

MINERAL RESOURCES, INC.

Location	Windsor	Slot	Slot #40
Field	Wattenberg	Well	GP-Jackson #5-18-18
Installation	Mineral Resources MRI	Wellbore	GP-Jackson #5-18-18 (PWB)

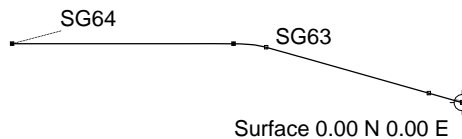
East (feet) ->

Scale 1 cm = 800 ft

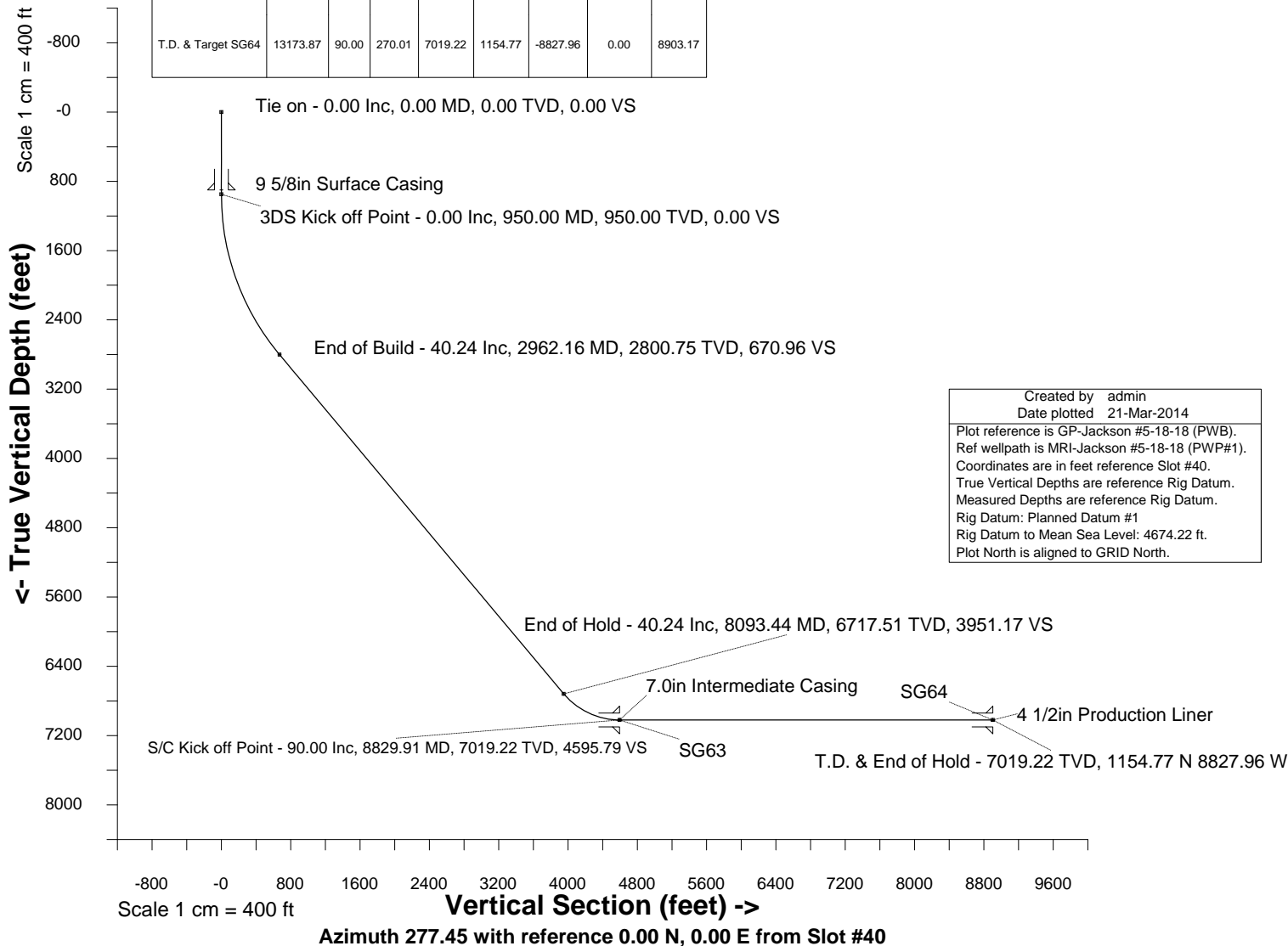
-11200 -9600 -8000 -6400 -4800 -3200 -1600 0 1600

