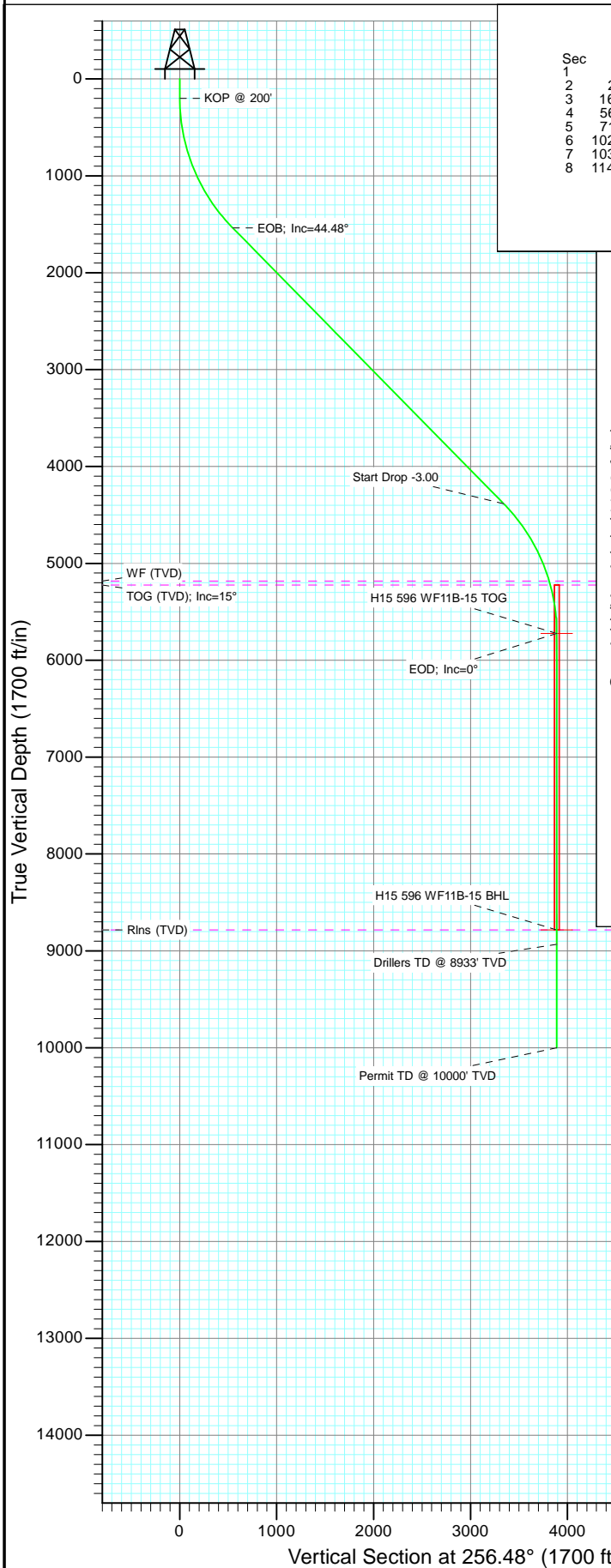
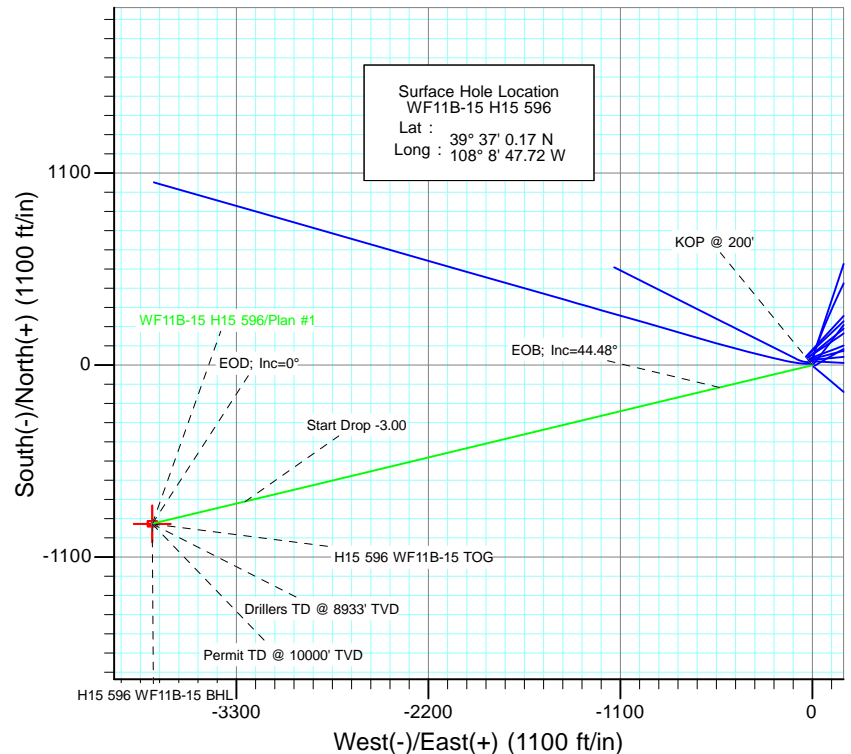




