

MINERAL RESOURCES, INC.

Location	Windsor	Slot	Slot #42
Field	Wattenberg	Well	GP-Hillside #2-19-19
Installation	Mineral Resources MRI	Wellbore	GP-Hillside #2-19-19 (PWB)

East (feet) ->

Scale 1 cm = 800 ft

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

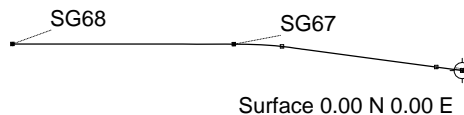
3200

1600
0
-1600
V- North(feet)

Scale 1 cm = 800 ft

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	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
End of Build	2240.81	34.82	277.63	2135.64	68.08	-508.30	2.00	511.42
End of Hold	7585.27	34.82	277.63	6523.37	473.13	-3532.69	0.00	3554.41
Target SG67	8695.96	90.00	270.01	7018.70	518.98	-4477.45	5.00	4500.23
T.D. & Target SG68	13039.17	90.00	270.01	7018.70	519.91	-8820.66	0.00	8835.97



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

3DS Kick off Point - 0.00 Inc, 500.00 MD, 500.00 TVD, 0.00 VS

9 5/8in Surface Casing

End of Build - 34.82 Inc, 2240.81 MD, 2135.64 TVD, 511.42 VS

End of Hold - 34.82 Inc, 7585.27 MD, 6523.37 TVD, 3554.41 VS

7.0in Intermediate Casing

SG68

4 1/2in Production Liner

S/C Kick off Point - 90.00 Inc, 8695.96 MD, 7018.70 TVD, 4500.23 VS

SG67

T.D. & End of Hold - 7018.70 TVD, 519.91 N 8820.66 W

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

Scale 1 cm = 400 ft

Vertical Section (feet) ->

Azimuth 273.37 with reference 0.00 N, 0.00 E from Slot #42

Created by admin
Date plotted 21-Mar-2014
Plot reference is GP-Hillside #2-19-19 (PWB).
Ref wellpath is MRi-Hillside #2-19-19 (PWP#1).
Coordinates are in feet reference Slot #42.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4673.70 ft.
Plot North is aligned to GRID North.



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: GP-Hillside #2-19-19 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #42	1386106.7020	3227709.4560	40.39038332	-104.68250658	388.46S	377.10W	1.70

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	1386106.70	3227709.46
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
2240.81	34.82	277.630	2135.64	68.08N	508.30W	2.00	511.42	1386174.77	3227201.18
7585.27	34.82	277.630	6523.37	473.13N	3532.69W	==>	3554.41	1386579.81	3224176.92
8695.96	90.00	270.010	7018.70	518.98N	4477.45W	5.00	4500.23	1386625.67	3223232.20
13039.17	90.00	270.010	7018.70	519.91N	8820.66W	==>	8835.97	1386626.59	3218889.17

