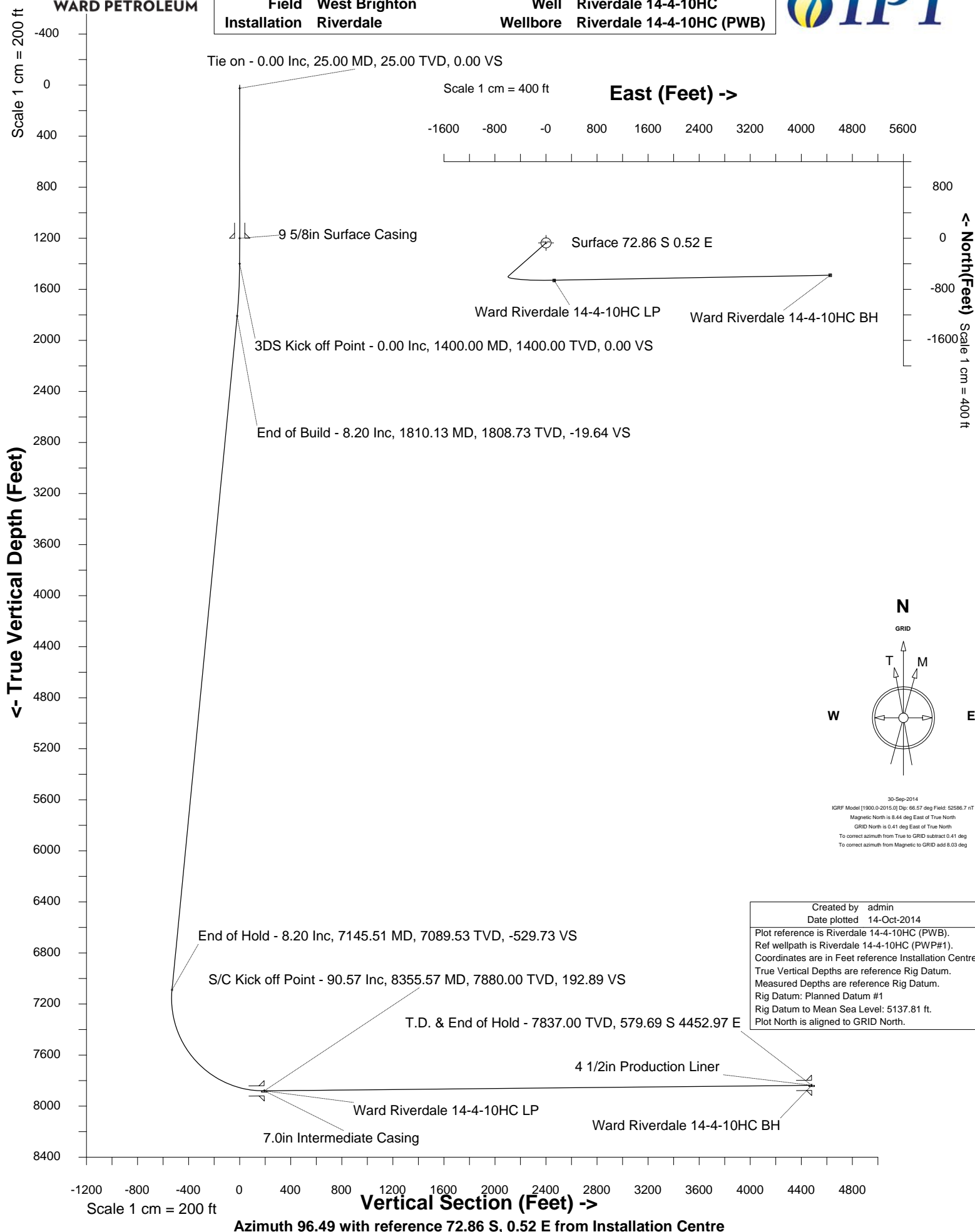




WARD PETROLEUM

WARD PETROLEUM

Location	ADAMS COUNTY, CO	Slot	Slot #6
Field	West Brighton	Well	Riverdale 14-4-10HC
Installation	Riverdale	Wellbore	Riverdale 14-4-10HC (PWB)