Project: North Piceance
Site: H15 596 (S15-T5S-96W)
Well: WF11B-15 H15 596
Wellbore: DD
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1682.7	44.48	256.48	1538.2	-127.9	-532.1	3.00	256.48	547.2	
4	5672.5	44.48	256.48	4384.8	-781.4	-3250.1	0.00	0.00	3342.7	
5	7155.2	0.00	0.00	5723.0	-909.3	-3782.2	3.00	180.00	3890.0	H15 596 WF11B-15 TOG
6	10215.2	0.00	0.00	8783.0	-909.3	-3782.2	0.00	0.00	3890.0	H15 596 WF11B-15 BHL
7	10365.2	0.00	0.00	8933.0	-909.3	-3782.2	0.00	0.00	3890.0	
8	11432.2	0.00	0.00	10000.0	-909.3	-3782.2	0.00	0.00	3890.0	



Azimuths to True North
Magnetic North: 10.44°

Magnetic Field
Strength: 52294.5nT
Dip Angle: 65.81°
Date: 6/7/2011
Model: IGRF2010

FORMATION TOP DETAILS

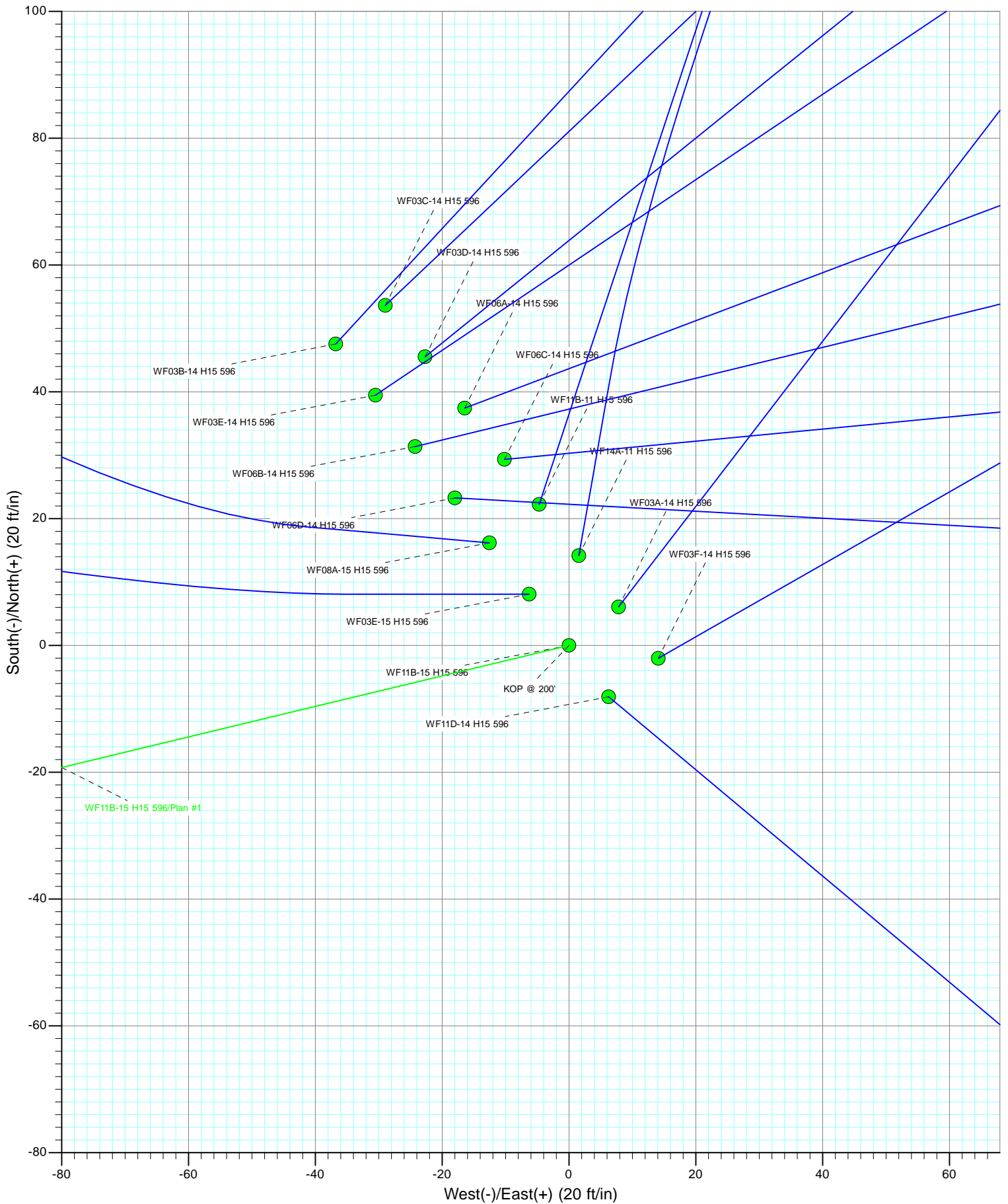
TVDPath	MDPath	Formation
5183.0	6607.7	WF (TVD)
5223.0	6649.3	TOG (TVD); Inc=15°
8783.0	10215.2	Rins (TVD)

