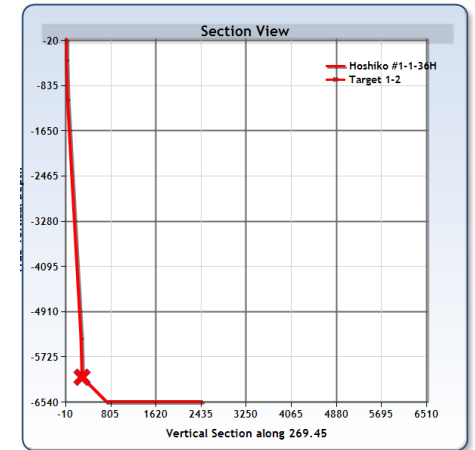
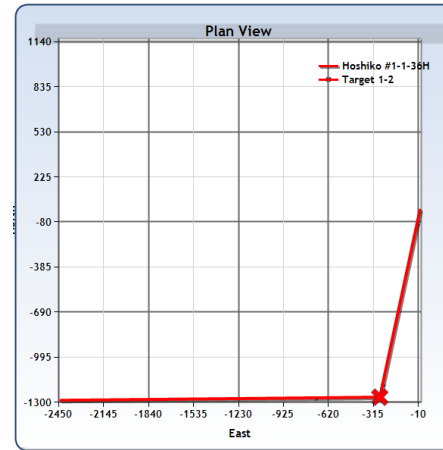


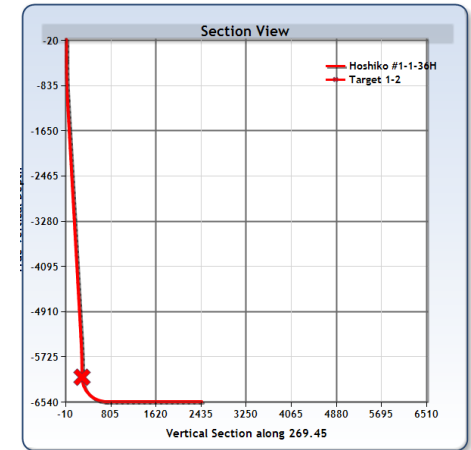
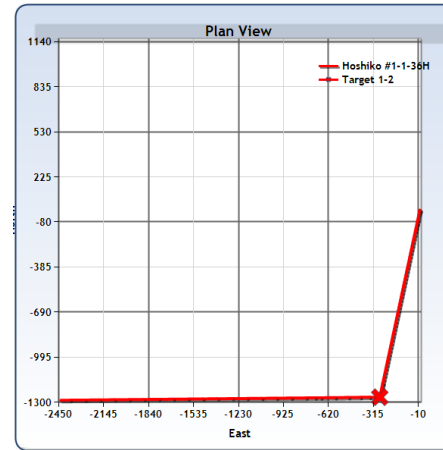
**Company:** Peterson Energy Operating, Inc.  
**Well Name:** Hoshiko #1-1-36H  
**Location:** SWSE Sec. 25 5N 64W  
**Info:** North Reference is True North  
**Info:**  
**Vertical Section Calculated on an Azimuth of:** 192.1200  
**Survey Calculation method:** Minimum Curvature  
**File Name:**



#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	SubSea Feet	Section Feet	Dogleg /100 ft	BldRate /100 ft	Trnrate /100 ft	Comment
0	0.00	0.00	192.12	0.00	0.00	0.00	4604.00	0.00	0.00	0.00	0.00	
1	353.50	0.00	192.12	353.50	0.00	0.00	4250.50	0.00	0.00	0.00	0.00	
2	1078.50	14.50	192.12	1070.79	-89.22	-19.16	3533.21	91.25	2.00	2.00	0.00	
3	5521.20	14.50	192.12	5371.98	-1176.78	-252.71	-767.98	1203.61	0.00	0.00	0.00	
4	6246.20	0.00	269.45	6089.26	-1266.00	-271.87	-1485.26	1294.86	2.00	2.00	0.00	
5	6938.51	90.00	269.45	6530.00	-1270.26	-712.59	-1926.00	1391.56	13.00	13.00	0.00	
6	8662.00	90.00	269.45	6530.00	-1286.93	-2436.00	-1926.00	1769.70	0.00	0.00	0.00	

