



Scientific Drilling

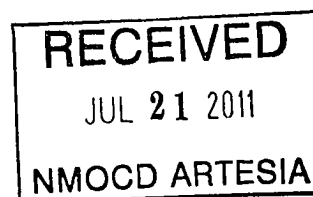
Gyroscopic Survey Report
for
DEVON

30-015-37616

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	NORTH PURE GOLD 9 FED 18 H
Rig Name	H&P 372
Survey Date	3/15/2011
Latitude	32.31 deg
North Reference	Grid North
Grid Correction	-0.30 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 359.68Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	FRANK RENTERIA

Comments

25 FOOT KB





Scientific Drilling

Survey Report

Well Name: NORTH PURE GOLD 9 FED 18 H
Survey: FINAL GYRO SURVEY
Survey Date: 3/15/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.48	269.39	100.00	0.00	0.00	-0.42	0.48	0.42	269.39
200.00	0.40	251.93	200.00	-0.11	-0.12	-1.17	0.16	1.18	264.29
300.00	0.51	258.18	299.99	-0.31	-0.32	-1.94	0.12	1.97	260.73
400.00	0.98	274.20	399.98	-0.33	-0.35	-3.23	0.51	3.25	263.90
500.00	1.35	278.48	499.96	-0.08	-0.11	-5.25	0.38	5.25	268.82
600.00	1.33	276.15	599.94	0.23	0.19	-7.58	0.06	7.58	271.44
700.00	1.21	282.45	699.91	0.60	0.54	-9.77	0.19	9.78	273.18
800.00	1.09	286.41	799.89	1.10	1.04	-11.71	0.14	11.76	275.07
900.00	1.00	286.91	899.87	1.64	1.56	-13.46	0.09	13.55	276.62
1000.00	0.91	284.98	999.86	2.10	2.02	-15.06	0.10	15.20	277.64
1100.00	0.89	293.19	1099.85	2.62	2.53	-16.54	0.13	16.73	278.70
1200.00	0.86	290.78	1199.84	3.20	3.10	-17.95	0.05	18.22	279.80
1300.00	0.80	288.70	1299.83	3.70	3.59	-19.31	0.06	19.64	280.53
1400.00	0.79	284.37	1399.82	4.10	3.98	-20.64	0.06	21.02	280.93
1500.00	0.85	285.60	1499.81	4.48	4.35	-22.01	0.06	22.44	281.19
1600.00	0.71	277.97	1599.80	4.77	4.64	-23.34	0.17	23.80	281.24
1700.00	0.74	273.83	1699.79	4.90	4.77	-24.60	0.06	25.05	280.97
1800.00	0.74	271.36	1799.78	4.97	4.83	-25.89	0.03	26.33	280.56
1900.00	0.76	271.51	1899.77	5.01	4.86	-27.20	0.02	27.63	280.13
2000.00	0.74	279.92	1999.76	5.15	4.99	-28.50	0.11	28.94	279.93
2100.00	0.74	267.82	2099.76	5.24	5.08	-29.79	0.16	30.22	279.67
2200.00	0.77	271.30	2199.75	5.24	5.07	-31.11	0.06	31.52	279.25
2300.00	0.89	271.23	2299.74	5.28	5.10	-32.56	0.12	32.96	278.90
2400.00	1.02	267.46	2399.72	5.27	5.08	-34.23	0.15	34.60	278.43
2500.00	1.19	276.78	2499.70	5.36	5.16	-36.15	0.24	36.52	278.12
2600.00	1.03	273.91	2599.68	5.55	5.34	-38.07	0.17	38.45	277.99
2700.00	1.53	275.14	2699.66	5.75	5.52	-40.30	0.51	40.68	277.80
2800.00	2.03	271.63	2799.61	5.93	5.69	-43.41	0.51	43.78	277.47
2900.00	2.53	270.05	2899.53	6.01	5.74	-47.38	0.50	47.73	276.91
3000.00	2.43	270.92	2999.44	6.07	5.78	-51.72	0.10	52.04	276.38
3100.00	2.31	270.15	3099.35	6.13	5.82	-55.85	0.13	56.15	275.95
3200.00	1.64	274.63	3199.29	6.27	5.94	-59.28	0.69	59.58	275.72
3300.00	0.73	278.74	3299.27	6.50	6.15	-61.34	0.91	61.65	275.73
3400.00	0.18	120.38	3399.27	6.51	6.17	-61.83	0.90	62.14	275.70
3500.00	0.21	85.93	3499.27	6.45	6.10	-61.51	0.12	61.82	275.67
3600.00	0.81	90.48	3599.26	6.45	6.11	-60.63	0.60	60.94	275.75
3700.00	1.32	96.50	3699.24	6.30	5.97	-58.78	0.53	59.08	275.80
3800.00	1.88	104.05	3799.21	5.76	5.44	-56.04	0.59	56.30	275.55