Plan #1
WF11B-15 H15 596
115xxx; LR
KBE @ 6453.0ft (Original Well Elev)
North American Datum 1983
Well WF11B-15 H15 596, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
Target	H15 596 WF11B-15 BHL	256.48	Slot		0.0	0.0	TVD
							0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude		
H15 596 WF11B-15 TOG	5723.0	-909.3	-3782.2	39° 36' 51.18 N	108° 9' 36.05 W		
H15 596 WF11B-15 BHL	8783.0	-909.3	-3782.2	39° 36' 51.18 N	108° 9' 36.05 W		

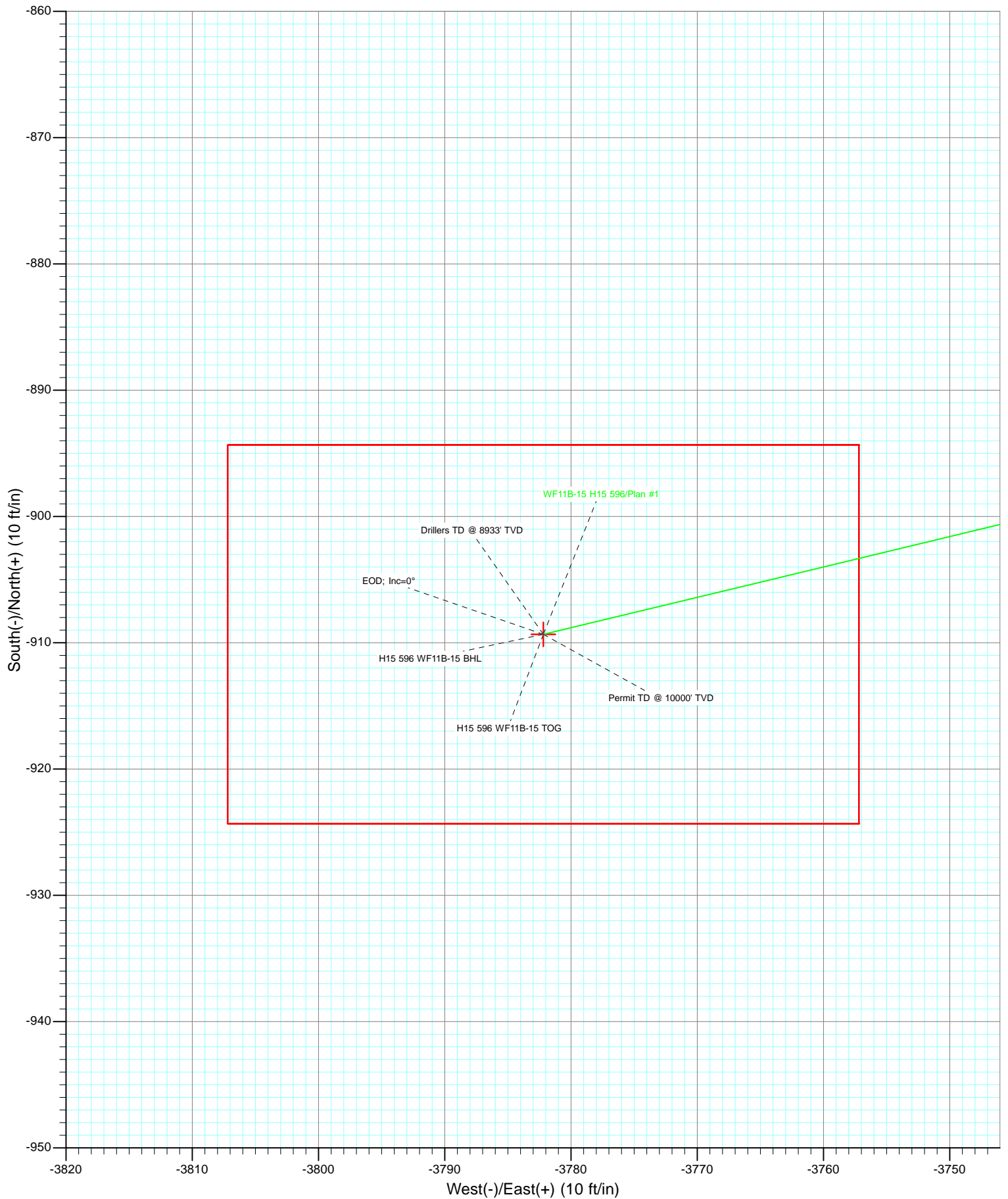


Project: North Piceance
Site: H15 596 (S15-T5S-96W)
Well: WF11B-15 H15 596
Wellbore: DD
Design: Plan #1





Project: North Piceance
Site: H15 596 (S15-T5S-96W)
Well: WF11B-15 H15 596
Wellbore: DD
Design: Plan #1



Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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	H15 596 (S15-T5S-96W)				
Site Position:		Northing:	1,660,371.18 ft	Latitude:	39° 37' 0.09 N
From:	Lat/Long	Easting:	2,254,528.31 ft	Longitude:	108° 8' 47.64 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.67 °

Well	WF11B-15 H15 596					
Well Position	+N/-S	0.0 ft	Northing:	1,660,379.44 ft	Latitude:	39° 37' 0.17 N
	+E/-W	0.0 ft	Easting:	2,254,522.29 ft	Longitude:	108° 8' 47.72 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,431.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/7/2011	10.44	65.81	52,295