Closure is 2755.0435 feet on an Azimuth of 242.1527

**Company:** Peterson Energy Operating, Inc.  
**Well Name:** Hoshiko #1-1-36H  
**Location:** SWSE Sec. 25 5N 64W  
**Info:** North Reference is True North  
**Info:**  
**Vertical Section Calculated on an Azimuth of:** 192.1200  
**Survey Calculation method:** Minimum Curvature  
**File Name:** Hoshiko #1-1-36, Directional Surveys, 08-06-12.sr6



#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	SubSea Feet	Section Feet	Dogleg /100 ft	BldRate /100 ft	Trnrate /100 ft	Comment
0	0.00	0.00	192.12	0.00	0.00	0.00	4604.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	192.12	100.00	0.00	0.00	4504.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	192.12	200.00	0.00	0.00	4404.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	192.12	300.00	0.00	0.00	4304.00	0.00	0.00	0.00	0.00	
4	353.50	0.00	192.12	353.50	0.00	0.00	4250.50	0.00	0.00	0.00	0.00	
5	400.00	0.93	192.12	400.00	-0.37	-0.08	4204.00	0.38	2.00	2.00	0.00	
6	500.00	2.93	192.12	499.94	-3.66	-0.79	4104.06	3.75	2.00	2.00	0.00	
7	600.00	4.93	192.12	599.70	-10.36	-2.23	4004.30	10.60	2.00	2.00	0.00	
8	700.00	6.93	192.12	699.16	-20.46	-4.39	3904.84	20.93	2.00	2.00	0.00	
9	800.00	8.93	192.12	798.19	-33.95	-7.29	3805.81	34.72	2.00	2.00	0.00	
10	900.00	10.93	192.12	896.69	-50.81	-10.91	3707.31	51.97	2.00	2.00	0.00	
11	1000.00	12.93	192.12	994.53	-71.02	-15.25	3609.47	72.64	2.00	2.00	0.00	
12	1078.50	14.50	192.12	1070.79	-89.22	-19.16	3533.21	91.25	2.00	2.00	0.00	
13	1100.00	14.50	192.12	1091.60	-94.48	-20.29	3512.40	96.63	0.00	0.00	0.00	
14	1200.00	14.50	192.12	1188.42	-118.96	-25.55	3415.58	121.67	0.00	0.00	0.00	
15	1300.00	14.50	192.12	1285.23	-143.44	-30.80	3318.77	146.71	0.00	0.00	0.00	
16	1400.00	14.50	192.12	1382.05	-167.92	-36.06	3221.95	171.75	0.00	0.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
17	1500.00	14.50	192.12	1478.86	-192.40	-41.32	3125.14	196.79	0.00	0.00	0.00	
18	1600.00	14.50	192.12	1575.67	-216.88	-46.57	3028.33	221.82	0.00	0.00	0.00	
19	1700.00	14.50	192.12	1672.49	-241.36	-51.83	2931.51	246.86	0.00	0.00	0.00	
20	1800.00	14.50	192.12	1769.30	-265.84	-57.09	2834.70	271.90	0.00	0.00	0.00	
21	1900.00	14.50	192.12	1866.12	-290.32	-62.34	2737.88	296.94	0.00	0.00	0.00	
22	2000.00	14.50	192.12	1962.93	-314.80	-67.60	2641.07	321.98	0.00	0.00	0.00	