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	1386106.70	3227709.46
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1386106.70	3227709.46
600.00	2.00	277.630	599.98	0.23N	1.73W	2.00	1.74	1386106.93	3227707.73
700.00	4.00	277.630	699.84	0.93N	6.92W	2.00	6.96	1386107.63	3227702.54
800.00	6.00	277.630	799.45	2.08N	15.55W	2.00	15.65	1386108.79	3227693.90
900.00	8.00	277.630	898.70	3.70N	27.63W	2.00	27.80	1386110.40	3227681.82
1000.00	10.00	277.630	997.47	5.78N	43.14W	2.00	43.40	1386112.48	3227666.32
1100.00	12.00	277.630	1095.62	8.31N	62.05W	2.00	62.43	1386115.01	3227647.41
1200.00	14.00	277.630	1193.06	11.30N	84.34W	2.00	84.86	1386118.00	3227625.12
1300.00	16.00	277.630	1289.64	14.73N	109.99W	2.00	110.67	1386121.43	3227599.47
1400.00	18.00	277.630	1385.27	18.61N	138.97W	2.00	139.83	1386125.31	3227570.49
1500.00	20.00	277.630	1479.82	22.93N	171.24W	2.00	172.29	1386129.63	3227538.22
1600.00	22.00	277.630	1573.17	27.69N	206.76W	2.00	208.03	1386134.39	3227502.71
1700.00	24.00	277.630	1665.21	32.88N	245.48W	2.00	246.99	1386139.58	3227463.98
1800.00	26.00	277.630	1755.84	38.49N	287.37W	2.00	289.13	1386145.19	3227422.10
1900.00	28.00	277.630	1844.94	44.51N	332.36W	2.00	334.41	1386151.21	3227377.11
2000.00	30.00	277.630	1932.39	50.95N	380.41W	2.00	382.75	1386157.65	3227329.06
2100.00	32.00	277.630	2018.11	57.78N	431.46W	2.00	434.11	1386164.48	3227278.02
2200.00	34.00	277.630	2101.97	65.01N	485.44W	2.00	488.42	1386171.71	3227224.04
2240.81	34.82	277.630	2135.64	68.08N	508.30W	2.00	511.42	1386174.77	3227201.18
2300.00	34.82	277.630	2184.23	72.56N	541.79W	==>	545.12	1386179.26	3227167.69
2400.00	34.82	277.630	2266.33	80.14N	598.38W	==>	602.06	1386186.84	3227111.10
2500.00	34.82	277.630	2348.43	87.72N	654.97W	==>	658.99	1386194.42	3227054.52
2600.00	34.82	277.630	2430.53	95.30N	711.56W	==>	715.93	1386202.00	3226997.93
2700.00	34.82	277.630	2512.63	102.88N	768.15W	==>	772.87	1386209.57	3226941.34
2800.00	34.82	277.630	2594.73	110.46N	824.74W	==>	829.81	1386217.15	3226884.75
2900.00	34.82	277.630	2676.83	118.04N	881.33W	==>	886.74	1386224.73	3226828.17
3000.00	34.82	277.630	2758.92	125.61N	937.91W	==>	943.68	1386232.31	3226771.58
3100.00	34.82	277.630	2841.02	133.19N	994.50W	==>	1000.62	1386239.89	3226714.99
3200.00	34.82	277.630	2923.12	140.77N	1051.09W	==>	1057.56	1386247.47	3226658.41
3300.00	34.82	277.630	3005.22	148.35N	1107.68W	==>	1114.49	1386255.05	3226601.82
3400.00	34.82	277.630	3087.32	155.93N	1164.27W	==>	1171.43	1386262.63	3226545.23
3500.00	34.82	277.630	3169.42	163.51N	1220.86W	==>	1228.37	1386270.20	3226488.65