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	950.00	0.00	0.00	950.00	0.00	0.00	0.00	0.00
End of Build	2962.16	40.24	285.76	2800.75	184.15	-652.58	2.00	670.96
End of Hold	8093.44	40.24	285.76	6717.51	1084.41	-3842.98	0.00	3951.17
Target SG63	8829.91	90.00	270.01	7019.22	1153.84	-4484.01	7.00	4595.79
T.D. & Target SG64	13173.87	90.00	270.01	7019.22	1154.77	-8827.96	0.00	8903.17



North (feet)
3200
1600
0
-1600
Scale 1 cm = 800 ft





INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: GP-Jackson #5-18-18 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #40	1386131.7010	3227709.1790	40.39045195	-104.68250674	363.46S	377.38W	2.22

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	1386131.70	3227709.18
950.00	0.00	0.000	950.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
2962.16	40.24	285.760	2800.75	184.15N	652.58W	2.00	670.96	1386315.84	3227056.62
8093.44	40.24	285.760	6717.51	1084.41N	3842.98W	==>	3951.17	1387216.06	3223866.36
8829.91	90.00	270.010	7019.22	1153.84N	4484.01W	7.00	4595.79	1387285.49	3223225.36
13173.87	90.00	270.010	7019.22	1154.77N	8827.96W	==>	8903.17	1387286.42	3218881.59

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	1386131.70	3227709.18
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
950.00	0.00	0.000	950.00	0.00N	0.00E	==>	0.00	1386131.70	3227709.18
1050.00	2.00	285.760	1049.98	0.47N	1.68W	2.00	1.73	1386132.17	3227707.50
1150.00	4.00	285.760	1149.84	1.90N	6.72W	2.00	6.91	1386133.60	3227702.46
1250.00	6.00	285.760	1249.45	4.26N	15.10W	2.00	15.53	1386135.96	3227694.08
1350.00	8.00	285.760	1348.70	7.57N	26.83W	2.00	27.59	1386139.27	3227682.35
1450.00	10.00	285.760	1447.47	11.82N	41.89W	2.00	43.07	1386143.52	3227667.29
1550.00	12.00	285.760	1545.62	17.00N	60.25W	2.00	61.95	1386148.70	3227648.93
1650.00	14.00	285.760	1643.06	23.11N	81.90W	2.00	84.20	1386154.81	3227627.28
1750.00	16.00	285.760	1739.64	30.14N	106.81W	2.00	109.81	1386161.84	3227602.38
1850.00	18.00	285.760	1835.27	38.08N	134.94W	2.00	138.74	1386169.78	3227574.24
1950.00	20.00	285.760	1929.82	46.92N	166.27W	2.00	170.96	1386178.62	3227542.91
2050.00	22.00	285.760	2023.17	56.65N	200.76W	2.00	206.42	1386188.35	3227508.42
2150.00	24.00	285.760	2115.21	67.26N	238.37W	2.00	245.08	1386198.96	3227470.82
2250.00	26.00	285.760	2205.84	78.74N	279.04W	2.00	286.89	1386210.44	3227430.15
2350.00	28.00	285.760	2294.94	91.07N	322.73W	2.00	331.81	1386222.76	3227386.46
2450.00	30.00	285.760	2382.39	104.23N	369.38W	2.00	379.78	1386235.93	3227339.81
2550.00	32.00	285.760	2468.11	118.22N	418.95W	2.00	430.74	1386249.91	3227290.25
2650.00	34.00	285.760	2551.97	133.01N	471.36W	2.00	484.63	1386264.70	3227237.83
2750.00	36.00	285.760	2633.88	148.58N	526.56W	2.00	541.39	1386280.28	3227182.64
2850.00	38.00	285.760	2713.74	164.93N	584.48W	2.00	600.94	1386296.62	3227124.72
2950.00	40.00	285.760	2791.45	182.02N	645.04W	2.00	663.20	1386313.71	3227064.16
2962.16	40.24	285.760	2800.75	184.15N	652.58W	2.00	670.96	1386315.84	3227056.62
3000.00	40.24	285.760	2829.63	190.78N	676.11W	==>	695.15	1386322.48	3227033.09
3100.00	40.24	285.760	2905.96	208.33N	738.29W	==>	759.07	1386340.02	3226970.92
3200.00	40.24	285.760	2982.29	225.87N	800.46W	==>	823.00	1386357.57	3226908.75
3300.00	40.24	285.760	3058.63	243.42N	862.64W	==>	886.92	1386375.11	3226846.58
3400.00	40.24	285.760	3134.96	260.96N	924.81W	==>	950.85	1386392.65	3226784.40

