

MINERAL RESOURCES, INC.

Location	Windsor	Slot	Slot #48
Field	Wattenberg	Well	GP-JEvans #5-19-19
Installation	Mineral Resources MRI	Wellbore	GP-JEvans #5-19-19 (PWB)

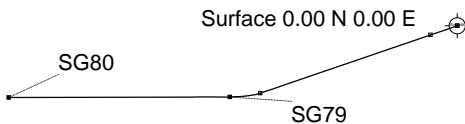
East (feet) ->

Scale 1 cm = 800 ft

-11200 -9600 -8000 -6400 -4800 -3200 -1600 0 1600

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
KOP	200.00	0.00	0.00	200.00	0.00	0.00	0.00	-0.00
End of Build	2011.49	36.23	251.11	1893.16	-179.34	-524.06	2.00	545.81
End of Hold	7984.66	36.23	251.11	6711.44	-1322.41	-3864.18	0.00	4024.54
Target SG79	8684.27	90.00	269.86	7018.42	-1396.16	-4457.53	8.00	4622.10
T.D. & Target SG80	13021.07	90.00	269.86	7018.42	-1406.69	-8794.32	0.00	8906.11



1600

<- North(feet)

0

-1600

-3200

Scale 1 cm = 800 ft

Scale 1 cm = 400 ft

<- True Vertical Depth (feet)

-800

-0

800

1600

2400

3200

4000

4800

5600

6400

7200

8000

Tie on - 0.00 Inc, 0.00 MD, 0.00 TVD, -0.00 VS

9 5/8in Surface Casing

End of Build - 36.23 Inc, 2011.49 MD, 1893.16 TVD, 545.81 VS

End of Hold - 36.23 Inc, 7984.66 MD, 6711.44 TVD, 4024.54 VS

7.0in Intermediate Casing

SG80

4 1/2in Production Liner

S/C Kick off Point - 90.00 Inc, 8684.27 MD, 7018.42 TVD, 4622.10 VS

SG79 T.D. & End of Hold - 7018.42 TVD, 1406.69 S 8794.32 W

Created by admin
Date plotted 21-Mar-2014
Plot reference is GP-JEvans #5-19-19 (PWB).
Ref wellpath is MRI-JEvans #5-19-19 (PWP#1).
Coordinates are in feet reference Slot #48.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4673.42 ft.
Plot North is aligned to GRID North.

-800 -0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000 8800 9600

Scale 1 cm = 400 ft

Vertical Section (feet) ->

Azimuth 260.91 with reference 0.00 N, 0.00 E from Slot #48



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: GP-JEvans #5-19-19 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #48	1386034.7070	3227710.2680	40.39018568	-104.68250605	460.45S	376.29W	1.42

Declination			
Date	Source	Time	
22-Jan-2013	IGRF Model [1900.0-2015.0]	09:44	
18-Sep-2013	IGRF Model [1900.0-2015.0]	10:23	

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
Mineral Resources MRI	1386495.1419	3228086.5450	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
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1386034.71	3227710.27
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1386034.71	3227710.27
2011.49	36.23	251.110	1893.16	179.34S	524.06W	2.00	545.81	1385855.37	3227186.23
7984.66	36.23	251.110	6711.44	1322.41S	3864.18W	==>	4024.54	1384712.35	3223846.26
8684.27	90.00	269.860	7018.42	1396.16S	4457.53W	8.00	4622.10	1384638.61	3223252.92
13021.07	90.00	269.860	7018.42	1406.69S	8794.32W	==>	8906.11	1384628.07	3218916.32

