



Job Number: DC 1-25 PRELIM  
 Company: SWEPI LP  
 Lease/Well: DAWSON CREEK 1-25  
 Location: 25-T6N-R88W  
 Rig Name:  
 RKB: 0.00 Ft  
 Vertical Datum:

State/Country:  
 Declination: 10.06°E  
 Grid: -1.11;US State Plane 1983  
 Project name: DAWSON CREEK 1-25-Project  
 Date/Time: 09-Jun-11 / 11:28  
 Well Name: DAWSON CREEK 1-25 Proposal REV0  
 North Reference: Grid North  
 Convergence: -1.1071°

EXCEL Directional Technologies LLC

**WinSURV3D SURVEY CALCULATIONS**

*Minimum Curvature Method*

*Vertical Section Plane 239.50°*

*Vertical Section Referenced to Wellhead*

*Local Coordinates Referenced to Structure Reference :*

*EW=2523194.68 Ft, NS=1411558.96 Ft*

*Direction referenced to Grid North -1.107° Convergence*

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
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
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10 3/4 Surface Casing @ 1600 Ft MD</b>									
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Begin Build @ 3100MD ,1.28°/ 100 Ft									
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3130.00	0.39	239.50	3130.00	-0.05	-0.09	0.10	0.10	239.50	1.28
3160.00	0.77	239.50	3160.00	-0.20	-0.35	0.40	0.40	239.50	1.28
3190.00	1.16	239.50	3189.99	-0.46	-0.78	0.91	0.91	239.50	1.28
3220.00	1.54	239.50	3219.99	-0.82	-1.39	1.61	1.61	239.50	1.28
3250.00	1.93	239.50	3249.97	-1.28	-2.17	2.52	2.52	239.50	1.28
3280.00	2.31	239.50	3279.95	-1.84	-3.13	3.63	3.63	239.50	1.28
3310.00	2.70	239.50	3309.92	-2.51	-4.25	4.94	4.94	239.50	1.28
3340.00	3.08	239.50	3339.88	-3.27	-5.56	6.45	6.45	239.50	1.28
3370.00	3.47	239.50	3369.84	-4.14	-7.03	8.16	8.16	239.50	1.28
3400.00	3.85	239.50	3399.77	-5.11	-8.68	10.08	10.08	239.50	1.28
3430.00	4.24	239.50	3429.70	-6.19	-10.50	12.19	12.19	239.50	1.28
3460.00	4.62	239.50	3459.61	-7.36	-12.50	14.51	14.51	239.50	1.28
3490.00	5.01	239.50	3489.50	-8.64	-14.67	17.02	17.02	239.50	1.28
3520.00	5.39	239.50	3519.38	-10.02	-17.01	19.74	19.74	239.50	1.28
3550.00	5.78	239.50	3549.24	-11.50	-19.53	22.66	22.66	239.50	1.28
3580.00	6.16	239.50	3579.08	-13.08	-22.21	25.78	25.78	239.50	1.28
3610.00	6.55	239.50	3608.89	-14.77	-25.07	29.10	29.10	239.50	1.28
3640.00	6.93	239.50	3638.68	-16.56	-28.11	32.62	32.62	239.50	1.28
3670.00	7.32	239.50	3668.45	-18.44	-31.31	36.34	36.34	239.50	1.28
3700.00	7.70	239.50	3698.20	-20.43	-34.69	40.26	40.26	239.50	1.28
3730.00	8.09	239.50	3727.91	-22.52	-38.24	44.38	44.38	239.50	1.28
3760.00	8.47	239.50	3757.60	-24.72	-41.96	48.70	48.70	239.50	1.28
3790.00	8.86	239.50	3787.26	-27.01	-45.85	53.22	53.22	239.50	1.28
3820.00	9.24	239.50	3816.88	-29.41	-49.92	57.94	57.94	239.50	1.28
3850.00	9.63	239.50	3846.48	-31.90	-54.16	62.85	62.85	239.50	1.28
3880.00	10.01	239.50	3876.04	-34.50	-58.56	67.97	67.97	239.50	1.28
3910.00	10.40	239.50	3905.56	-37.19	-63.14	73.28	73.28	239.50	1.28
3940.00	10.78	239.50	3935.05	-39.99	-67.89	78.79	78.79	239.50	1.28
3970.00	11.17	239.50	3964.50	-42.89	-72.81	84.51	84.51	239.50	1.28
4000.00	11.55	239.50	3993.92	-45.89	-77.90	90.41	90.41	239.50	1.28
4030.00	11.94	239.50	4023.29	-48.99	-83.16	96.52	96.52	239.50	1.28
4060.00	12.32	239.50	4052.62	-52.19	-88.59	102.82	102.82	239.50	1.28
4090.00	12.71	239.50	4081.91	-55.49	-94.19	109.32	109.32	239.50	1.28
4120.00	13.09	239.50	4111.15	-58.89	-99.97	116.02	116.02	239.50	1.28
4150.00	13.48	239.50	4140.35	-62.38	-105.90	122.91	122.91	239.50	1.28
4180.00	13.86	239.50	4169.50	-65.98	-112.01	130.00	130.00	239.50	1.28
4210.00	14.25	239.50	4198.60	-69.68	-118.29	137.29	137.29	239.50	1.28
4240.00	14.63	239.50	4227.65	-73.48	-124.73	144.77	144.77	239.50	1.28
4270.00	15.02	239.50	4256.65	-77.37	-131.35	152.44	152.44	239.50	1.28
4300.00	15.40	239.50	4285.60	-81.37	-138.13	160.31	160.31	239.50	1.28
4330.00	15.79	239.50	4314.50	-85.46	-145.08	168.38	168.38	239.50	1.28
4360.00	16.17	239.50	4343.34	-89.65	-152.19	176.64	176.64	239.50	1.28
4390.00	16.56	239.50	4372.12	-93.94	-159.48	185.09	185.09	239.50	1.28

