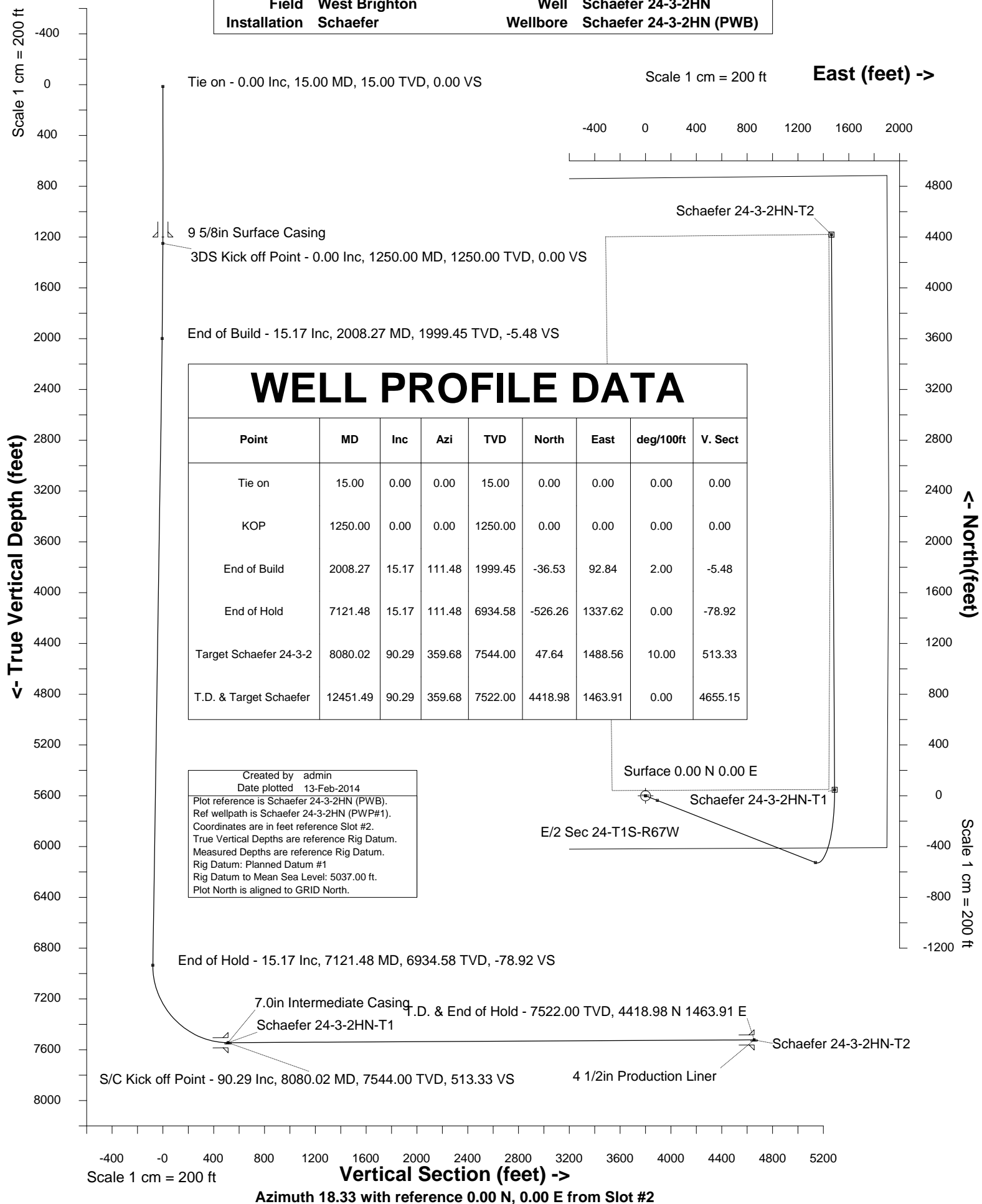


WARD PETROLEUM			
Location	ADAMS COUNTY, CO	Slot	Slot #2
Field	West Brighton	Well	Schaefer 24-3-2HN
Installation	Schaefer	Wellbore	Schaefer 24-3-2HN (PWB)

Slot	Slot #2
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Well Schaefer 24-3-2HN

Wellbore Schaefer 24-3-2HN (PWB)





INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Schaefer 24-3-2HN (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #2	1223318.4969	3186533.3953	39.94447000	-104.83471000	0.11S	14.02W	-0.00

Declination			
Date	Source	Time	
10-Feb-2014	IGRF Model [1900.0-2015.0]		13:06

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
Schaefer	1223318.6021	3186547.4140	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
15.00	0.00	0.000	15.00	0.00N	0.00E		0.00	1223318.50	3186533.40
1250.00	0.00	0.000	1250.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
2008.27	15.17	111.480	1999.45	36.53S	92.84E	2.00	-5.48	1223281.97	3186626.23
7121.48	15.17	111.480	6934.58	526.26S	1337.62E	==>	-78.92	1222792.25	3187870.97
8080.02	90.29	359.680	7544.00	47.64N	1488.56E	10.00	513.33	1223366.14	3188021.90
12451.49	90.29	359.680	7522.00	4418.98N	1463.91E	==>	4655.15	1227737.34	3187997.26

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	1223318.50	3186533.40
15.00	0.00	0.000	15.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1235.00	0.00	0.000	1235.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1250.00	0.00	0.000	1250.00	0.00N	0.00E	==>	0.00	1223318.50	3186533.40
1335.00	1.70	111.480	1334.99	0.46S	1.17E	2.00	-0.07	1223318.04	3186534.57
1435.00	3.70	111.480	1434.87	2.19S	5.56E	2.00	-0.33	1223316.31	3186538.95
1535.00	5.70	111.480	1534.53	5.19S	13.18E	2.00	-0.78	1223313.31	3186546.58
1635.00	7.70	111.480	1633.84	9.46S	24.04E	2.00	-1.42	1223309.04	3186557.43
1735.00	9.70	111.480	1732.69	14.99S	38.11E	2.00	-2.25	1223303.50	3186571.51
1835.00	11.70	111.480	1830.94	21.79S	55.39E	2.00	-3.27	1223296.71	3186588.78
1935.00	13.70	111.480	1928.49	29.84S	75.85E	2.00	-4.48	1223288.66	3186609.24
2000.00	15.00	111.480	1991.46	35.74S	90.84E	2.00	-5.36	1223282.76	3186624.23
2008.27	15.17	111.480	1999.45	36.53S	92.84E	2.00	-5.48	1223281.97	3186626.23
2100.00	15.17	111.480	2087.98	45.31S	115.17E	==>	-6.80	1223273.19	3186648.56
2200.00	15.17	111.480	2184.50	54.89S	139.52E	==>	-8.23	1223263.61	3186672.91
2300.00	15.17	111.480	2281.02	64.47S	163.86E	==>	-9.67	1223254.03	3186697.25
2400.00	15.17	111.480	2377.53	74.05S	188.20E	==>	-11.10	1223244.45	3186721.59
2500.00	15.17	111.480	2474.05	83.62S	212.55E	==>	-12.54	1223234.88	3186745.94
2600.00	15.17	111.480	2570.57	93.20S	236.89E	==>	-13.98	1223225.30	3186770.28
2700.00	15.17	111.480	2667.09	102.78S	261.24E	==>	-15.41	1223215.72	3186794.62
2800.00	15.17	111.480	2763.60	112.36S	285.58E	==>	-16.85	1223206.14	3186818.97
2900.00	15.17	111.480	2860.12	121.93S	309.93E	==>	-18.29	1223196.57	3186843.31
3000.00	15.17	111.480	2956.64	131.51S	334.27E	==>	-19.72	1223186.99	3186867.66
3100.00	15.17	111.480	3053.16	141.09S	358.61E	==>	-21.16	1223177.41	3186892.00
3200.00	15.17	111.480	3149.67	150.67S	382.96E	==>	-22.60	1223167.83	3186916.34
3300.00	15.17	111.480	3246.19	160.25S	407.30E	==>	-24.03	1223158.26	3186940.69

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 5037.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.330 degrees
Bottom hole distance is 4655.15 Feet on azimuth 18.33 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 13-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL

Well Design Combined Report
Wellbore: Schaefer 24-3-2HN (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3400.00	15.17	111.480	3342.71	169.82S	431.65E	==>	-25.47	1223148.68	3186965.03
3500.00	15.17	111.480	3439.23	179.40S	455.99E	==>	-26.90	1223139.10	3186989.37
3600.00	15.17	111.480	3535.74	188.98S	480.34E	==>	-28.34	1223129.52	3187013.72
3700.00	15.17	111.480	3632.26	198.56S	504.68E	==>	-29.78	1223119.95	3187038.06
3800.00	15.17	111.480	3728.78	208.14S	529.03E	==>	-31.21	1223110.37	3187062.40
3900.00	15.17	111.480	3825.30	217.71S	553.37E	==>	-32.65	1223100.79	3187086.75
4000.00	15.17	111.480	3921.81	227.29S	577.71E	==>	-34.09	1223091.21	3187111.09
4100.00	15.17	111.480	4018.33	236.87S	602.06E	==>	-35.52	1223081.64	3187135.43
4200.00	15.17	111.480	4114.85	246.45S	626.40E	==>	-36.96	1223072.06	3187159.78
4300.00	15.17	111.480	4211.37	256.02S	650.75E	==>	-38.40	1223062.48	3187184.12
4400.00	15.17	111.480	4307.88	265.60S	675.09E	==>	-39.83	1223052.90	3187208.47
4500.00	15.17	111.480	4404.40	275.18S	699.44E	==>	-41.27	1223043.33	3187232.81
4600.00	15.17	111.480	4500.92	284.76S	723.78E	==>	-42.70	1223033.75	3187257.15
4700.00	15.17	111.480	4597.44	294.34S	748.12E	==>	-44.14	1223024.17	3187281.50
4800.00	15.17	111.480	4693.95	303.91S	772.47E	==>	-45.58	1223014.59	3187305.84
4900.00	15.17	111.480	4790.47	313.49S	796.81E	==>	-47.01	1223005.01	3187330.18
5000.00	15.17	111.480	4886.99	323.07S	821.16E	==>	-48.45	1222995.44	3187354.53
5100.00	15.17	111.480	4983.51	332.65S	845.50E	==>	-49.89	1222985.86	3187378.87
5200.00	15.17	111.480	5080.02	342.23S	869.85E	==>	-51.32	1222976.28	3187403.21
5300.00	15.17	111.480	5176.54	351.80S	894.19E	==>	-52.76	1222966.70	3187427.56
5400.00	15.17	111.480	5273.06	361.38S	918.53E	==>	-54.20	1222957.13	3187451.90
5500.00	15.17	111.480	5369.58	370.96S	942.88E	==>	-55.63	1222947.55	3187476.25
5600.00	15.17	111.480	5466.09	380.54S	967.22E	==>	-57.07	1222937.97	3187500.59
5700.00	15.17	111.480	5562.61	390.11S	991.57E	==>	-58.50	1222928.39	3187524.93
5800.00	15.17	111.480	5659.13	399.69S	1015.91E	==>	-59.94	1222918.82	3187549.28
5900.00	15.17	111.480	5755.65	409.27S	1040.26E	==>	-61.38	1222909.24	3187573.62
6000.00	15.17	111.480	5852.16	418.85S	1064.60E	==>	-62.81	1222899.66	3187597.96
6100.00	15.17	111.480	5948.68	428.43S	1088.95E	==>	-64.25	1222890.08	3187622.31
6200.00	15.17	111.480	6045.20	438.00S	1113.29E	==>	-65.69	1222880.51	3187646.65
6300.00	15.17	111.480	6141.72	447.58S	1137.63E	==>	-67.12	1222870.93	3187670.99
