0.00
13,700.00	90.02	0.34	7,391.25	6,511.64	538.08	6,511.64	0.00	0.00	0.00
13,800.00	90.02	0.34	7,391.22	6,611.63	538.67	6,611.63	0.00	0.00	0.00
13,900.00	90.02	0.34	7,391.20	6,711.63	539.25	6,711.63	0.00	0.00	0.00
14,000.00	90.02	0.34	7,391.17	6,811.63	539.84	6,811.63	0.00	0.00	0.00
14,100.00	90.02	0.34	7,391.14	6,911.63	540.43	6,911.63	0.00	0.00	0.00
14,200.00	90.02	0.34	7,391.11	7,011.63	541.02	7,011.63	0.00	0.00	0.00
14,300.00	90.02	0.34	7,391.08	7,111.63	541.61	7,111.63	0.00	0.00	0.00
14,400.00	90.02	0.34	7,391.05	7,211.62	542.20	7,211.62	0.00	0.00	0.00
14,500.00	90.02	0.34	7,391.02	7,311.62	542.79	7,311.62	0.00	0.00	0.00
14,600.00	90.02	0.34	7,390.99	7,411.62	543.37	7,411.62	0.00	0.00	0.00
14,700.00	90.02	0.34	7,390.96	7,511.62	543.96	7,511.62	0.00	0.00	0.00
14,800.00	90.02	0.34	7,390.93	7,611.62	544.55	7,611.62	0.00	0.00	0.00
14,900.00	90.02	0.34	7,390.90	7,711.62	545.14	7,711.62	0.00	0.00	0.00
15,000.00	90.02	0.34	7,390.87	7,811.61	545.73	7,811.61	0.00	0.00	0.00
15,100.00	90.02	0.34	7,390.84	7,911.61	546.32	7,911.61	0.00	0.00	0.00
15,200.00	90.02	0.34	7,390.81	8,011.61	546.91	8,011.61	0.00	0.00	0.00
15,300.00	90.02	0.34	7,390.78	8,111.61	547.49	8,111.61	0.00	0.00	0.00
15,400.00	90.02	0.34	7,390.75	8,211.61	548.08	8,211.61	0.00	0.00	0.00
15,500.00	90.02	0.34	7,390.73	8,311.61	548.67	8,311.61	0.00	0.00	0.00
15,600.00	90.02	0.34	7,390.70	8,411.60	549.26	8,411.60	0.00	0.00	0.00
15,700.00	90.02	0.34	7,390.67	8,511.60	549.85	8,511.60	0.00	0.00	0.00
15,800.00	90.02	0.34	7,390.64	8,611.60	550.44	8,611.60	0.00	0.00	0.00
15,900.00	90.02	0.34	7,390.61	8,711.60	551.03	8,711.60	0.00	0.00	0.00
16,000.00	90.02	0.34	7,390.58	8,811.60	551.61	8,811.60	0.00	0.00	0.00
16,100.00	90.02	0.34	7,390.55	8,911.59	552.20	8,911.59	0.00	0.00	0.00
16,200.00	90.02	0.34	7,390.52	9,011.59	552.79	9,011.59	0.00	0.00	0.00
16,300.00	90.02	0.34	7,390.49	9,111.59	553.38	9,111.59	0.00	0.00	0.00
16,400.00	90.02	0.34	7,390.46	9,211.59	553.97	9,211.59	0.00	0.00	0.00
16,500.00	90.02	0.34	7,390.43	9,311.59	554.56	9,311.59	0.00	0.00	0.00
16,600.00	90.02	0.34	7,390.40	9,411.59	555.15	9,411.59	0.00	0.00	0.00
16,700.00	90.02	0.34	7,390.37	9,511.58	555.74	9,511.58	0.00	0.00	0.00
16,800.00	90.02	0.34	7,390.34	9,611.58	556.32	9,611.58	0.00	0.00	0.00
16,900.00	90.02	0.34	7,390.31	9,711.58	556.91	9,711.58	0.00	0.00	0.00
17,000.00	90.02	0.34	7,390.28	9,811.58	557.50	9,811.58	0.00	0.00	0.00
17,100.00	90.02	0.34	7,390.26	9,911.58	558.09	9,911.58	0.00	0.00	0.00
17,200.00	90.02	0.34	7,390.23	10,011.58	558.68	10,011.58	0.00	0.00	0.00
17,300.00	90.02	0.34	7,390.20	10,111.57	559.27	10,111.57	0.00	0.00	0.00
17,400.00	90.02	0.34	7,390.17	10,211.57	559.86	10,211.57	0.00	0.00	0.00
17,500.00	90.02	0.34	7,390.14	10,311.57	560.44	10,311.57	0.00	0.00	0.00
17,600.00	90.02	0.34	7,390.11	10,411.57	561.03	10,411.57	0.00	0.00	0.00
17,700.00	90.02	0.34	7,390.08	10,511.57	561.62	10,511.57	0.00	0.00	0.00
17,800.00	90.02	0.34	7,390.05	10,611.57	562.21	10,611.57	0.00	0.00	0.00
17,900.00	90.02	0.34	7,390.02	10,711.56	562.80	10,711.56	0.00	0.00	0.00
17,968.61	90.02	0.34	7,390.00	10,780.17	563.20	10,780.17	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well GEE 26C-12HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4858 & KB 17 @ 4875.00ft (ASSUMED)
Site:	GEE 1-24HZ PAD	North Reference:	True
Well:	GEE 26C-12HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
TD at 17968.61 - PBHL_GEE 26C-12HZ(460' FNL 230' FEL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_GEE 26C-12HZ(460' FNL 230' FEL)	0.00	0.00	7,390.00	10,780.17	563.20	1,301,147.22	3,187,118.67	40.1581050	-104.8305270
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
967.00	967.00	9 5/8"	9.625	13.500	
7,761.38	7,393.00	7" (224 FNL 230 FEL)	7.000	8.750	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
917.00	917.00	Fox Hills Base				
3,950.73	3,912.00	Parkman				
4,370.16	4,329.00	Sussex				
7,104.41	7,056.00	Sharon Springs				
7,181.61	7,124.00	Niobrara A				
7,222.67	7,158.00	Niobrara B				
7,337.00	7,243.00	Niobrara C				
7,601.93	7,371.00	Fort Hays				
7,753.79	7,393.00	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,067.00	1,067.00	0.00	0.00	Start Build 2.00	
1,566.89	1,564.36	0.00	43.50	Start 2377.38 hold at 1566.89 MD	
3,944.27	3,905.64	0.00	456.25	Start Drop -2.00	
4,444.17	4,403.00	0.00	499.75	Start 2417.04 hold at 4444.17 MD	
6,861.21	6,820.04	0.00	499.75	Start DLS 10.00 TFO 0.34	
7,761.38	7,393.00	573.12	503.12	Start 10207.23 hold at 7761.38 MD	
17,968.61	7,390.00	10,780.17	563.20	TD at 17968.61	