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
4420.00	16.94	239.50	4400.85	-98.33	-166.92	193.73	193.73	239.50	1.28
4450.00	17.33	239.50	4429.52	-102.81	-174.54	202.57	202.57	239.50	1.28
4480.00	17.71	239.50	4458.13	-107.40	-182.32	211.60	211.60	239.50	1.28
4510.00	18.10	239.50	4486.67	-112.08	-190.27	220.82	220.82	239.50	1.28
4540.00	18.48	239.50	4515.16	-116.86	-198.38	230.24	230.24	239.50	1.28
4570.00	18.87	239.50	4543.58	-121.73	-206.65	239.84	239.84	239.50	1.28
4600.00	19.25	239.50	4571.93	-126.70	-215.10	249.64	249.64	239.50	1.28
4630.00	19.64	239.50	4600.22	-131.77	-223.70	259.63	259.63	239.50	1.28
4660.00	20.02	239.50	4628.44	-136.94	-232.47	269.80	269.80	239.50	1.28
4690.00	20.41	239.50	4656.60	-142.20	-241.40	280.17	280.17	239.50	1.28
4720.00	20.79	239.50	4684.68	-147.56	-250.49	290.72	290.72	239.50	1.28
4750.00	21.18	239.50	4712.69	-153.01	-259.75	301.47	301.47	239.50	1.28
4780.00	21.56	239.50	4740.63	-158.56	-269.17	312.40	312.40	239.50	1.28
4810.00	21.95	239.50	4768.49	-164.20	-278.75	323.52	323.52	239.50	1.28
4840.00	22.33	239.50	4796.28	-169.94	-288.49	334.82	334.82	239.50	1.28
4870.00	22.72	239.50	4823.99	-175.77	-298.39	346.31	346.31	239.50	1.28
4900.00	23.10	239.50	4851.62	-181.70	-308.45	357.99	357.99	239.50	1.28
4930.00	23.49	239.50	4879.18	-187.72	-318.68	369.86	369.86	239.50	1.28
4960.00	23.87	239.50	4906.65	-193.84	-329.06	381.90	381.90	239.50	1.28
4990.00	24.26	239.50	4934.04	-200.04	-339.60	394.14	394.14	239.50	1.28
5020.00	24.64	239.50	4961.35	-206.35	-350.30	406.55	406.55	239.50	1.28
5050.00	25.03	239.50	4988.58	-212.74	-361.15	419.15	419.15	239.50	1.28
5080.00	25.41	239.50	5015.72	-219.23	-372.17	431.94	431.94	239.50	1.28
5110.00	25.80	239.50	5042.77	-225.81	-383.34	444.90	444.90	239.50	1.28
5140.00	26.18	239.50	5069.74	-232.48	-394.66	458.05	458.05	239.50	1.28
5170.00	26.57	239.50	5096.62	-239.25	-406.15	471.37	471.37	239.50	1.28
5200.00	26.95	239.50	5123.40	-246.10	-417.79	484.88	484.88	239.50	1.28
5230.00	27.34	239.50	5150.10	-253.05	-429.58	498.57	498.57	239.50	1.28
5260.00	27.72	239.50	5176.70	-260.09	-441.53	512.44	512.44	239.50	1.28
5290.00	28.11	239.50	5203.21	-267.22	-453.63	526.48	526.48	239.50	1.28
5320.00	28.49	239.50	5229.63	-274.43	-465.88	540.70	540.70	239.50	1.28
5350.00	28.88	239.50	5255.95	-281.74	-478.29	555.10	555.10	239.50	1.28
5380.00	29.26	239.50	5282.17	-289.14	-490.85	569.68	569.68	239.50	1.28
5410.00	29.65	239.50	5308.29	-296.63	-503.56	584.43	584.43	239.50	1.28
5440.00	30.03	239.50	5334.31	-304.20	-516.42	599.36	599.36	239.50	1.28
5470.00	30.42	239.50	5360.23	-311.87	-529.43	614.46	614.46	239.50	1.28
5500.00	30.80	239.50	5386.05	-319.62	-542.59	629.74	629.74	239.50	1.28
5530.00	31.19	239.50	5411.77	-327.46	-555.90	645.18	645.18	239.50	1.28
5560.00	31.57	239.50	5437.38	-335.39	-569.36	660.81	660.81	239.50	1.28
5590.00	31.96	239.50	5462.89	-343.41	-582.97	676.60	676.60	239.50	1.28
5620.00	32.34	239.50	5488.29	-351.51	-596.73	692.56	692.56	239.50	1.28
5650.00	32.73	239.50	5513.58	-359.70	-610.63	708.70	708.70	239.50	1.28
5680.00	33.11	239.50	5538.76	-367.97	-624.68	725.00	725.00	239.50	1.28
5710.00	33.50	239.50	5563.83	-376.34	-638.87	741.47	741.47	239.50	1.28
5740.00	33.88	239.50	5588.80	-384.78	-653.21	758.11	758.11	239.50	1.28
5770.00	34.27	239.50	5613.64	-393.31	-667.69	774.92	774.92	239.50	1.28
5800.00	34.65	239.50	5638.38	-401.93	-682.32	791.90	791.90	239.50	1.28
5830.00	35.04	239.50	5663.00	-410.63	-697.09	809.04	809.04	239.50	1.28
5860.00	35.42	239.50	5687.51	-419.41	-712.00	826.34	826.34	239.50	1.28
5890.00	35.81	239.50	5711.89	-428.28	-727.05	843.82	843.82	239.50	1.28