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 4674.2ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 277.450 degrees
Bottom hole distance is 8903.17 Feet on azimuth 277.45 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-Jackson #5-18-18 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3500.00	40.24	285.760	3211.29	278.51N	986.99W	==>	1014.78	1386410.20	3226722.23
3600.00	40.24	285.760	3287.62	296.05N	1049.17W	==>	1078.70	1386427.74	3226660.06
3700.00	40.24	285.760	3363.95	313.60N	1111.34W	==>	1142.63	1386445.28	3226597.89
3800.00	40.24	285.760	3440.28	331.14N	1173.52W	==>	1206.55	1386462.83	3226535.71
3900.00	40.24	285.760	3516.61	348.69N	1235.69W	==>	1270.48	1386480.37	3226473.54
4000.00	40.24	285.760	3592.94	366.23N	1297.87W	==>	1334.40	1386497.92	3226411.37
4100.00	40.24	285.760	3669.27	383.77N	1360.04W	==>	1398.33	1386515.46	3226349.19
4200.00	40.24	285.760	3745.60	401.32N	1422.22W	==>	1462.26	1386533.00	3226287.02
4300.00	40.24	285.760	3821.94	418.86N	1484.39W	==>	1526.18	1386550.55	3226224.85
4400.00	40.24	285.760	3898.27	436.41N	1546.57W	==>	1590.11	1386568.09	3226162.68
4500.00	40.24	285.760	3974.60	453.95N	1608.74W	==>	1654.03	1386585.63	3226100.50
4600.00	40.24	285.760	4050.93	471.50N	1670.92W	==>	1717.96	1386603.18	3226038.33
4700.00	40.24	285.760	4127.26	489.04N	1733.09W	==>	1781.88	1386620.72	3225976.16
4800.00	40.24	285.760	4203.59	506.59N	1795.27W	==>	1845.81	1386638.27	3225913.99
4900.00	40.24	285.760	4279.92	524.13N	1857.44W	==>	1909.74	1386655.81	3225851.81
5000.00	40.24	285.760	4356.25	541.68N	1919.62W	==>	1973.66	1386673.35	3225789.64
5100.00	40.24	285.760	4432.58	559.22N	1981.80W	==>	2037.59	1386690.90	3225727.47
5200.00	40.24	285.760	4508.91	576.76N	2043.97W	==>	2101.51	1386708.44	3225665.29
5300.00	40.24	285.760	4585.25	594.31N	2106.15W	==>	2165.44	1386725.99	3225603.12
5400.00	40.24	285.760	4661.58	611.85N	2168.32W	==>	2229.36	1386743.53	3225540.95
5500.00	40.24	285.760	4737.91	629.40N	2230.50W	==>	2293.29	1386761.07	3225478.78
5600.00	40.24	285.760	4814.24	646.94N	2292.67W	==>	2357.22	1386778.62	3225416.60
5700.00	40.24	285.760	4890.57	664.49N	2354.85W	==>	2421.14	1386796.16	3225354.43
5800.00	40.24	285.760	4966.90	682.03N	2417.02W	==>	2485.07	1386813.70	3225292.26
5900.00	40.24	285.760	5043.23	699.58N	2479.20W	==>	2548.99	1386831.25	3225230.09
6000.00	40.24	285.760	5119.56	717.12N	2541.37W	==>	2612.92	1386848.79	3225167.91
6100.00	40.24	285.760	5195.89	734.67N	2603.55W	==>	2676.84	1386866.34	3225105.74
6200.00	40.24	285.760	5272.22	752.21N	2665.72W	==>	2740.77	1386883.88	3225043.57
6300.00	40.24	285.760	5348.55	769.75N	2727.90W	==>	2804.70	1386901.42	3224981.39