23	2100.00	14.50	192.12	2059.75	-339.28	-72.86	2544.25	347.01	0.00	0.00	0.00	
24	2200.00	14.50	192.12	2156.56	-363.76	-78.12	2447.44	372.05	0.00	0.00	0.00	
25	2300.00	14.50	192.12	2253.38	-388.24	-83.37	2350.62	397.09	0.00	0.00	0.00	
26	2400.00	14.50	192.12	2350.19	-412.72	-88.63	2253.81	422.13	0.00	0.00	0.00	
27	2500.00	14.50	192.12	2447.01	-437.20	-93.89	2156.99	447.17	0.00	0.00	0.00	
28	2600.00	14.50	192.12	2543.82	-461.68	-99.14	2060.18	472.20	0.00	0.00	0.00	
29	2700.00	14.50	192.12	2640.64	-486.16	-104.40	1963.36	497.24	0.00	0.00	0.00	
30	2800.00	14.50	192.12	2737.45	-510.64	-109.66	1866.55	522.28	0.00	0.00	0.00	
31	2900.00	14.50	192.12	2834.27	-535.12	-114.91	1769.73	547.32	0.00	0.00	0.00	
32	3000.00	14.50	192.12	2931.08	-559.60	-120.17	1672.92	572.36	0.00	0.00	0.00	
33	3100.00	14.50	192.12	3027.90	-584.08	-125.43	1576.10	597.39	0.00	0.00	0.00	
34	3200.00	14.50	192.12	3124.71	-608.56	-130.69	1479.29	622.43	0.00	0.00	0.00	
35	3300.00	14.50	192.12	3221.53	-633.04	-135.94	1382.47	647.47	0.00	0.00	0.00	
36	3400.00	14.50	192.12	3318.34	-657.52	-141.20	1285.66	672.51	0.00	0.00	0.00	
37	3500.00	14.50	192.12	3415.16	-682.00	-146.46	1188.84	697.55	0.00	0.00	0.00	
38	3600.00	14.50	192.12	3511.97	-706.48	-151.71	1092.03	722.58	0.00	0.00	0.00	
39	3700.00	14.50	192.12	3608.78	-730.96	-156.97	995.22	747.62	0.00	0.00	0.00	
40	3800.00	14.50	192.12	3705.60	-755.44	-162.23	898.40	772.66	0.00	0.00	0.00	
41	3900.00	14.50	192.12	3802.41	-779.92	-167.48	801.59	797.70	0.00	0.00	0.00	
42	4000.00	14.50	192.12	3899.23	-804.40	-172.74	704.77	822.74	0.00	0.00	0.00	
43	4100.00	14.50	192.12	3996.04	-828.88	-178.00	607.96	847.77	0.00	0.00	0.00	
44	4200.00	14.50	192.12	4092.86	-853.36	-183.26	511.14	872.81	0.00	0.00	0.00	
45	4300.00	14.50	192.12	4189.67	-877.84	-188.51	414.33	897.85	0.00	0.00	0.00	
46	4400.00	14.50	192.12	4286.49	-902.32	-193.77	317.51	922.89	0.00	0.00	0.00	
47	4500.00	14.50	192.12	4383.30	-926.80	-199.03	220.70	947.93	0.00	0.00	0.00	
48	4600.00	14.50	192.12	4480.12	-951.28	-204.28	123.88	972.96	0.00	0.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
49	4700.00	14.50	192.12	4576.93	-975.76	-209.54	27.07	998.00	0.00	0.00	0.00	
50	4800.00	14.50	192.12	4673.75	-1000.24	-214.80	-69.75	1023.04	0.00	0.00	0.00	
51	4900.00	14.50	192.12	4770.56	-1024.72	-220.05	-166.56	1048.08	0.00	0.00	0.00	
52	5000.00	14.50	192.12	4867.38	-1049.20	-225.31	-263.38	1073.12	0.00	0.00	0.00	