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	1386034.71	3227710.27
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1386034.71	3227710.27
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1386034.71	3227710.27
300.00	2.00	251.110	299.98	0.57S	1.65W	2.00	1.72	1386034.14	3227708.62
400.00	4.00	251.110	399.84	2.26S	6.60W	2.00	6.88	1386032.45	3227629.67
500.00	6.00	251.110	499.45	5.08S	14.85W	2.00	15.46	1386029.63	3227695.42
600.00	8.00	251.110	598.70	9.03S	26.38W	2.00	27.47	1386025.68	3227683.89
700.00	10.00	251.110	697.47	14.09S	41.18W	2.00	42.89	1386020.62	3227669.09
800.00	12.00	251.110	795.62	20.27S	59.23W	2.00	61.69	1386014.44	3227651.04
900.00	14.00	251.110	893.06	27.55S	80.51W	2.00	83.85	1386007.16	3227629.76
1000.00	16.00	251.110	989.64	35.93S	105.00W	2.00	109.36	1385998.78	3227605.27
1100.00	18.00	251.110	1085.27	45.40S	132.66W	2.00	138.16	1385989.31	3227577.61
1200.00	20.00	251.110	1179.82	55.94S	163.46W	2.00	170.24	1385978.77	3227546.81
1300.00	22.00	251.110	1273.17	67.54S	197.37W	2.00	205.56	1385967.17	3227512.91
1400.00	24.00	251.110	1365.21	80.19S	234.33W	2.00	244.06	1385954.52	3227475.95
1500.00	26.00	251.110	1455.84	93.88S	274.31W	2.00	285.70	1385940.83	3227435.96
1600.00	28.00	251.110	1544.94	108.58S	317.27W	2.00	330.43	1385926.14	3227393.02
1700.00	30.00	251.110	1632.39	124.27S	363.13W	2.00	378.20	1385910.44	3227347.15
1800.00	32.00	251.110	1718.11	140.95S	411.86W	2.00	428.95	1385893.77	3227298.43
1900.00	34.00	251.110	1801.97	158.58S	463.39W	2.00	482.62	1385876.13	3227246.90
2000.00	36.00	251.110	1883.88	177.15S	517.65W	2.00	539.14	1385857.56	3227192.64
2011.49	36.23	251.110	1893.16	179.34S	524.06W	2.00	545.81	1385855.37	3227186.23
2100.00	36.23	251.110	1964.56	196.28S	573.55W	==>	597.36	1385838.43	3227136.74
2200.00	36.23	251.110	2045.22	215.42S	629.47W	==>	655.60	1385819.30	3227080.82
2300.00	36.23	251.110	2125.89	234.56S	685.39W	==>	713.83	1385800.16	3227024.91
2400.00	36.23	251.110	2206.56	253.69S	741.31W	==>	772.07	1385781.02	3226968.99
2500.00	36.23	251.110	2287.22	272.83S	797.23W	==>	830.31	1385761.89	3226913.07
2600.00	36.23	251.110	2367.89	291.97S	853.15W	==>	888.55	1385742.75	3226857.16
2700.00	36.23	251.110	2448.55	311.10S	909.07W	==>	946.79	1385723.62	3226801.24
2800.00	36.23	251.110	2529.22	330.24S	964.98W	==>	1005.03	1385704.48	3226745.33
2900.00	36.23	251.110	2609.88	349.38S	1020.90W	==>	1063.27	1385685.35	3226689.41
3000.00	36.23	251.110	2690.55	368.51S	1076.82W	==>	1121.51	1385666.21	3226633.49
3100.00	36.23	251.110	2771.21	387.65S	1132.74W	==>	1179.75	1385647.07	3226577.58
3200.00	36.23	251.110	2851.88	406.79S	1188.66W	==>	1237.99	1385627.94	3226521.66
3300.00	36.23	251.110	2932.54	425.92S	1244.58W	==>	1296.23	1385608.80	3226465.74
3400.00	36.23	251.110	3013.21	445.06S	1300.50W	==>	1354.47	1385589.67	3226409.83
3500.00	36.23	251.110	3093.87	464.20S	1356.41W	==>	1412.71	1385570.53	3226353.91

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4673.4ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 260.910 degrees
Bottom hole distance is 8906.11 Feet on azimuth 260.91 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 21-Mar-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL

