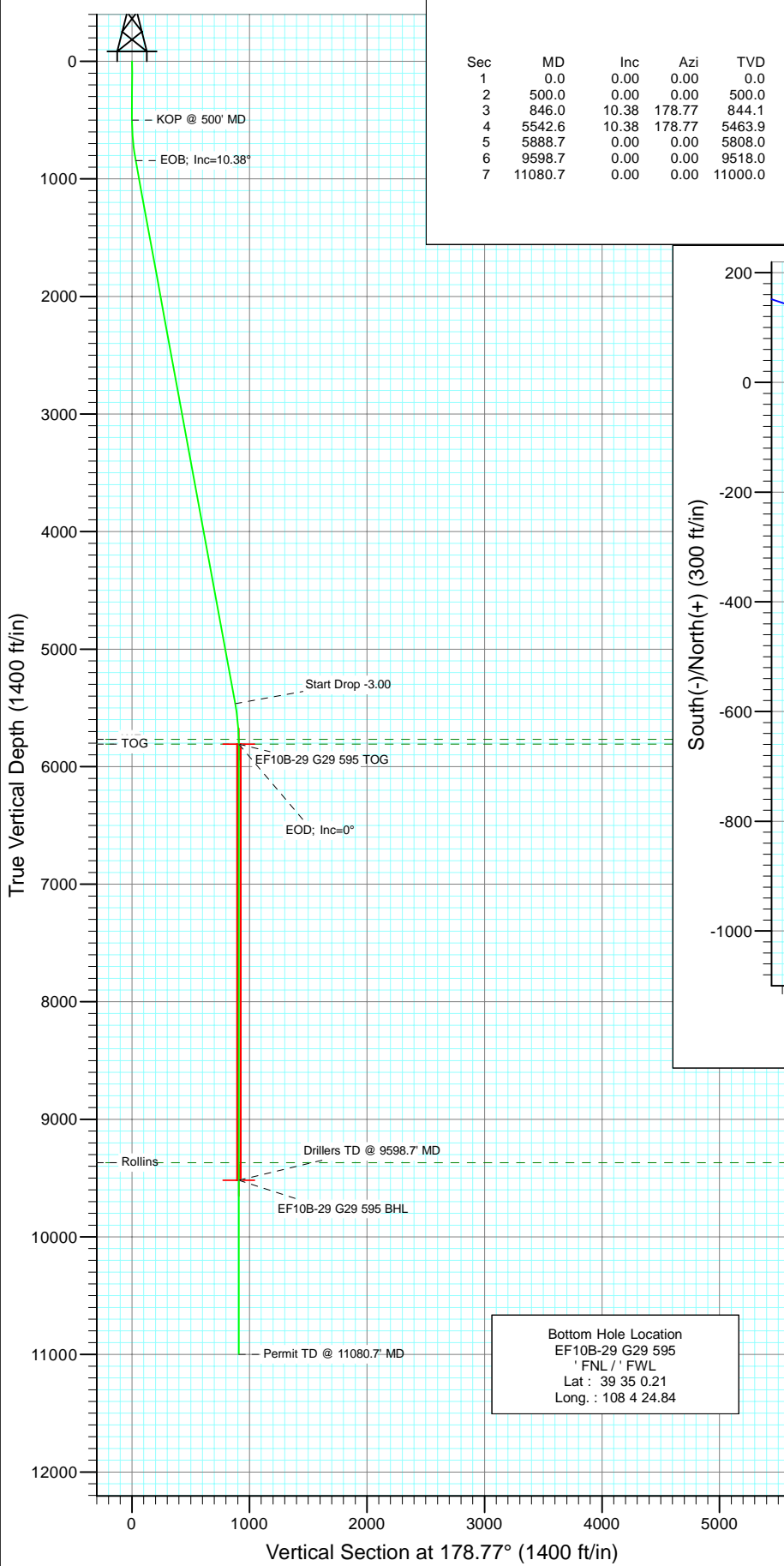
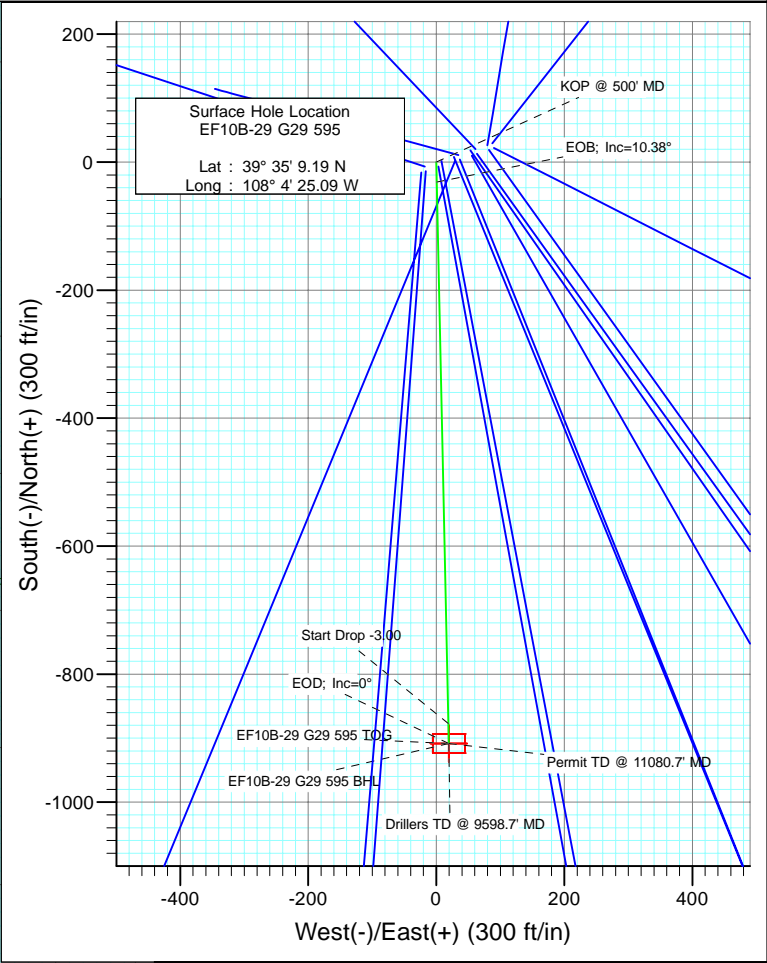