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	256.48	

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,682.7	44.48	256.48	1,538.2	-127.9	-532.1	3.00	3.00	0.00	256.48	
5,672.5	44.48	256.48	4,384.8	-781.4	-3,250.1	0.00	0.00	0.00	0.00	
7,155.2	0.00	0.00	5,723.0	-909.3	-3,782.2	3.00	-3.00	0.00	180.00	H15 596 WF11B-15 T
10,215.2	0.00	0.00	8,783.0	-909.3	-3,782.2	0.00	0.00	0.00	0.00	H15 596 WF11B-15 B
10,365.2	0.00	0.00	8,933.0	-909.3	-3,782.2	0.00	0.00	0.00	0.00	
11,432.2	0.00	0.00	10,000.0	-909.3	-3,782.2	0.00	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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	
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	
180.0	0.00	0.00	180.0	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	KOP @ 200'
210.0	0.30	256.48	210.0	0.0	0.0	0.0	3.00	3.00	
240.0	1.20	256.48	240.0	-0.1	-0.4	0.4	3.00	3.00	
270.0	2.10	256.48	270.0	-0.3	-1.2	1.3	3.00	3.00	
300.0	3.00	256.48	300.0	-0.6	-2.5	2.6	3.00	3.00	
330.0	3.90	256.48	329.9	-1.0	-4.3	4.4	3.00	3.00	
360.0	4.80	256.48	359.8	-1.6	-6.5	6.7	3.00	3.00	
390.0	5.70	256.48	389.7	-2.2	-9.2	9.4	3.00	3.00	
420.0	6.60	256.48	419.5	-3.0	-12.3	12.7	3.00	3.00	
450.0	7.50	256.48	449.3	-3.8	-15.9	16.3	3.00	3.00	
480.0	8.40	256.48	479.0	-4.8	-19.9	20.5	3.00	3.00	
510.0	9.30	256.48	508.6	-5.9	-24.4	25.1	3.00	3.00	
540.0	10.20	256.48	538.2	-7.1	-29.3	30.2	3.00	3.00	
570.0	11.10	256.48	567.7	-8.4	-34.7	35.7	3.00	3.00	
600.0	12.00	256.48	597.1	-9.8	-40.6	41.7	3.00	3.00	
630.0	12.90	256.48	626.4	-11.3	-46.9	48.2	3.00	3.00	
660.0	13.80	256.48	655.6	-12.9	-53.6	55.1	3.00	3.00	
690.0	14.70	256.48	684.6	-14.6	-60.8	62.5	3.00	3.00	
720.0	15.60	256.48	713.6	-16.4	-68.4	70.4	3.00	3.00	
750.0	16.50	256.48	742.4	-18.4	-76.5	78.6	3.00	3.00	
780.0	17.40	256.48	771.1	-20.4	-85.0	87.4	3.00	3.00	
810.0	18.30	256.48	799.7	-22.6	-93.9	96.6	3.00	3.00	
840.0	19.20	256.48	828.1	-24.8	-103.3	106.2	3.00	3.00	
870.0	20.10	256.48	856.3	-27.2	-113.1	116.3	3.00	3.00	
900.0	21.00	256.48	884.4	-29.7	-123.3	126.9	3.00	3.00	
930.0	21.90	256.48	912.4	-32.2	-134.0	137.8	3.00	3.00	
960.0	22.80	256.48	940.1	-34.9	-145.1	149.2	3.00	3.00	
990.0	23.70	256.48	967.7	-37.7	-156.6	161.1	3.00	3.00	
1,020.0	24.60	256.48	995.0	-40.5	-168.5	173.3	3.00	3.00	
1,050.0	25.50	256.48	1,022.2	-43.5	-180.9	186.0	3.00	3.00	
1,080.0	26.40	256.48	1,049.2	-46.6	-193.7	199.2	3.00	3.00	
1,110.0	27.30	256.48	1,076.0	-49.7	-206.8	212.7	3.00	3.00	
1,140.0	28.20	256.48	1,102.5	-53.0	-220.4	226.7	3.00	3.00	
1,170.0	29.10	256.48	1,128.8	-56.4	-234.4	241.1	3.00	3.00	
1,200.0	30.00	256.48	1,154.9	-59.8	-248.8	255.9	3.00	3.00	
1,230.0	30.90	256.48	1,180.8	-63.4	-263.6	271.1	3.00	3.00	
1,260.0	31.80	256.48	1,206.4	-67.0	-278.7	286.7	3.00	3.00	