Well Design Combined Report
Wellbore: GP-JEvans #5-19-19 (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	36.23	251.110	3174.54	483.33S	1412.33W	==>	1470.95	1385551.40	3226297.99
3700.00	36.23	251.110	3255.21	502.47S	1468.25W	==>	1529.18	1385532.26	3226242.08
3800.00	36.23	251.110	3335.87	521.61S	1524.17W	==>	1587.42	1385513.12	3226186.16
3900.00	36.23	251.110	3416.54	540.74S	1580.09W	==>	1645.66	1385493.99	3226130.25
4000.00	36.23	251.110	3497.20	559.88S	1636.01W	==>	1703.90	1385474.85	3226074.33
4100.00	36.23	251.110	3577.87	579.02S	1691.93W	==>	1762.14	1385455.72	3226018.41
4200.00	36.23	251.110	3658.53	598.15S	1747.84W	==>	1820.38	1385436.58	3225962.50
4300.00	36.23	251.110	3739.20	617.29S	1803.76W	==>	1878.62	1385417.44	3225906.58
4400.00	36.23	251.110	3819.86	636.43S	1859.68W	==>	1936.86	1385398.31	3225850.66
4500.00	36.23	251.110	3900.53	655.56S	1915.60W	==>	1995.10	1385379.17	3225794.75
4600.00	36.23	251.110	3981.19	674.70S	1971.52W	==>	2053.34	1385360.04	3225738.83
4700.00	36.23	251.110	4061.86	693.84S	2027.44W	==>	2111.58	1385340.90	3225682.92
4800.00	36.23	251.110	4142.52	712.97S	2083.36W	==>	2169.82	1385321.77	3225627.00
4900.00	36.23	251.110	4223.19	732.11S	2139.27W	==>	2228.06	1385302.63	3225571.08
5000.00	36.23	251.110	4303.85	751.25S	2195.19W	==>	2286.30	1385283.49	3225515.17
5100.00	36.23	251.110	4384.52	770.38S	2251.11W	==>	2344.53	1385264.36	3225459.25
5200.00	36.23	251.110	4465.19	789.52S	2307.03W	==>	2402.77	1385245.22	3225403.33
5300.00	36.23	251.110	4545.85	808.65S	2362.95W	==>	2461.01	1385226.09	3225347.42
5400.00	36.23	251.110	4626.52	827.79S	2418.87W	==>	2519.25	1385206.95	3225291.50
5500.00	36.23	251.110	4707.18	846.93S	2474.79W	==>	2577.49	1385187.81	3225235.59
5600.00	36.23	251.110	4787.85	866.06S	2530.71W	==>	2635.73	1385168.68	3225179.67
5700.00	36.23	251.110	4868.51	885.20S	2586.62W	==>	2693.97	1385149.54	3225123.75
5800.00	36.23	251.110	4949.18	904.34S	2642.54W	==>	2752.21	1385130.41	3225067.84
5900.00	36.23	251.110	5029.84	923.47S	2698.46W	==>	2810.45	1385111.27	3225011.92
6000.00	36.23	251.110	5110.51	942.61S	2754.38W	==>	2868.69	1385092.14	3224956.00
6100.00	36.23	251.110	5191.17	961.75S	2810.30W	==>	2926.93	1385073.00	3224900.09
6200.00	36.23	251.110	5271.84	980.88S	2866.22W	==>	2985.17	1385053.86	3224844.17
6300.00	36.23	251.110	5352.50	1000.02S	2922.14W	==>	3043.41	1385034.73	3224788.26
6400.00	36.23	251.110	5433.17	1019.16S	2978.05W	==>	3101.65	1385015.59	3224732.34
6500.00	36.23	251.110	5513.83	1038.29S	3033.97W	==>	3159.88	1384996.46	3224676.42
6600.00	36.23	251.110	5594.50	1057.43S	3089.89W	==>	3218.12	1384977.32	3224620.51
