



Scientific Drilling

Gyroscopic Survey Report

for

EOG

30-015-41796

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	RAMBLIN ROSE 14 FED #1
Rig Number	NOMAC #133
Survey Date	12/31/2013
Latitude	32.0450000°N
North Reference	Grid North
Grid Correction	-0.31 deg
Depth Reference	RKB (22.50 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator(s)	DUSTIN FIGUEROA

Well Notes



Well Name: RAMBLIN ROSE 14 FED #1

Survey: FINAL GYRO SURVEY

Survey Date: 12/31/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	Closure Distance ft	Closure Direction deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.25	48.57	100.00	0.14	0.14	0.16	0.25	0.22	48.57
200.00	0.28	62.55	200.00	0.40	0.40	0.54	0.07	0.67	53.64
300.00	0.40	63.89	300.00	0.67	0.67	1.07	0.12	1.26	58.20
400.00	0.46	70.62	399.99	0.95	0.95	1.77	0.08	2.01	61.66
500.00	0.39	72.19	499.99	1.19	1.19	2.47	0.07	2.74	64.26
600.00	0.42	75.78	599.99	1.38	1.38	3.15	0.04	3.44	66.27
700.00	0.35	70.80	699.99	1.57	1.57	3.79	0.08	4.11	67.45
800.00	0.47	65.08	799.98	1.85	1.85	4.45	0.13	4.82	67.46
900.00	0.51	64.14	899.98	2.21	2.21	5.22	0.05	5.67	67.03
1000.00	0.53	70.31	999.98	2.57	2.57	6.06	0.06	6.58	67.06
1100.00	0.57	66.44	1099.97	2.92	2.92	6.96	0.05	7.55	67.22
1200.00	0.45	57.34	1199.97	3.34	3.34	7.75	0.15	8.44	66.72
1300.00	0.41	48.61	1299.96	3.79	3.79	8.35	0.08	9.17	65.62
1400.00	0.37	41.99	1399.96	4.26	4.26	8.83	0.06	9.81	64.27
1500.00	0.17	13.41	1499.96	4.64	4.64	9.08	0.23	10.20	62.92
1600.00	0.43	242.50	1599.96	4.62	4.62	8.79	0.56	9.93	62.27
1700.00	0.47	227.19	1699.96	4.17	4.17	8.16	0.13	9.16	62.93
1800.00	0.41	134.17	1799.96	3.64	3.64	8.12	0.64	8.90	65.85
1900.00	0.36	114.15	1899.95	3.26	3.26	8.66	0.14	9.26	69.38
2000.00	0.50	0.89	1999.95	3.57	3.57	8.96	0.72	9.64	68.30
2100.00	0.84	240.15	2099.95	3.64	3.64	8.33	1.17	9.09	66.42
2200.00	0.33	210.18	2199.94	3.02	3.02	7.55	0.57	8.14	68.20
2300.00	0.22	2.97	2299.94	2.96	2.96	7.42	0.54	7.99	68.24
2400.00	0.27	10.64	2399.94	3.38	3.38	7.47	10.06	8.20	65.65
2500.00	0.35	311.52	2499.94	3.81	3.81	7.28	0.31	8.22	62.38
2600.00	0.54	281.31	2599.94	4.11	4.11	6.59	0.30	7.76	58.07
2700.00	0.70	177.80	2699.93	3.59	3.59	6.15	0.98	7.12	59.70
2800.00	0.89	67.34	2799.93	3.28	3.28	6.89	1.31	7.63	64.51
2900.00	0.80	304.10	2899.92	3.97	3.97	7.02	1.48	8.07	60.51
3000.00	0.79	171.10	2999.92	3.68	3.68	6.55	1.46	7.51	60.70
3100.00	0.87	56.39	3099.91	3.41	3.41	7.29	1.40	8.05	64.91
3200.00	0.58	301.52	3199.91	4.10	4.10	7.49	1.23	8.54	61.34
3300.00	0.28	167.41	3299.91	4.12	4.12	7.12	0.79	8.23	59.91
3400.00	0.41	324.94	3399.91	4.18	4.18	6.97	0.67	8.12	59.04
3500.00	0.56	167.62	3499.90	3.99	3.99	6.87	0.95	7.94	59.85