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
5920.00	36.19	239.50	5736.16	-437.23	-742.24	861.45	861.45	239.50	1.28
5950.00	36.58	239.50	5760.32	-446.26	-757.58	879.25	879.25	239.50	1.28
5980.00	36.96	239.50	5784.35	-455.38	-773.05	897.20	897.20	239.50	1.28
<b>7 5/8 Intermed Casing @ 6000 Ft MD</b>									
6000.00	37.22	239.50	5800.30	-461.50	-783.44	909.27	909.27	239.50	1.28
6010.00	37.35	239.50	5808.26	-464.57	-788.66	915.32	915.32	239.50	1.28
6040.00	37.73	239.50	5832.04	-473.85	-804.41	933.60	933.60	239.50	1.28
6070.00	38.12	239.50	5855.71	-483.21	-820.30	952.04	952.04	239.50	1.28
6100.00	38.50	239.50	5879.25	-492.65	-836.32	970.64	970.64	239.50	1.28
6130.00	38.89	239.50	5902.66	-502.17	-852.48	989.39	989.39	239.50	1.28
6160.00	39.27	239.50	5925.95	-511.77	-868.78	1008.31	1008.31	239.50	1.28
6190.00	39.66	239.50	5949.11	-521.44	-885.21	1027.38	1027.38	239.50	1.28
6220.00	40.04	239.50	5972.14	-531.20	-901.77	1046.60	1046.60	239.50	1.28
6250.00	40.43	239.50	5995.04	-541.04	-918.47	1065.98	1065.98	239.50	1.28
6280.00	40.81	239.50	6017.82	-550.95	-935.30	1085.51	1085.51	239.50	1.28
6310.00	41.20	239.50	6040.45	-560.94	-952.26	1105.19	1105.19	239.50	1.28
6340.00	41.58	239.50	6062.96	-571.01	-969.35	1125.03	1125.03	239.50	1.28
6370.00	41.97	239.50	6085.33	-581.15	-986.57	1145.01	1145.01	239.50	1.28
6400.00	42.35	239.50	6107.57	-591.37	-1003.92	1165.15	1165.15	239.50	1.28
6430.00	42.74	239.50	6129.67	-601.67	-1021.40	1185.44	1185.44	239.50	1.28
6460.00	43.12	239.50	6151.64	-612.04	-1039.00	1205.87	1205.87	239.50	1.28
6490.00	43.51	239.50	6173.47	-622.48	-1056.74	1226.45	1226.45	239.50	1.28
6520.00	43.89	239.50	6195.16	-633.00	-1074.60	1247.18	1247.18	239.50	1.28
6550.00	44.28	239.50	6216.70	-643.60	-1092.58	1268.05	1268.05	239.50	1.28
6580.00	44.66	239.50	6238.11	-654.27	-1110.69	1289.07	1289.07	239.50	1.28
6610.00	45.05	239.50	6259.38	-665.00	-1128.92	1310.22	1310.22	239.50	1.28
6640.00	45.43	239.50	6280.50	-675.82	-1147.27	1331.53	1331.53	239.50	1.28
6670.00	45.82	239.50	6301.48	-686.70	-1165.75	1352.97	1352.97	239.50	1.28
6700.00	46.20	239.50	6322.32	-697.66	-1184.35	1374.56	1374.56	239.50	1.28
6730.00	46.59	239.50	6343.01	-708.68	-1203.06	1396.28	1396.28	239.50	1.28
6760.00	46.97	239.50	6363.55	-719.78	-1221.90	1418.14	1418.14	239.50	1.28
6790.00	47.36	239.50	6383.95	-730.94	-1240.86	1440.14	1440.14	239.50	1.28
6820.00	47.74	239.50	6404.20	-742.18	-1259.93	1462.28	1462.28	239.50	1.28
6850.00	48.13	239.50	6424.29	-753.48	-1279.12	1484.55	1484.55	239.50	1.28
6880.00	48.51	239.50	6444.24	-764.86	-1298.43	1506.96	1506.96	239.50	1.28
6910.00	48.90	239.50	6464.04	-776.30	-1317.85	1529.50	1529.50	239.50	1.28
6940.00	49.28	239.50	6483.69	-787.80	-1337.38	1552.17	1552.17	239.50	1.28
6970.00	49.67	239.50	6503.18	-799.38	-1357.03	1574.97	1574.97	239.50	1.28
7000.00	50.05	239.50	6522.52	-811.02	-1376.79	1597.91	1597.91	239.50	1.28
7030.00	50.44	239.50	6541.70	-822.72	-1396.66	1620.97	1620.97	239.50	1.28
7060.00	50.82	239.50	6560.73	-834.50	-1416.65	1644.16	1644.16	239.50	1.28
7090.00	51.21	239.50	6579.60	-846.33	-1436.74	1667.48	1667.48	239.50	1.28
7120.00	51.59	239.50	6598.32	-858.23	-1456.94	1690.93	1690.93	239.50	1.28
7150.00	51.98	239.50	6616.88	-870.20	-1477.25	1714.50	1714.50	239.50	1.28
7180.00	52.36	239.50	6635.28	-882.22	-1497.67	1738.20	1738.20	239.50	1.28
7210.00	52.75	239.50	6653.52	-894.31	-1518.19	1762.01	1762.01	239.50	1.28
7240.00	53.13	239.50	6671.60	-906.46	-1538.82	1785.96	1785.96	239.50	1.28
7270.00	53.52	239.50	6689.51	-918.67	-1559.55	1810.02	1810.02	239.50	1.28
7300.00	53.90	239.50	6707.27	-930.95	-1580.39	1834.20	1834.20	239.50	1.28
7330.00	54.29	239.50	6724.86	-943.28	-1601.32	1858.50	1858.50	239.50	1.28

