

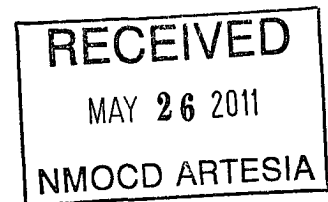
Scientific Drilling

Gyroscopic Survey Report
for
DEVON

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	NORTH PURE GOLD 8 FED 15 H
Rig Name	H&P 416
Survey Date	1/13/2011
Latitude	32.31 deg
North Reference	Grid North
Grid Correction	-0.29 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 359.65Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	FRANK RENTERIA

Comments

25 FOOT KB



SUR: A -17-23s - 31e, 440/N & 330/E
BHL: A - 8 - 23s - 31e, 360/N & 418/E
API # 30-015-38282

Scientific Drilling Survey Report

Well Name:		NORTH PURE GOLD 8 FED 15 H							
Survey:		FINAL GYRO SURVEY							
Survey Date:		1/13/2011							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.32	304.07	100.00	0.16	0.16	-0.23	0.32	0.28	304.07
200.00	0.29	307.71	200.00	0.47	0.47	-0.66	0.03	0.81	305.22
300.00	0.28	284.05	300.00	0.69	0.68	-1.10	0.12	1.30	301.80
400.00	0.19	274.16	400.00	0.77	0.76	-1.51	0.10	1.68	296.68
500.00	0.10	299.41	500.00	0.82	0.81	-1.74	0.10	1.92	294.95
600.00	0.08	185.78	600.00	0.80	0.78	-1.83	0.15	1.99	293.24
700.00	0.06	195.73	700.00	0.67	0.66	-1.85	0.02	1.96	289.74
800.00	0.08	1.16	800.00	0.69	0.68	-1.86	0.14	1.98	290.05
900.00	0.04	283.57	900.00	0.77	0.76	-1.90	0.08	2.04	291.71
1000.00	0.11	85.20	1000.00	0.78	0.77	-1.84	0.15	1.99	292.82
1100.00	0.19	136.17	1100.00	0.67	0.66	-1.62	0.15	1.75	292.16
1200.00	0.12	198.96	1199.99	0.45	0.44	-1.54	0.17	1.60	285.96
1300.00	0.21	168.93	1299.99	0.17	0.16	-1.54	0.12	1.55	275.89
1400.00	0.17	167.57	1399.99	-0.16	-0.17	-1.47	0.04	1.48	263.53
1500.00	0.17	233.21	1499.99	-0.39	-0.40	-1.56	0.19	1.61	255.56
1600.00	0.20	221.65	1599.99	-0.61	-0.62	-1.80	0.04	1.90	250.93
1700.00	0.15	181.89	1699.99	-0.87	-0.88	-1.92	0.13	2.11	245.30
1800.00	0.07	257.94	1799.99	-1.01	-1.03	-1.98	0.15	2.23	242.60
1900.00	0.18	231.94	1899.99	-1.12	-1.14	-2.16	0.13	2.44	242.28
2000.00	0.14	261.67	1999.99	-1.24	-1.25	-2.41	0.09	2.71	242.51
2100.00	0.14	209.86	2099.99	-1.36	-1.37	-2.58	0.12	2.93	241.99
2200.00	0.15	291.91	2199.99	-1.41	-1.43	-2.77	0.19	3.12	242.68
2300.00	0.04	321.76	2299.99	-1.33	-1.35	-2.92	0.12	3.21	245.16
2400.00	0.15	15.36	2399.99	-1.18	-1.20	-2.91	0.13	3.14	247.63
2500.00	0.32	330.76	2499.99	-0.81	-0.83	-3.01	0.24	3.12	254.64
2600.00	0.50	332.96	2599.99	-0.18	-0.20	-3.34	0.18	3.35	266.64
2700.00	0.74	330.31	2699.98	0.77	0.75	-3.86	0.25	3.93	281.01
2800.00	0.87	329.32	2799.97	1.99	1.96	-4.57	0.13	4.97	293.27
2900.00	0.82	329.48	2899.96	3.26	3.23	-5.31	0.05	6.22	301.28
3000.00	0.85	332.88	2999.95	4.54	4.50	-6.01	0.06	7.51	306.82
3100.00	0.80	332.03	3099.94	5.82	5.78	-6.68	0.05	8.83	310.86
3200.00	0.98	344.44	3199.93	7.26	7.22	-7.23	0.27	10.22	314.93
3300.00	0.94	27.03	3299.92	8.81	8.77	-7.09	0.70	11.28	321.04
3400.00	1.25	95.81	3399.90	9.42	9.39	-5.64	1.26	10.95	329.02
3500.00	1.36	107.60	3499.88	8.94	8.92	-3.42	0.29	9.55	339.01
3600.00	1.64	123.98	3599.84	7.77	7.76	-1.11	0.51	7.84	351.89
3700.00	2.12	131.55	3699.79	5.73	5.74	1.46	0.54	5.92	14.29
3800.00	2.60	140.67	3799.70	2.73	2.76	4.28	0.61	5.09	57.22