6400.00	15.17	111.480	6238.23	457.16S	1161.98E	==>	-68.56	1222861.35	3187695.34
6500.00	15.17	111.480	6334.75	466.74S	1186.32E	==>	-70.00	1222851.77	3187719.68
6600.00	15.17	111.480	6431.27	476.32S	1210.67E	==>	-71.43	1222842.20	3187744.02
6700.00	15.17	111.480	6527.79	485.89S	1235.01E	==>	-72.87	1222832.62	3187768.37
6800.00	15.17	111.480	6624.30	495.47S	1259.36E	==>	-74.30	1222823.04	3187792.71
6900.00	15.17	111.480	6720.82	505.05S	1283.70E	==>	-75.74	1222813.46	3187817.06
7000.00	15.17	111.480	6817.34	514.63S	1308.04E	==>	-77.18	1222803.89	3187841.40
7100.00	15.17	111.480	6913.85	524.20S	1332.39E	==>	-78.61	1222794.31	3187865.74
7121.48	15.17	111.480	6934.58	526.26S	1337.62E	==>	-78.92	1222792.25	3187870.97
7200.00	14.31	80.430	7010.64	528.41S	1356.78E	10.00	-74.94	1222790.10	3187890.13
7300.00	18.65	48.000	7106.71	515.62S	1380.91E	10.00	-55.21	1222802.89	3187914.26
7400.00	26.20	30.520	7199.18	485.83S	1404.06E	10.00	-19.65	1222832.68	3187937.41
7500.00	34.94	20.870	7285.24	439.94S	1425.53E	10.00	30.67	1222878.57	3187958.88
7600.00	44.17	14.770	7362.29	379.34S	1444.67E	10.00	94.21	1222939.17	3187978.02
7700.00	53.62	10.440	7427.98	305.88S	1460.89E	10.00	169.05	1223012.63	3187994.24
7800.00	63.20	7.060	7480.31	221.78S	1473.70E	10.00	252.91	1223096.72	3188007.05
7900.00	72.85	4.210	7517.69	129.61S	1482.71E	10.00	343.24	1223188.90	3188016.05
8000.00	82.53	1.640	7538.99	32.16S	1487.64E	10.00	437.30	1223286.34	3188020.99
8080.02	90.29	359.680	7544.00	47.64N	1488.56E	10.00	513.33	1223366.14	3188021.90
8100.00	90.29	359.680	7543.90	67.62N	1488.44E	==>	532.26	1223386.11	3188021.79
8200.00	90.29	359.680	7543.40	167.61N	1487.88E	==>	627.00	1223486.11	3188021.23
8300.00	90.29	359.680	7542.89	267.61N	1487.31E	==>	721.75	1223586.10	3188020.66
8400.00	90.29	359.680	7542.39	367.61N	1486.75E	==>	816.50	1223686.09	3188020.10
8500.00	90.29	359.680	7541.89	467.61N	1486.19E	==>	911.24	1223786.09	3188019.54
8600.00	90.29	359.680	7541.38	567.60N	1485.62E	==>	1005.99	1223886.08	3188018.97
8700.00	90.29	359.680	7540.88	667.60N	1485.06E	==>	1100.74	1223986.08	3188018.41
8800.00	90.29	359.680	7540.38	767.60N	1484.50E	==>	1195.48	1224086.07	3188017.85
8900.00	90.29	359.680	7539.87	867.59N	1483.93E	==>	1290.23	1224186.06	3188017.28
9000.00	90.29	359.680	7539.37	967.59N	1483.37E	==>	1384.98	1224286.06	3188016.72
9100.00	90.29	359.680	7538.87	1067.59N	1482.80E	==>	1479.72	1224386.05	3188016.15
9200.00	90.29	359.680	7538.36	1167.59N	1482.24E	==>	1574.47	1224486.05	3188015.59