Survey Report

Well Name: NORTH PURE GOLD 9 FED 18 H

Survey: FINAL GYRO SURVEY

Survey Date: 3/15/2011

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	1.98	108.08	3899.15	4.80	4.51	-52.80	0.17	53.00	274.88
4000.00	1.85	107.53	3999.09	3.76	3.49	-49.62	0.14	49.75	274.02
4100.00	1.38	112.45	4099.05	2.80	2.54	-46.98	0.49	47.04	273.10
4200.00	0.83	113.58	4199.03	2.05	1.79	-45.20	0.55	45.23	272.27
4300.00	0.68	109.22	4299.03	1.55	1.31	-43.98	0.16	44.00	271.70
4400.00	0.59	112.93	4399.02	1.15	0.91	-42.95	0.10	42.95	271.22
4500.00	0.51	110.48	4499.01	0.79	0.56	-42.06	0.09	42.06	270.76
4600.00	0.36	107.53	4599.01	0.54	0.31	-41.34	0.15	41.34	270.43
4700.00	0.19	73.35	4699.01	0.49	0.26	-40.89	0.23	40.89	270.37
4800.00	0.31	92.26	4799.01	0.52	0.30	-40.47	0.15	40.47	270.42
4900.00	0.31	82.85	4899.01	0.54	0.32	-39.93	0.05	39.93	270.46
5000.00	0.13	89.58	4999.01	0.58	0.35	-39.55	0.19	39.55	270.51
5100.00	0.12	84.58	5099.01	0.59	0.37	-39.33	0.01	39.34	270.53
5200.00	0.09	71.12	5199.01	0.62	0.40	-39.15	0.03	39.16	270.59
5300.00	0.11	97.90	5299.01	0.63	0.41	-38.98	0.05	38.98	270.61
5400.00	0.06	106.08	5399.01	0.60	0.39	-38.83	0.06	38.83	270.57
5500.00	0.10	148.48	5499.01	0.51	0.30	-38.73	0.07	38.73	270.44
5600.00	0.04	215.49	5599.01	0.41	0.19	-38.71	0.09	38.71	270.28
5700.00	0.04	267.78	5699.01	0.38	0.16	-38.77	0.04	38.77	270.24
5800.00	0.07	281.67	5799.01	0.39	0.17	-38.86	0.03	38.86	270.25
5900.00	0.05	8.71	5899.01	0.45	0.23	-38.91	0.08	38.91	270.34
6000.00	0.05	311.38	5999.01	0.52	0.30	-38.93	0.05	38.93	270.45
6100.00	0.17	282.23	6099.01	0.58	0.36	-39.11	0.13	39.11	270.53
6200.00	0.01	234.21	6199.01	0.61	0.39	-39.26	0.16	39.26	270.57
6300.00	0.04	231.42	6299.01	0.58	0.36	-39.29	0.03	39.29	270.53
6400.00	0.14	271.92	6399.01	0.57	0.35	-39.43	0.11	39.43	270.50
6500.00	0.06	189.41	6499.01	0.52	0.30	-39.56	0.14	39.56	270.43
6600.00	0.19	173.01	6599.01	0.30	0.08	-39.55	0.14	39.55	270.11
6700.00	0.16	196.69	6699.01	0.00	-0.22	-39.57	0.08	39.57	269.68
6800.00	0.15	221.29	6799.01	-0.23	-0.46	-39.70	0.07	39.70	269.34
6900.00	0.18	222.46	6899.00	-0.45	-0.67	-39.89	0.04	39.90	269.04
7000.00	0.13	238.44	6999.00	-0.62	-0.85	-40.09	0.07	40.10	268.79
7100.00	0.06	216.22	7099.00	-0.73	-0.95	-40.22	0.07	40.23	268.65
7200.00	0.19	185.29	7199.00	-0.93	-1.16	-40.27	0.13	40.28	268.35
7300.00	0.29	177.11	7299.00	-1.34	-1.57	-40.27	0.11	40.30	267.77
7400.00	0.35	202.71	7399.00	-1.88	-2.10	-40.38	0.15	40.43	267.02
7500.00	0.29	198.57	7499.00	-2.40	-2.63	-40.57	0.06	40.66	266.30
7600.00	0.43	209.27	7599.00	-2.97	-3.20	-40.84	0.16	40.97	265.52