WARD PETROLEUM

INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Riverdale 14-4-10HC (PWB)



Wellhead Details

Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #6	1229982.0721	3178208.5383	39.96293000	-104.86423000	72.86S	0.52E	1.65

Declination

Date	Source	Time
30-Sep-2014	IGRF Model [1900.0-2015.0]	10:30

Site Details

Name	Northing	Easting	Coord System Name	North Alignment
Riverdale	1230054.9248	3178208.0159	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Summary Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
25.00	0.00	0.000	25.00	0.00N	0.00E		0.00	1229982.07	3178208.54
1400.00	0.00	228.570	1400.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
12681.36	90.57	88.970	7837.00	506.83S	4452.44E	==>	4481.20	1229475.25	3182660.84

Interpolated Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1229982.07	3178208.54
25.00	0.00	0.000	25.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1375.00	0.00	0.000	1375.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1400.00	0.00	228.570	1400.00	0.00N	0.00E	==>	0.00	1229982.07	3178208.54
1475.00	1.50	228.570	1474.99	0.65S	0.74W	2.00	-0.66	1229981.42	3178207.80
1575.00	3.50	228.570	1574.89	3.54S	4.01W	2.00	-3.58	1229978.54	3178204.53
1675.00	5.50	228.570	1674.58	8.73S	9.89W	2.00	-8.84	1229973.35	3178198.65
1775.00	7.50	228.570	1773.93	16.22S	18.38W	2.00	-16.42	1229965.85	3178190.16
1800.00	8.00	228.570	1798.70	18.45S	20.90W	2.00	-18.68	1229963.62	3178187.64
1900.00	8.20	228.570	1897.68	27.88S	31.59W	==>	-28.23	1229954.20	3178176.95
2000.00	8.20	228.570	1996.66	37.32S	42.28W	==>	-37.79	1229944.75	3178166.26
2100.00	8.20	228.570	2095.64	46.76S	52.98W	==>	-47.35	1229935.31	3178155.56
2200.00	8.20	228.570	2194.61	56.20S	63.68W	==>	-56.91	1229925.87	3178144.86
2300.00	8.20	228.570	2293.59	65.64S	74.38W	==>	-66.47	1229916.43	3178134.17
2400.00	8.20	228.570	2392.57	75.08S	85.07W	==>	-76.03	1229906.99	3178123.47
2500.00	8.20	228.570	2491.54	84.52S	95.77W	==>	-85.59	1229897.55	3178112.77
2600.00	8.20	228.570	2590.52	93.96S	106.47W	==>	-95.16	1229888.11	3178102.08
2700.00	8.20	228.570	2689.50	103.41S	117.16W	==>	-104.72	1229878.67	3178091.38
2800.00	8.20	228.570	2788.47	112.85S	127.86W	==>	-114.28	1229869.23	3178080.68
2900.00	8.20	228.570	2887.45	122.29S	138.56W	==>	-123.84	1229859.79	3178069.99
3000.00	8.20	228.570	2986.43	131.73S	149.25W	==>	-133.40	1229850.35	3178059.29
3100.00	8.20	228.570	3085.40	141.17S	159.95W	==>	-142.96	1229840.91	3178048.59
3200.00	8.20	228.570	3184.38	150.61S	170.65W	==>	-152.52	1229831.47	3178037.90
3300.00	8.20	228.570	3283.36	160.05S	181.35W	==>	-162.08	1229822.03	3178027.20
3400.00	8.20	228.570	3382.34	169.49S	192.04W	==>	-171.64	1229812.58	3178016.50
3500.00	8.20	228.570	3481.31	178.93S	202.74W	==>	-181.20	1229803.14	3178005.80