Project: North Piceance
 Site: G29 595
 Well: EF10B-29 G29 595
 Wellbore: DD
 Design: Plan #1



SECTION 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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	846.0	10.38	178.77	844.1	-31.3	0.7	3.00	178.77	31.3	
4	5542.6	10.38	178.77	5463.9	-877.3	18.9	0.00	0.00	877.5	
5	5888.7	0.00	0.00	5808.0	-908.6	19.6	3.00	180.00	908.8	EF10B-29 G29 595 TOG
6	9598.7	0.00	0.00	9518.0	-908.6	19.6	0.00	0.00	908.8	EF10B-29 G29 595 BHL
7	11080.7	0.00	0.00	11000.0	-908.6	19.6	0.00	0.00	908.8	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
5768.0	5848.7	WF
5808.0	5888.7	TOG
9368.0	9448.7	Rollins

Azimuths to True North
Magnetic North: 10.50°

Magnetic Field
Strength: 52417.7snT
Dip Angle: 65.84°
Date: 6/18/2010
Model: IGRF200510

DESIGN DETAILS: Plan #1					
105XXX; BH					
KBE @ 6118.0ft (Original Well Elev)					
Target	Azimuth	Origin	N/S	E/W	From TVD
EF10B-29 G29 595 BHL	178.77	Slot	0.0	0.0	0.0

Cathedral Energy Services

Planning Report

Database: EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference: Well EF10B-29 G29 595
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: KBE @ 6118.0ft (Original Well Elev)
Project: North Piceance	MD Reference: KBE @ 6118.0ft (Original Well Elev)
Site: G29 595	North Reference: True
Well: EF10B-29 G29 595	Survey Calculation Method: Minimum Curvature
Wellbore: DD	
Design: Plan #1	