6700.00	36.23	251.110	5675.17	1076.57S	3145.81W	==>	3276.36	1384958.18	3224564.59
6800.00	36.23	251.110	5755.83	1095.70S	3201.73W	==>	3334.60	1384939.05	3224508.67
6900.00	36.23	251.110	5836.50	1114.84S	3257.65W	==>	3392.84	1384919.91	3224452.76
7000.00	36.23	251.110	5917.16	1133.98S	3313.57W	==>	3451.08	1384900.78	3224396.84
7100.00	36.23	251.110	5997.83	1153.11S	3369.48W	==>	3509.32	1384881.64	3224340.93
7200.00	36.23	251.110	6078.49	1172.25S	3425.40W	==>	3567.56	1384862.51	3224285.01
7300.00	36.23	251.110	6159.16	1191.39S	3481.32W	==>	3625.80	1384843.37	3224229.09
7400.00	36.23	251.110	6239.82	1210.52S	3537.24W	==>	3684.04	1384824.23	3224173.18
7500.00	36.23	251.110	6320.49	1229.66S	3593.16W	==>	3742.28	1384805.10	3224117.26
7600.00	36.23	251.110	6401.15	1248.80S	3649.08W	==>	3800.52	1384785.96	3224061.34
7700.00	36.23	251.110	6481.82	1267.93S	3705.00W	==>	3858.76	1384766.83	3224005.43
7800.00	36.23	251.110	6562.48	1287.07S	3760.91W	==>	3917.00	1384747.69	3223949.51
7900.00	36.23	251.110	6643.15	1306.21S	3816.83W	==>	3975.23	1384728.55	3223893.60
7984.66	36.23	251.110	6711.44	1322.41S	3864.18W	==>	4024.54	1384712.35	3223846.26
8000.00	37.36	251.890	6723.72	1325.32S	3872.89W	8.00	4033.60	1384709.44	3223837.54
8100.00	44.86	256.170	6799.03	1343.21S	3936.07W	8.00	4098.82	1384691.55	3223774.36
8200.00	52.47	259.440	6865.04	1358.94S	4009.42W	8.00	4173.73	1384675.82	3223701.02
8300.00	60.16	262.100	6920.46	1372.20S	4091.49W	8.00	4256.87	1384662.57	3223618.95
8400.00	67.90	264.370	6964.22	1382.72S	4180.70W	8.00	4346.62	1384652.04	3223529.74
8500.00	75.66	266.410	6995.47	1390.31S	4275.30W	8.00	4441.23	1384644.45	3223435.15
8600.00	83.44	268.310	7013.60	1394.82S	4373.46W	8.00	4538.87	1384639.95	3223336.99
8684.27	90.00	269.860	7018.42	1396.16S	4457.53W	8.00	4622.10	1384638.61	3223252.92
8700.00	90.00	269.860	7018.42	1396.20S	4473.26W	==>	4637.64	1384638.57	3223237.19
8800.00	90.00	269.860	7018.42	1396.44S	4573.26W	==>	4736.42	1384638.33	3223137.20
8900.00	90.00	269.860	7018.42	1396.68S	4673.26W	==>	4835.20	1384638.08	3223037.20
9000.00	90.00	269.860	7018.42	1396.93S	4773.26W	==>	4933.99	1384637.84	3222937.21
9100.00	90.00	269.860	7018.42	1397.17S	4873.26W	==>	5032.77	1384637.60	3222837.21
9200.00	90.00	269.860	7018.42	1397.41S	4973.26W	==>	5131.55	1384637.35	3222737.22
9300.00	90.00	269.860	7018.42	1397.65S	5073.26W	==>	5230.34	1384637.11	3222637.22
9400.00	90.00	269.860	7018.42	1397.90S	5173.26W	==>	5329.12	1384636.87	3222537.22
9500.00	90.00	269.860	7018.42	1398.14S	5273.26W	==>	5427.90	1384636.63	3222437.23

