



Scientific Drilling

Survey Report

Well Name:		Nice et al Unit A #1H							
Survey:		Computed Nice et al Unit A #1H							
Survey Date:		3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011							
MD	Type	Inc	Azim	TVD	VS	Northing	Easting	DLS	
ft		deg	deg	ft	ft	ft	ft	deg/100ft	
0.00	Tie-in	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	
108.00	Gyro	0.17	310.28	108.00	0.14	0.10	-0.12	0.16	
208.00	Gyro	0.18	331.14	208.00	0.43	0.34	-0.31	0.06	
308.00	Gyro	0.12	341.09	308.00	0.69	0.57	-0.42	0.07	
408.00	Gyro	0.06	338.12	408.00	0.84	0.72	-0.47	0.06	
508.00	Gyro	0.12	285.79	508.00	0.96	0.80	-0.59	0.10	
608.00	Gyro	0.12	295.36	608.00	1.10	0.87	-0.79	0.02	
708.00	Gyro	0.01	118.58	708.00	1.17	0.91	-0.88	0.13	
808.00	Gyro	0.03	42.75	808.00	1.17	0.93	-0.85	0.03	
908.00	Gyro	0.02	33.27	908.00	1.20	0.96	-0.82	0.01	
1008.00	Gyro	0.18	52.07	1008.00	1.25	1.07	-0.69	0.16	
1108.00	Gyro	0.13	12.77	1108.00	1.39	1.28	-0.54	0.11	
1208.00	Gyro	0.19	62.88	1208.00	1.50	1.47	-0.37	0.15	
1308.00	Gyro	0.28	44.54	1308.00	1.62	1.72	-0.05	0.12	
1408.00	Gyro	0.55	34.77	1407.99	1.98	2.28	0.39	0.28	
1508.00	Gyro	0.78	23.81	1507.99	2.73	3.30	0.94	0.26	
1608.00	Gyro	1.07	8.60	1607.97	4.02	4.85	1.36	0.38	
1708.00	Gyro	1.02	12.47	1707.96	5.57	6.64	1.69	0.09	
1808.00	Gyro	0.68	36.17	1807.95	6.62	7.99	2.23	0.48	
1908.00	Gyro	0.59	72.44	1907.94	6.91	8.62	3.07	0.40	
2008.00	Gyro	0.74	83.69	2007.93	6.70	8.85	4.21	0.20	
2108.00	Gyro	1.08	75.98	2107.92	6.42	9.15	5.76	0.36	
2208.00	Gyro	1.23	74.30	2207.90	6.19	9.67	7.71	0.15	
2308.00	Gyro	1.33	66.16	2307.88	6.13	10.43	9.80	0.21	
2408.00	Gyro	1.48	66.07	2407.85	6.24	11.42	12.05	0.15	
2508.00	Gyro	1.48	65.19	2507.81	6.37	12.48	14.40	0.02	
2608.00	Gyro	0.83	48.56	2607.79	6.70	13.51	16.11	0.72	
2708.00	Gyro	0.33	0.37	2707.79	7.21	14.27	16.66	0.66	
2808.00	Gyro	0.28	342.39	2807.79	7.73	14.79	16.59	0.11	
2908.00	Gyro	0.31	352.55	2907.78	8.23	15.29	16.48	0.06	
3008.00	Gyro	0.37	348.30	3007.78	8.81	15.88	16.38	0.07	
3108.00	Gyro	0.42	324.93	3107.78	9.49	16.50	16.10	0.17	
3208.00	Gyro	0.45	320.33	3207.78	10.22	17.10	15.64	0.05	
3308.00	Gyro	0.45	314.50	3307.77	10.95	17.68	15.11	0.05	
3408.00	Gyro	0.44	307.66	3407.77	11.63	18.18	14.53	0.05	
3508.00	Gyro	0.46	320.56	3507.77	12.35	18.73	13.97	0.10	
3608.00	Gyro	0.43	305.89	3607.77	13.04	19.26	13.41	0.12	
3708.00	Gyro	0.41	328.83	3707.76	13.71	19.79	12.92	0.17	
3808.00	Gyro	0.48	312.36	3807.76	14.44	20.37	12.42	0.15	