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5137.8ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 96.490 degrees
Bottom hole distance is 4481.20 Feet on azimuth 96.49 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 14-Oct-2014



WARD PETROLEUM

INTEGRATED PETROLEUM TECHNOLOGIES, INC SYSDRILL

Well Design Combined Report
Wellbore: Riverdale 14-4-10HC (PWB)



Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3600.00	8.20	228.570	3580.29	188.37S	213.44W	==>	-190.76	1229793.70	3177995.11
3700.00	8.20	228.570	3679.27	197.82S	224.13W	==>	-200.32	1229784.26	3177984.41
3800.00	8.20	228.570	3778.24	207.26S	234.83W	==>	-209.88	1229774.82	3177973.71
3900.00	8.20	228.570	3877.22	216.70S	245.53W	==>	-219.44	1229765.38	3177963.02
4000.00	8.20	228.570	3976.20	226.14S	256.23W	==>	-229.00	1229755.94	3177952.32
4100.00	8.20	228.570	4075.17	235.58S	266.92W	==>	-238.56	1229746.50	3177941.62
4200.00	8.20	228.570	4174.15	245.02S	277.62W	==>	-248.13	1229737.06	3177930.93
4300.00	8.20	228.570	4273.13	254.46S	288.32W	==>	-257.69	1229727.62	3177920.23
4400.00	8.20	228.570	4372.11	263.90S	299.01W	==>	-267.25	1229718.18	3177909.53
4500.00	8.20	228.570	4471.08	273.34S	309.71W	==>	-276.81	1229708.74	3177898.84
4600.00	8.20	228.570	4570.06	282.78S	320.41W	==>	-286.37	1229699.30	3177888.14
4700.00	8.20	228.570	4669.04	292.23S	331.10W	==>	-295.93	1229689.86	3177877.44
4800.00	8.20	228.570	4768.01	301.67S	341.80W	==>	-305.49	1229680.42	3177866.75
4900.00	8.20	228.570	4866.99	311.11S	352.50W	==>	-315.05	1229670.97	3177856.05
5000.00	8.20	228.570	4965.97	320.55S	363.20W	==>	-324.61	1229661.53	3177845.35
5100.00	8.20	228.570	5064.94	329.99S	373.89W	==>	-334.17	1229652.09	3177834.66
5200.00	8.20	228.570	5163.92	339.43S	384.59W	==>	-343.73	1229642.65	3177823.96
5300.00	8.20	228.570	5262.90	348.87S	395.29W	==>	-353.29	1229633.21	3177813.26
5400.00	8.20	228.570	5361.87	358.31S	405.98W	==>	-362.85	1229623.77	3177802.57
5500.00	8.20	228.570	5460.85	367.75S	416.68W	==>	-372.41	1229614.33	3177791.87
5600.00	8.20	228.570	5559.83	377.19S	427.38W	==>	-381.97	1229604.89	3177781.17
5700.00	8.20	228.570	5658.81	386.64S	438.08W	==>	-391.54	1229595.45	3177770.48
5800.00	8.20	228.570	5757.78	396.08S	448.77W	==>	-401.10	1229586.01	3177759.78
5900.00	8.20	228.570	5856.76	405.52S	459.47W	==>	-410.66	1229576.57	3177749.08
6000.00	8.20	228.570	5955.74	414.96S	470.17W	==>	-420.22	1229567.13	3177738.39
6100.00	8.20	228.570	6054.71	424.40S	480.86W	==>	-429.78	1229557.69	3177727.69
6200.00	8.20	228.570	6153.69	433.84S	491.56W	==>	-439.34	1229548.25	3177716.99
6300.00	8.20	228.570	6252.67	443.28S	502.26W	==>	-448.90	1229538.81	3177706.30
6400.00	8.20	228.570	6351.64	452.72S	512.95W	==>	-458.46	1229529.36	3177695.60