Project North Piceance		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site G29 595					
Site Position:		Northing:	1,648,557.90 ft	Latitude:	39° 35' 9.12 N
From:	Lat/Long	Easting:	2,274,729.57 ft	Longitude:	108° 4' 25.32 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.62 °

Well EF10B-29 G29 595					
Well Position	+N/-S	0.0 ft	Northing:	1,648,564.46 ft	Latitude: 39° 35' 9.19 N
	+E/-W	0.0 ft	Easting:	2,274,747.77 ft	Longitude: 108° 4' 25.09 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 6,003.0 ft

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	6/18/2010	(°)	(°)	(nT)
			10.50	65.84	52,418

Design Plan #1					
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	178.77	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
846.0	10.38	178.77	844.1	-31.3	0.7	3.00	3.00	0.00	178.77	
5,542.6	10.38	178.77	5,463.9	-877.3	18.9	0.00	0.00	0.00	0.00	
5,888.7	0.00	0.00	5,808.0	-908.6	19.6	3.00	-3.00	0.00	180.00	EF10B-29 G29 595 T
9,598.7	0.00	0.00	9,518.0	-908.6	19.6	0.00	0.00	0.00	0.00	EF10B-29 G29 595 B

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well EF10B-29 G29 595
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6118.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6118.0ft (Original Well Elev)
Site:	G29 595	North Reference:	True
Well:	EF10B-29 G29 595	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	3.00	178.77	600.0	-2.6	0.1	2.6	3.00	3.00	
700.0	6.00	178.77	699.6	-10.5	0.2	10.5	3.00	3.00	
800.0	9.00	178.77	798.8	-23.5	0.5	23.5	3.00	3.00	
846.0	10.38	178.77	844.1	-31.3	0.7	31.3	3.00	3.00	
900.0	10.38	178.77	897.2	-41.0	0.9	41.0	0.00	0.00	
1,000.0	10.38	178.77	995.6	-59.0	1.3	59.0	0.00	0.00	
1,100.0	10.38	178.77	1,094.0	-77.0	1.7	77.0	0.00	0.00	
1,200.0	10.38	178.77	1,192.3	-95.0	2.0	95.0	0.00	0.00	
1,300.0	10.38	178.77	1,290.7	-113.0	2.4	113.1	0.00	0.00	
1,400.0	10.38	178.77	1,389.0	-131.1	2.8	131.1	0.00	0.00	
1,500.0	10.38	178.77	1,487.4	-149.1	3.2	149.1	0.00	0.00	
1,600.0	10.38	178.77	1,585.8	-167.1	3.6	167.1	0.00	0.00	
1,700.0	10.38	178.77	1,684.1	-185.1	4.0	185.1	0.00	0.00	
1,800.0	10.38	178.77	1,782.5	-203.1	4.4	203.2	0.00	0.00	
1,900.0	10.38	178.77	1,880.9	-221.1	4.8	221.2	0.00	0.00	
2,000.0	10.38	178.77	1,979.2	-239.1	5.2	239.2	0.00	0.00	
2,100.0	10.38	178.77	2,077.6	-257.2	5.5	257.2	0.00	0.00	
2,200.0	10.38	178.77	2,175.9	-275.2	5.9	275.2	0.00	0.00	
2,300.0	10.38	178.77	2,274.3	-293.2	6.3	293.3	0.00	0.00	
2,400.0	10.38	178.77	2,372.7	-311.2	6.7	311.3	0.00	0.00	
2,500.0	10.38	178.77	2,471.0	-329.2	7.1	329.3	0.00	0.00	
2,600.0	10.38	178.77	2,569.4	-347.2	7.5	347.3	0.00	0.00	
2,700.0	10.38	178.77	2,667.8	-365.2	7.9	365.3	0.00	0.00	