Scientific Drilling

Survey Report

Well Name:		Nice et al Unit A #1H						
Survey:		Computed Nice et al Unit A #1H						
Survey Date:		3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011						
MD ft	Type	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft
3908.00	Gyro	0.36	340.95	3907.76	15.13	20.95	12.01	0.24
4008.00	Gyro	0.39	18.04	4007.76	15.71	21.57	12.01	0.24
4108.00	Gyro	0.43	21.53	4107.75	16.24	22.25	12.26	0.05
4208.00	Gyro	0.57	45.10	4207.75	16.72	22.95	12.75	0.25
4308.00	Gyro	0.85	44.29	4307.74	17.22	23.83	13.62	0.28
4408.00	Gyro	0.91	46.40	4407.73	17.83	24.91	14.71	0.07
4508.00	Gyro	0.92	45.69	4507.72	18.44	26.02	15.86	0.02
4608.00	Gyro	0.89	43.40	4607.70	19.08	27.14	16.97	0.05
4708.00	Gyro	0.84	59.11	4707.69	19.53	28.08	18.13	0.24
4808.00	Gyro	0.89	62.89	4807.68	19.73	28.81	19.45	0.08
4908.00	Gyro	0.90	67.80	4907.67	19.82	29.46	20.87	0.08
5008.00	Gyro	0.85	64.49	5007.66	19.89	30.08	22.27	0.07
5108.00	Gyro	0.63	58.86	5107.65	20.03	30.68	23.41	0.23
5208.00	Gyro	0.74	41.16	5207.64	20.42	31.45	24.30	0.24
5308.00	Gyro	0.94	23.13	5307.63	21.31	32.69	25.05	0.33
5408.00	Gyro	0.86	25.65	5407.62	22.40	34.12	25.70	0.09
5508.00	Gyro	0.81	26.56	5507.61	23.39	35.43	26.34	0.05
5608.00	Gyro	0.80	25.73	5607.60	24.34	36.69	26.96	0.02
5708.00	Gyro	0.65	17.35	5707.59	25.25	37.86	27.43	0.18
5774.00	User mag	0.99	344.10	5773.58	26.11	38.77	27.38	0.86
5806.00	User mag	4.93	330.61	5805.54	27.75	40.23	26.63	12.42
5837.00	User mag	8.16	329.19	5836.33	31.24	43.28	24.85	10.45
5869.00	User mag	9.42	329.56	5867.95	36.06	47.49	22.36	3.95
5901.00	User mag	9.01	328.87	5899.54	41.12	51.90	19.74	1.32
5933.00	User mag	8.18	326.32	5931.18	45.82	55.94	17.18	2.88
5964.00	User mag	8.42	330.94	5961.86	50.22	59.75	14.86	2.28
5996.00	User mag	8.60	335.52	5993.50	54.93	63.98	12.73	2.19
6028.00	User mag	9.13	341.67	6025.12	59.85	68.56	10.94	3.40
6060.00	User mag	10.68	343.44	6056.64	65.34	73.82	9.29	4.92
6092.00	User mag	12.71	343.73	6087.98	71.80	80.04	7.46	6.35
6124.00	User mag	14.86	342.04	6119.06	79.41	87.32	5.21	6.83
6155.00	User mag	16.61	341.03	6148.89	87.80	95.29	2.54	5.72
6187.00	User mag	18.81	339.69	6179.37	97.53	104.46	-0.73	6.98
6219.00	User mag	21.16	337.95	6209.44	108.47	114.65	-4.69	7.56
6251.00	User mag	23.46	336.35	6239.05	120.60	125.84	-9.42	7.43
6282.00	User mag	25.35	335.64	6267.28	133.40	137.54	-14.63	6.19
6314.00	User mag	28.43	336.29	6295.81	147.86	150.76	-20.52	9.67
6346.00	User mag	31.68	337.01	6323.51	163.87	165.47	-26.87	10.21