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Survey Date:		1/13/2011							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	2.53	140.77	3899.60	-0.75	-0.71	7.11	0.07	7.15	95.66
4000.00	1.99	138.62	3999.52	-3.77	-3.71	9.65	0.55	10.34	111.04
4100.00	1.59	138.43	4099.48	-6.13	-6.05	11.72	0.39	13.19	117.31
4200.00	1.47	133.08	4199.44	-8.05	-7.97	13.58	0.19	15.75	120.41
4300.00	1.31	131.89	4299.41	-9.70	-9.61	15.37	0.16	18.12	122.01
4400.00	1.15	138.63	4399.39	-11.23	-11.12	16.88	0.21	20.21	123.38
4500.00	1.11	123.22	4499.37	-12.52	-12.40	18.35	0.31	22.15	124.06
4600.00	1.11	108.61	4599.35	-13.36	-13.24	20.08	0.28	24.05	123.41
4700.00	0.99	108.00	4699.33	-13.95	-13.82	21.81	0.12	25.82	122.35
4800.00	0.95	97.76	4799.32	-14.34	-14.20	23.46	0.18	27.42	121.18
4900.00	0.65	98.52	4899.31	-14.54	-14.39	24.84	0.30	28.71	120.08
5000.00	0.38	97.79	4999.30	-14.68	-14.52	25.74	0.27	29.55	119.43
5100.00	0.48	96.98	5099.30	-14.78	-14.62	26.49	0.10	30.25	118.89
5200.00	0.30	76.86	5199.30	-14.78	-14.61	27.16	0.22	30.84	118.27
5300.00	0.29	78.09	5299.30	-14.67	-14.50	27.67	0.01	31.24	117.65
5400.00	0.24	71.57	5399.30	-14.55	-14.38	28.11	0.06	31.58	117.09
5500.00	0.29	68.35	5499.30	-14.40	-14.22	28.54	0.05	31.89	116.49
5600.00	0.08	10.95	5599.30	-14.23	-14.06	28.79	0.25	32.04	116.02
5700.00	0.13	313.63	5699.30	-14.08	-13.91	28.72	0.11	31.91	115.83
5800.00	0.30	277.91	5799.29	-13.96	-13.79	28.38	0.21	31.55	115.92
5900.00	0.26	261.60	5899.29	-13.96	-13.79	27.89	0.09	31.11	116.31
6000.00	0.41	229.07	5999.29	-14.22	-14.06	27.39	0.24	30.79	117.16
6100.00	0.73	197.70	6099.29	-15.06	-14.90	26.93	0.44	30.78	118.95
6200.00	0.77	190.40	6199.28	-16.33	-16.17	26.61	0.10	31.14	121.29
6300.00	1.12	197.45	6299.26	-17.93	-17.77	26.20	0.36	31.66	124.15
6400.00	1.15	195.66	6399.24	-19.83	-19.67	25.63	0.05	32.31	127.50
6500.00	1.12	185.85	6499.23	-21.76	-21.61	25.26	0.20	33.24	130.54
6600.00	1.00	159.09	6599.21	-23.55	-23.39	25.48	0.50	34.59	132.56
6700.00	0.97	153.00	6699.19	-25.12	-24.97	26.17	0.11	36.17	133.65
6800.00	0.97	138.40	6799.18	-26.52	-26.35	27.12	0.25	37.81	134.18
6900.00	1.02	153.17	6899.16	-27.95	-27.78	28.08	0.26	39.51	134.69
7000.00	0.73	174.62	6999.15	-29.39	-29.22	28.55	0.43	40.85	135.66
7100.00	0.66	169.62	7099.15	-30.59	-30.42	28.71	0.09	41.83	136.65
7200.00	0.81	179.14	7199.14	-31.87	-31.70	28.83	0.19	42.84	137.71
7300.00	0.76	202.92	7299.13	-33.19	-33.01	28.58	0.33	43.67	139.12
7400.00	1.00	204.63	7399.12	-34.59	-34.42	27.95	0.24	44.34	140.92
7500.00	1.07	213.96	7499.10	-36.15	-35.99	27.07	0.18	45.03	143.05
7600.00	1.24	209.74	7599.08	-37.86	-37.70	26.01	0.19	45.80	145.40

Scientific Drilling Survey Report

Well Name: NORTH PURE GOLD 8 FED 15 H
 Survey: FINAL GYRO SURVEY
 Survey Date: 1/13/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
7700.00	1.44	215.47	7699.05	-39.82	-39.67	24.74	0.24	46.75	148.04
7791.00	1.59	207.49	7790.02	-41.86	-41.72	23.50	0.29	47.88	150.61