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 4673.7ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 273.370 degrees
Bottom hole distance is 8835.97 Feet on azimuth 273.37 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-Hillside #2-19-19 (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	34.82	277.630	3251.52	171.09N	1277.45W	==>	1285.30	1386277.78	3226432.06
3700.00	34.82	277.630	3333.62	178.67N	1334.04W	==>	1342.24	1386285.36	3226375.47
3800.00	34.82	277.630	3415.71	186.25N	1390.63W	==>	1399.18	1386292.94	3226318.88
3900.00	34.82	277.630	3497.81	193.82N	1447.22W	==>	1456.12	1386300.52	3226262.30
4000.00	34.82	277.630	3579.91	201.40N	1503.81W	==>	1513.05	1386308.10	3226205.71
4100.00	34.82	277.630	3662.01	208.98N	1560.40W	==>	1569.99	1386315.68	3226149.12
4200.00	34.82	277.630	3744.11	216.56N	1616.99W	==>	1626.93	1386323.25	3226092.54
4300.00	34.82	277.630	3826.21	224.14N	1673.58W	==>	1683.87	1386330.83	3226035.95
4400.00	34.82	277.630	3908.31	231.72N	1730.17W	==>	1740.80	1386338.41	3225979.36
4500.00	34.82	277.630	3990.41	239.30N	1786.76W	==>	1797.74	1386345.99	3225922.78
4600.00	34.82	277.630	4072.50	246.88N	1843.34W	==>	1854.68	1386353.57	3225866.19
4700.00	34.82	277.630	4154.60	254.46N	1899.93W	==>	1911.61	1386361.15	3225809.60
4800.00	34.82	277.630	4236.70	262.04N	1956.52W	==>	1968.55	1386368.73	3225753.01
4900.00	34.82	277.630	4318.80	269.61N	2013.11W	==>	2025.49	1386376.31	3225696.43
5000.00	34.82	277.630	4400.90	277.19N	2069.70W	==>	2082.43	1386383.88	3225639.84
5100.00	34.82	277.630	4483.00	284.77N	2126.29W	==>	2139.36	1386391.46	3225583.25
5200.00	34.82	277.630	4565.10	292.35N	2182.88W	==>	2196.30	1386399.04	3225526.67
5300.00	34.82	277.630	4647.20	299.93N	2239.47W	==>	2253.24	1386406.62	3225470.08
5400.00	34.82	277.630	4729.29	307.51N	2296.06W	==>	2310.18	1386414.20	3225413.49
5500.00	34.82	277.630	4811.39	315.09N	2352.65W	==>	2367.11	1386421.78	3225356.91
5600.00	34.82	277.630	4893.49	322.67N	2409.24W	==>	2424.05	1386429.36	3225300.32
5700.00	34.82	277.630	4975.59	330.25N	2465.83W	==>	2480.99	1386436.93	3225243.73
5800.00	34.82	277.630	5057.69	337.83N	2522.42W	==>	2537.92	1386444.51	3225187.15
5900.00	34.82	277.630	5139.79	345.40N	2579.01W	==>	2594.86	1386452.09	3225130.56
6000.00	34.82	277.630	5221.89	352.98N	2635.60W	==>	2651.80	1386459.67	3225073.97
6100.00	34.82	277.630	5303.98	360.56N	2692.19W	==>	2708.74	1386467.25	3225017.38
6200.00	34.82	277.630	5386.08	368.14N	2748.77W	==>	2765.67	1386474.83	3224960.80
6300.00	34.82	277.630	5468.18	375.72N	2805.36W	==>	2822.61	1386482.41	3224904.21
6400.00	34.82	277.630	5550.28	383.30N	2861.95W	==>	2879.55	1386489.98	3224847.62