Survey Report

Well Name:		NORTH PURE GOLD 9 FED 18 H								
Survey:		FINAL GYRO SURVEY								
Survey Date:		3/15/2011								
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg	
7700.00	0.50	209.66	7698.99	-3.67	-3.91	-41.24	0.07	41.43	264.59	
7800.00	0.55	216.79	7798.99	-4.44	-4.67	-41.75	0.09	42.01	263.61	
7900.00	0.51	204.44	7898.99	-5.23	-5.46	-42.22	0.12	42.57	262.63	
8000.00	0.49	203.67	7998.98	-6.03	-6.26	-42.58	0.02	43.04	261.63	
8100.00	0.54	208.23	8098.98	-6.83	-7.07	-42.97	0.06	43.55	260.65	
8200.00	0.64	230.26	8198.97	-7.60	-7.84	-43.63	0.25	44.32	259.81	
8300.00	0.71	231.84	8298.97	-8.34	-8.59	-44.55	0.07	45.37	259.09	
8400.00	0.82	233.92	8398.96	-9.14	-9.39	-45.61	0.11	46.57	258.37	
8500.00	0.99	248.03	8498.94	-9.87	-10.14	-46.99	0.28	48.07	257.83	
8600.00	1.12	244.61	8598.93	-10.61	-10.88	-48.68	0.14	49.88	257.40	
8700.00	1.15	249.45	8698.91	-11.37	-11.65	-50.51	0.10	51.83	257.01	
8800.00	1.01	242.18	8798.89	-12.12	-12.42	-52.22	0.19	53.68	256.63	
8900.00	1.11	246.56	8898.87	-12.91	-13.21	-53.90	0.13	55.49	256.22	
9000.00	1.12	251.46	8998.85	-13.60	-13.91	-55.71	0.10	57.42	255.98	
9100.00	0.50	232.86	9098.84	-14.17	-14.48	-56.99	0.67	58.80	255.74	
9200.00	0.35	194.09	9198.84	-14.72	-15.04	-57.41	0.31	59.35	255.32	
9300.00	0.13	334.87	9298.84	-14.91	-15.23	-57.53	0.45	59.51	255.17	
9400.00	0.26	341.60	9398.84	-14.60	-14.92	-57.65	0.13	59.55	255.49	
9500.00	1.17	236.76	9498.83	-14.94	-15.27	-58.57	1.26	60.53	255.39	
9600.00	1.51	231.52	9598.81	-16.31	-16.65	-60.46	0.36	62.71	254.60	
9700.00	1.62	226.79	9698.77	-18.09	-18.44	-62.52	0.17	65.19	253.57	
9800.00	1.57	224.96	9798.73	-20.02	-20.38	-64.52	0.07	67.67	252.47	
9900.00	1.63	210.25	9898.69	-22.21	-22.58	-66.21	0.41	69.96	251.17	
10000.00	1.74	204.53	9998.65	-24.81	-25.19	-67.56	0.20	72.10	249.55	
10100.00	1.58	201.35	10098.61	-27.47	-27.85	-68.69	0.18	74.12	247.93	
10200.00	1.59	199.33	10198.57	-30.05	-30.44	-69.65	0.06	76.01	246.39	
10300.00	1.66	208.96	10298.53	-32.62	-33.02	-70.81	0.28	78.13	245.00	
10400.00	1.89	212.12	10398.48	-35.28	-35.68	-72.39	0.25	80.70	243.76	
10500.00	1.84	218.41	10498.43	-37.92	-38.34	-74.26	0.21	83.57	242.70	
10600.00	2.11	222.51	10598.37	-40.53	-40.96	-76.51	0.31	86.78	241.84	
10700.00	2.11	222.81	10698.30	-43.23	-43.67	-79.01	0.01	90.27	241.07	
10800.00	2.04	233.78	10798.23	-45.62	-46.07	-81.70	0.40	93.79	240.58	
10900.00	2.02	248.25	10898.17	-47.30	-47.78	-84.77	0.51	97.30	240.59	
11000.00	2.11	254.92	10998.11	-48.42	-48.91	-88.18	0.26	100.84	240.99	
11100.00	1.98	253.70	11098.04	-49.36	-49.87	-91.62	0.14	104.31	241.44	
11200.00	1.81	257.43	11197.99	-50.17	-50.70	-94.81	0.21	107.52	241.86	
11300.00	1.84	256.48	11297.94	-50.87	-51.42	-97.91	0.04	110.59	242.29	
11400.00	1.64	255.99	11397.89	-51.58	-52.14	-100.86	0.19	113.54	242.66	