Well Name: RAMBLIN ROSE 14 FED #1
 Survey: FINAL GYRO SURVEY
 Survey Date: 12/31/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	Closure Distance ft	Closure Direction deg
3600.00	0.57	44.77	3599.90	3.87	3.87	7.33	1.00	8.28	62.18
3700.00	0.27	307.94	3699.90	4.37	4.37	7.49	0.66	8.67	59.77
3800.00	0.80	130.18	3799.90	4.06	4.06	7.84	1.06	8.83	62.59
3900.00	0.98	21.55	3899.89	4.41	4.41	8.68	1.44	9.74	63.08
4000.00	0.85	265.91	3999.88	5.15	5.15	8.26	1.54	9.73	58.06
4100.00	0.50	163.31	4099.88	4.68	4.68	7.65	1.07	8.97	58.56
4200.00	0.18	91.07	4199.88	4.25	4.25	7.94	0.48	9.00	61.82
4300.00	0.13	32.07	4299.88	4.34	4.34	8.16	0.16	9.24	61.97
4400.00	0.13	227.16	4399.88	4.36	4.36	8.13	0.26	9.23	61.80
4500.00	0.13	192.04	4499.88	4.17	4.17	8.03	0.08	9.04	62.55
4600.00	0.01	117.23	4599.88	4.05	4.05	8.01	0.13	8.98	63.18
4700.00	0.06	73.55	4699.88	4.06	4.06	8.07	0.05	9.04	63.30
4800.00	0.04	159.37	4799.88	4.04	4.04	8.13	0.07	9.08	63.59
4900.00	0.03	159.51	4899.88	3.98	3.98	8.16	0.01	9.08	63.99
5000.00	0.05	136.12	4999.88	3.92	3.92	8.20	0.03	9.09	64.43
5100.00	0.04	244.03	5099.88	3.87	3.87	8.19	0.08	9.06	64.70
5200.00	0.02	33.14	5199.88	3.87	3.87	8.17	0.06	9.04	64.85
5300.00	0.10	260.89	5299.88	3.87	3.87	8.09	0.12	8.97	64.44
5400.00	0.03	282.45	5399.88	3.86	3.86	7.97	0.07	8.86	64.15
5500.00	0.10	266.38	5499.88	3.86	3.86	7.86	0.07	8.75	63.81
5600.00	0.10	76.83	5599.88	3.88	3.88	7.85	0.20	8.76	63.72
5700.00	0.16	342.42	5699.88	4.03	4.03	7.89	0.19	8.86	62.96
5800.00	0.03	239.27	5799.88	4.15	4.15	7.83	0.17	8.86	62.08
5900.00	0.11	203.52	5899.88	4.05	4.05	7.76	0.08	8.76	62.47
6000.00	0.03	220.70	5999.88	3.94	3.94	7.71	0.08	8.66	62.92
6100.00	0.09	208.24	6099.88	3.85	3.85	7.65	0.06	8.57	63.28
6200.00	0.14	266.67	6199.88	3.78	3.78	7.49	0.12	8.39	63.24
6300.00	0.09	234.13	6299.88	3.73	3.73	7.31	0.09	8.20	62.97
6400.00	0.08	243.66	6399.88	3.65	3.65	7.18	0.02	8.06	63.04
6500.00	0.09	262.82	6499.88	3.61	3.61	7.05	0.03	7.92	62.86
6600.00	0.03	200.75	6599.88	3.58	3.58	6.96	0.08	7.82	62.81
6700.00	0.21	310.66	6699.88	3.67	3.67	6.81	0.23	7.73	61.69
6800.00	0.17	16.27	6799.88	3.93	3.93	6.71	0.21	7.78	59.63
6900.00	0.07	219.22	6899.88	4.03	4.03	6.72	0.24	7.83	59.03
7000.00	0.08	178.82	6999.88	3.91	3.91	6.68	0.05	7.74	59.65
7100.00	0.17	158.50	7099.88	3.70	3.70	6.73	0.09	7.69	61.18