6500.00	34.82	277.630	5632.38	390.88N	2918.54W	==>	2936.49	1386497.56	3224791.04
6600.00	34.82	277.630	5714.48	398.46N	2975.13W	==>	2993.42	1386505.14	3224734.45
6700.00	34.82	277.630	5796.58	406.04N	3031.72W	==>	3050.36	1386512.72	3224677.86
6800.00	34.82	277.630	5878.68	413.61N	3088.31W	==>	3107.30	1386520.30	3224621.28
6900.00	34.82	277.630	5960.77	421.19N	3144.90W	==>	3164.23	1386527.88	3224564.69
7000.00	34.82	277.630	6042.87	428.77N	3201.49W	==>	3221.17	1386535.46	3224508.10
7100.00	34.82	277.630	6124.97	436.35N	3258.08W	==>	3278.11	1386543.04	3224451.51
7200.00	34.82	277.630	6207.07	443.93N	3314.67W	==>	3335.05	1386550.61	3224394.93
7300.00	34.82	277.630	6289.17	451.51N	3371.26W	==>	3391.98	1386558.19	3224338.34
7400.00	34.82	277.630	6371.27	459.09N	3427.85W	==>	3448.92	1386565.77	3224281.75
7500.00	34.82	277.630	6453.37	466.67N	3484.44W	==>	3505.86	1386573.35	3224225.17
7585.27	34.82	277.630	6523.37	473.13N	3532.69W	==>	3554.41	1386579.81	3224176.92
7600.00	35.54	277.420	6535.41	474.24N	3541.10W	5.00	3562.87	1386580.92	3224168.50
7700.00	40.49	276.210	6614.17	481.51N	3602.24W	5.00	3624.33	1386588.20	3224107.37
7800.00	45.44	275.220	6687.33	488.27N	3670.03W	5.00	3692.41	1386594.95	3224039.58
7900.00	50.40	274.380	6754.32	494.46N	3743.98W	5.00	3766.58	1386601.14	3223965.64
8000.00	55.37	273.660	6814.64	500.04N	3823.50W	5.00	3846.30	1386606.72	3223886.12
8100.00	60.34	273.020	6867.83	504.96N	3908.00W	5.00	3930.94	1386611.64	3223801.62
8200.00	65.31	272.440	6913.49	509.19N	3996.83W	5.00	4019.87	1386615.87	3223712.79
8300.00	70.29	271.900	6951.26	512.69N	4089.33W	5.00	4112.41	1386619.37	3223620.30
8400.00	75.27	271.400	6980.85	515.43N	4184.77W	5.00	4207.85	1386622.11	3223524.86
8500.00	80.24	270.920	7002.06	517.41N	4282.45W	5.00	4305.47	1386624.09	3223427.19
8600.00	85.22	270.450	7014.70	518.60N	4381.60W	5.00	4404.53	1386625.28	3223328.04
8695.96	90.00	270.010	7018.70	518.98N	4477.45W	5.00	4500.23	1386625.67	3223232.20
8700.00	90.00	270.010	7018.70	518.99N	4481.49W	==>	4504.27	1386625.67	3223228.15
8800.00	90.00	270.010	7018.70	519.01N	4581.49W	==>	4604.09	1386625.69	3223128.16
8900.00	90.00	270.010	7018.70	519.03N	4681.49W	==>	4703.92	1386625.71	3223028.16
9000.00	90.00	270.010	7018.70	519.05N	4781.49W	==>	4803.75	1386625.73	3222928.17
9100.00	90.00	270.010	7018.70	519.07N	4881.49W	==>	4903.58	1386625.75	3222828.17
9200.00	90.00	270.010	7018.70	519.09N	4981.49W	==>	5003.41	1386625.77	3222728.17
9300.00	90.00	270.010	7018.70	519.11N	5081.49W	==>	5103.23	1386625.79	3222628.18
9400.00	90.00	270.010	7018.70	519.14N	5181.49W	==>	5203.06	1386625.82	3222528.18
9500.00	90.00	270.010	7018.70	519.16N	5281.49W	==>	5302.89	1386625.84	3222428.19

