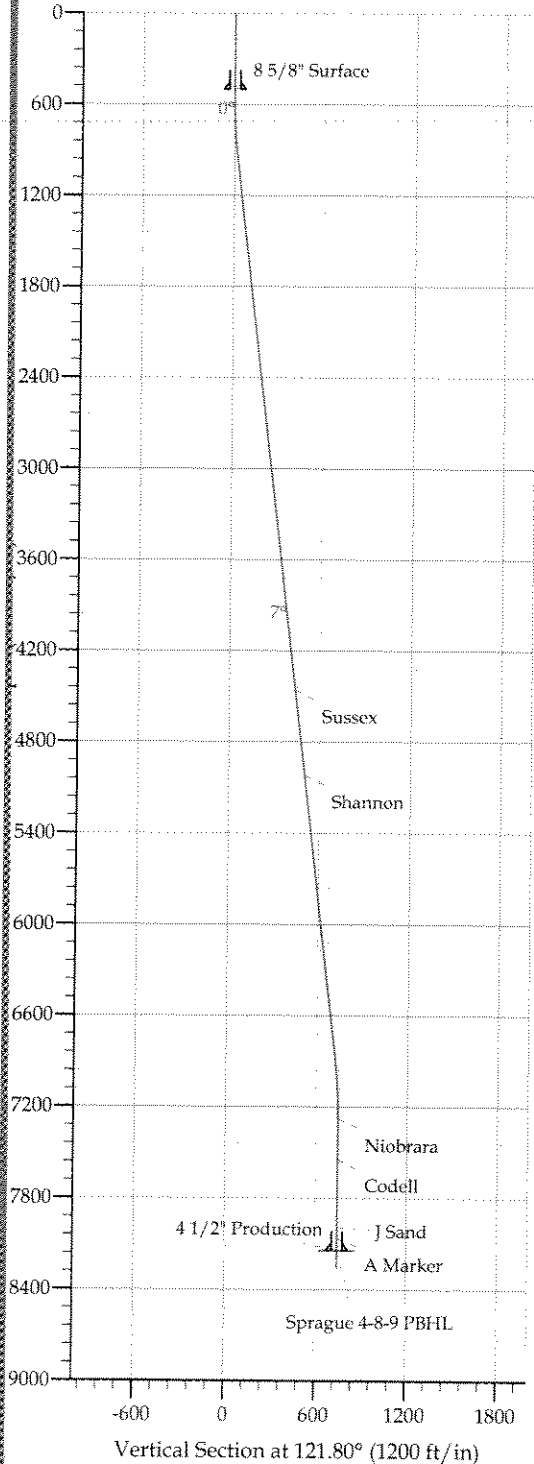




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REFERENCE INFORMATION

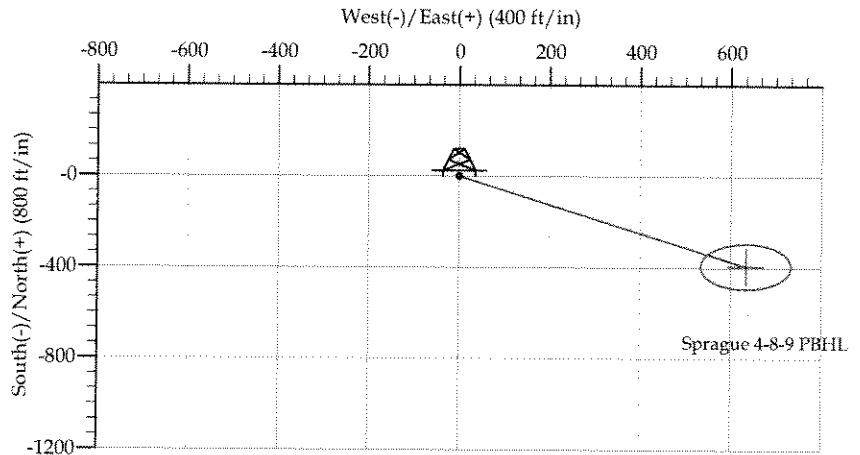
Co-ordinate (N/E) Reference: Well Sprague 4-8-9, True North
 Vertical (TVD) Reference: RKB @ 4997.0ft (TBD)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: RKB @ 4997.0ft (TBD)
 Calculation Method:

WELL DETAILS: Sprague 4-8-9

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.0	0.0	1296883.65	3168386.04	4982.0	40° 8' 48.372 N	4° 53' 51.540 W	