6500.00	8.20	228.570	6450.62	462.16S	523.65W	==>	-468.02	1229519.92	3177684.90
6600.00	8.20	228.570	6549.60	471.60S	534.35W	==>	-477.58	1229510.48	3177674.21
6700.00	8.20	228.570	6648.58	481.05S	545.05W	==>	-487.14	1229501.04	3177663.51
6800.00	8.20	228.570	6747.55	490.49S	555.74W	==>	-496.70	1229491.60	3177652.81
6900.00	8.20	228.570	6846.53	499.93S	566.44W	==>	-506.26	1229482.16	3177642.12
7000.00	8.20	228.570	6945.51	509.37S	577.14W	==>	-515.82	1229472.72	3177631.42
7100.00	8.20	228.570	7044.48	518.81S	587.83W	==>	-525.38	1229463.28	3177620.72
7200.00	5.66	198.380	7143.63	528.23S	596.47W	8.00	-532.89	1229453.86	3177612.09
7300.00	8.12	129.970	7243.05	537.46S	592.60W	8.00	-528.01	1229444.63	3177615.96
7400.00	15.08	109.330	7340.98	546.32S	574.88W	8.00	-509.40	1229435.77	3177633.68
7500.00	22.73	101.920	7435.53	554.63S	543.65W	8.00	-477.43	1229427.46	3177664.91
7600.00	30.55	98.140	7524.85	562.23S	499.51W	8.00	-432.72	1229419.86	3177709.04
7700.00	38.44	95.790	7607.20	568.98S	443.33W	8.00	-376.13	1229413.11	3177765.22
7800.00	46.37	94.140	7680.99	574.73S	376.20W	8.00	-308.78	1229407.36	3177832.35
7900.00	54.31	92.870	7744.77	579.39S	299.43W	8.00	-231.97	1229402.70	3177909.12
8000.00	62.26	91.840	7797.30	582.85S	214.50W	8.00	-147.20	1229399.24	3177994.04
8100.00	70.22	90.950	7837.56	585.05S	123.08W	8.00	-56.12	1229397.04	3178085.46
8200.00	78.18	90.140	7864.78	585.96S	26.94W	8.00	39.50	1229396.13	3178181.60
8300.00	86.14	89.380	7878.40	585.54S	72.04E	8.00	137.80	1229396.55	3178280.58
8400.00	90.57	88.970	7879.56	583.94S	171.99E	==>	236.93	1229398.15	3178380.52
8500.00	90.57	88.970	7878.56	582.14S	271.97E	==>	336.06	1229399.95	3178480.50
8600.00	90.57	88.970	7877.57	580.34S	371.95E	==>	435.20	1229401.75	3178580.47
8700.00	90.57	88.970	7876.57	578.54S	471.93E	==>	534.33	1229403.55	3178680.45
8800.00	90.57	88.970	7875.58	576.74S	571.90E	==>	633.46	1229405.35	3178780.42
8900.00	90.57	88.970	7874.59	574.94S	671.88E	==>	732.60	1229407.15	3178880.40
9000.00	90.57	88.970	7873.59	573.13S	771.86E	==>	831.73	1229408.96	3178980.37
9100.00	90.57	88.970	7872.60	571.33S	871.84E	==>	930.87	1229410.76	3179080.35
9200.00	90.57	88.970	7871.60	569.53S	971.82E	==>	1030.00	1229412.56	3179180.33
9300.00	90.57	88.970	7870.61	567.73S	1071.80E	==>	1129.13	1229414.36	3179280.30
9400.00	90.57	88.970	7869.61	565.93S	1171.78E	==>	1228.27	1229416.16	3179380.28
9500.00	90.57	88.970	7868.62	564.13S	1271.76E	==>	1327.40	1229417.96	3179480.25

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5137.8ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 96.490 degrees
Bottom hole distance is 4481.20 Feet on azimuth 96.49 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 14-Oct-2014



