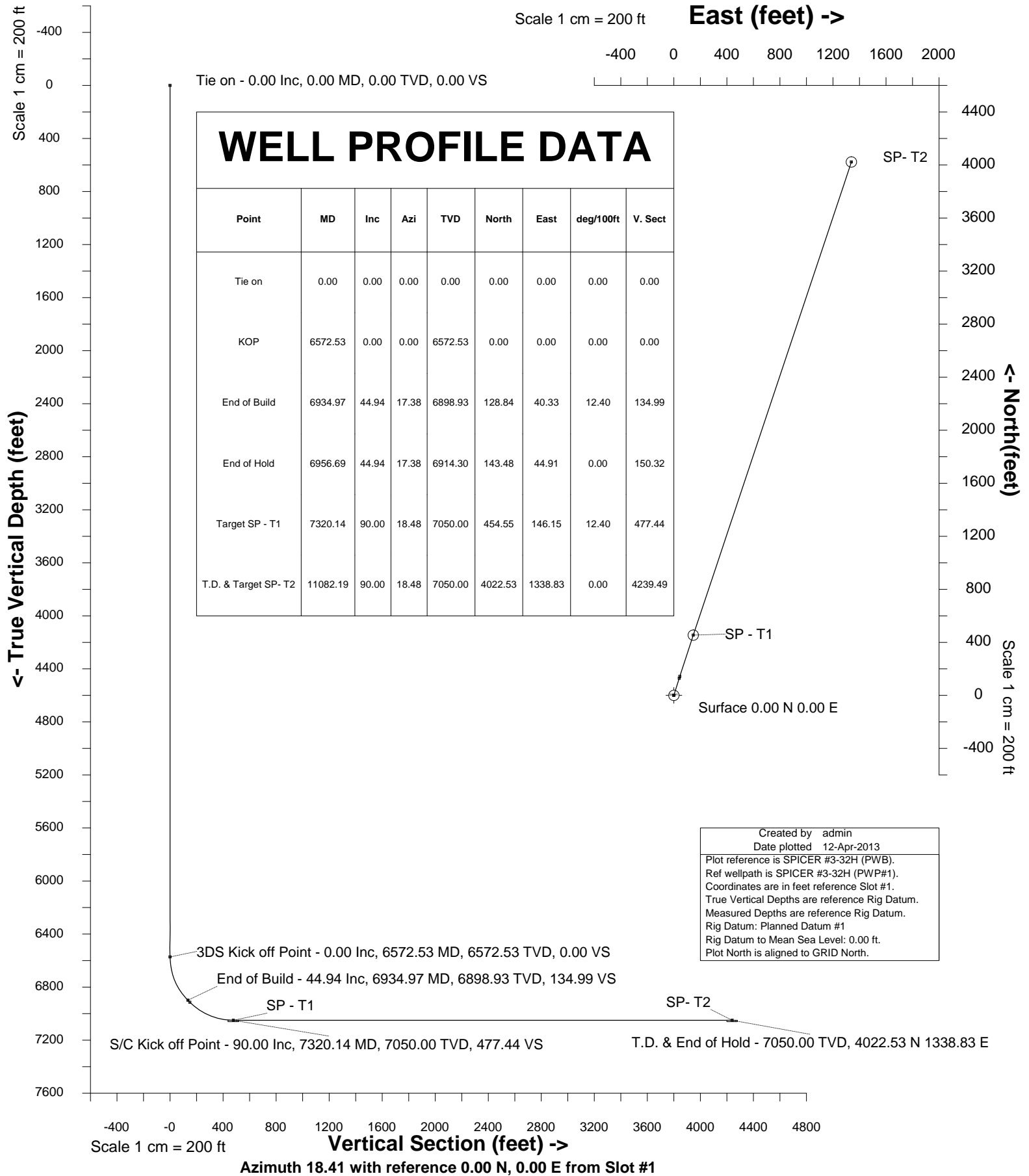


EE3 LLC

Location	Jackson County, CO	Slot	Slot #1
Field	Unnamed	Well	SPICER #3-32H
Installation	SPICER	Wellbore	SPICER #3-32H (PWB)