6400.00	40.24	285.760	5424.89	787.30N	2790.07W	==>	2868.62	1386918.97	3224919.22
6500.00	40.24	285.760	5501.22	804.84N	2852.25W	==>	2932.55	1386936.51	3224857.05
6600.00	40.24	285.760	5577.55	822.39N	2914.43W	==>	2996.47	1386954.05	3224794.88
6700.00	40.24	285.760	5653.88	839.93N	2976.60W	==>	3060.40	1386971.60	3224732.70
6800.00	40.24	285.760	5730.21	857.48N	3038.78W	==>	3124.32	1386989.14	3224670.53
6900.00	40.24	285.760	5806.54	875.02N	3100.95W	==>	3188.25	1387006.69	3224608.36
7000.00	40.24	285.760	5882.87	892.57N	3163.13W	==>	3252.18	1387024.23	3224546.19
7100.00	40.24	285.760	5959.20	910.11N	3225.30W	==>	3316.10	1387041.77	3224484.01
7200.00	40.24	285.760	6035.53	927.66N	3287.48W	==>	3380.03	1387059.32	3224421.84
7300.00	40.24	285.760	6111.86	945.20N	3349.65W	==>	3443.95	1387076.86	3224359.67
7400.00	40.24	285.760	6188.20	962.74N	3411.83W	==>	3507.88	1387094.41	3224297.49
7500.00	40.24	285.760	6264.53	980.29N	3474.00W	==>	3571.80	1387111.95	3224235.32
7600.00	40.24	285.760	6340.86	997.83N	3536.18W	==>	3635.73	1387129.49	3224173.15
7700.00	40.24	285.760	6417.19	1015.38N	3598.35W	==>	3699.66	1387147.04	3224110.98
7800.00	40.24	285.760	6493.52	1032.92N	3660.53W	==>	3763.58	1387164.58	3224048.80
7900.00	40.24	285.760	6569.85	1050.47N	3722.70W	==>	3827.51	1387182.12	3223986.63
8000.00	40.24	285.760	6646.18	1068.01N	3784.88W	==>	3891.43	1387199.67	3223924.46
8093.44	40.24	285.760	6717.51	1084.41N	3842.98W	==>	3951.17	1387216.06	3223866.36
8100.00	40.67	285.510	6722.50	1085.55N	3847.08W	7.00	3955.38	1387217.21	3223862.27
8200.00	47.30	282.250	6794.42	1102.09N	3914.47W	7.00	4024.35	1387233.74	3223794.88
8300.00	54.00	279.620	6857.79	1116.66N	3990.35W	7.00	4101.48	1387248.31	3223719.00
8400.00	60.75	277.400	6911.69	1129.05N	4073.60W	7.00	4185.63	1387260.71	3223635.76
8500.00	67.52	275.460	6955.29	1139.09N	4162.96W	7.00	4275.54	1387270.74	3223546.40
8600.00	74.33	273.710	6987.96	1146.61N	4257.11W	7.00	4369.87	1387278.26	3223452.25
8700.00	81.14	272.060	7009.19	1151.51N	4354.64W	7.00	4467.21	1387283.16	3223354.72
8800.00	87.96	270.480	7018.69	1153.71N	4454.10W	7.00	4566.12	1387285.36	3223255.27
8829.91	90.00	270.010	7019.22	1153.84N	4484.01W	7.00	4595.79	1387285.49	3223225.36
8900.00	90.00	270.010	7019.22	1153.85N	4554.09W	==>	4665.28	1387285.51	3223155.28
9000.00	90.00	270.010	7019.22	1153.87N	4654.09W	==>	4764.44	1387285.53	3223055.28
9100.00	90.00	270.010	7019.22	1153.90N	4754.09W	==>	4863.60	1387285.55	3222955.29
9200.00	90.00	270.010	7019.22	1153.92N	4854.09W	==>	4962.76	1387285.57	3222855.29
9300.00	90.00	270.010	7019.22	1153.94N	4954.09W	==>	5061.92	1387285.59	3222755.29
9400.00	90.00	270.010	7019.22	1153.96N	5054.09W	==>	5161.07	1387285.61	3222655.30