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Bottom hole distance is 8835.97 Feet on azimuth 273.37 degrees from Wellhead
Calculation method uses Minimum Curvature method
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SYSDRILL
Well Design Combined Report
Wellbore: GP-Hillside #2-19-19 (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	270.010	7018.70	519.18N	5381.49W	==>	5402.72	1386625.86	3222328.19
9700.00	90.00	270.010	7018.70	519.20N	5481.49W	==>	5502.55	1386625.88	3222228.19
9800.00	90.00	270.010	7018.70	519.22N	5581.49W	==>	5602.37	1386625.90	3222128.20
9900.00	90.00	270.010	7018.70	519.24N	5681.49W	==>	5702.20	1386625.92	3222028.20
10000.00	90.00	270.010	7018.70	519.26N	5781.49W	==>	5802.03	1386625.94	3221928.21
10100.00	90.00	270.010	7018.70	519.28N	5881.49W	==>	5901.86	1386625.96	3221828.21
10200.00	90.00	270.010	7018.70	519.31N	5981.49W	==>	6001.69	1386625.99	3221728.22
10300.00	90.00	270.010	7018.70	519.33N	6081.49W	==>	6101.51	1386626.01	3221628.22
10400.00	90.00	270.010	7018.70	519.35N	6181.49W	==>	6201.34	1386626.03	3221528.22
10500.00	90.00	270.010	7018.70	519.37N	6281.49W	==>	6301.17	1386626.05	3221428.23
10600.00	90.00	270.010	7018.70	519.39N	6381.49W	==>	6401.00	1386626.07	3221328.23
10700.00	90.00	270.010	7018.70	519.41N	6481.49W	==>	6500.83	1386626.09	3221228.24
10800.00	90.00	270.010	7018.70	519.43N	6581.49W	==>	6600.65	1386626.11	3221128.24
10900.00	90.00	270.010	7018.70	519.45N	6681.49W	==>	6700.48	1386626.13	3221028.25
11000.00	90.00	270.010	7018.70	519.48N	6781.49W	==>	6800.31	1386626.16	3220928.25
11100.00	90.00	270.010	7018.70	519.50N	6881.49W	==>	6900.14	1386626.18	3220828.25
11200.00	90.00	270.010	7018.70	519.52N	6981.49W	==>	6999.97	1386626.20	3220728.26
11300.00	90.00	270.010	7018.70	519.54N	7081.49W	==>	7099.79	1386626.22	3220628.26
11400.00	90.00	270.010	7018.70	519.56N	7181.49W	==>	7199.62	1386626.24	3220528.27
11500.00	90.00	270.010	7018.70	519.58N	7281.49W	==>	7299.45	1386626.26	3220428.27
11600.00	90.00	270.010	7018.70	519.60N	7381.49W	==>	7399.28	1386626.28	3220328.27
11700.00	90.00	270.010	7018.70	519.63N	7481.49W	==>	7499.11	1386626.31	3220228.28
11800.00	90.00	270.010	7018.70	519.65N	7581.49W	==>	7598.93	1386626.33	3220128.28
11900.00	90.00	270.010	7018.70	519.67N	7681.49W	==>	7698.76	1386626.35	3220028.29
12000.00	90.00	270.010	7018.70	519.69N	7781.49W	==>	7798.59	1386626.37	3219928.29
12100.00	90.00	270.010	7018.70	519.71N	7881.49W	==>	7898.42	1386626.39	3219828.30
12200.00	90.00	270.010	7018.70	519.73N	7981.49W	==>	7998.25	1386626.41	3219728.30
12300.00	90.00	270.010	7018.70	519.75N	8081.49W	==>	8098.07	1386626.43	3219628.30
12400.00	90.00	270.010	7018.70	519.77N	8181.49W	==>	8197.90	1386626.45	3219528.31
12500.00	90.00	270.010	7018.70	519.80N	8281.49W	==>	8297.73	1386626.48	3219428.31
12600.00	90.00	270.010	7018.70	519.82N	8381.49W	==>	8397.56	1386626.50	3219328.32
12700.00	90.00	270.010	7018.70	519.84N	8481.49W	==>	8497.39	1386626.52	3219228.32
12800.00	90.00	270.010	7018.70	519.86N	8581.49W	==>	8597.21	1386626.54	3219128.33
12900.00	90.00	270.010	7018.70	519.88N	8681.49W	==>	8697.04	1386626.56	3219028.33
13000.00	90.00	270.010	7018.70	519.90N	8781.49W	==>	8796.87	1386626.58	3218928.33
13039.17	90.00	270.010	7018.70	519.91N	8820.66W	==>	8835.97	1386626.59	3218889.17