SYSDRILL
Well Design Combined Report
Wellbore: SPICER #3-32H (PWB)
Wellpath: SPICER #3-32H (PWP#1)

Wellhead Details

Name	Northing	Easting	Latitude	Longitude	North	East
Slot #1	1436604.8224	2748579.5675	N40 31 42.0996	W106 24 16.0596	0.00N	0.00E

Site Details

Name	Northing	Easting	Coord System Name	North Alignment
SPICER	1436604.8224	2748579.5675	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	1436604.82	2748579.57
6572.53	0.00	0.000	6572.53	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6934.97	44.94	17.380	6898.93	128.84N	40.33E	12.40	134.99	1436733.66	2748619.90
6956.69	44.94	17.380	6914.30	143.48N	44.91E	==>	150.32	1436748.30	2748624.48
7320.14	90.00	18.480	7050.00	454.55N	146.15E	12.40	477.44	1437059.36	2748725.71
11082.19	90.00	18.480	7050.00	4022.53N	1338.83E	==>	4239.49	1440627.22	2749918.35

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	1436604.82	2748579.57
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1400.00	0.00	0.000	1400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1500.00	0.00	0.000	1500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1600.00	0.00	0.000	1600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1700.00	0.00	0.000	1700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1800.00	0.00	0.000	1800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
1900.00	0.00	0.000	1900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2000.00	0.00	0.000	2000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2100.00	0.00	0.000	2100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2200.00	0.00	0.000	2200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2300.00	0.00	0.000	2300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2400.00	0.00	0.000	2400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2500.00	0.00	0.000	2500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2600.00	0.00	0.000	2600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2700.00	0.00	0.000	2700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2800.00	0.00	0.000	2800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
2900.00	0.00	0.000	2900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3000.00	0.00	0.000	3000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3100.00	0.00	0.000	3100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3200.00	0.00	0.000	3200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3300.00	0.00	0.000	3300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3400.00	0.00	0.000	3400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3500.00	0.00	0.000	3500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3600.00	0.00	0.000	3600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3700.00	0.00	0.000	3700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3800.00	0.00	0.000	3800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
3900.00	0.00	0.000	3900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4000.00	0.00	0.000	4000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4100.00	0.00	0.000	4100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4200.00	0.00	0.000	4200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4300.00	0.00	0.000	4300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4400.00	0.00	0.000	4400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4500.00	0.00	0.000	4500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4600.00	0.00	0.000	4600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4700.00	0.00	0.000	4700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4800.00	0.00	0.000	4800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
4900.00	0.00	0.000	4900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5000.00	0.00	0.000	5000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5100.00	0.00	0.000	5100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5200.00	0.00	0.000	5200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57

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 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.410 degrees
Bottom hole distance is 4239.49 Feet on azimuth 18.41 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 12-Apr-2013



SYSDRILL
Well Design Combined Report
Wellbore: SPICER #3-32H (PWB)
Wellpath: SPICER #3-32H (PWP#1)