1,290.0	32.70	256.48	1,231.8	-70.8	-294.3	302.7	3.00	3.00	
1,320.0	33.60	256.48	1,256.9	-74.6	-310.3	319.1	3.00	3.00	
1,350.0	34.50	256.48	1,281.8	-78.5	-326.6	335.9	3.00	3.00	
1,380.0	35.40	256.48	1,306.3	-82.5	-343.3	353.1	3.00	3.00	
1,410.0	36.30	256.48	1,330.7	-86.6	-360.4	370.6	3.00	3.00	
1,440.0	37.20	256.48	1,354.7	-90.8	-377.8	388.6	3.00	3.00	
1,470.0	38.10	256.48	1,378.5	-95.1	-395.6	406.9	3.00	3.00	
1,500.0	39.00	256.48	1,401.9	-99.5	-413.8	425.6	3.00	3.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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
1,530.0	39.90	256.48	1,425.1	-104.0	-432.4	444.7	3.00	3.00	
1,560.0	40.80	256.48	1,447.9	-108.5	-451.2	464.1	3.00	3.00	
1,590.0	41.70	256.48	1,470.5	-113.1	-470.5	483.9	3.00	3.00	
1,620.0	42.60	256.48	1,492.7	-117.8	-490.1	504.0	3.00	3.00	
1,650.0	43.50	256.48	1,514.7	-122.6	-510.0	524.5	3.00	3.00	
1,680.0	44.40	256.48	1,536.3	-127.5	-530.2	545.3	3.00	3.00	
1,682.7	44.48	256.48	1,538.2	-127.9	-532.1	547.2	3.00	3.00	EOB; Inc=44.48°
1,710.0	44.48	256.48	1,557.7	-132.4	-550.6	566.3	0.00	0.00	
1,740.0	44.48	256.48	1,579.1	-137.3	-571.1	587.4	0.00	0.00	
1,770.0	44.48	256.48	1,600.5	-142.2	-591.5	608.4	0.00	0.00	
1,800.0	44.48	256.48	1,621.9	-147.1	-612.0	629.4	0.00	0.00	
1,830.0	44.48	256.48	1,643.3	-152.0	-632.4	650.4	0.00	0.00	
1,860.0	44.48	256.48	1,664.7	-157.0	-652.8	671.4	0.00	0.00	
1,890.0	44.48	256.48	1,686.1	-161.9	-673.3	692.5	0.00	0.00	
1,920.0	44.48	256.48	1,707.5	-166.8	-693.7	713.5	0.00	0.00	
1,950.0	44.48	256.48	1,728.9	-171.7	-714.1	734.5	0.00	0.00	
1,980.0	44.48	256.48	1,750.3	-176.6	-734.6	755.5	0.00	0.00	
2,010.0	44.48	256.48	1,771.7	-181.5	-755.0	776.5	0.00	0.00	
2,040.0	44.48	256.48	1,793.1	-186.4	-775.5	797.6	0.00	0.00	
2,070.0	44.48	256.48	1,814.5	-191.4	-795.9	818.6	0.00	0.00	
2,100.0	44.48	256.48	1,835.9	-196.3	-816.3	839.6	0.00	0.00	
2,130.0	44.48	256.48	1,857.3	-201.2	-836.8	860.6	0.00	0.00	
2,160.0	44.48	256.48	1,878.7	-206.1	-857.2	881.6	0.00	0.00	
2,190.0	44.48	256.48	1,900.1	-211.0	-877.7	902.7	0.00	0.00	
2,220.0	44.48	256.48	1,921.5	-215.9	-898.1	923.7	0.00	0.00	
2,250.0	44.48	256.48	1,942.9	-220.8	-918.5	944.7	0.00	0.00	
2,280.0	44.48	256.48	1,964.3	-225.8	-939.0	965.7	0.00	0.00	
2,310.0	44.48	256.48	1,985.8	-230.7	-959.4	986.7	0.00	0.00	
2,340.0	44.48	256.48	2,007.2	-235.6	-979.8	1,007.8	0.00	0.00	
2,370.0	44.48	256.48	2,028.6	-240.5	-1,000.3	1,028.8	0.00	0.00	
2,400.0	44.48	256.48	2,050.0	-245.4	-1,020.7	1,049.8	0.00	0.00	
2,430.0	44.48	256.48	2,071.4	-250.3	-1,041.2	1,070.8	0.00	0.00	
2,460.0	44.48	256.48	2,092.8	-255.2	-1,061.6	1,091.8	0.00	0.00	
2,490.0	44.48	256.48	2,114.2	-260.1	-1,082.0	1,112.9	0.00	0.00	