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Vertical Section is from 0.00N 0.00E on azimuth 260.910 degrees
Bottom hole distance is 8906.11 Feet on azimuth 260.91 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 21-Mar-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: GP-JEvans #5-19-19 (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	90.00	269.860	7018.42	1398.38S	5373.26W	==>	5526.68	1384636.38	3222337.23
9700.00	90.00	269.860	7018.42	1398.63S	5473.26W	==>	5625.47	1384636.14	3222237.24
9800.00	90.00	269.860	7018.42	1398.87S	5573.26W	==>	5724.25	1384635.90	3222137.24
9900.00	90.00	269.860	7018.42	1399.11S	5673.26W	==>	5823.03	1384635.65	3222037.25
10000.00	90.00	269.860	7018.42	1399.36S	5773.26W	==>	5921.82	1384635.41	3221937.25
10100.00	90.00	269.860	7018.42	1399.60S	5873.26W	==>	6020.60	1384635.17	3221837.26
10200.00	90.00	269.860	7018.42	1399.84S	5973.26W	==>	6119.38	1384634.93	3221737.26
10300.00	90.00	269.860	7018.42	1400.08S	6073.26W	==>	6218.16	1384634.68	3221637.27
10400.00	90.00	269.860	7018.42	1400.33S	6173.26W	==>	6316.95	1384634.44	3221537.27
10500.00	90.00	269.860	7018.42	1400.57S	6273.26W	==>	6415.73	1384634.20	3221437.27
10600.00	90.00	269.860	7018.42	1400.81S	6373.26W	==>	6514.51	1384633.95	3221337.28
10700.00	90.00	269.860	7018.42	1401.06S	6473.26W	==>	6613.30	1384633.71	3221237.28
10800.00	90.00	269.860	7018.42	1401.30S	6573.26W	==>	6712.08	1384633.47	3221137.29
10900.00	90.00	269.860	7018.42	1401.54S	6673.26W	==>	6810.86	1384633.22	3221037.29
11000.00	90.00	269.860	7018.42	1401.78S	6773.26W	==>	6909.64	1384632.98	3220937.30
11100.00	90.00	269.860	7018.42	1402.03S	6873.26W	==>	7008.43	1384632.74	3220837.30
11200.00	90.00	269.860	7018.42	1402.27S	6973.26W	==>	7107.21	1384632.50	3220737.31
11300.00	90.00	269.860	7018.42	1402.51S	7073.26W	==>	7205.99	1384632.25	3220637.31
11400.00	90.00	269.860	7018.42	1402.76S	7173.26W	==>	7304.77	1384632.01	3220537.32
11500.00	90.00	269.860	7018.42	1403.00S	7273.26W	==>	7403.56	1384631.77	3220437.32
11600.00	90.00	269.860	7018.42	1403.24S	7373.25W	==>	7502.34	1384631.52	3220337.32
11700.00	90.00	269.860	7018.42	1403.49S	7473.25W	==>	7601.12	1384631.28	3220237.33
11800.00	90.00	269.860	7018.42	1403.73S	7573.25W	==>	7699.91	1384631.04	3220137.33
11900.00	90.00	269.860	7018.42	1403.97S	7673.25W	==>	7798.69	1384630.80	3220037.34
12000.00	90.00	269.860	7018.42	1404.21S	7773.25W	==>	7897.47	1384630.55	3219937.34
12100.00	90.00	269.860	7018.42	1404.46S	7873.25W	==>	7996.25	1384630.31	3219837.35
12200.00	90.00	269.860	7018.42	1404.70S	7973.25W	==>	8095.04	1384630.07	3219737.35
12300.00	90.00	269.860	7018.42	1404.94S	8073.25W	==>	8193.82	1384629.82	3219637.36
12400.00	90.00	269.860	7018.42	1405.19S	8173.25W	==>	8292.60	1384629.58	3219537.36
12500.00	90.00	269.860	7018.42	1405.43S	8273.25W	==>	8391.39	1384629.34	3219437.36
12600.00	90.00	269.860	7018.42	1405.67S	8373.25W	==>	8490.17	1384629.09	3219337.37
12700.00	90.00	269.860	7018.42	1405.91S	8473.25W	==>	8588.95	1384628.85	3219237.37
12800.00	90.00	269.860	7018.42	1406.16S	8573.25W	==>	8687.73	1384628.61	3219137.38
12900.00	90.00	269.860	7018.42	1406.40S	8673.25W	==>	8786.52	1384628.37	3219037.38
13000.00	90.00	269.860	7018.42	1406.64S	8773.25W	==>	8885.30	1384628.12	3218937.39
13021.07	90.00	269.860	7018.42	1406.69S	8794.32W	==>	8906.11	1384628.07	3218916.32