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4674.2ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 277.450 degrees
Bottom hole distance is 8903.17 Feet on azimuth 277.45 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-Jackson #5-18-18 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9500.00	90.00	270.010	7019.22	1153.98N	5154.09W	==>	5260.23	1387285.63	3222555.30
9600.00	90.00	270.010	7019.22	1154.00N	5254.09W	==>	5359.39	1387285.66	3222455.31
9700.00	90.00	270.010	7019.22	1154.02N	5354.09W	==>	5458.55	1387285.68	3222355.31
9800.00	90.00	270.010	7019.22	1154.05N	5454.09W	==>	5557.71	1387285.70	3222255.32
9900.00	90.00	270.010	7019.22	1154.07N	5554.09W	==>	5656.86	1387285.72	3222155.32
10000.00	90.00	270.010	7019.22	1154.09N	5654.09W	==>	5756.02	1387285.74	3222055.32
10100.00	90.00	270.010	7019.22	1154.11N	5754.09W	==>	5855.18	1387285.76	3221955.33
10200.00	90.00	270.010	7019.22	1154.13N	5854.09W	==>	5954.34	1387285.78	3221855.33
10300.00	90.00	270.010	7019.22	1154.15N	5954.09W	==>	6053.50	1387285.80	3221755.34
10400.00	90.00	270.010	7019.22	1154.17N	6054.09W	==>	6152.65	1387285.83	3221655.34
10500.00	90.00	270.010	7019.22	1154.20N	6154.09W	==>	6251.81	1387285.85	3221555.34
10600.00	90.00	270.010	7019.22	1154.22N	6254.09W	==>	6350.97	1387285.87	3221455.35
10700.00	90.00	270.010	7019.22	1154.24N	6354.09W	==>	6450.13	1387285.89	3221355.35
10800.00	90.00	270.010	7019.22	1154.26N	6454.09W	==>	6549.29	1387285.91	3221255.36
10900.00	90.00	270.010	7019.22	1154.28N	6554.09W	==>	6648.44	1387285.93	3221155.36
11000.00	90.00	270.010	7019.22	1154.30N	6654.09W	==>	6747.60	1387285.95	3221055.37
11100.00	90.00	270.010	7019.22	1154.32N	6754.09W	==>	6846.76	1387285.98	3220955.37
11200.00	90.00	270.010	7019.22	1154.34N	6854.09W	==>	6945.92	1387286.00	3220855.37
11300.00	90.00	270.010	7019.22	1154.37N	6954.09W	==>	7045.08	1387286.02	3220755.38
11400.00	90.00	270.010	7019.22	1154.39N	7054.09W	==>	7144.23	1387286.04	3220655.38
11500.00	90.00	270.010	7019.22	1154.41N	7154.09W	==>	7243.39	1387286.06	3220555.39
11600.00	90.00	270.010	7019.22	1154.43N	7254.09W	==>	7342.55	1387286.08	3220455.39
11700.00	90.00	270.010	7019.22	1154.45N	7354.09W	==>	7441.71	1387286.10	3220355.40
11800.00	90.00	270.010	7019.22	1154.47N	7454.09W	==>	7540.87	1387286.12	3220255.40
11900.00	90.00	270.010	7019.22	1154.49N	7554.09W	==>	7640.03	1387286.15	3220155.40
12000.00	90.00	270.010	7019.22	1154.52N	7654.09W	==>	7739.18	1387286.17	3220055.41
12100.00	90.00	270.010	7019.22	1154.54N	7754.09W	==>	7838.34	1387286.19	3219955.41
12200.00	90.00	270.010	7019.22	1154.56N	7854.09W	==>	7937.50	1387286.21	3219855.42
12300.00	90.00	270.010	7019.22	1154.58N	7954.09W	==>	8036.66	1387286.23	3219755.42
12400.00	90.00	270.010	7019.22	1154.60N	8054.09W	==>	8135.82	1387286.25	3219655.42
12500.00	90.00	270.010	7019.22	1154.62N	8154.09W	==>	8234.97	1387286.27	3219555.43
12600.00	90.00	270.010	7019.22	1154.64N	8254.09W	==>	8334.13	1387286.30	3219455.43
12700.00	90.00	270.010	7019.22	1154.66N	8354.09W	==>	8433.29	1387286.32	3219355.44
12800.00	90.00	270.010	7019.22	1154.69N	8454.09W	==>	8532.45	1387286.34	3219255.44
12900.00	90.00	270.010	7019.22	1154.71N	8554.09W	==>	8631.61	1387286.36	3219155.45
13000.00	90.00	270.010	7019.22	1154.73N	8654.09W	==>	8730.76	1387286.38	3219055.45
13100.00	90.00	270.010	7019.22	1154.75N	8754.09W	==>	8829.92	1387286.40	3218955.45
13173.87	90.00	270.010	7019.22	1154.77N	8827.96W	==>	8903.17	1387286.42	3218881.59