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
H15 596 WF11B-15 BHL	0.00	0.00	8,783.0	-909.3	-3,782.2	1,659,580.66	2,250,715.22	39° 36' 51.18 N	108° 9' 36.05 W
- plan misses target center by 7224.0ft at 2490.0ft MD (2114.2 TVD, -260.1 N, -1082.0 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
H15 596 WF11B-15 TOC	0.00	0.00	5,723.0	-909.3	-3,782.2	1,659,580.66	2,250,715.22	39° 36' 51.18 N	108° 9' 36.05 W
- plan misses target center by 4553.7ft at 2490.0ft MD (2114.2 TVD, -260.1 N, -1082.0 E)									
- Point									

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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
2,500.0	44.48	256.48	2,121.3	-261.8	-1,088.8	1,119.9	0.00	0.00	
2,600.0	44.48	256.48	2,192.7	-278.2	-1,157.0	1,189.9	0.00	0.00	
2,700.0	44.48	256.48	2,264.0	-294.5	-1,225.1	1,260.0	0.00	0.00	
2,800.0	44.48	256.48	2,335.4	-310.9	-1,293.2	1,330.1	0.00	0.00	
2,900.0	44.48	256.48	2,406.7	-327.3	-1,361.3	1,400.1	0.00	0.00	
3,000.0	44.48	256.48	2,478.1	-343.7	-1,429.5	1,470.2	0.00	0.00	
3,100.0	44.48	256.48	2,549.4	-360.1	-1,497.6	1,540.3	0.00	0.00	
3,200.0	44.48	256.48	2,620.7	-376.4	-1,565.7	1,610.3	0.00	0.00	
3,300.0	44.48	256.48	2,692.1	-392.8	-1,633.9	1,680.4	0.00	0.00	
3,400.0	44.48	256.48	2,763.4	-409.2	-1,702.0	1,750.5	0.00	0.00	
3,500.0	44.48	256.48	2,834.8	-425.6	-1,770.1	1,820.5	0.00	0.00	
3,600.0	44.48	256.48	2,906.1	-442.0	-1,838.2	1,890.6	0.00	0.00	
3,700.0	44.48	256.48	2,977.5	-458.3	-1,906.4	1,960.7	0.00	0.00	
3,800.0	44.48	256.48	3,048.8	-474.7	-1,974.5	2,030.7	0.00	0.00	
3,900.0	44.48	256.48	3,120.2	-491.1	-2,042.6	2,100.8	0.00	0.00	
4,000.0	44.48	256.48	3,191.5	-507.5	-2,110.7	2,170.9	0.00	0.00	
4,100.0	44.48	256.48	3,262.9	-523.9	-2,178.9	2,241.0	0.00	0.00	
4,200.0	44.48	256.48	3,334.2	-540.2	-2,247.0	2,311.0	0.00	0.00	
4,300.0	44.48	256.48	3,405.6	-556.6	-2,315.1	2,381.1	0.00	0.00	
4,400.0	44.48	256.48	3,476.9	-573.0	-2,383.2	2,451.2	0.00	0.00	
4,500.0	44.48	256.48	3,548.3	-589.4	-2,451.4	2,521.2	0.00	0.00	
4,600.0	44.48	256.48	3,619.6	-605.7	-2,519.5	2,591.3	0.00	0.00	
4,700.0	44.48	256.48	3,691.0	-622.1	-2,587.6	2,661.4	0.00	0.00	
4,800.0	44.48	256.48	3,762.3	-638.5	-2,655.7	2,731.4	0.00	0.00	
4,900.0	44.48	256.48	3,833.7	-654.9	-2,723.9	2,801.5	0.00	0.00	
5,000.0	44.48	256.48	3,905.0	-671.3	-2,792.0	2,871.6	0.00	0.00	
5,100.0	44.48	256.48	3,976.4	-687.6	-2,860.1	2,941.6	0.00	0.00	
5,200.0	44.48	256.48	4,047.7	-704.0	-2,928.3	3,011.7	0.00	0.00	
5,300.0	44.48	256.48	4,119.1	-720.4	-2,996.4	3,081.8	0.00	0.00	
5,400.0	44.48	256.48	4,190.4	-736.8	-3,064.5	3,151.8	0.00	0.00	
5,500.0	44.48	256.48	4,261.8	-753.2	-3,132.6	3,221.9	0.00	0.00	
5,600.0	44.48	256.48	4,333.1	-769.5	-3,200.8	3,292.0	0.00	0.00	
5,672.5	44.48	256.48	4,384.8	-781.4	-3,250.1	3,342.7	0.00	0.00	Start Drop -3.00
5,700.0	43.66	256.48	4,404.6	-785.9	-3,268.7	3,361.9	3.00	-3.00	
5,800.0	40.66	256.48	4,478.7	-801.6	-3,334.0	3,429.0	3.00	-3.00	