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Vertical Section is from 0.00N 0.00E on azimuth 260.910 degrees
Bottom hole distance is 8906.11 Feet on azimuth 260.91 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 21-Mar-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: GP-JEvans #5-19-19 (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]
12 1/4	0.00	0.00	0.00N	0.00E	900.00	893.06	27.55S	80.51W
8 3/4	900.00	893.06	27.55S	80.51W	8684.00	7018.42	1396.16S	4457.26W
6 1/8	8684.00	7018.42	1396.16S	4457.26W	13021.07	7018.42	1406.69S	8794.32W

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	0.00	0.00	0.00N	0.00E	900.00	893.06	27.55S	80.51W
7.0in Intermediate Casing	0.00	0.00	0.00N	0.00E	8684.00	7018.42	1396.16S	4457.26W
4 1/2in Production Liner	8484.00	6991.34	1389.30S	4259.88W	13021.07	7018.42	1406.69S	8794.32W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
SG79	1396.16S	4457.53W	7018.42	40.38646521	-104.69855260	1384638.61	3223252.92	17-Mar-2014
SG80	1406.69S	8794.32W	7018.42	40.38654283	-104.71411993	1384628.07	3218916.32	17-Mar-2014

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
64318	Planned	13021.07	7018.42	WdW Rate Gyro	Standard	

Notes

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: GP-JEvans #5-19-19 (PWB)

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 1000.00ft 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
GP-JEvans #5-19-19 (PWB)	23-Sep-2013	21-Mar-2014

Well		
Name	Government ID	Last Revised
GP-JEvans #5-19-19		20-Mar-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #48	1386034.7070	3227710.2680	40.39018568	-104.68250605	460.45S	376.29W

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Mineral Resources MRI	3228086.5450	1386495.1419	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
Wattenberg	3211772.6087	1400656.3763	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
GP-Double Clutch #1-19-19	GP-Double Clutch #1-19-19 (PWB)	Slot #49	Mineral Resources MRI	11.61	351.42	13017.39	10.11	393.70	2.53	13021.07
GP-JEvans 4-19-19	GP-JEvans 4-19-19 (PWB)	Slot #47	Mineral Resources MRI	12.00	200.00	8612.20	10.75	213.25	2.51	13021.07
GP-Double Clutch #2-19-19	GP-Double Clutch #2-19-19 (PWB)	Slot #50	Mineral Resources MRI	22.80	410.10	13013.72	21.22	410.10	4.20	13021.07
GP-JEvans #3-19-19	GP-JEvans #3-19-19 (PWB)	Slot #46	Mineral Resources MRI	24.00	200.00	8700.00	22.75	213.25	4.21	13021.07
GP-Double Clutch #3-19-19	GP-Double Clutch #3-19-19 (PWB)	Slot #51	Mineral Resources MRI	34.20	459.32	13010.87	32.53	459.32	6.21	13021.07
GP-JEvans #2-19-19	GP-JEvans #2-19-19 (PWB)	Slot #45	Mineral Resources MRI	36.00	200.00	200.00	34.75	213.25	6.45	13021.07
GP-Dairy #1-19-19	GP-Dairy #1-19-19 (PWB)	Slot #52	Mineral Resources MRI	45.59	493.54	493.54	43.86	500.00	24.41	623.36
GP-JEvans #1-19-19	GP-JEvans #1-19-19 (PWB)	Slot #44	Mineral Resources MRI	48.00	200.00	200.00	46.75	213.25	21.13	6545.28
GP-Dairy #2-19-20	GP-Dairy #2-19-20	Slot #53	Mineral Resources	56.99	528.19	528.19	55.18	541.34	28.94	672.57