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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	937.7	6.75	121.80	937.0	-10.5	16.9	2.00	121.80	19.9	
4	6947.5	6.75	121.80	6905.0	-382.9	617.7	0.00	0.00	726.8	
5	7285.3	0.00	0.00	7242.0	-393.4	634.6	2.00	180.00	746.6	
6	8185.3	0.00	0.00	8142.0	-393.4	634.6	0.00	0.00	746.6	Sprague 4-8-9 PBHL



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4457.0	4482.4	Sussex
5019.0	5048.3	Shannon
7277.0	7320.3	Niobrara
7542.0	7585.3	Codell
7992.0	8035.3	J Sand
8062.0	8105.3	A Marker

CASING DETAILS

TVD	MD	Name	Size
500.0	500.0	8 5/8" Surface	8.625
8142.0	8185.3	4 1/2" Production	4.500

DJ/Paradox/WTX

**Wattenberg
New Drills
Sprague 4-8-9**

Wellbore #1

Plan: Design #1

Standard Planning Report

24 November, 2009

EnCana Corporation

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Sprague 4-8-9
Company:	DJ/Paradox/WTX	TVD Reference:	RKB @ 4997.0ft (TBD)
Project:	Wattenberg	MD Reference:	RKB @ 4997.0ft (TBD)
Site:	New Drills	North Reference:	True
Well:	Sprague 4-8-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site:	New Drills				
Site Position:		Northing:	1,252,450.66 ft	Latitude:	40° 1' 32.016 N
From:	Lat/Long	Easting:	3,120,627.66 ft	Longitude:	105° 4' 9.336 W
Position Uncertainty:	ft	Slot Radius:	in	Grid Convergence:	0.28 °

Well:	Sprague 4-8-9					
Well Position	+N/-S	44,107.6 ft	Northing:	1,296,883.65 ft	Latitude:	40° 8' 48.372 N
	+E/-W	48,059.2 ft	Easting:	3,168,386.04 ft	Longitude:	104° 53' 51.540 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,982.0 ft

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	09/09/2009	(°) 9.11	(°) 66.89	(nT) 53,187

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	121.80

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		
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00		
937.7	6.75	121.80	937.0	-10.5	16.9	2.00	2.00	0.00	121.80		
6,947.5	6.75	121.80	6,905.0	-382.9	617.7	0.00	0.00	0.00	0.00		
7,285.3	0.00	0.00	7,242.0	-393.4	634.6	2.00	-2.00	0.00	180.00		
8,185.3	0.00	0.00	8,142.0	-393.4	634.6	0.00	0.00	0.00	0.00	0.00	Sprague 4-8-9 PBH