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Vertical Section is from 0.00N 0.00E on azimuth 273.370 degrees
Bottom hole distance is 8835.97 Feet on azimuth 273.37 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-Hillside #2-19-19 (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	898.70	3.70N	27.63W
8 3/4	900.00	898.70	3.70N	27.63W	8695.00	7018.70	518.98N	4476.49W
6 1/8	8695.00	7018.70	518.98N	4476.49W	13039.17	7018.70	519.91N	8820.66W

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	898.70	3.70N	27.63W
7.0in Intermediate Casing	0.00	0.00	0.00N	0.00E	8695.00	7018.70	518.98N	4476.49W
4 1/2in Production Liner	8495.00	7001.20	517.33N	4277.52W	13039.17	7018.70	519.91N	8820.66W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
SG67	518.98N	4477.45W	7018.70	40.39192001	-104.69856254	1386625.67	3223232.20	17-Mar-2014
SG68	519.91N	8820.66W	7018.70	40.39202925	-104.71415381	1386626.59	3218889.17	17-Mar-2014

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
64174	Planned	13039.17	7018.70	WdW Rate Gyro	Standard	

Notes

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: GP-Hillside #2-19-19 (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-Hillside #2-19-19 (PWB)	19-Sep-2013	20-Mar-2014

Well		
Name	Government ID	Last Revised
GP-Hillside #2-19-19		20-Mar-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #42	1386106.7020	3227709.4560	40.39038332	-104.68250658	388.46S	377.10W

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-Hillside #1-18-18	GP-Hillside #1-18-18 (PWB)	Slot #41	Mineral Resources MRI	11.88	606.96	6348.45	10.90	606.96	2.53	13039.17
GP-Hillside #3-19-19	GP-Hillside #3-19-19 (PWB)	Slot #43	Mineral Resources MRI	12.00	508.53	508.53	11.17	541.34	2.62	13039.17
GP-JEvans #1-19-19	GP-JEvans #1-19-19 (PWB)	Slot #44	Mineral Resources MRI	24.00	508.53	508.53	23.17	541.34	4.34	13039.17
GP-Jackson #5-18-18	GP-Jackson #5-18-18 (PWB)	Slot #40	Mineral Resources MRI	24.74	643.34	3546.11	23.69	656.17	4.21	13039.17
GP-JEvans #2-19-19	GP-JEvans #2-19-19 (PWB)	Slot #45	Mineral Resources MRI	36.00	351.12	351.12	35.41	410.10	6.59	13039.17
GP-Jackson #4-18-18	GP-Jackson #4-18-18 (PWB)	Slot #39	Mineral Resources MRI	36.62	674.52	13039.17	35.12	688.98	6.45	13039.17
GP-JEvans #3-19-19	GP-JEvans #3-19-19 (PWB)	Slot #46	Mineral Resources MRI	48.00	508.53	508.53	47.17	541.34	19.17	6800.00
GP-Jackson #3-18-18	GP-Jackson #3-18-18 (PWB)	Slot #38	Mineral Resources MRI	48.49	705.38	705.38	46.95	721.78	23.50	6069.55
GP-JEvans 4-19-19	GP-JEvans 4-19-19 (PWB)	Slot #47	Mineral Resources MRI	60.00	508.53	508.53	59.17	541.34	24.12	5741.47
GP-Jackson	GP-Jackson	Slot #37	Mineral	60.37	724.12	724.12	58.78	738.19	23.91	5757.87

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Wellbore: GP-Hillside #2-19-19 (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]
n #2-18-18	#2-18-18 (PWB)		Resources MRI							
GP-JEvans #5-19-19	GP-JEvans #5-19-19 (PWB)	Slot #48	Mineral Resources MRI	72.00	200.00	200.00	71.68	229.66	30.23	4773.62
GP-Jackson #1-18-18	GP-Jackson #1-18-18 (PWB)	Slot #36	Mineral Resources MRI	72.33	721.78	721.78	70.76	721.78	26.74	4232.28
GP-Double Clutch #1-19-19	GP-Double Clutch #1-19-19 (PWB)	Slot #49	Mineral Resources MRI	84.00	251.57	251.57	83.60	251.57	35.06	4314.30
GP-Alles #3-18-18	GP-Alles #3-18-18 (PWB)	Slot #35	Mineral Resources MRI	84.99	524.93	524.93	83.73	557.74	30.17	3559.71
GP-Double Clutch #2-19-19	GP-Double Clutch #2-19-19 (PWB)	Slot #50	Mineral Resources MRI	96.01	508.53	508.53	95.17	541.34	53.43	4019.03
GP-Alles #2-18-18	GP-Alles #2-18-18 (PWB)	Slot #34	Mineral Resources MRI	97.01	475.72	475.72	95.84	475.72	38.58	4084.65
CDOT-1 #E2	CDOT-1 #E2 (AWB)	CDOT-1 #E2	Mineral Resources MRI	99.97	2378.61	2378.61	79.06	2362.20	4.75	2345.80
GP-Double Clutch #3-19-19	GP-Double Clutch #3-19-19 (PWB)	Slot #51	Mineral Resources MRI	108.01	508.53	508.53	107.17	541.34	72.49	1066.27
GP-Dairy #1-19-19	GP-Dairy #1-19-19 (PWB)	Slot #52	Mineral Resources MRI	120.01	508.53	508.53	119.17	541.34	80.99	1148.29
Sunnyview #E4	Sunnyview #E4 (AWB)	Sunnyview #E4	Mineral Resources MRI	130.97	1331.92	1331.92	123.00	1331.92	12.80	2969.16
GP-Dairy #2-19-20	GP-Dairy #2-19-20 (PWB)	Slot #53	Mineral Resources MRI	132.01	508.53	508.53	131.17	541.34	88.79	1148.29
GP-Dairy #3-19-20	GP-Dairy #3-19-20 (PWB)	Slot #54	Mineral Resources MRI	144.01	508.53	508.53	143.17	541.34	96.67	1263.12
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #55	Mineral Resources MRI	156.01	508.53	508.53	155.18	541.34	104.29	1361.55
CDOT-2 #D7	CDOT-2 #D7 (AWB)	CDOT-2 #D7	Mineral Resources MRI	158.71	567.63	567.63	156.59	600.00	12.31	2477.03
GP-Dairy #4-19-20	GP-Dairy #4-19-20 (PWB)	Slot #56	Mineral Resources MRI	168.01	508.53	508.53	167.18	541.34	111.18	1558.40
Tri Point #E3	Tri Point #E3 (AWB)	Tri Point #E3	Mineral Resources MRI	171.42	2810.50	2810.50	145.46	2887.14	5.40	3083.99
CDOT-3 #D2	CDOT-3 #D2 (AWB)	CDOT-3 #D2	Mineral Resources MRI	172.06	724.66	724.66	169.22	787.40	38.97	1345.14
GP-Library	GP-Library	Slot #57	Mineral	180.01	508.53	508.53	178.78	541.34	107.95	1345.14