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Wellbore: GP-JEvans #5-19-19 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
	(PWB)		MRI							
GP-Hillside #3-19-19	GP-Hillside #3-19-19 (PWB)	Slot #43	Mineral Resources MRI	60.00	200.00	200.00	58.75	213.25	26.58	5380.58
GP-Dairy #3-19-20	GP-Dairy #3-19-20 (PWB)	Slot #54	Mineral Resources MRI	68.38	559.60	559.60	66.52	574.15	33.10	738.19
GP-Hillside #2-19-19	GP-Hillside #2-19-19 (PWB)	Slot #42	Mineral Resources MRI	72.00	200.00	200.00	70.75	213.25	29.72	4708.01
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #55	Mineral Resources MRI	79.78	590.55	590.55	77.86	600.00	37.46	754.59
GP-Hillside #1-18-18	GP-Hillside #1-18-18 (PWB)	Slot #41	Mineral Resources MRI	84.00	200.00	200.00	82.75	213.25	45.29	4002.62
Commerce Center 4 #20-2H5	Commerce Center 4 #20-2H5 (AWB)	Commerce Center 4 #20-2H5	MRI Offsets	84.15	1628.96	1628.96	77.40	1628.96	12.40	1640.42
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #56	Mineral Resources MRI	91.20	602.31	602.31	89.26	606.96	42.24	820.21
GP-Jackson #5-18-18	GP-Jackson #5-18-18 (PWB)	Slot #40	Mineral Resources MRI	97.00	200.00	200.00	95.75	213.25	44.12	3805.77
GP-Library #1-19-20	GP-Library #1-19-20 (PWB)	Slot #57	Mineral Resources MRI	103.05	586.28	586.28	101.14	586.28	47.20	853.02
GP-Jackson #4-18-18	GP-Jackson #4-18-18 (PWB)	Slot #39	Mineral Resources MRI	109.01	200.00	200.00	107.76	213.25	60.71	754.59
Sunnyview #E4	Sunnyview #E4 (AWB)	Sunnyview #E4	Mineral Resources MRI	117.64	3359.45	3359.45	79.87	3346.46	3.11	3313.65
GP-Jackson #3-18-18	GP-Jackson #3-18-18 (PWB)	Slot #38	Mineral Resources MRI	121.00	200.00	200.00	119.75	213.25	65.55	771.00
GP-Jackson #2-18-18	GP-Jackson #2-18-18 (PWB)	Slot #37	Mineral Resources MRI	133.00	200.00	200.00	131.76	213.25	68.07	3083.99
GP-Jackson #1-18-18	GP-Jackson #1-18-18 (PWB)	Slot #36	Mineral Resources MRI	145.01	200.00	200.00	143.76	213.25	67.62	3001.97
GP-Alles #3-18-18	GP-Alles #3-18-18 (PWB)	Slot #35	Mineral Resources MRI	157.01	200.00	200.00	155.76	213.25	68.03	2903.54
GP-Alles #2-18-18	GP-Alles #2-18-18 (PWB)	Slot #34	Mineral Resources MRI	169.01	200.00	200.00	167.76	213.25	80.44	2706.69
CDOT-2 #D7	CDOT-2 #D7 (AWB)	CDOT-2 #D7	Mineral Resources MRI	231.19	213.25	213.25	229.12	229.66	31.78	2952.76
CDOT-3 #D2	CDOT-3 #D2 (AWB)	CDOT-3 #D2	Mineral Resources MRI	246.08	229.66	229.66	243.95	246.06	63.00	1230.31

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Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
Ehrlich Motors #D8	Ehrlich Motors #D8 (AWB)	Ehrlich Motors #D8	Mineral Resources MRI	261.00	229.66	229.66	259.85	229.66	28.29	3658.14
Sleep Inn #E5	Sleep Inn #E5 (AWB)	Sleep Inn #E5	Mineral Resources MRI	272.77	0.00	0.00	271.65	49.21	47.62	2165.35
Tri Point #E3	Tri Point #E3 (AWB)	Tri Point #E3	Mineral Resources MRI	303.17	1017.06	1017.06	294.99	1197.51	10.49	2870.73
CDOT-1 #E2	CDOT-1 #E2 (AWB)	CDOT-1 #E2	Mineral Resources MRI	324.46	229.66	229.66	322.62	262.47	23.36	2099.74
University Square #D6	University Square #D6 (AWB)	University Square #D6	Mineral Resources MRI	355.97	16.40	16.40	354.28	213.25	28.09	3034.78
Garden City #D5	Garden City #D5 (AWB)	Garden City #D5	Mineral Resources MRI	374.85	12.42	12.42	373.12	213.25	59.28	2673.88
University 5 Spot #D4	University 5 Spot #D4 (AWB)	University 5 Spot #D4	Mineral Resources MRI	428.53	200.00	200.00	427.01	213.25	38.09	2280.18
Wheeler #D3	Wheeler #D3 (AWB)	Wheeler #D3	Mineral Resources MRI	435.90	196.85	196.85	434.38	200.00	45.14	1984.91
Driftwood #D1	Driftwood #D1 (AWB)	Driftwood #D1	Mineral Resources MRI	443.31	0.00	0.00	442.14	49.21	65.11	2066.93
Classic Lanes #C9	Classic Lanes #C9 (AWB)	Classic Lanes #C9	Mineral Resources MRI	446.71	0.00	0.00	445.50	82.02	56.91	1820.87
District Six #C6	District Six #C6 (AWB)	District Six #C6	Mineral Resources MRI	456.64	200.00	200.00	455.14	200.00	114.90	1624.02
Volk #C7	Volk #C7 (AWB)	Volk #C7	Mineral Resources MRI	457.42	0.00	0.00	456.33	49.21	79.12	1837.27
Union Pacific #C5	Union Pacific #C5 (AWB)	Union Pacific #C5	Mineral Resources MRI	465.12	137.42	137.42	463.61	180.45	139.58	1574.80
HWY 85-3 #C4	HWY 85-3 #C4 (AWB)	HWY 85-3 #C4	Mineral Resources MRI	476.68	117.75	117.75	475.39	147.64	166.09	1640.42
Countryside Center #C3	Countryside Center #C3 (AWB)	Countryside Center #C3	Mineral Resources MRI	481.25	1.42	1.42	480.23	32.81	170.12	885.83
Millers Green House #A10	Millers Green House #A10 (AWB)	Millers Green House #A10	Mineral Resources MRI	590.41	3.42	3.42	588.71	200.00	202.15	1443.57
Riverview #A9	Riverview #A9 (AWB)	Riverview #A9	Mineral Resources MRI	594.43	200.00	200.00	592.33	213.25	206.20	853.02
BMC #B8	BMC #B8 (AWB)	BMC #B8	Mineral Resources MRI	594.65	1.42	1.42	593.01	147.64	106.03	1935.70
HWY 34-2	HWY 34-2	HWY 34-2	Mineral Resources	604.00	2.42	2.42	602.43	131.23	205.60	738.19