53	5100.00	14.50	192.12	4964.19	-1073.68	-230.57	-360.19	1098.15	0.00	0.00	0.00	
54	5200.00	14.50	192.12	5061.01	-1098.16	-235.83	-457.01	1123.19	0.00	0.00	0.00	
55	5300.00	14.50	192.12	5157.82	-1122.64	-241.08	-553.82	1148.23	0.00	0.00	0.00	
56	5400.00	14.50	192.12	5254.64	-1147.12	-246.34	-650.64	1173.27	0.00	0.00	0.00	
57	5500.00	14.50	192.12	5351.45	-1171.60	-251.60	-747.45	1198.31	0.00	0.00	0.00	
58	5521.20	14.50	192.12	5371.98	-1176.78	-252.71	-767.98	1203.61	0.00	0.00	0.00	
59	5600.00	12.92	192.12	5448.53	-1195.05	-256.63	-844.53	1222.29	2.00	2.00	0.00	
60	5700.00	10.92	192.12	5546.36	-1215.25	-260.97	-942.36	1242.95	2.00	2.00	0.00	
61	5800.00	8.92	192.12	5644.86	-1232.10	-264.59	-1040.86	1260.19	2.00	2.00	0.00	
62	5900.00	6.92	192.12	5743.90	-1245.57	-267.48	-1139.90	1273.97	2.00	2.00	0.00	
63	6000.00	4.92	192.12	5843.36	-1255.66	-269.65	-1239.36	1284.29	2.00	2.00	0.00	
64	6100.00	2.92	192.12	5943.12	-1262.35	-271.09	-1339.12	1291.13	2.00	2.00	0.00	
65	6200.00	0.92	192.12	6043.06	-1265.64	-271.79	-1439.06	1294.49	2.00	2.00	0.00	
66	6246.20	0.00	269.45	6089.26	-1266.00	-271.87	-1485.26	1294.86	2.00	2.00	0.00	
67	6300.00	6.99	269.45	6142.93	-1266.03	-275.15	-1538.93	1295.58	13.00	13.00	0.00	
68	6400.00	19.99	269.45	6239.96	-1266.26	-298.43	-1635.96	1300.69	13.00	13.00	0.00	
69	6500.00	32.99	269.45	6329.27	-1266.69	-342.94	-1725.27	1310.46	13.00	13.00	0.00	
70	6600.00	45.99	269.45	6406.27	-1267.30	-406.41	-1802.27	1324.38	13.00	13.00	0.00	
71	6700.00	58.99	269.45	6467.02	-1268.07	-485.56	-1863.02	1341.75	13.00	13.00	0.00	
72	6800.00	71.99	269.45	6508.41	-1268.95	-576.35	-1904.41	1361.67	13.00	13.00	0.00	
73	6900.00	84.99	269.45	6528.32	-1269.89	-674.13	-1924.32	1383.13	13.00	13.00	0.00	
74	6938.51	90.00	269.45	6530.00	-1270.26	-712.59	-1926.00	1391.56	13.00	13.00	0.00	
75	7000.00	90.00	269.45	6530.00	-1270.86	-774.08	-1926.00	1405.05	0.00	0.00	0.00	
76	7100.00	90.00	269.45	6530.00	-1271.82	-874.07	-1926.00	1426.99	0.00	0.00	0.00	
77	7200.00	90.00	269.45	6530.00	-1272.79	-974.07	-1926.00	1448.94	0.00	0.00	0.00	
78	7300.00	90.00	269.45	6530.00	-1273.76	-1074.06	-1926.00	1470.88	0.00	0.00	0.00	
79	7400.00	90.00	269.45	6530.00	-1274.72	-1174.06	-1926.00	1492.82	0.00	0.00	0.00	
80	7500.00	90.00	269.45	6530.00	-1275.69	-1274.05	-1926.00	1514.76	0.00	0.00	0.00	