WARD PETROLEUM

INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL

Well Design Combined Report
Wellbore: Riverdale 14-4-10HC (PWB)



Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9600.00	90.57	88.970	7867.63	562.33S	1371.73E	==>	1426.53	1229419.76	3179580.23
9700.00	90.57	88.970	7866.63	560.53S	1471.71E	==>	1525.67	1229421.56	3179680.20
9800.00	90.57	88.970	7865.64	558.73S	1571.69E	==>	1624.80	1229423.36	3179780.18
9900.00	90.57	88.970	7864.64	556.93S	1671.67E	==>	1723.93	1229425.16	3179880.16
10000.00	90.57	88.970	7863.65	555.12S	1771.65E	==>	1823.07	1229426.97	3179980.13
10100.00	90.57	88.970	7862.66	553.32S	1871.63E	==>	1922.20	1229428.77	3180080.11
10200.00	90.57	88.970	7861.66	551.52S	1971.61E	==>	2021.34	1229430.57	3180180.08
10300.00	90.57	88.970	7860.67	549.72S	2071.59E	==>	2120.47	1229432.37	3180280.06
10400.00	90.57	88.970	7859.67	547.92S	2171.57E	==>	2219.60	1229434.17	3180380.03
10500.00	90.57	88.970	7858.68	546.12S	2271.54E	==>	2318.74	1229435.97	3180480.01
10600.00	90.57	88.970	7857.69	544.32S	2371.52E	==>	2417.87	1229437.77	3180579.98
10700.00	90.57	88.970	7856.69	542.52S	2471.50E	==>	2517.00	1229439.57	3180679.96
10800.00	90.57	88.970	7855.70	540.72S	2571.48E	==>	2616.14	1229441.37	3180779.94
10900.00	90.57	88.970	7854.70	538.92S	2671.46E	==>	2715.27	1229443.17	3180879.91
11000.00	90.57	88.970	7853.71	537.11S	2771.44E	==>	2814.40	1229444.97	3180979.89
11100.00	90.57	88.970	7852.72	535.31S	2871.42E	==>	2913.54	1229446.78	3181079.86
11200.00	90.57	88.970	7851.72	533.51S	2971.40E	==>	3012.67	1229448.58	3181179.84
11300.00	90.57	88.970	7850.73	531.71S	3071.38E	==>	3111.81	1229450.38	3181279.81
11400.00	90.57	88.970	7849.73	529.91S	3171.35E	==>	3210.94	1229452.18	3181379.79
11500.00	90.57	88.970	7848.74	528.11S	3271.33E	==>	3310.07	1229453.98	3181479.76
11600.00	90.57	88.970	7847.75	526.31S	3371.31E	==>	3409.21	1229455.78	3181579.74
11700.00	90.57	88.970	7846.75	524.51S	3471.29E	==>	3508.34	1229457.58	3181679.72
11800.00	90.57	88.970	7845.76	522.71S	3571.27E	==>	3607.47	1229459.38	3181779.69
11900.00	90.57	88.970	7844.76	520.91S	3671.25E	==>	3706.61	1229461.18	3181879.67
12000.00	90.57	88.970	7843.77	519.10S	3771.23E	==>	3805.74	1229462.98	3181979.64
12100.00	90.57	88.970	7842.78	517.30S	3871.21E	==>	3904.87	1229464.79	3182079.62
12200.00	90.57	88.970	7841.78	515.50S	3971.18E	==>	4004.01	1229466.59	3182179.59
12300.00	90.57	88.970	7840.79	513.70S	4071.16E	==>	4103.14	1229468.39	3182279.57
12400.00	90.57	88.970	7839.79	511.90S	4171.14E	==>	4202.27	1229470.19	3182379.54
12500.00	90.57	88.970	7838.80	510.10S	4271.12E	==>	4301.41	1229471.99	3182479.52
12600.00	90.57	88.970	7837.81	508.30S	4371.10E	==>	4400.54	1229473.79	3182579.50
12681.36	90.57	88.970	7837.00	506.83S	4452.44E	==>	4481.20	1229475.25	3182660.84