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 5037.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.330 degrees
Bottom hole distance is 4655.15 Feet on azimuth 18.33 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 13-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Schaefer 24-3-2HN (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9300.00	90.29	359.680	7537.86	1267.58N	1481.68E	==>	1669.22	1224586.04	3188015.03
9400.00	90.29	359.680	7537.36	1367.58N	1481.11E	==>	1763.96	1224686.03	3188014.46
9500.00	90.29	359.680	7536.85	1467.58N	1480.55E	==>	1858.71	1224786.03	3188013.90
9600.00	90.29	359.680	7536.35	1567.57N	1479.98E	==>	1953.46	1224886.02	3188013.33
9700.00	90.29	359.680	7535.85	1667.57N	1479.42E	==>	2048.20	1224986.02	3188012.77
9800.00	90.29	359.680	7535.34	1767.57N	1478.86E	==>	2142.95	1225086.01	3188012.21
9900.00	90.29	359.680	7534.84	1867.57N	1478.29E	==>	2237.70	1225186.00	3188011.64
10000.00	90.29	359.680	7534.34	1967.56N	1477.73E	==>	2332.44	1225286.00	3188011.08
10100.00	90.29	359.680	7533.83	2067.56N	1477.17E	==>	2427.19	1225385.99	3188010.52
10200.00	90.29	359.680	7533.33	2167.56N	1476.60E	==>	2521.94	1225485.99	3188009.95
10300.00	90.29	359.680	7532.83	2267.55N	1476.04E	==>	2616.68	1225585.98	3188009.39
10400.00	90.29	359.680	7532.32	2367.55N	1475.47E	==>	2711.43	1225685.97	3188008.82
10500.00	90.29	359.680	7531.82	2467.55N	1474.91E	==>	2806.18	1225785.97	3188008.26
10600.00	90.29	359.680	7531.32	2567.55N	1474.35E	==>	2900.93	1225885.96	3188007.70
10700.00	90.29	359.680	7530.81	2667.54N	1473.78E	==>	2995.67	1225985.96	3188007.13
10800.00	90.29	359.680	7530.31	2767.54N	1473.22E	==>	3090.42	1226085.95	3188006.57
10900.00	90.29	359.680	7529.81	2867.54N	1472.65E	==>	3185.17	1226185.95	3188006.00
11000.00	90.29	359.680	7529.30	2967.53N	1472.09E	==>	3279.91	1226285.94	3188005.44
11100.00	90.29	359.680	7528.80	3067.53N	1471.53E	==>	3374.66	1226385.93	3188004.88
11200.00	90.29	359.680	7528.30	3167.53N	1470.96E	==>	3469.41	1226485.93	3188004.31
11300.00	90.29	359.680	7527.80	3267.53N	1470.40E	==>	3564.15	1226585.92	3188003.75
11400.00	90.29	359.680	7527.29	3367.52N	1469.84E	==>	3658.90	1226685.92	3188003.19
11500.00	90.29	359.680	7526.79	3467.52N	1469.27E	==>	3753.65	1226785.91	3188002.62
11600.00	90.29	359.680	7526.29	3567.52N	1468.71E	==>	3848.39	1226885.90	3188002.06
11700.00	90.29	359.680	7525.78	3667.51N	1468.14E	==>	3943.14	1226985.90	3188001.49
11800.00	90.29	359.680	7525.28	3767.51N	1467.58E	==>	4037.89	1227085.89	3188000.93
11900.00	90.29	359.680	7524.78	3867.51N	1467.02E	==>	4132.63	1227185.89	3188000.37
12000.00	90.29	359.680	7524.27	3967.51N	1466.45E	==>	4227.38	1227285.88	3187999.80
12100.00	90.29	359.680	7523.77	4067.50N	1465.89E	==>	4322.13	1227385.87	3187999.24
12200.00	90.29	359.680	7523.27	4167.50N	1465.32E	==>	4416.87	1227485.87	3187998.67
12300.00	90.29	359.680	7522.76	4267.50N	1464.76E	==>	4511.62	1227585.86	3187998.11
12400.00	90.29	359.680	7522.26	4367.49N	1464.20E	==>	4606.37	1227685.86	3187997.55
12451.49	90.29	359.680	7522.00	4418.98N	1463.91E	==>	4655.15	1227737.34	3187997.26