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Bottom hole distance is 8903.17 Feet on azimuth 277.45 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-Jackson #5-18-18 (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	900.00	0.00N	0.00E
8 3/4	900.00	900.00	0.00N	0.00E	8829.00	7019.22	1153.84N	4483.09W
6 1/8	8829.00	7019.22	1153.84N	4483.09W	13173.87	7019.22	1154.77N	8827.96W

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	900.00	0.00N	0.00E
7.0in Intermediate Casing	0.00	0.00	0.00N	0.00E	8829.00	7019.22	1153.84N	4483.09W
4 1/2in Production Liner	8629.00	6995.31	1148.30N	4285.11W	13173.87	7019.22	1154.77N	8827.96W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
SG63	1153.84N	4484.01W	7019.22	40.39373134	-104.69856567	1387285.49	3223225.36	17-Mar-2014
SG64	1154.77N	8827.96W	7019.22	40.39384060	-104.71416003	1387286.42	3218881.59	17-Mar-2014

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
64125	Planned	13173.87	7019.22	WdW Rate Gyro	Standard	

Notes

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: GP-Jackson #5-18-18 (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-Jackson #5-18-18 (PWB)	19-Sep-2013	20-Mar-2014

Well		
Name	Government ID	Last Revised
GP-Jackson #5-18-18		20-Mar-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #40	1386131.7010	3227709.1790	40.39045195	-104.68250674	363.46S	377.38W

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Mineral Resources MRI	3228086.5450	1386495.1419	CO83-NF on NAD83 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
Wattenberg	3211772.6087	1400656.3763	CO83-NF on NAD83 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-Jackson #4-18-18	GP-Jackson #4-18-18 (PWB)	Slot #39	Mineral Resources MRI	11.51	1089.11	13173.87	9.46	1099.08	2.52	13173.87
GP-Hillside #1-18-18	GP-Hillside #1-18-18 (PWB)	Slot #41	Mineral Resources MRI	13.00	951.44	13170.01	11.46	967.85	2.52	13170.01
GP-Jackson #3-18-18	GP-Jackson #3-18-18 (PWB)	Slot #38	Mineral Resources MRI	23.77	1067.30	13173.87	21.76	1067.30	4.20	13173.87
GP-Hillside #2-19-19	GP-Hillside #2-19-19 (PWB)	Slot #42	Mineral Resources MRI	24.74	643.17	3641.73	23.69	656.17	4.22	13172.57
GP-Jackson #2-18-18	GP-Jackson #2-18-18 (PWB)	Slot #37	Mineral Resources MRI	36.00	850.45	13173.87	34.23	850.45	6.45	13173.87
GP-Hillside #3-19-19	GP-Hillside #3-19-19 (PWB)	Slot #43	Mineral Resources MRI	36.93	820.21	820.21	35.59	836.61	6.58	13172.57
GP-Jackson #1-18-18	GP-Jackson #1-18-18 (PWB)	Slot #36	Mineral Resources MRI	48.00	700.20	700.20	46.47	700.20	17.56	7217.85
GP-JEvans #1-19-19	GP-JEvans #1-19-19 (PWB)	Slot #44	Mineral Resources MRI	49.01	885.83	885.83	47.54	951.44	19.33	4232.28
Ehrlich Motors #D8	Ehrlich Motors #D8 (AWB)	Ehrlich Motors #D8	Mineral Resources MRI	54.56	3225.02	3225.02	24.44	3215.22	1.81	3215.22
GP-Alles #3-18-18	GP-Alles #3-18-18 (PWB)	Slot #35	Mineral Resources MRI	60.00	525.25	525.25	58.75	525.25	21.36	6348.43

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Wellbore: GP-Jackson #5-18-18 (PWB)