Scientific Drilling

Survey Report

Well Name:		Nice et al Unit A #1H						
Survey:		Computed Nice et al Unit A #1H						
Survey Date:		3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011						
MD	Type	Inc	Azim	TVD	VS	Northing	Easting	DLS
ft		deg	deg	ft	ft	ft	ft	deg/100ft
6378.00	User mag	35.81	337.26	6350.11	181.64	181.85	-33.77	12.93
6410.00	User mag	39.16	337.35	6375.50	201.11	199.81	-41.29	10.45
6442.00	User mag	43.82	339.12	6399.46	222.30	219.50	-49.13	15.01
6474.00	User mag	47.76	339.88	6421.77	245.23	240.98	-57.15	12.44
6506.00	User mag	52.80	339.51	6442.22	269.83	264.05	-65.70	15.78
6538.00	User mag	57.15	338.54	6460.58	296.02	288.52	-75.08	13.82
6570.00	User mag	61.89	338.11	6476.80	323.59	314.13	-85.26	14.84
6602.00	User mag	65.72	338.23	6490.93	352.30	340.78	-95.94	11.99
6634.00	User mag	67.44	338.78	6503.65	381.66	368.10	-106.70	5.60
6666.00	User mag	69.57	339.46	6515.37	411.44	395.92	-117.31	6.96
6697.00	User mag	71.49	339.32	6525.70	440.66	423.28	-127.59	6.19
6729.00	User mag	73.17	338.96	6535.41	471.15	451.77	-138.45	5.38
6761.00	User mag	74.65	339.30	6544.28	501.89	480.50	-149.41	4.74
6793.00	User mag	75.00	339.05	6552.66	532.77	509.36	-160.39	1.31
6825.00	User mag	75.87	339.07	6560.70	563.74	538.29	-171.46	2.72
6857.00	User mag	75.83	339.04	6568.53	594.77	567.27	-182.55	0.13
6889.00	User mag	78.35	339.28	6575.68	625.96	596.42	-193.64	7.88
6920.00	User mag	79.88	339.04	6581.53	656.40	624.87	-204.48	5.01
6951.00	User mag	84.08	340.04	6585.85	687.09	653.62	-215.20	13.91
6982.00	User mag	85.49	340.50	6588.67	717.94	682.68	-225.63	4.80
7013.00	User mag	87.14	340.27	6590.66	748.86	711.82	-236.01	5.37
7044.00	User mag	87.45	339.73	6592.12	779.82	740.91	-246.60	2.00
7075.00	User mag	87.89	339.98	6593.38	810.79	769.99	-257.27	1.62
7106.00	User mag	87.98	339.69	6594.50	841.76	799.07	-267.95	1.00
7137.00	User mag	88.52	340.07	6595.45	872.74	828.17	-278.61	2.14
7168.00	User mag	88.99	339.96	6596.12	903.72	857.29	-289.20	1.56
7229.00	User mag	89.19	339.34	6597.08	964.70	914.48	-310.41	1.08
7290.00	User mag	89.90	339.18	6597.57	1025.69	971.52	-332.01	1.18
7352.00	User mag	90.67	339.06	6597.26	1087.69	1029.45	-354.11	1.26
7414.00	User mag	91.21	338.69	6596.24	1149.68	1087.28	-376.45	1.05
7476.00	User mag	90.60	338.65	6595.26	1211.67	1145.03	-398.99	0.98
7537.00	User mag	90.34	338.70	6594.76	1272.67	1201.85	-421.18	0.45
7598.00	User mag	91.01	339.04	6594.04	1333.67	1258.74	-443.17	1.24
7660.00	User mag	90.60	339.05	6593.17	1395.66	1316.64	-465.33	0.65
7722.00	User mag	90.37	339.25	6592.65	1457.65	1374.57	-487.40	0.49
7784.00	User mag	91.21	339.60	6591.79	1519.64	1432.61	-509.18	1.47
7845.00	User mag	90.74	338.08	6590.76	1580.63	1489.49	-531.20	2.62
7907.00	User mag	89.93	337.49	6590.39	1642.62	1546.89	-554.64	1.61