EnCana Corporation

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Sprague 4-8-9
Company:	DJ/Paradox/WTX	TVD Reference:	RKB @ 4997.0ft (TBD)
Project:	Wattenberg	MD Reference:	RKB @ 4997.0ft (TBD)
Site:	New Drills	North Reference:	True
Well:	Sprague 4-8-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8" Surface									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	121.80	700.0	-0.9	1.5	1.7	2.00	2.00	0.00
800.0	4.00	121.80	799.8	-3.7	5.9	7.0	2.00	2.00	0.00
900.0	6.00	121.80	899.5	-8.3	13.3	15.7	2.00	2.00	0.00
937.7	6.75	121.80	937.0	-10.5	16.9	19.9	2.00	2.00	0.00
1,000.0	6.75	121.80	998.8	-14.3	23.1	27.2	0.00	0.00	0.00
1,100.0	6.75	121.80	1,098.1	-20.5	33.1	39.0	0.00	0.00	0.00
1,200.0	6.75	121.80	1,197.4	-26.7	43.1	50.7	0.00	0.00	0.00
1,300.0	6.75	121.80	1,296.7	-32.9	53.1	62.5	0.00	0.00	0.00
1,400.0	6.75	121.80	1,396.0	-39.1	63.1	74.3	0.00	0.00	0.00
1,500.0	6.75	121.80	1,495.3	-45.3	73.1	86.0	0.00	0.00	0.00
1,600.0	6.75	121.80	1,594.6	-51.5	83.1	97.8	0.00	0.00	0.00
1,700.0	6.75	121.80	1,693.9	-57.7	93.1	109.5	0.00	0.00	0.00
1,800.0	6.75	121.80	1,793.2	-63.9	103.1	121.3	0.00	0.00	0.00
1,900.0	6.75	121.80	1,892.5	-70.1	113.1	133.1	0.00	0.00	0.00
2,000.0	6.75	121.80	1,991.8	-76.3	123.1	144.8	0.00	0.00	0.00
2,100.0	6.75	121.80	2,091.2	-82.5	133.1	156.6	0.00	0.00	0.00
2,200.0	6.75	121.80	2,190.5	-88.7	143.1	168.4	0.00	0.00	0.00
2,300.0	6.75	121.80	2,289.8	-94.9	153.1	180.1	0.00	0.00	0.00
2,400.0	6.75	121.80	2,389.1	-101.1	163.1	191.9	0.00	0.00	0.00
2,500.0	6.75	121.80	2,488.4	-107.3	173.1	203.6	0.00	0.00	0.00
2,600.0	6.75	121.80	2,587.7	-113.5	183.1	215.4	0.00	0.00	0.00
2,700.0	6.75	121.80	2,687.0	-119.7	193.1	227.2	0.00	0.00	0.00
2,800.0	6.75	121.80	2,786.3	-125.9	203.1	238.9	0.00	0.00	0.00
2,900.0	6.75	121.80	2,885.6	-132.1	213.1	250.7	0.00	0.00	0.00
3,000.0	6.75	121.80	2,984.9	-138.3	223.1	262.4	0.00	0.00	0.00
3,100.0	6.75	121.80	3,084.2	-144.5	233.1	274.2	0.00	0.00	0.00
3,200.0	6.75	121.80	3,183.5	-150.7	243.1	286.0	0.00	0.00	0.00
3,300.0	6.75	121.80	3,282.8	-156.9	253.1	297.7	0.00	0.00	0.00
3,400.0	6.75	121.80	3,382.1	-163.1	263.0	309.5	0.00	0.00	0.00
3,500.0	6.75	121.80	3,481.4	-169.3	273.0	321.3	0.00	0.00	0.00
3,600.0	6.75	121.80	3,580.7	-175.5	283.0	333.0	0.00	0.00	0.00
3,700.0	6.75	121.80	3,680.0	-181.7	293.0	344.8	0.00	0.00	0.00
3,800.0	6.75	121.80	3,779.4	-187.9	303.0	356.5	0.00	0.00	0.00
3,900.0	6.75	121.80	3,878.7	-194.1	313.0	368.3	0.00	0.00	0.00
4,000.0	6.75	121.80	3,978.0	-200.3	323.0	380.1	0.00	0.00	0.00
4,100.0	6.75	121.80	4,077.3	-206.5	333.0	391.8	0.00	0.00	0.00
4,200.0	6.75	121.80	4,176.6	-212.7	343.0	403.6	0.00	0.00	0.00
4,300.0	6.75	121.80	4,275.9	-218.9	353.0	415.4	0.00	0.00	0.00
4,400.0	6.75	121.80	4,375.2	-225.0	363.0	427.1	0.00	0.00	0.00
4,482.4	6.75	121.80	4,457.0	-230.2	371.3	436.8	0.00	0.00	0.00
Sussex									
4,500.0	6.75	121.80	4,474.5	-231.2	373.0	438.9	0.00	0.00	0.00
4,600.0	6.75	121.80	4,573.8	-237.4	383.0	450.6	0.00	0.00	0.00
4,700.0	6.75	121.80	4,673.1	-243.6	393.0	462.4	0.00	0.00	0.00
4,800.0	6.75	121.80	4,772.4	-249.8	403.0	474.2	0.00	0.00	0.00
4,900.0	6.75	121.80	4,871.7	-256.0	413.0	485.9	0.00	0.00	0.00