Peterson Energy Management, Inc.  
 2154 W. Eisenhower Blvd.  
 Loveland CO, 80537  
 P: 970-669-7411 F: 970-669-4077  
 C.L.D.



Aug 06, 2012 04:08 PM

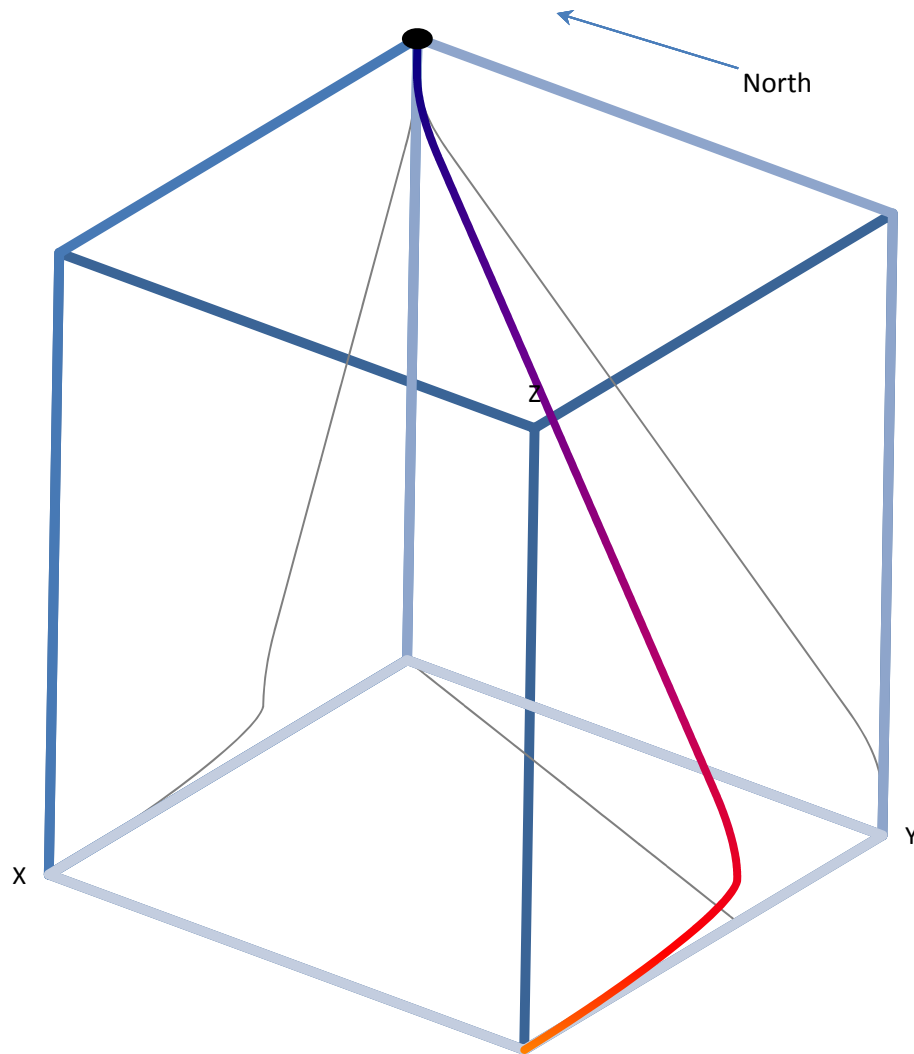
#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
81	7600.00	90.00	269.45	6530.00	-1276.66	-1374.05	-1926.00	1536.70	0.00	0.00	0.00	
82	7700.00	90.00	269.45	6530.00	-1277.63	-1474.04	-1926.00	1558.64	0.00	0.00	0.00	
83	7800.00	90.00	269.45	6530.00	-1278.59	-1574.04	-1926.00	1580.58	0.00	0.00	0.00	
84	7900.00	90.00	269.45	6530.00	-1279.56	-1674.03	-1926.00	1602.52	0.00	0.00	0.00	
85	8000.00	90.00	269.45	6530.00	-1280.53	-1774.03	-1926.00	1624.46	0.00	0.00	0.00	
86	8100.00	90.00	269.45	6530.00	-1281.49	-1874.02	-1926.00	1646.40	0.00	0.00	0.00	
87	8200.00	90.00	269.45	6530.00	-1282.46	-1974.02	-1926.00	1668.34	0.00	0.00	0.00	
88	8300.00	90.00	269.45	6530.00	-1283.43	-2074.01	-1926.00	1690.28	0.00	0.00	0.00	
89	8400.00	90.00	269.45	6530.00	-1284.39	-2174.01	-1926.00	1712.22	0.00	0.00	0.00	
90	8500.00	90.00	269.45	6530.00	-1285.36	-2274.00	-1926.00	1734.16	0.00	0.00	0.00	
91	8600.00	90.00	269.45	6530.00	-1286.33	-2374.00	-1926.00	1756.10	0.00	0.00	0.00	
92	8662.00	90.00	269.45	6530.00	-1286.93	-2436.00	-1926.00	1769.70	0.00	0.00	0.00	

Closure is 2755.0435 feet on an Azimuth of 242.1527



# PETERSON ENERGY

MANAGEMENT INC.



**HOSHIKO #1-1-36H 3D Plot**