Interpolated Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
5300.00	0.00	0.000	5300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5400.00	0.00	0.000	5400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5500.00	0.00	0.000	5500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5600.00	0.00	0.000	5600.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5700.00	0.00	0.000	5700.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5800.00	0.00	0.000	5800.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
5900.00	0.00	0.000	5900.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6000.00	0.00	0.000	6000.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6100.00	0.00	0.000	6100.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6200.00	0.00	0.000	6200.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6300.00	0.00	0.000	6300.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6400.00	0.00	0.000	6400.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6500.00	0.00	0.000	6500.00	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6572.53	0.00	0.000	6572.53	0.00N	0.00E	==>	0.00	1436604.82	2748579.57
6672.53	12.40	17.380	6671.75	10.29N	3.22E	12.40	10.78	1436615.11	2748582.79
6772.53	24.80	17.380	6766.34	40.67N	12.73E	12.40	42.61	1436645.49	2748592.30
6872.53	37.20	17.380	6851.89	89.72N	28.09E	12.40	94.00	1436694.54	2748607.65
6934.97	44.94	17.380	6898.93	128.84N	40.33E	12.40	134.99	1436733.66	2748619.90
6956.69	44.94	17.380	6914.30	143.48N	44.91E	==>	150.32	1436748.30	2748624.48
7000.00	50.31	17.570	6943.48	173.99N	54.52E	12.40	182.31	1436778.81	2748634.09
7100.00	62.71	17.920	6998.55	253.26N	79.91E	12.40	265.54	1436858.08	2748659.47
7200.00	75.11	18.190	7034.47	341.79N	108.77E	12.40	358.65	1436946.60	2748688.34
7300.00	87.50	18.440	7049.56	435.45N	139.78E	12.40	457.31	1437040.26	2748719.34
7320.14	90.00	18.480	7050.00	454.55N	146.15E	12.40	477.44	1437059.36	2748725.71
7400.00	90.00	18.480	7050.00	530.29N	171.47E	==>	557.30	1437135.10	2748751.03
7500.00	90.00	18.480	7050.00	625.13N	203.17E	==>	657.30	1437229.93	2748782.73
7600.00	90.00	18.480	7050.00	719.97N	234.87E	==>	757.30	1437324.77	2748814.43
7700.00	90.00	18.480	7050.00	814.82N	266.58E	==>	857.30	1437419.61	2748846.14
7800.00	90.00	18.480	7050.00	909.66N	298.28E	==>	957.30	1437514.45	2748877.84
7900.00	90.00	18.480	7050.00	1004.50N	329.98E	==>	1057.30	1437609.29	2748909.54
8000.00	90.00	18.480	7050.00	1099.34N	361.69E	==>	1157.30	1437704.13	2748941.24
8100.00	90.00	18.480	7050.00	1194.18N	393.39E	==>	1257.30	1437798.96	2748972.94
8200.00	90.00	18.480	7050.00	1289.02N	425.09E	==>	1357.30	1437893.80	2749004.65
8300.00	90.00	18.480	7050.00	1383.87N	456.80E	==>	1457.30	1437988.64	2749036.35
8400.00	90.00	18.480	7050.00	1478.71N	488.50E	==>	1557.30	1438083.48	2749068.05
8500.00	90.00	18.480	7050.00	1573.55N	520.20E	==>	1657.30	1438178.32	2749099.75
8600.00	90.00	18.480	7050.00	1668.39N	551.90E	==>	1757.30	1438273.16	2749131.45
8700.00	90.00	18.480	7050.00	1763.23N	583.61E	==>	1857.30	1438368.00	2749163.16
8800.00	90.00	18.480	7050.00	1858.07N	615.31E	==>	1957.30	1438462.83	2749194.86
8900.00	90.00	18.480	7050.00	1952.91N	647.01E	==>	2057.30	1438557.67	2749226.56
9000.00	90.00	18.480	7050.00	2047.76N	678.72E	==>	2157.30	1438652.51	2749258.26
9100.00	90.00	18.480	7050.00	2142.60N	710.42E	==>	2257.30	1438747.35	2749289.96
9200.00	90.00	18.480	7050.00	2237.44N	742.12E	==>	2357.30	1438842.19	2749321.66
9300.00	90.00	18.480	7050.00	2332.28N	773.83E	==>	2457.30	1438937.03	2749353.37
9400.00	90.00	18.480	7050.00	2427.12N	805.53E	==>	2557.30	1439031.86	2749385.07
9500.00	90.00	18.480	7050.00	2521.96N	837.23E	==>	2657.30	1439126.70	2749416.77
9600.00	90.00	18.480	7050.00	2616.81N	868.93E	==>	2757.30	1439221.54	2749448.47
9700.00	90.00	18.480	7050.00	2711.65N	900.64E	==>	2857.30	1439316.38	2749480.17
9800.00	90.00	18.480	7050.00	2806.49N	932.34E	==>	2957.30	1439411.22	2749511.88
9900.00	90.00	18.480	7050.00	2901.33N	964.04E	==>	3057.30	1439506.06	2749543.58
10000.00	90.00	18.480	7050.00	2996.17N	995.75E	==>	3157.30	1439600.89	2749575.28
10100.00	90.00	18.480	7050.00	3091.01N	1027.45E	==>	3257.30	1439695.73	2749606.98
10200.00	90.00	18.480	7050.00	3185.85N	1059.15E	==>	3357.30	1439790.57	2749638.68
10300.00	90.00	18.480	7050.00	3280.70N	1090.86E	==>	3457.30	1439885.41	2749670.39
10400.00	90.00	18.480	7050.00	3375.54N	1122.56E	==>	3557.30	1439980.25	2749702.09
10500.00	90.00	18.480	7050.00	3470.38N	1154.26E	==>	3657.30	1440075.09	2749733.79
10600.00	90.00	18.480	7050.00	3565.22N	1185.96E	==>	3757.30	1440169.92	2749765.49
10700.00	90.00	18.480	7050.00	3660.06N	1217.67E	==>	3857.30	1440264.76	2749797.19
10800.00	90.00	18.480	7050.00	3754.90N	1249.37E	==>	3957.30	1440359.60	2749828.90
10900.00	90.00	18.480	7050.00	3849.75N	1281.07E	==>	4057.30	1440454.44	2749860.60
11000.00	90.00	18.480	7050.00	3944.59N	1312.78E	==>	4157.30	1440549.28	2749892.30
11082.19	90.00	18.480	7050.00	4022.53N	1338.83E	==>	4239.49	1440627.22	2749918.35