Scientific Drilling

Survey Report

Well Name:		Nice et al Unit A #1H						
Survey:		Computed Nice et al Unit A #1H						
Survey Date:		3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011						
MD	Type	Inc	Azim	TVD	VS	Northing	Easting	DLS
ft		deg	deg	ft	ft	ft	ft	deg/100ft
7971.00	User mag	89.83	337.22	6590.52	1706.61	1605.95	-579.29	0.45
8035.00	User mag	90.03	336.76	6590.60	1770.58	1664.86	-604.31	0.78
8099.00	User mag	90.91	337.68	6590.07	1834.56	1723.86	-629.09	1.98
8162.00	User mag	90.17	337.83	6589.48	1897.55	1782.17	-652.94	1.20
8226.00	User mag	89.97	336.59	6589.41	1961.53	1841.17	-677.73	1.97
8290.00	User mag	90.77	336.00	6589.00	2025.47	1899.77	-703.46	1.56
8353.00	User mag	91.71	335.27	6587.63	2088.37	1957.14	-729.44	1.89
8417.00	User mag	91.48	333.81	6585.85	2152.18	2014.90	-756.94	2.31
8480.00	User mag	91.07	336.11	6584.45	2215.04	2071.96	-783.60	3.70
8543.00	User mag	91.64	338.13	6582.95	2277.99	2129.99	-808.09	3.34
8607.00	User mag	91.85	337.63	6581.00	2341.96	2189.25	-832.17	0.85
8671.00	User mag	91.14	337.97	6579.33	2405.93	2248.49	-856.35	1.23
8734.00	User mag	90.97	338.36	6578.17	2468.92	2306.96	-879.77	0.67
8798.00	User mag	91.68	338.14	6576.69	2532.90	2366.38	-903.48	1.16
8862.00	User mag	92.28	337.93	6574.48	2596.86	2425.70	-927.41	1.00
8926.00	User mag	91.17	337.35	6572.55	2660.82	2484.86	-951.75	1.95
8989.00	User mag	90.84	337.38	6571.44	2723.79	2543.00	-975.99	0.53
9053.00	User mag	91.28	337.12	6570.26	2787.76	2602.00	-1000.74	0.79
9116.00	User mag	90.47	337.22	6569.30	2850.73	2660.06	-1025.18	1.29
9180.00	User mag	89.97	337.60	6569.06	2914.72	2719.15	-1049.76	0.98
9243.00	User mag	89.80	337.33	6569.18	2977.71	2777.34	-1073.91	0.51
9306.00	User mag	90.00	337.66	6569.30	3040.69	2835.54	-1098.02	0.62
9370.00	User mag	89.97	337.51	6569.31	3104.68	2894.71	-1122.43	0.25
9433.00	User mag	89.76	337.49	6569.46	3167.67	2952.91	-1146.53	0.32
9497.00	User mag	89.97	337.33	6569.61	3231.66	3012.00	-1171.12	0.41
9560.00	User mag	90.07	337.37	6569.59	3294.64	3070.14	-1195.38	0.17
9624.00	User mag	89.90	337.25	6569.61	3358.63	3129.19	-1220.07	0.32
9688.00	User mag	89.90	336.40	6569.73	3422.59	3188.02	-1245.26	1.33
9751.00	User mag	90.30	336.12	6569.61	3485.54	3245.69	-1270.63	0.78
9814.00	User mag	90.47	335.22	6569.19	3548.46	3303.09	-1296.59	1.45
9878.00	User mag	90.20	335.75	6568.82	3612.36	3361.32	-1323.14	0.92
9942.00	User mag	90.87	336.98	6568.22	3676.31	3419.95	-1348.80	2.20
10006.00	User mag	90.07	337.73	6567.69	3740.29	3479.01	-1373.44	1.71
10069.00	User mag	89.87	337.92	6567.73	3803.28	3537.35	-1397.22	0.45
10133.00	User mag	90.91	337.81	6567.30	3867.27	3596.63	-1421.33	1.64
10197.00	User mag	90.20	337.99	6566.68	3931.27	3655.93	-1445.41	1.14
10260.00	User mag	89.43	338.46	6566.88	3994.26	3714.43	-1468.78	1.43
10323.00	User mag	88.79	339.41	6567.86	4057.25	3773.21	-1491.42	1.83
10387.00	User mag	88.79	340.38	6569.21	4121.22	3833.30	-1513.42	1.51