Clearance Summary										
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GP-JEvans #2-19-19	GP-JEvans #2-19-19 (PWB)	Slot #45	Mineral Resources MRI	61.00	351.64	351.64	60.40	410.10	23.17	5905.51
GP-Alles #2-18-18	GP-Alles #2-18-18 (PWB)	Slot #34	Mineral Resources MRI	72.00	475.72	475.72	70.84	475.72	29.86	5003.28
GP-JEvans #3-19-19	GP-JEvans #3-19-19 (PWB)	Slot #46	Mineral Resources MRI	73.00	551.98	551.98	72.10	590.55	28.71	5118.11
CDOT-1 #E2	CDOT-1 #E2 (AWB)	CDOT-1 #E2	Mineral Resources MRI	84.39	2992.37	2992.37	59.05	3034.78	3.15	3067.59
GP-JEvans 4-19-19	GP-JEvans 4-19-19 (PWB)	Slot #47	Mineral Resources MRI	85.00	752.28	752.28	83.79	787.40	34.15	4675.20
GP-JEvans #5-19-19	GP-JEvans #5-19-19 (PWB)	Slot #48	Mineral Resources MRI	97.00	200.00	200.00	96.68	229.66	44.58	3953.41
GP-Double Clutch #1-19-19	GP-Double Clutch #1-19-19 (PWB)	Slot #49	Mineral Resources MRI	109.00	252.09	252.09	108.60	252.09	50.74	3707.35
GP-Double Clutch #2-19-19	GP-Double Clutch #2-19-19 (PWB)	Slot #50	Mineral Resources MRI	121.01	951.44	951.44	119.46	967.85	58.62	1492.78
GP-Double Clutch #3-19-19	GP-Double Clutch #3-19-19 (PWB)	Slot #51	Mineral Resources MRI	133.01	902.23	902.23	131.56	902.23	77.54	1250.00
CDOT-2 #D7	CDOT-2 #D7 (AWB)	CDOT-2 #D7	Mineral Resources MRI	133.83	541.34	3138.46	118.22	3149.61	4.88	3198.82
CDOT-3 #D2	CDOT-3 #D2 (AWB)	CDOT-3 #D2	Mineral Resources MRI	144.20	1335.59	1335.59	139.19	1345.14	24.89	1673.23
GP-Dairy #1-19-19	GP-Dairy #1-19-19 (PWB)	Slot #52	Mineral Resources MRI	145.01	801.80	801.80	143.72	801.80	89.54	1213.91
Sunnyview #E4	Sunnyview #E4 (AWB)	Sunnyview #E4	Mineral Resources MRI	156.77	923.64	923.64	153.06	935.04	18.69	4363.52
GP-Dairy #2-19-20	GP-Dairy #2-19-20 (PWB)	Slot #53	Mineral Resources MRI	157.01	751.66	751.66	155.80	751.66	99.44	1197.51
GP-Dairy #3-19-20	GP-Dairy #3-19-20 (PWB)	Slot #54	Mineral Resources MRI	169.01	701.61	701.61	167.88	701.61	109.71	1197.51
Sleep Inn #E5	Sleep Inn #E5 (AWB)	Sleep Inn #E5	Mineral Resources MRI	176.68	0.00	0.00	176.46	49.21	20.25	4133.86
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #55	Mineral Resources MRI	181.01	651.55	651.55	179.96	651.55	120.49	1213.91
Tri Point #E3	Tri Point #E3 (AWB)	Tri Point #E3	Mineral Resources MRI	191.50	812.37	3112.46	188.23	820.21	11.50	3838.58

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Wellbore: GP-Jackson #5-18-18 (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]
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #56	Mineral Resources MRI	193.01	601.53	601.53	192.04	601.53	131.58	1279.53
GP-Library #1-19-20	GP-Library #1-19-20 (PWB)	Slot #57	Mineral Resources MRI	205.01	551.52	551.52	203.72	551.52	121.64	918.64
University Square #D6	University Square #D6 (AWB)	University Square #D6	Mineral Resources MRI	237.99	5364.17	5712.03	150.67	5741.47	2.69	5757.87
Garden City #D5	Garden City #D5 (AWB)	Garden City #D5	Mineral Resources MRI	279.75	13.22	703.72	278.88	246.06	18.60	3034.78
University 5 Spot #D4	University 5 Spot #D4 (AWB)	University 5 Spot #D4	Mineral Resources MRI	337.14	262.47	3954.58	336.48	262.47	9.05	6578.08
Wheeler #D3	Wheeler #D3 (AWB)	Wheeler #D3	Mineral Resources MRI	345.21	223.31	223.31	344.48	246.06	25.80	3559.71
Driftwood #D1	Driftwood #D1 (AWB)	Driftwood #D1	Mineral Resources MRI	354.71	0.00	360.89	354.26	377.30	24.56	4019.03
Classic Lanes #C9	Classic Lanes #C9 (AWB)	Classic Lanes #C9	Mineral Resources MRI	357.96	0.00	0.00	357.52	147.64	29.29	3280.84
Commerce Center 4 #20-2H5	Commerce Center 4 #20-2H5 (AWB)	Commerce Center 4 #20-2H5	MRI Offsets	361.74	2045.75	2045.75	356.05	2050.52	57.38	2362.20
District Six #C6	District Six #C6 (AWB)	District Six #C6	Mineral Resources MRI	369.36	240.20	240.20	368.68	240.20	89.90	2099.74
Volk #C7	Volk #C7 (AWB)	Volk #C7	Mineral Resources MRI	370.31	0.22	553.37	370.12	49.21	50.92	2690.29
Union Pacific #C5	Union Pacific #C5 (AWB)	Union Pacific #C5	Mineral Resources MRI	379.74	180.45	180.45	379.11	180.45	97.96	2116.14
HWY 85-3 #C4	HWY 85-3 #C4 (AWB)	HWY 85-3 #C4	Mineral Resources MRI	393.06	131.23	131.23	392.66	147.64	103.25	2230.97
Countryside Center #C3	Countryside Center #C3 (AWB)	Countryside Center #C3	Mineral Resources MRI	398.50	2.22	2.22	398.41	32.81	122.21	1837.27
GG-Toddys #1-13-12	GG-Toddys #1-13-12 (PWB)	Slot #9	Gallery Green, Rev. 01	483.74	13173.87	13173.87	448.45	13173.87	13.71	13173.87
BMC #B8	BMC #B8 (AWB)	BMC #B8	Mineral Resources MRI	523.94	2.22	951.44	523.21	147.64	38.30	3641.73
Greeley Industrial South #B9	Greeley Industrial South #B9 (AWB)	Greeley Industrial South #B9	Mineral Resources MRI	542.43	602.22	602.22	541.18	623.36	51.88	2821.52
Millers Green House #A10	Millers Green House #A10 (AWB)	Millers Green House #A10	Mineral Resources MRI	554.08	4.22	4.22	553.20	246.06	171.37	1935.70