5,900.0	37.66	256.48	4,556.2	-816.3	-3,395.4	3,492.1	3.00	-3.00	
6,000.0	34.66	256.48	4,637.0	-830.1	-3,452.7	3,551.1	3.00	-3.00	
6,100.0	31.66	256.48	4,720.7	-842.9	-3,505.9	3,605.8	3.00	-3.00	
6,200.0	28.66	256.48	4,807.1	-854.6	-3,554.7	3,656.0	3.00	-3.00	
6,300.0	25.66	256.48	4,896.1	-865.3	-3,599.1	3,701.7	3.00	-3.00	
6,400.0	22.66	256.48	4,987.3	-874.9	-3,638.9	3,742.6	3.00	-3.00	
6,500.0	19.66	256.48	5,080.6	-883.3	-3,674.0	3,778.7	3.00	-3.00	
6,600.0	16.66	256.48	5,175.6	-890.6	-3,704.3	3,809.8	3.00	-3.00	
6,607.7	16.42	256.48	5,183.0	-891.1	-3,706.4	3,812.0	3.00	-3.00	WF (TVD)
6,649.3	15.18	256.48	5,223.0	-893.8	-3,717.4	3,823.4	3.00	-3.00	TOG (TVD); Inc=15°
6,700.0	13.66	256.48	5,272.1	-896.7	-3,729.7	3,836.0	3.00	-3.00	
6,800.0	10.66	256.48	5,369.9	-901.6	-3,750.2	3,857.0	3.00	-3.00	
6,900.0	7.66	256.48	5,468.6	-905.4	-3,765.6	3,872.9	3.00	-3.00	
7,000.0	4.66	256.48	5,568.0	-907.9	-3,776.1	3,883.7	3.00	-3.00	
7,100.0	1.66	256.48	5,667.8	-909.1	-3,781.4	3,889.2	3.00	-3.00	
7,155.2	0.00	0.00	5,723.0	-909.3	-3,782.2	3,890.0	3.00	-3.00	EOD; Inc=0° - H15 596 WF11B-15 TOG
7,200.0	0.00	0.00	5,767.8	-909.3	-3,782.2	3,890.0	0.00	0.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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
7,300.0	0.00	0.00	5,867.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,400.0	0.00	0.00	5,967.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,500.0	0.00	0.00	6,067.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,600.0	0.00	0.00	6,167.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,700.0	0.00	0.00	6,267.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,800.0	0.00	0.00	6,367.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
7,900.0	0.00	0.00	6,467.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,000.0	0.00	0.00	6,567.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,100.0	0.00	0.00	6,667.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,200.0	0.00	0.00	6,767.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,300.0	0.00	0.00	6,867.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,400.0	0.00	0.00	6,967.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,500.0	0.00	0.00	7,067.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,600.0	0.00	0.00	7,167.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,700.0	0.00	0.00	7,267.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,800.0	0.00	0.00	7,367.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
8,900.0	0.00	0.00	7,467.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,000.0	0.00	0.00	7,567.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,100.0	0.00	0.00	7,667.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,200.0	0.00	0.00	7,767.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,300.0	0.00	0.00	7,867.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,400.0	0.00	0.00	7,967.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,500.0	0.00	0.00	8,067.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,600.0	0.00	0.00	8,167.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,700.0	0.00	0.00	8,267.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,800.0	0.00	0.00	8,367.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