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
7360.00	54.67	239.50	6742.29	-955.67	-1622.36	1882.92	1882.92	239.50	1.28
7390.00	55.06	239.50	6759.55	-968.13	-1643.50	1907.45	1907.45	239.50	1.28
7420.00	55.44	239.50	6776.65	-980.64	-1664.74	1932.10	1932.10	239.50	1.28
7450.00	55.83	239.50	6793.59	-993.21	-1686.08	1956.86	1956.86	239.50	1.28
7480.00	56.21	239.50	6810.35	-1005.83	-1707.51	1981.74	1981.74	239.50	1.28
7510.00	56.60	239.50	6826.95	-1018.52	-1729.04	2006.73	2006.73	239.50	1.28
7540.00	56.98	239.50	6843.38	-1031.26	-1750.67	2031.83	2031.83	239.50	1.28
7570.00	57.37	239.50	6859.64	-1044.05	-1772.39	2057.04	2057.04	239.50	1.28
7600.00	57.75	239.50	6875.73	-1056.90	-1794.21	2082.36	2082.36	239.50	1.28
7630.00	58.14	239.50	6891.66	-1069.81	-1816.12	2107.79	2107.79	239.50	1.28
7660.00	58.52	239.50	6907.41	-1082.77	-1838.12	2133.32	2133.32	239.50	1.28
7690.00	58.91	239.50	6922.98	-1095.78	-1860.21	2158.96	2158.96	239.50	1.28
7720.00	59.29	239.50	6938.39	-1108.85	-1882.39	2184.70	2184.70	239.50	1.28
7750.00	59.68	239.50	6953.62	-1121.96	-1904.66	2210.55	2210.55	239.50	1.28
Begin Hold @ 60.00°, 239.50° Azm									
7774.96	60.00	239.50	6966.16	-1132.92	-1923.25	2232.13	2232.13	239.50	1.28
TOP NIOBRARA									
7842.64	60.00	239.50	7000.00	-1162.67	-1973.75	2290.74	2290.74	239.50	0.00
7874.96	60.00	239.50	7016.16	-1176.87	-1997.87	2318.73	2318.73	239.50	0.00
7974.96	60.00	239.50	7066.16	-1220.83	-2072.49	2405.34	2405.34	239.50	0.00
8074.96	60.00	239.50	7116.16	-1264.78	-2147.11	2491.94	2491.94	239.50	0.00
8174.96	60.00	239.50	7166.16	-1308.74	-2221.73	2578.54	2578.54	239.50	0.00
8274.96	60.00	239.50	7216.16	-1352.69	-2296.35	2665.14	2665.14	239.50	0.00
8374.96	60.00	239.50	7266.16	-1396.65	-2370.96	2751.75	2751.75	239.50	0.00
8474.96	60.00	239.50	7316.16	-1440.60	-2445.58	2838.35	2838.35	239.50	0.00
8574.96	60.00	239.50	7366.16	-1484.56	-2520.20	2924.95	2924.95	239.50	0.00
8674.96	60.00	239.50	7416.16	-1528.51	-2594.82	3011.55	3011.55	239.50	0.00
8774.96	60.00	239.50	7466.16	-1572.47	-2669.44	3098.16	3098.16	239.50	0.00
8874.96	60.00	239.50	7516.16	-1616.42	-2744.06	3184.76	3184.76	239.50	0.00
8974.96	60.00	239.50	7566.16	-1660.38	-2818.68	3271.36	3271.36	239.50	0.00
9074.96	60.00	239.50	7616.16	-1704.33	-2893.30	3357.96	3357.96	239.50	0.00
9174.96	60.00	239.50	7666.16	-1748.29	-2967.91	3444.57	3444.57	239.50	0.00
9274.96	60.00	239.50	7716.16	-1792.25	-3042.53	3531.17	3531.17	239.50	0.00
9374.96	60.00	239.50	7766.16	-1836.20	-3117.15	3617.77	3617.77	239.50	0.00
9474.96	60.00	239.50	7816.16	-1880.16	-3191.77	3704.37	3704.37	239.50	0.00
9574.96	60.00	239.50	7866.16	-1924.11	-3266.39	3790.98	3790.98	239.50	0.00
9674.96	60.00	239.50	7916.16	-1968.07	-3341.01	3877.58	3877.58	239.50	0.00
9774.96	60.00	239.50	7966.16	-2012.02	-3415.63	3964.18	3964.18	239.50	0.00
9874.96	60.00	239.50	8016.16	-2055.98	-3490.24	4050.78	4050.78	239.50	0.00
9974.96	60.00	239.50	8066.16	-2099.93	-3564.86	4137.39	4137.39	239.50	0.00
10074.96	60.00	239.50	8116.16	-2143.89	-3639.48	4223.99	4223.99	239.50	0.00
10174.96	60.00	239.50	8166.16	-2187.84	-3714.10	4310.59	4310.59	239.50	0.00
10274.96	60.00	239.50	8216.16	-2231.80	-3788.72	4397.19	4397.19	239.50	0.00
PBHL @ 10285 MD / 8221 Ft TVD									
10284.64	60.00	239.50	8221.00	-2236.05	-3795.94	4405.57	4405.57	239.50	0.00