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Clearance Summary										
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Riverview #A9	Riverview #A9 (AWB)	Riverview #A9	Mineral Resources MRI	555.32	502.21	502.21	553.34	502.21	189.97	1853.67
Shupe 5 Spot #B10	Shupe 5 Spot #B10 (AWB)	Shupe 5 Spot #B10	Mineral Resources MRI	561.65	951.44	951.44	559.92	951.44	83.83	2750.00
HWY 34-2 #A8	HWY 34-2 #A8 (AWB)	HWY 34-2 #A8	Mineral Resources MRI	563.55	3.22	3.22	562.87	131.23	212.84	1935.70
HWY 34-1 #A7	HWY 34-1 #A7 (AWB)	HWY 34-1 #A7	Mineral Resources MRI	570.14	3.22	3.22	569.23	200.00	198.22	1788.06
Highway 85-2 #B-11	Highway 85-2 #B-11 (AWB)	Highway 85-2 #B-11	Mineral Resources MRI	580.39	324.72	324.72	579.27	324.72	100.04	2198.16
Highway 85-1 #B12	Highway 85-1 #B12 (AWB)	Highway 85-1 #B12	Mineral Resources MRI	600.75	951.44	951.44	599.01	951.44	199.96	2657.48
Sam Pak #A6	Sam Pak #A6 (AWB)	Sam Pak #A6	Mineral Resources MRI	602.64	6.22	6.22	601.69	311.68	247.34	1788.06
Bus Barn #A5	Bus Barn #A5 (AWB)	Bus Barn #A5	Mineral Resources MRI	608.60	6.22	6.22	607.63	300.00	153.31	1870.08
Smith 5 Spot #A4	Smith 5 Spot #A4 (AWB)	Smith 5 Spot #A4	Mineral Resources MRI	619.39	5.22	5.22	618.60	180.45	206.35	1984.91
Parkview South #A3	Parkview South #A3 (AWB)	Parkview South #A3	Mineral Resources MRI	631.02	6.22	6.22	630.46	147.64	237.63	1722.44
Delta Park #A2	Delta Park #A2 (AWB)	Delta Park #A2	Mineral Resources MRI	639.22	206.22	206.22	638.45	206.22	152.48	1738.85
Clark #A1	Clark #A1 (AWB)	Clark #A1	Mineral Resources MRI	652.36	6.22	6.22	651.51	229.66	97.19	2411.42
Commerce Center 3 #20-1H5	Commerce Center 3 #20-1H5 (AWB)	Commerce Center 3 #20-1H5	MRI Offsets	735.32	845.21	845.21	732.60	951.44	193.51	2066.93
GG-Toddys #2-13-12	GG-Toddys #2-13-12 (PWB)	Slot #8	Gallery Green, Rev. 01	797.42	13173.87	13173.87	759.18	13173.87	20.85	13173.87