9,900.0	0.00	0.00	8,467.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,000.0	0.00	0.00	8,567.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,100.0	0.00	0.00	8,667.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,200.0	0.00	0.00	8,767.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,215.2	0.00	0.00	8,783.0	-909.3	-3,782.2	3,890.0	0.00	0.00	Rins (TVD) - H15 596 WF11B-15 BHL
10,300.0	0.00	0.00	8,867.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,365.2	0.00	0.00	8,933.0	-909.3	-3,782.2	3,890.0	0.00	0.00	Drillers TD @ 8933' TVD
10,400.0	0.00	0.00	8,967.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,500.0	0.00	0.00	9,067.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,600.0	0.00	0.00	9,167.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,700.0	0.00	0.00	9,267.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,800.0	0.00	0.00	9,367.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
10,900.0	0.00	0.00	9,467.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,000.0	0.00	0.00	9,567.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,100.0	0.00	0.00	9,667.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,200.0	0.00	0.00	9,767.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,300.0	0.00	0.00	9,867.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,400.0	0.00	0.00	9,967.8	-909.3	-3,782.2	3,890.0	0.00	0.00	
11,432.2	0.00	0.00	10,000.0	-909.3	-3,782.2	3,890.0	0.00	0.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well WF11B-15 H15 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6453.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	KBE @ 6453.0ft (Original Well Elev)
Site:	H15 596 (S15-T5S-96W)	North Reference:	True
Well:	WF11B-15 H15 596	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									
H15 596 WF11B-15 BHL	0.00	0.00	8,783.0	-909.3	-3,782.2	1,659,580.66	2,250,715.22	39° 36' 51.18 N	108° 9' 36.05 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
H15 596 WF11B-15 TOC	0.00	0.00	5,723.0	-909.3	-3,782.2	1,659,580.66	2,250,715.22	39° 36' 51.18 N	108° 9' 36.05 W
- plan hits target center									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
6,607.7	5,183.0	WF (TVD)		0.00	
6,649.3	5,223.0	TOG (TVD); Inc=15°		0.00	
10,215.2	8,783.0	Rlns (TVD)		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,682.7	1,538.2	-127.9	-532.1	EOB; Inc=44.48°
5,672.5	4,384.8	-781.4	-3,250.1	Start Drop -3.00
7,155.2	5,723.0	-909.3	-3,782.2	EOD; Inc=0°
10,365.2	8,933.0	-909.3	-3,782.2	Drillers TD @ 8933' TVD
11,432.2	10,000.0	-909.3	-3,782.2	Permit TD @ 10000' TVD