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 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.410 degrees
Bottom hole distance is 4239.49 Feet on azimuth 18.41 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 12-Apr-2013



SYSDRILL
Well Design Combined Report
Wellbore: SPICER #3-32H (PWB)
Wellpath: SPICER #3-32H (PWP#1)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
SP - T1	454.55N	146.15E	7050.00	N40 31 46.6057	W106 24 14.2271	1437059.36	2748725.71	12-Apr-2013
SP- T2	4022.53N	1338.83E	7050.00	N40 32 21.9804	W106 23 59.2512	1440627.22	2749918.35	12-Apr-2013

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
21228	Planned	11082.19	7050.00	WdW Rate Gyro	Standard

Notes

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 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.410 degrees
Bottom hole distance is 4239.49 Feet on azimuth 18.41 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 12-Apr-2013



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: SPICER #3-32H (PWB)
Wellpath: SPICER #3-32H (PWP#1)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Cutoff 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
SPICER #3-32H (PWB)	12-Apr-2013	12-Apr-2013

Well

Name	Government ID	Last Revised
SPICER #3-32H		12-Apr-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #1	1436604.8224	2748579.5675	N40 31 42.0996	W106 24 16.0596	0.00N	0.00E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
SPICER	2748579.5675	1436604.8224	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Unnamed	2748579.5675	1436604.8225	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]
BUFFALO DITCH #2-32H	BUFFALO DITCH #2-32H (AWB)	BUFFALO DITCH #2-32H	OFFSETS	1655.17	9717.80	11082.19	1607.50	9727.69	23.24	11082.19
VANETA #01-32	VANETA #01-32 (AWB)	VANETA #01-32	OFFSETS	2679.81	11082.19	11082.19	2624.57	11082.19	48.51	11082.19
CASTLE #3-30H	CASTLE #3-30H (AWB)	CASTLE #3-30H	OFFSETS	3009.21	11082.19	11082.19	2934.82	11082.19	40.45	11082.19
BUFFALO DITCH #1-32H	BUFFALO DITCH #1-32H	BUFFALO DITCH #1-32H	OFFSETS	3440.97	10648.04	10648.04	3384.94	10679.13	58.38	11082.19
BUFFALO DITCH #1-32H	PILOT (AWB) BUFFALO DITCH #1-32H HZL (AWB)	BUFFALO DITCH #1-32H	OFFSETS	3459.48	10679.13	10679.13	3403.72	10711.94	58.87	11082.19
JUDY #1-30	JUDY #1-30 (AWB)	JUDY #1-30	OFFSETS	3999.27	11082.19	11082.19	3940.81	11082.19	68.41	11082.19
MUTUAL #2-30H	MUTUAL #2-30H (AWB)	MUTUAL #2-30H	OFFSETS	4102.01	11082.19	11082.19	4035.54	11082.19	61.72	11082.19
MUTUAL #4-30H	MUTUAL #4-30H (PWB)	Slot #1	MUTUAL 4-30H	4313.26	10581.84	10581.84	4273.43	10613.52	99.36	11082.19