2,800.0	10.38	178.77	2,766.1	-383.3	8.3	383.3	0.00	0.00	
2,900.0	10.38	178.77	2,864.5	-401.3	8.6	401.4	0.00	0.00	
3,000.0	10.38	178.77	2,962.9	-419.3	9.0	419.4	0.00	0.00	
3,100.0	10.38	178.77	3,061.2	-437.3	9.4	437.4	0.00	0.00	
3,200.0	10.38	178.77	3,159.6	-455.3	9.8	455.4	0.00	0.00	
3,300.0	10.38	178.77	3,257.9	-473.3	10.2	473.4	0.00	0.00	
3,400.0	10.38	178.77	3,356.3	-491.3	10.6	491.5	0.00	0.00	
3,500.0	10.38	178.77	3,454.7	-509.4	11.0	509.5	0.00	0.00	
3,600.0	10.38	178.77	3,553.0	-527.4	11.4	527.5	0.00	0.00	
3,700.0	10.38	178.77	3,651.4	-545.4	11.7	545.5	0.00	0.00	
3,800.0	10.38	178.77	3,749.8	-563.4	12.1	563.5	0.00	0.00	
3,900.0	10.38	178.77	3,848.1	-581.4	12.5	581.6	0.00	0.00	
4,000.0	10.38	178.77	3,946.5	-599.4	12.9	599.6	0.00	0.00	
4,100.0	10.38	178.77	4,044.8	-617.5	13.3	617.6	0.00	0.00	
4,200.0	10.38	178.77	4,143.2	-635.5	13.7	635.6	0.00	0.00	
4,300.0	10.38	178.77	4,241.6	-653.5	14.1	653.6	0.00	0.00	
4,400.0	10.38	178.77	4,339.9	-671.5	14.5	671.7	0.00	0.00	
4,500.0	10.38	178.77	4,438.3	-689.5	14.9	689.7	0.00	0.00	
4,600.0	10.38	178.77	4,536.7	-707.5	15.2	707.7	0.00	0.00	
4,700.0	10.38	178.77	4,635.0	-725.5	15.6	725.7	0.00	0.00	
4,800.0	10.38	178.77	4,733.4	-743.6	16.0	743.7	0.00	0.00	
4,900.0	10.38	178.77	4,831.8	-761.6	16.4	761.7	0.00	0.00	
5,000.0	10.38	178.77	4,930.1	-779.6	16.8	779.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well EF10B-29 G29 595
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6118.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6118.0ft (Original Well Elev)
Site:	G29 595	North Reference:	True
Well:	EF10B-29 G29 595	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
5,100.0	10.38	178.77	5,028.5	-797.6	17.2	797.8	0.00	0.00	
5,200.0	10.38	178.77	5,126.8	-815.6	17.6	815.8	0.00	0.00	
5,300.0	10.38	178.77	5,225.2	-833.6	18.0	833.8	0.00	0.00	
5,400.0	10.38	178.77	5,323.6	-851.6	18.3	851.8	0.00	0.00	
5,500.0	10.38	178.77	5,421.9	-869.7	18.7	869.9	0.00	0.00	
5,542.6	10.38	178.77	5,463.9	-877.3	18.9	877.5	0.00	0.00	
5,600.0	8.66	178.77	5,520.4	-886.8	19.1	887.0	3.00	-3.00	
5,700.0	5.66	178.77	5,619.7	-899.3	19.4	899.5	3.00	-3.00	
5,800.0	2.66	178.77	5,719.4	-906.5	19.5	906.7	3.00	-3.00	
5,848.7	1.20	178.77	5,768.0	-908.2	19.6	908.4	3.00	-3.00	WF
5,888.7	0.00	0.00	5,808.0	-908.6	19.6	908.8	3.00	-3.00	TOG - EF10B-29 G29 595 TOG
5,900.0	0.00	0.00	5,819.3	-908.6	19.6	908.8	0.00	0.00	
6,000.0	0.00	0.00	5,919.3	-908.6	19.6	908.8	0.00	0.00	
6,100.0	0.00	0.00	6,019.3	-908.6	19.6	908.8	0.00	0.00	
6,200.0	0.00	0.00	6,119.3	-908.6	19.6	908.8	0.00	0.00	
6,300.0	0.00	0.00	6,219.3	-908.6	19.6	908.8	0.00	0.00	
6,400.0	0.00	0.00	6,319.3	-908.6	19.6	908.8	0.00	0.00	