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SYSDRILL
Well Design Combined Report
Wellbore: Riverdale 14-4-10HC (PWB)



Hole Sections								
Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
13 1/2	25.00	25.00	0.00N	0.00E	1200.00	1200.00	0.00N	0.00E
8 3/4	1200.00	1200.00	0.00N	0.00E	8355.00	7880.00	584.75S	127.00E
6 1/8	8355.00	7880.00	584.75S	127.00E	12681.00	7837.00	506.84S	4452.08E

Casings								
Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Surface Casing	25.00	25.00	0.00N	0.00E	1200.00	1200.00	0.00N	0.00E
7.0in Intermediate Casing	25.00	25.00	0.00N	0.00E	8355.00	7880.00	584.75S	127.00E
4 1/2in Production Liner	8155.00	7854.19	585.71S	70.67W	12681.00	7837.00	506.84S	4452.08E

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
Ward Riverdale 14-4-10HC BH	506.83S	4452.44E	7837.00	39.96145000	-104.84836000	1229475.25	3182660.84	30-Sep-2014
Ward Riverdale 14-4-10HC LP	589.24S	127.57E	7880.00	39.96131000	-104.86379000	1229392.85	3178336.10	30-Sep-2014

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
304874	Planned	12681.36	7837.00	WdW Rate Gyro	Standard

Notes

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5137.8ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 96.490 degrees
Bottom hole distance is 4481.20 Feet on azimuth 96.49 degrees from Wellhead
Calculation method uses Minimum Curvature method
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Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Proximities beyond 2500.00ft with expansion rate of 0.00ft/1000ft are not reported
Scan limit is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
Riverdale 14-4-10HC (PWB)	30-Sep-2014	3-Oct-2014

Well		
Name	Government ID	Last Revised
Riverdale 14-4-10HC		1-Oct-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #6	1229982.0721	3178208.5383	39.96293000	-104.86423000	72.86S	0.52E

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Riverdale	3178208.0159	1230054.9248	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
West Brighton	3178196.4983	1231661.3262	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary								
Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
Riverdale 15-2-10HN (PWB)	Riverdale	5.49	1708.35	7672.97	2.12	1715.80	1.54	7669.36
Riverdale 15-2-11HC (PWB)	Riverdale	13.79	1299.22	7942.44	10.95	1189.70	4.85	1189.70
Riverdale 14-4-9HN (PWB)	Riverdale	14.16	1419.36	8365.00	11.26	1435.76	4.83	1452.17
Riverdale 14-4-11HN (PWB)	Riverdale	18.21	1299.14	12678.69	15.37	1189.70	6.41	1189.70
Riverdale 15-2-9HC (PWB)	Riverdale	20.69	1566.99	7828.86	17.55	1583.40	6.50	1616.21
Riverdale 15-2-12HN (PWB)	Riverdale	26.85	1249.16	7798.52	24.01	1189.70	9.45	1189.70
Riverdale 14-4-8HC (PWB)	Riverdale	29.14	1275.72	1275.72	26.30	1189.70	10.26	1189.70
Riverdale 14-4-12HC (PWB)	Riverdale	32.79	1248.74	12669.13	29.94	1189.70	10.85	12672.64
Riverdale 15-2-8HN (PWB)	Riverdale	37.39	1276.24	7618.28	34.55	1189.70	13.17	1189.70
Riverdale 22-2-1HC (PWB)	Riverdale	40.94	1198.36	8103.78	38.09	1198.36	14.34	1198.36
Riverdale	Riverdale	43.71	1250.92	1250.92	40.87	1189.70	15.39	1189.70