# SWEPI LP

DAWSON CREEK 1-25  
SEC 25 - TWN 6N - R88W  
HAYDEN UNIT  
ROUTT COUNTY, CO

## GEODETIC INFORMATION

Grid System C083-N Datum: NAD83  
Group: US-SPC83 Units: USFEET  
Surface Location: X= 2523194.68 Y = 1411558.96  
Latitude: 40° 27' 01.75" N Longitude: -107° 12' 48.12" W  
Convergence: -0.86° W Scale Factor: 1.0000

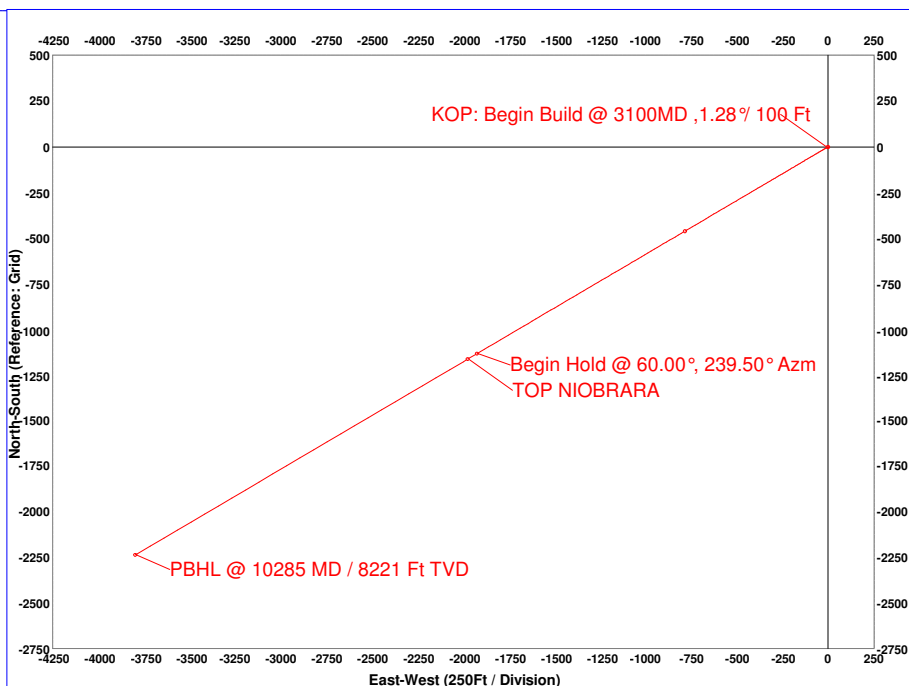
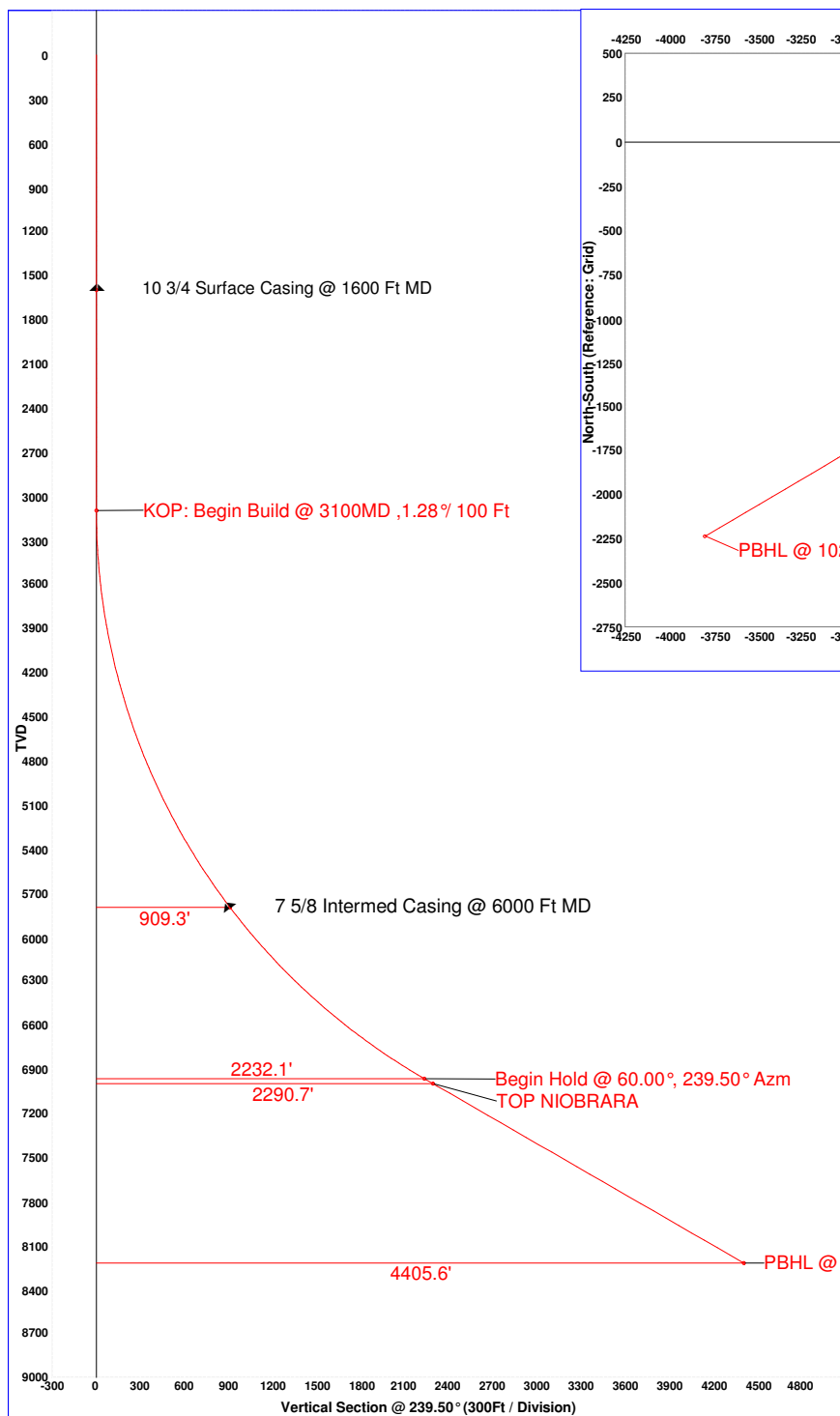