Survey Report

Well Name: NORTH PURE GOLD 9 FED 18 H
Survey: FINAL GYRO SURVEY
Survey Date: 3/15/2011

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
11500.00	1.65	257.56	11497.85	-52.22	-52.80	-103.65	0.05	116.33	243.01
11600.00	1.60	260.52	11597.81	-52.74	-53.34	-106.44	0.09	119.05	243.38
11700.00	1.50	262.64	11697.77	-53.12	-53.73	-109.11	0.12	121.63	243.78
11800.00	1.38	260.16	11797.74	-53.48	-54.11	-111.59	0.13	124.02	244.13
11900.00	1.31	256.25	11897.71	-53.95	-54.59	-113.89	0.11	126.30	244.39
12000.00	1.33	255.74	11997.69	-54.50	-55.14	-116.13	0.02	128.56	244.60
12100.00	1.39	249.50	12097.66	-55.19	-55.86	-118.40	0.16	130.91	244.74
12200.00	1.52	248.32	12197.63	-56.10	-56.77	-120.77	0.13	133.44	244.82
12300.00	1.68	248.64	12297.59	-57.11	-57.80	-123.36	0.16	136.23	244.90
12400.00	1.80	249.00	12397.54	-58.19	-58.89	-126.19	0.11	139.26	244.98
12500.00	1.95	247.98	12497.49	-59.37	-60.09	-129.24	0.16	142.52	245.06
12600.00	1.89	250.43	12597.43	-60.54	-61.28	-132.37	0.11	145.86	245.16
12700.00	1.76	255.50	12697.38	-61.46	-62.22	-135.40	0.21	149.01	245.32
12800.00	1.71	256.28	12797.34	-62.18	-62.95	-138.33	0.05	151.98	245.53
12900.00	1.77	256.55	12897.29	-62.88	-63.67	-141.28	0.06	154.96	245.74
13000.00	1.77	260.13	12997.24	-63.48	-64.29	-144.30	0.11	157.97	245.99
13100.00	1.82	257.90	13097.19	-64.06	-64.89	-147.37	0.09	161.03	246.24
13200.00	2.00	260.51	13197.14	-64.67	-65.51	-150.65	0.20	164.28	246.50
13214.00	2.16	250.35	13211.13	-64.79	-65.64	-151.14	2.87	164.78	246.53