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Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
14-4-7HN (PWB)								
Riverdale 23-4-1HN (PWB)	Riverdale	47.36	1198.35	12666.48	44.50	1198.35	16.55	12672.64
Riverdale 15-2-7HC (PWB)	Riverdale	51.69	1251.18	7778.75	48.85	1189.70	18.20	1189.70
Riverdale 14-4-6HC (PWB)	Riverdale	58.29	1226.17	1226.17	55.45	1189.70	20.53	1189.70
Riverdale 15-2-6HN (PWB)	Riverdale	66.11	1226.18	1226.18	63.27	1189.70	23.28	1189.70
Riverdale 14-4-5HN (PWB)	Riverdale	72.86	1201.65	1201.65	70.02	1189.70	25.67	1189.70
Riverdale 15-2-5HC (PWB)	Riverdale	80.58	1201.29	1201.29	77.74	1189.70	28.39	1189.70
W United Bank of Denver 1 (AWB)	Offsets	95.31	2396.77	2396.77	81.44	2420.01	6.78	2502.03
W Ehler, John 15 (AWB)	Offsets	729.08	5183.61	5183.61	706.21	5183.61	31.87	5192.32
W Adams County 1 (AWB)	Offsets	973.80	5339.96	5339.96	950.81	5339.96	42.34	5356.36
W Ehler, John 20 (AWB)	Offsets	1102.31	5443.91	5443.91	1080.83	5443.91	51.32	5425.00
W United Bank of Denver 3 (AWB)	Offsets	1353.93	1402.95	1402.95	1344.08	1419.36	84.90	5241.54
W RC Nauman 2 (AWB)	Offsets	1448.29	1402.95	1402.95	1438.32	1419.36	87.04	5356.36
W Ehler, John 18 (AWB)	Offsets	1746.16	1402.95	1402.95	1735.92	1501.38	82.12	5307.15
KROUGH-SCOT T #1 (AWB)	Offsets	1781.10	12681.36	12681.36	1731.22	12681.36	35.62	12672.64
Sharp #23-3-1HC (PWB)	Sharp Pad	1832.26	12681.36	12681.36	1781.09	12681.36	35.69	12672.64
W Nauman 1-14 (AWB)	Offsets	1892.10	1402.95	8867.60	1879.82	1419.36	64.30	9572.24
W Ehler, John 22 (AWB)	Offsets	1951.85	5395.34	5395.34	1929.11	5395.34	85.69	5487.60
Sharp #24-3-12HN (PWB)	Sharp Pad	1995.76	12681.36	12681.36	1939.24	12681.36	35.24	12672.64
W United Bank of Denver 2 (AWB)	Offsets	2062.16	1402.95	1402.95	2052.38	1452.17	98.71	5389.17
W Ehler, John 21 (AWB)	Offsets	2115.29	5546.80	5546.80	2093.62	5546.80	97.59	5586.02
W RC Nauman 4 (AWB)	Offsets	2130.45	1402.95	1402.95	2120.46	1419.36	133.33	4325.00
SHARP #24-3-11HC (PWB)	Sharp Pad	2224.51	12681.36	12681.36	2163.48	12681.36	36.42	12672.64
Sharp #24-3-11HC (PWB)	Sharp Pad	2224.51	12681.36	12681.36	2163.78	12681.36	36.59	12672.64
W Alice Wiggett 2	Offsets	2283.27	5481.19	5481.19	2261.22	5481.19	103.40	5569.62

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Offset Wellbore	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
(AWB)								
W Renslow 1 (AWB)	Offsets	2312.69	5417.26	5417.26	2289.73	5421.98	100.29	5586.02
W Wiggett 1 (AWB)	Offsets	2455.41	7425.00	7425.00	2423.30	7425.00	76.44	7488.91
Sharp #24-3-10HN (PWB)	Sharp Pad	2521.49	12681.36	12681.36	2458.58	12681.36	40.06	12672.64