## MAGNETIC INFORMATION

Declination Date: Thursday, June 9, 2011  
Model: IGRF 2010  
Total Correction: 10.97° E --> GN = MN + 10.97 : Magnetic to Grid  
Field Strength: 52926 (nt) Mag Dip Angle: 66.67°  
Bx,By,Bz (nt): Bx=20628, By=3680, Bz=48597

PROPOSED VERTICAL SECTION PLANE: 239.50  
SCALE = 300 Ft / DIV.

PLAN VIEW SCALE = 250 Ft / DIV.



**SURFACE LOCATION**  
GL Elevation: 6658.3' , RKB:  
2032' FNL & 1639' FWL (Sec 26)  
Y=1411558.96  
X=2523194.68  
LAT: 40° 27' 1.7499" N  
LONG: -107° 12' 48.1200" W

**PBHL @ 10265 MD / 8221' TVD**  
4405.57' @ 239.50°  
S:2236.05° W:3795.94'  
971' FSL & 2022' FEL (Sec 26)  
Y=1409322.91  
X=2519398.74  
LAT: 40° 26' 38.9300" N  
LONG: -107° 13' 36.6500" W

Critical Points for DAWSON CREEK 1-25 Proposal REV0									
MD Ft	INC Deg	Azm Deg	TVD Ft	NS Ft	EW Ft	VS Ft	DLS	Comments	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	10 3/4 Surface Casing @ 1600 Ft MD	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	KOP: Begin Build @ 3100MD ,1.28°/ 100 Ft	
6000.00	37.22	239.50	5800.30	-461.50	-783.44	909.27	1.28	7 5/8 Intermed Casing @ 6000 Ft MD	
7774.96	60.00	239.50	6966.16	-1132.92	-1923.25	2232.13	1.28	Begin Hold @ 60.00°, 239.50° Azm	
7842.64	60.00	239.50	7000.00	-1162.67	-1973.75	2290.74	0.00	TOP NIOBRARA	
10284.64	60.00	239.50	8221.00	-2236.05	-3795.94	4405.57	0.00	PBHL @ 10285 MD / 8221 Ft TVD	

Rig:

Report Date: Thursday, June 9, 2011



## Dawson Creek 1-25

### T6N, R88W, SEC21 Wellbore Diagram

Updated: 3/25/2011  
Location: Section 25 Township 6N Range 88W Routt County, Colorado  
Unit: Hayden Unit  
API Number: Pending  
Target Zone: Niobrara Shale

Elevation: 6658 GL  
6669 KB

#### Surface Section

Hole: 13-1/2"  
Depth: 1600' MD  
Casing: 10-3/4" 40.5# J-55, ST&C  
Cement Top: Surface  
Mud Weight: 8.4 ppg