6,500.0	0.00	0.00	6,419.3	-908.6	19.6	908.8	0.00	0.00	
6,600.0	0.00	0.00	6,519.3	-908.6	19.6	908.8	0.00	0.00	
6,700.0	0.00	0.00	6,619.3	-908.6	19.6	908.8	0.00	0.00	
6,800.0	0.00	0.00	6,719.3	-908.6	19.6	908.8	0.00	0.00	
6,900.0	0.00	0.00	6,819.3	-908.6	19.6	908.8	0.00	0.00	
7,000.0	0.00	0.00	6,919.3	-908.6	19.6	908.8	0.00	0.00	
7,100.0	0.00	0.00	7,019.3	-908.6	19.6	908.8	0.00	0.00	
7,200.0	0.00	0.00	7,119.3	-908.6	19.6	908.8	0.00	0.00	
7,300.0	0.00	0.00	7,219.3	-908.6	19.6	908.8	0.00	0.00	
7,400.0	0.00	0.00	7,319.3	-908.6	19.6	908.8	0.00	0.00	
7,500.0	0.00	0.00	7,419.3	-908.6	19.6	908.8	0.00	0.00	
7,600.0	0.00	0.00	7,519.3	-908.6	19.6	908.8	0.00	0.00	
7,700.0	0.00	0.00	7,619.3	-908.6	19.6	908.8	0.00	0.00	
7,800.0	0.00	0.00	7,719.3	-908.6	19.6	908.8	0.00	0.00	
7,900.0	0.00	0.00	7,819.3	-908.6	19.6	908.8	0.00	0.00	
8,000.0	0.00	0.00	7,919.3	-908.6	19.6	908.8	0.00	0.00	
8,100.0	0.00	0.00	8,019.3	-908.6	19.6	908.8	0.00	0.00	
8,200.0	0.00	0.00	8,119.3	-908.6	19.6	908.8	0.00	0.00	
8,300.0	0.00	0.00	8,219.3	-908.6	19.6	908.8	0.00	0.00	
8,400.0	0.00	0.00	8,319.3	-908.6	19.6	908.8	0.00	0.00	
8,500.0	0.00	0.00	8,419.3	-908.6	19.6	908.8	0.00	0.00	
8,600.0	0.00	0.00	8,519.3	-908.6	19.6	908.8	0.00	0.00	
8,700.0	0.00	0.00	8,619.3	-908.6	19.6	908.8	0.00	0.00	
8,800.0	0.00	0.00	8,719.3	-908.6	19.6	908.8	0.00	0.00	
8,900.0	0.00	0.00	8,819.3	-908.6	19.6	908.8	0.00	0.00	
9,000.0	0.00	0.00	8,919.3	-908.6	19.6	908.8	0.00	0.00	
9,100.0	0.00	0.00	9,019.3	-908.6	19.6	908.8	0.00	0.00	
9,200.0	0.00	0.00	9,119.3	-908.6	19.6	908.8	0.00	0.00	
9,300.0	0.00	0.00	9,219.3	-908.6	19.6	908.8	0.00	0.00	
9,400.0	0.00	0.00	9,319.3	-908.6	19.6	908.8	0.00	0.00	
9,448.7	0.00	0.00	9,368.0	-908.6	19.6	908.8	0.00	0.00	Rollins
9,500.0	0.00	0.00	9,419.3	-908.6	19.6	908.8	0.00	0.00	
9,598.7	0.00	0.00	9,518.0	-908.6	19.6	908.8	0.00	0.00	EF10B-29 G29 595 BHL

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well EF10B-29 G29 595
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6118.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6118.0ft (Original Well Elev)
Site:	G29 595	North Reference:	True
Well:	EF10B-29 G29 595	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
EF10B-29 G29 595 BHL - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	9,518.0	-908.6	19.6	1,647,655.67	2,274,741.60	39° 35' 0.21 N	108° 4' 24.84 W
EF10B-29 G29 595 TOC - plan hits target center - Point	0.00	0.00	5,808.0	-908.6	19.6	1,647,655.67	2,274,741.60	39° 35' 0.21 N	108° 4' 24.84 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
5,848.7	5,768.0	WF		0.00		
5,888.7	5,808.0	TOG		0.00		
9,448.7	9,368.0	Rollins		0.00		