Scientific Drilling

Survey Report

Well Name:		Nice et al Unit A #1H						
Survey:		Computed Nice et al Unit A #1H						
Survey Date:		3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011						
MD	Type	Inc	Azim	TVD	VS	Northing	Easting	DLS
ft		deg	deg	ft	ft	ft	ft	deg/100ft
10451.00	User mag	89.09	340.05	6570.39	4185.19	3893.51	-1535.08	0.69
10514.00	User mag	89.39	340.07	6571.22	4248.16	3952.73	-1556.56	0.48
10578.00	User mag	89.83	339.73	6571.66	4312.14	4012.83	-1578.55	0.87
10642.00	User mag	90.10	340.11	6571.69	4376.13	4072.94	-1600.52	0.72
10705.00	User mag	90.64	341.08	6571.29	4439.09	4132.36	-1621.45	1.76
10768.00	User mag	91.21	341.23	6570.27	4502.02	4191.97	-1641.80	0.94
10832.00	User mag	91.85	341.02	6568.56	4565.93	4252.51	-1662.50	1.05
10896.00	User mag	91.41	340.59	6566.73	4629.86	4312.93	-1683.53	0.96
10960.00	User mag	91.08	338.48	6565.34	4693.83	4372.87	-1705.90	3.35
11023.00	User mag	91.72	339.38	6563.80	4756.81	4431.64	-1728.54	1.75
11087.00	User mag	90.77	339.03	6562.41	4820.79	4491.45	-1751.26	1.57
11151.00	User mag	91.14	340.31	6561.34	4884.77	4551.46	-1773.49	2.09
11214.00	User mag	90.17	339.63	6560.62	4947.75	4610.64	-1795.07	1.89
11278.00	User mag	89.97	338.98	6560.54	5011.74	4670.51	-1817.68	1.07
11341.00	User mag	90.34	337.90	6560.38	5074.74	4729.10	-1840.83	1.80
11404.00	User mag	90.87	337.89	6559.71	5137.73	4787.47	-1864.53	0.85
11467.00	User mag	89.80	336.74	6559.34	5200.71	4845.59	-1888.83	2.50
11531.00	User mag	89.33	337.47	6559.83	5264.69	4904.55	-1913.72	1.36
11594.00	User mag	89.46	338.08	6560.50	5327.67	4962.87	-1937.55	0.99
11657.00	User mag	89.93	338.48	6560.83	5390.67	5021.39	-1960.87	0.98
11721.00	User mag	90.54	338.77	6560.57	5454.67	5080.99	-1984.20	1.05
11784.00	User mag	91.15	339.53	6559.64	5517.66	5139.85	-2006.62	1.54
11848.00	User mag	90.17	337.93	6558.91	5581.65	5199.49	-2029.83	2.92
11911.00	User mag	89.83	336.97	6558.91	5644.64	5257.67	-2053.99	1.61
11975.00	User mag	90.27	336.18	6558.85	5708.60	5316.40	-2079.43	1.42
12038.00	User mag	90.84	336.71	6558.24	5771.55	5374.14	-2104.61	1.24
12102.00	User mag	90.84	334.99	6557.30	5835.47	5432.53	-2130.79	2.69
12166.00	User mag	89.66	335.08	6557.02	5899.34	5490.55	-2157.80	1.85
12229.00	User mag	89.46	335.16	6557.50	5962.22	5547.71	-2184.30	0.34
12292.00	User mag	89.87	335.71	6557.87	6025.12	5605.00	-2210.49	1.09
12355.00	User mag	89.73	336.81	6558.09	6088.07	5662.67	-2235.86	1.76
12418.00	User mag	90.27	336.95	6558.09	6151.04	5720.61	-2260.59	0.89
12482.00	User mag	90.88	337.67	6557.45	6215.02	5779.65	-2285.28	1.47
12545.00	User mag	90.87	336.82	6556.49	6278.00	5837.74	-2309.64	1.36
12609.00	User mag	91.21	337.33	6555.32	6341.96	5896.68	-2334.57	0.96
12672.00	User mag	91.68	336.83	6553.73	6404.92	5954.69	-2359.09	1.10
12736.00	User mag	91.92	336.17	6551.72	6468.84	6013.35	-2384.61	1.10
12800.00	User mag	92.19	336.31	6549.43	6532.75	6071.88	-2410.38	0.48



Scientific Drilling

Survey Report

Well Name: Nice et al Unit A #1H
 Survey: Computed Nice et al Unit A #1H
 Survey Date: 3/30/2011, 3/31/2011, 4/11/2011, 4/12/2011, 4/13/2011, 4/15/2011, 4/8/2011

MD ft	Type	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft
12864.00	User mag	91.81	335.43	6547.19	6596.64	6130.26	-2436.52	1.50
12927.00	User mag	92.59	335.36	6544.77	6659.49	6187.49	-2462.74	1.23
12991.00	User mag	92.82	335.11	6541.75	6723.31	6245.54	-2489.52	0.53

13048

6591