#### Intermediate Section

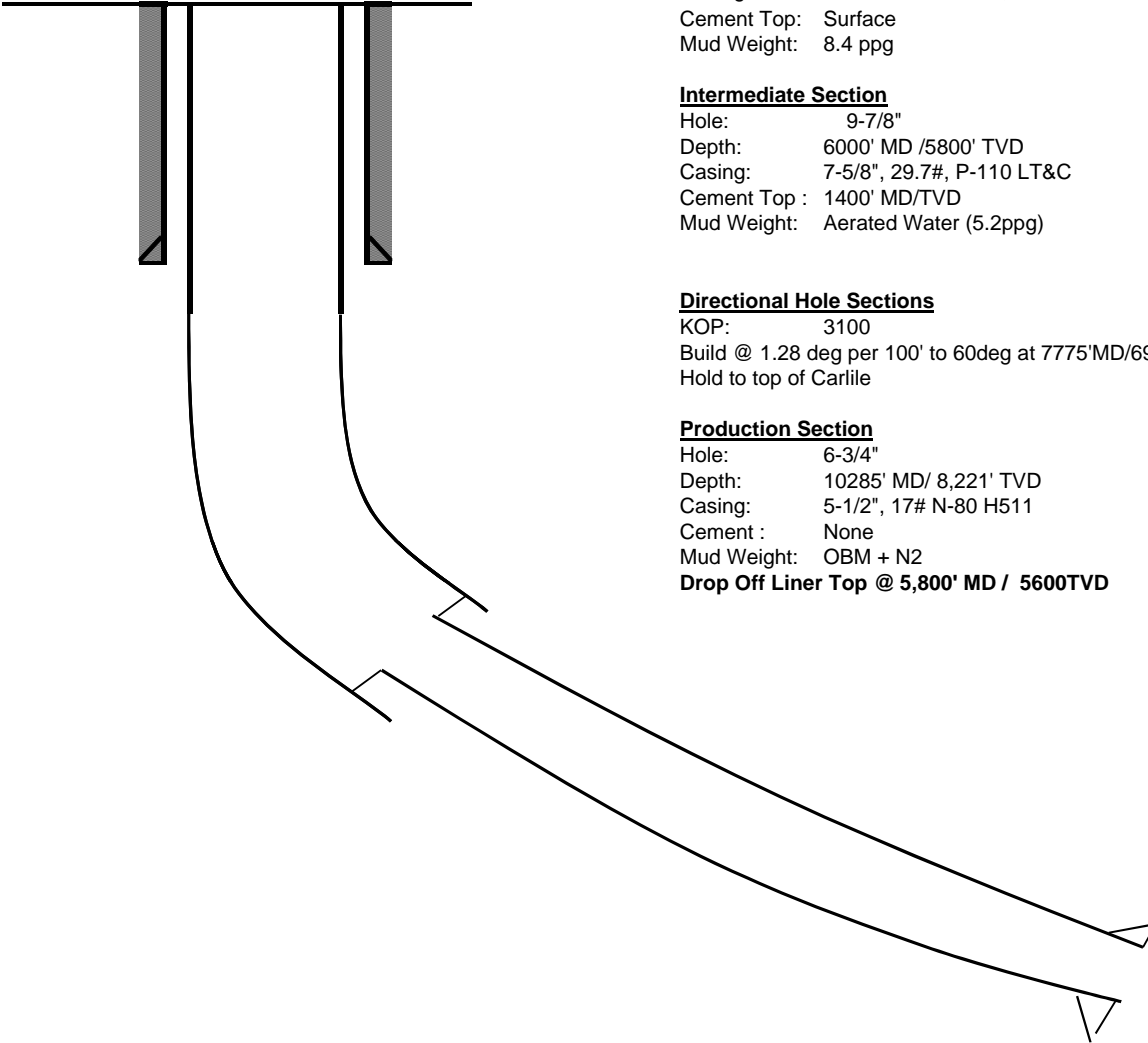
Hole: 9-7/8"  
Depth: 6000' MD /5800' TVD  
Casing: 7-5/8", 29.7#, P-110 LT&C  
Cement Top : 1400' MD/TVD  
Mud Weight: Aerated Water (5.2ppg)

#### Directional Hole Sections

KOP: 3100  
Build @ 1.28 deg per 100' to 60deg at 7775'MD/6966' TVD  
Hold to top of Carlile

#### Production Section

Hole: 6-3/4"  
Depth: 10285' MD/ 8,221' TVD  
Casing: 5-1/2", 17# N-80 H511  
Cement : None  
Mud Weight: OBM + N2  
**Drop Off Liner Top @ 5,800' MD / 5600TVD**



## Drilling and Completion Plan – Horizontal Hole

This well is a “toe-up” horizontal well. See attached directional plan for well.

The surface hole will be 13-1/2” with a 10-3/4” casing cemented from the bottom to the surface. The intermediate hole will be a 9-7/8” with a 7-5/8” casing. The production section will be a 6-3/4” hole with a 5-1/2” casing. Depths of casing strings will vary by hole and are detailed on Form 2. All casing will be new, range 3 casing.

Completion of the main horizontal (lateral) borehole will consist of an open-hole section covered by a perforated or slotted liner run to the well TD by the drilling rig. The producing interval will be the Niobrara Formation and will start below the intermediate casing string set point near the top of the Niobrara Formation. If drilling with casing is required, a contingency will be to perforate the liner once landed in the well.

Artificial lift will consist of a sucker rod and pump jack system. The tubing will be run near the low spot of the well, the “heel”, and anchored above the producing interval. The sucker rods will be run with the pump set near the end of the tubing. All tubing and sucker rod equipment will be run with a workover rig or the drilling rig, each with a BOP package and a kill weight completion fluid system. Fracing or additional stimulation methods are not anticipated to be necessary. The surface pump unit will initially be a rental system to test the well, with a permanent pump jack unit being installed at a later date.