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 5037.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.330 degrees
Bottom hole distance is 4655.15 Feet on azimuth 18.33 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 13-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Schaefer 24-3-2HN (PWB)

Hole Sections								
Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
13 1/2	15.00	15.00	0.00N	0.00E	1200.00	1200.00	0.00N	0.00E
8 3/4	1200.00	1200.00	0.00N	0.00E	8080.00	7544.00	47.62N	1488.56E
6 1/8	8080.00	7544.00	47.62N	1488.56E	12451.49	7522.00	4418.98N	1463.91E

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	15.00	15.00	0.00N	0.00E	1200.00	1200.00	0.00N	0.00E
7.0in Intermediate Casing	15.00	15.00	0.00N	0.00E	8080.00	7544.00	47.62N	1488.56E
4 1/2in Production Liner	7080.00	6894.55	522.29S	1327.52E	12451.49	7522.00	4418.98N	1463.91E

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
Schaefer 24-3-2HN-T1	47.64N	1488.56E	7544.00	39.94457000	-104.82940000	1223366.14	3188021.90	11-Feb-2014
Schaefer 24-3-2HN-T2	4418.98N	1463.91E	7522.00	39.95657000	-104.82937000	1227737.34	3187997.26	11-Feb-2014

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
153130	Planned	12451.49	7522.00	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 5037.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 18.330 degrees
Bottom hole distance is 4655.15 Feet on azimuth 18.33 degrees from Wellhead
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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: Schaefer 24-3-2HN (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 2500.00ft with expansion rate of 0.00ft/1000ft are not reported
Scan limit is calculated on CENTRE to CENTRE distance

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

Wellbore		
Name	Created	Last Revised
Schaefer 24-3-2HN (PWB)	11-Feb-2014	12-Feb-2014

Well		
Name	Government ID	Last Revised
Schaefer 24-3-2HN		11-Feb-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #2	1223318.4969	3186533.3953	39.94447000	-104.83471000	0.11S	14.02W

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Schaefer	3186547.4140	1223318.6021	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

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

Clearance Summary										
Offset 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]
Schaefer 24-3-3HC	Schaefer 24-3-3HC (PWB)	Slot #3	Schaefer	14.02	1250.00	12449.60	11.15	1196.10	4.89	1196.10
Schaefer 24-3-1HC	Schaefer 24-3-1HC (PWB)	Slot #1	Schaefer	14.02	1200.00	1200.00	11.15	1200.00	4.88	1200.00
Schaefer 25-1-2HC	Schaefer 25-1-2HC (PWB)	Slot #10	Schaefer	16.74	1333.38	7650.09	13.95	1360.14	2.50	7675.76
Schaefer 25-1-3HN	Schaefer 25-1-3HN (PWB)	Slot #11	Schaefer	16.83	1250.00	7468.70	13.96	1196.10	5.87	1196.10
Schaefer 25-1-1HN	Schaefer 25-1-1HN (PWB)	Slot #9	Schaefer	26.75	1250.03	7599.06	23.88	1196.10	9.28	1550.00
Schaefer 25-1-4HC	Schaefer 25-1-4HC (PWB)	Slot #12	Schaefer	26.75	1250.00	1250.00	23.88	1196.10	9.33	1196.10
Schaefer 24-3-4HN	Schaefer 24-3-4HN (PWB)	Slot #4	Schaefer	30.84	1250.00	1250.00	27.98	1196.10	10.76	1196.10
Schaefer 25-1-5HN	Schaefer 25-1-5HN (PWB)	Slot #13	Schaefer	39.26	1250.00	1250.00	36.39	1196.10	13.70	1196.10
Schaefer 24-3-5HC	Schaefer 24-3-5HC (PWB)	Slot #5	Schaefer	44.86	1250.00	12444.27	42.00	1196.10	15.65	1196.10
Schaefer	Schaefer	Slot #14	Schaefer	55.23	1250.00	1250.00	52.36	1196.10	19.27	1196.10

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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]
25-1-6HC	25-1-6HC (PWB)									
Schaefer 24-3-6HN	Schaefer 24-3-6HN (PWB)	Slot #6	Schaefer	58.88	1250.00	12444.47	56.02	1196.10	20.54	1196.10
Schaefer 25-1-7HN	Schaefer 25-1-7HN (PWB)	Slot #15	Schaefer	68.85	1250.00	1250.00	65.99	1196.10	24.02	1196.10
Schaefer 24-3-7HC	Schaefer 24-3-7HC (PWB)	Slot #7	Schaefer	75.71	1250.00	1250.00	72.84	1196.10	26.41	1196.10
Shaefer 25-1-8HC	Shaefer 25-1-8HC (PWB)	Slot #16	Schaefer	82.61	1215.00	1215.00	79.74	1196.10	28.82	1196.10
Schaefer 24-3-8HN	Schaefer 24-3-8HN (PWB)	Slot #8	Schaefer	89.72	1250.00	1250.00	86.86	1196.10	31.30	1196.10
W Letterly-Scott 1	W Letterly-Scott 1 (AWB)	Letterly-Scott 1	Offsets	719.55	11372.19	11372.19	663.47	11366.71	12.78	11317.49
W RITCHEY #1-19	W RITCHEY #1-19 (AWB)	RITCHEY #1-19	Offsets	2309.62	8616.44	8616.44	2275.05	8643.61	55.69	9677.07