EnCana Corporation
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Sprague 4-8-9
Company:	DJ/Paradox/WTX	TVD Reference:	RKB @ 4997.0ft (TBD)
Project:	Wattenberg	MD Reference:	RKB @ 4997.0ft (TBD)
Site:	New Drills	North Reference:	True
Well:	Sprague 4-8-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	Turn Rate (°/100ft)
5,000.0	6.75	121.80	4,971.0	-262.2	423.0	497.7	0.00	0.00	0.00
5,048.3	6.75	121.80	5,019.0	-265.2	427.8	503.4	0.00	0.00	0.00
Shannon									
5,100.0	6.75	121.80	5,070.3	-268.4	433.0	509.4	0.00	0.00	0.00
5,200.0	6.75	121.80	5,169.6	-274.6	443.0	521.2	0.00	0.00	0.00
5,300.0	6.75	121.80	5,268.9	-280.8	453.0	533.0	0.00	0.00	0.00
5,400.0	6.75	121.80	5,368.2	-287.0	463.0	544.7	0.00	0.00	0.00
5,500.0	6.75	121.80	5,467.6	-293.2	473.0	556.5	0.00	0.00	0.00
5,600.0	6.75	121.80	5,566.9	-299.4	483.0	568.3	0.00	0.00	0.00
5,700.0	6.75	121.80	5,666.2	-305.6	493.0	580.0	0.00	0.00	0.00
5,800.0	6.75	121.80	5,765.5	-311.8	503.0	591.8	0.00	0.00	0.00
5,900.0	6.75	121.80	5,864.8	-318.0	513.0	603.5	0.00	0.00	0.00
6,000.0	6.75	121.80	5,964.1	-324.2	523.0	615.3	0.00	0.00	0.00
6,100.0	6.75	121.80	6,063.4	-330.4	533.0	627.1	0.00	0.00	0.00
6,200.0	6.75	121.80	6,162.7	-336.6	543.0	638.8	0.00	0.00	0.00
6,300.0	6.75	121.80	6,262.0	-342.8	553.0	650.6	0.00	0.00	0.00
6,400.0	6.75	121.80	6,361.3	-349.0	563.0	662.4	0.00	0.00	0.00
6,500.0	6.75	121.80	6,460.6	-355.2	573.0	674.1	0.00	0.00	0.00
6,600.0	6.75	121.80	6,559.9	-361.4	582.9	685.9	0.00	0.00	0.00
6,700.0	6.75	121.80	6,659.2	-367.6	592.9	697.6	0.00	0.00	0.00
6,800.0	6.75	121.80	6,758.5	-373.8	602.9	709.4	0.00	0.00	0.00
6,900.0	6.75	121.80	6,857.8	-380.0	612.9	721.2	0.00	0.00	0.00
6,947.5	6.75	121.80	6,905.0	-382.9	617.7	726.8	0.00	0.00	0.00
7,000.0	5.71	121.80	6,957.2	-385.9	622.5	732.5	2.00	-2.00	0.00
7,100.0	3.71	121.80	7,056.8	-390.3	629.5	740.7	2.00	-2.00	0.00
7,200.0	1.71	121.80	7,156.7	-392.7	633.5	745.4	2.00	-2.00	0.00
7,285.3	0.00	0.00	7,242.0	-393.4	634.6	746.6	2.00	-2.00	0.00
7,300.0	0.00	0.00	7,256.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,320.3	0.00	0.00	7,277.0	-393.4	634.6	746.6	0.00	0.00	0.00
Niobrara									
7,400.0	0.00	0.00	7,356.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,456.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,585.3	0.00	0.00	7,542.0	-393.4	634.6	746.6	0.00	0.00	0.00
Codell									
7,600.0	0.00	0.00	7,556.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,656.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,756.7	-393.4	634.6	746.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,856.7	-393.4	634.6	746.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,956.7	-393.4	634.6	746.6	0.00	0.00	0.00
8,035.3	0.00	0.00	7,992.0	-393.4	634.6	746.6	0.00	0.00	0.00
J Sand									
8,100.0	0.00	0.00	8,056.7	-393.4	634.6	746.6	0.00	0.00	0.00
8,105.3	0.00	0.00	8,062.0	-393.4	634.6	746.6	0.00	0.00	0.00
A Marker									
8,185.3	0.00	0.00	8,142.0	-393.4	634.6	746.6	0.00	0.00	0.00
4 1/2" Production									

EnCana Corporation

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Sprague 4-8-9
Company:	DJ/Paradox/WTX	TVD Reference:	RKB @ 4997.0ft (TBD)
Project:	Wattenberg	MD Reference:	RKB @ 4997.0ft (TBD)
Site:	New Drills	North Reference:	True
Well:	Sprague 4-8-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design 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									
Sprague 4-8-9 PBHL	0.00	0.00	8,142.0	-393.4	634.6	1,296,494.56	3,169,023.29	40° 8' 44.484 N	104° 53' 43.368 W
- plan hits target									
- Circle (radius 100.0)									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(in)	(in)
8,185.3	8,142.0	4 1/2" Production	4.500	7.875
500.0	500.0	8 5/8" Surface	8.625	12.250

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
4,482.4	4,457.0	Sussex		0.00	
5,048.3	5,019.0	Shannon		0.00	
7,320.3	7,277.0	Niobrara		0.00	
7,585.3	7,542.0	Codell		0.00	
8,035.3	7,992.0	J Sand		0.00	
8,105.3	8,062.0	A Marker		0.00	