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Clearance Summary										
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#A8	#A8 (AWB)	#A8	MRI							
Greeley Industrial South #B9	Greeley Industrial South #B9 (AWB)	Greeley Industrial South #B9	Mineral Resources MRI	611.00	200.00	200.00	609.49	213.25	149.72	1700.00
HWY 34-1 #A7	HWY 34-1 #A7 (AWB)	HWY 34-1 #A7	Mineral Resources MRI	613.05	2.42	2.42	611.24	200.00	197.72	885.83
Shupe 5 Spot #B10	Shupe 5 Spot #B10 (AWB)	Shupe 5 Spot #B10	Mineral Resources MRI	628.68	200.00	200.00	627.17	213.25	248.96	1706.04
Sam Pak #A6	Sam Pak #A6 (AWB)	Sam Pak #A6	Mineral Resources MRI	645.02	5.42	5.42	643.37	200.00	268.37	900.00
Highway 85-2 #B-11	Highway 85-2 #B-11 (AWB)	Highway 85-2 #B-11	Mineral Resources MRI	645.69	213.25	213.25	643.85	213.25	197.38	1443.57
Bus Barn #A5	Bus Barn #A5 (AWB)	Bus Barn #A5	Mineral Resources MRI	653.84	5.42	5.42	651.93	200.00	182.31	900.00
Highway 85-1 #B12	Highway 85-1 #B12 (AWB)	Highway 85-1 #B12	Mineral Resources MRI	663.82	200.00	200.00	662.31	213.25	270.66	1656.82
Smith 5 Spot #A4	Smith 5 Spot #A4 (AWB)	Smith 5 Spot #A4	Mineral Resources MRI	667.61	4.42	4.42	665.93	147.64	220.76	836.61
Parkview South #A3	Parkview South #A3 (AWB)	Parkview South #A3	Mineral Resources MRI	682.06	5.42	5.42	680.59	147.64	287.36	900.00
Delta Park #A2	Delta Park #A2 (AWB)	Delta Park #A2	Mineral Resources MRI	692.72	200.00	200.00	691.05	200.00	203.30	1230.31
Clark #A1	Clark #A1 (AWB)	Clark #A1	Mineral Resources MRI	708.36	5.42	5.42	706.59	200.00	151.10	1525.59
Commerce Center 3 #20-1H5	Commerce Center 3 #20-1H5 (AWB)	Commerce Center 3 #20-1H5	MRI Offsets	752.49	200.00	200.00	750.46	213.25	227.73	1400.00