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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]
#1-19-20	#1-19-20 (PWB)		Resources MRI							
Ehrlich Motors #D8	Ehrlich Motors #D8 (AWB)	Ehrlich Motors #D8	Mineral Resources MRI	187.09	1900.00	1900.00	176.16	1935.70	12.86	2542.65
Sleep Inn #E5	Sleep Inn #E5 (AWB)	Sleep Inn #E5	Mineral Resources MRI	201.36	0.00	0.00	201.15	49.21	26.51	3313.65
University Square #D6	University Square #D6 (AWB)	University Square #D6	Mineral Resources MRI	285.18	16.40	771.00	283.57	771.00	5.86	7234.25
Commerce Center 4 #20-2H5	Commerce Center 4 #20-2H5 (AWB)	Commerce Center 4 #20-2H5	MRI Offsets	303.75	1732.33	1732.33	298.14	1738.85	49.31	1968.50
Garden City #D5	Garden City #D5 (AWB)	Garden City #D5	Mineral Resources MRI	304.15	12.70	12.70	303.27	246.06	28.44	4543.96
University 5 Spot #D4	University 5 Spot #D4 (AWB)	University 5 Spot #D4	Mineral Resources MRI	360.42	262.47	262.47	359.76	262.47	15.75	4429.13
Wheeler #D3	Wheeler #D3 (AWB)	Wheeler #D3	Mineral Resources MRI	368.30	200.00	200.00	367.62	229.66	24.44	3166.01
Driftwood #D1	Driftwood #D1 (AWB)	Driftwood #D1	Mineral Resources MRI	377.15	0.00	350.09	376.88	49.21	33.37	3166.01
Classic Lanes #C9	Classic Lanes #C9 (AWB)	Classic Lanes #C9	Mineral Resources MRI	380.45	0.00	0.00	380.07	131.23	31.13	2821.52
District Six #C6	District Six #C6 (AWB)	District Six #C6	Mineral Resources MRI	391.44	229.66	229.66	390.78	229.66	80.00	2000.00
Volk #C7	Volk #C7 (AWB)	Volk #C7	Mineral Resources MRI	392.32	0.00	550.95	392.13	49.21	48.39	2444.23
Union Pacific #C5	Union Pacific #C5 (AWB)	Union Pacific #C5	Mineral Resources MRI	401.25	178.36	178.36	400.62	178.36	96.94	1952.10
HWY 85-3 #C4	HWY 85-3 #C4 (AWB)	HWY 85-3 #C4	Mineral Resources MRI	414.06	118.03	118.03	413.66	147.64	115.14	2001.31
Countrysid e Center #C3	Countryside Center #C3 (AWB)	Countryside Center #C3	Mineral Resources MRI	419.24	1.70	1.70	419.15	32.81	132.77	1673.23
GG-Toddys #1-13-12	GG-Toddys #1-13-12 (PWB)	Slot #9	Gallery Green, Rev. 01	485.24	13039.17	13039.17	456.91	13039.17	17.13	13039.17
BMC #B8	BMC #B8 (AWB)	BMC #B8	Mineral Resources MRI	541.39	1.70	1.70	540.66	147.64	55.70	2870.73
Greeley Industrial South #B9	Greeley Industrial South #B9 (AWB)	Greeley Industrial South #B9	Mineral Resources MRI	559.31	500.00	500.00	558.20	508.53	73.33	2300.00
Millers Green	Millers Green House #A10	Millers Green	Mineral Resources	562.08	3.70	3.70	561.21	246.06	213.36	1525.59

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Clearance Summary										
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House #A10	(AWB)	House #A10	MRI							
Riverview #A9	Riverview #A9 (AWB)	Riverview #A9	Mineral Resources MRI	563.84	500.96	500.96	561.87	500.96	226.33	1722.44
HWY 34-2 #A8	HWY 34-2 #A8 (AWB)	HWY 34-2 #A8	Mineral Resources MRI	572.68	2.70	2.70	572.01	131.23	238.81	1263.12
Shupe 5 Spot #B10	Shupe 5 Spot #B10 (AWB)	Shupe 5 Spot #B10	Mineral Resources MRI	578.12	500.00	500.00	577.01	508.53	144.27	2247.38
HWY 34-1 #A7	HWY 34-1 #A7 (AWB)	HWY 34-1 #A7	Mineral Resources MRI	579.95	2.70	2.70	579.05	200.00	223.29	1345.14
Highway 85-2 #B-11	Highway 85-2 #B-11 (AWB)	Highway 85-2 #B-11	Mineral Resources MRI	596.34	324.20	324.20	595.22	324.20	122.21	1870.08
Sam Pak #A6	Sam Pak #A6 (AWB)	Sam Pak #A6	Mineral Resources MRI	612.38	5.70	5.70	611.47	311.68	290.15	1574.80
Highway 85-1 #B12	Highway 85-1 #B12 (AWB)	Highway 85-1 #B12	Mineral Resources MRI	616.16	500.00	500.00	615.06	508.53	240.33	2132.55
Bus Barn #A5	Bus Barn #A5 (AWB)	Bus Barn #A5	Mineral Resources MRI	619.13	5.70	5.70	618.13	300.00	174.74	1656.82
Smith 5 Spot #A4	Smith 5 Spot #A4 (AWB)	Smith 5 Spot #A4	Mineral Resources MRI	630.75	4.70	4.70	629.97	164.04	237.88	1722.44
Parkview South #A3	Parkview South #A3 (AWB)	Parkview South #A3	Mineral Resources MRI	643.17	5.70	5.70	642.60	147.64	274.46	1525.59
Delta Park #A2	Delta Park #A2 (AWB)	Delta Park #A2	Mineral Resources MRI	652.06	205.70	205.70	651.28	205.70	173.75	1509.19
Clark #A1	Clark #A1 (AWB)	Clark #A1	Mineral Resources MRI	665.90	5.70	5.70	665.05	229.66	121.47	2050.52
Commerce Center 3 #20-1H5	Commerce Center 3 #20-1H5 (AWB)	Commerce Center 3 #20-1H5	MRI Offsets	739.04	508.53	508.53	737.14	508.53	229.52	1722.44
GG-Toddys #2-13-12	GG-Toddys #2-13-12 (PWB)	Slot #8	Gallery Green, Rev. 01	817.17	13039.17	13039.17	785.89	13039.17	26.12	13039.17