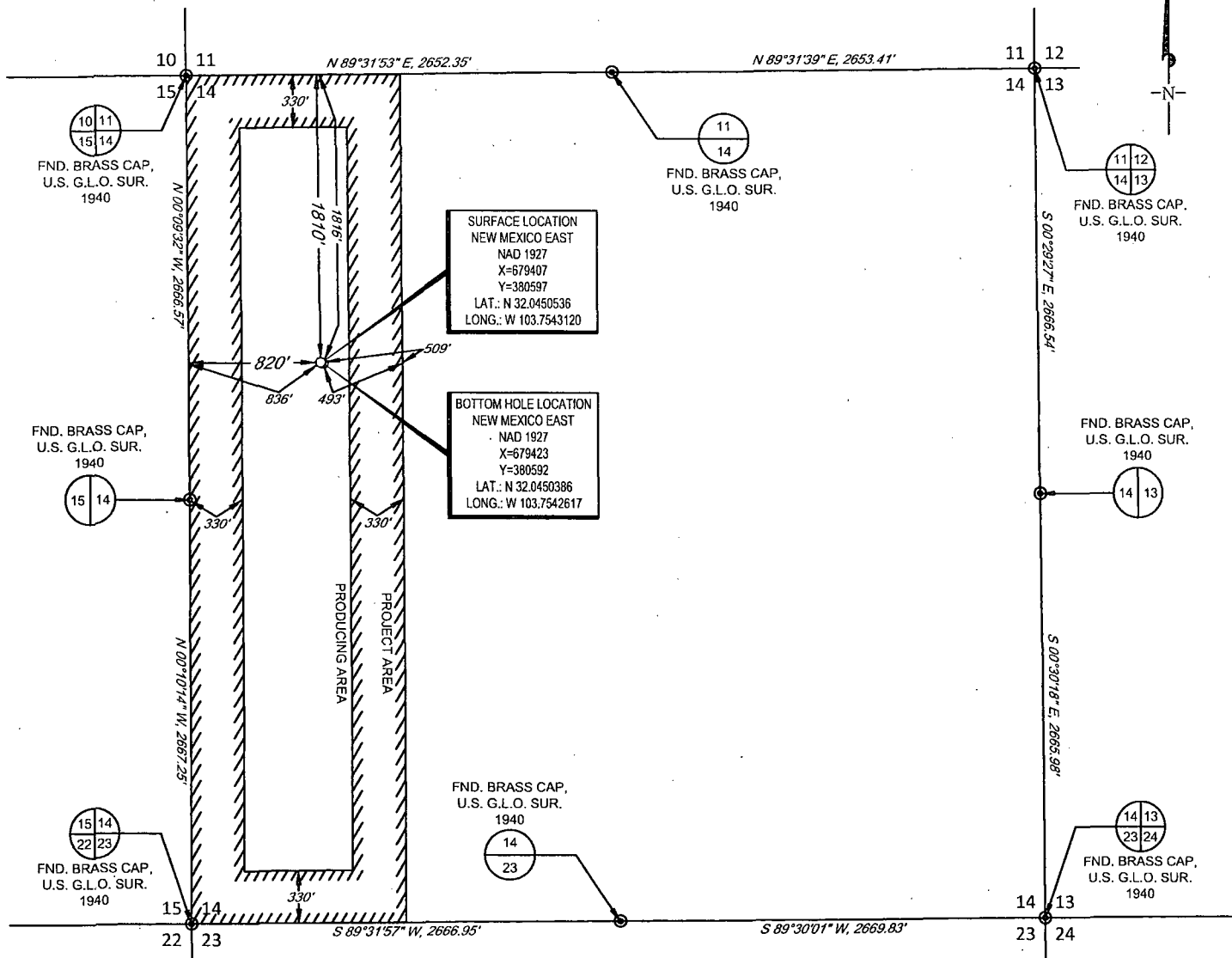


Well Name: RAMBLIN ROSE 14 FED #1
 Survey: FINAL GYRO SURVEY
 Survey Date: 12/31/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft	Closure Distance ft	Closure Direction deg
7200.00	0.11	166.02	7199.87	3.48	3.48	6.81	0.06	7.65	62.93
7300.00	0.01	193.84	7299.87	3.39	3.39	6.83	0.10	7.62	63.63
7400.00	0.02	263.48	7399.87	3.38	3.38	6.81	0.02	7.60	63.60
7500.00	0.06	351.83	7499.87	3.43	3.43	6.78	0.07	7.60	63.16
7600.00	0.05	283.05	7599.87	3.50	3.50	6.73	0.06	7.59	62.56
7700.00	0.18	160.77	7699.87	3.36	3.36	6.74	0.21	7.53	63.53
7800.00	0.08	168.11	7799.87	3.15	3.15	6.81	0.11	7.50	65.21
7900.00	0.07	218.50	7899.87	3.04	3.04	6.79	0.06	7.43	65.90
8000.00	0.19	225.08	7999.87	2.87	2.87	6.63	0.13	7.23	66.59
8100.00	0.09	196.80	8099.87	2.68	2.68	6.49	0.12	7.02	67.57
8200.00	0.16	239.26	8199.87	2.53	2.53	6.35	0.11	6.84	68.23
8300.00	0.22	213.72	8299.87	2.30	2.30	6.12	0.10	6.54	69.37
8400.00	0.15	275.31	8399.87	2.16	2.16	5.89	0.20	6.27	69.87
8500.00	0.11	155.60	8499.87	2.08	2.08	5.60	0.22	6.16	70.23
8600.00	0.14	94.21	8599.87	1.99	1.99	5.96	0.13	6.28	71.53
8700.00	0.56	123.02	8699.87	1.72	1.72	6.48	0.44	6.71	75.18
8800.00	0.39	124.84	8799.87	1.26	1.26	7.17	0.17	7.28	80.05
8900.00	0.30	177.38	8899.87	0.80	0.80	7.46	0.31	7.50	83.85
9000.00	0.41	167.92	8999.86	0.19	0.19	7.54	0.13	7.55	88.56
9100.00	0.24	149.67	9099.86	0.35	0.35	7.73	0.20	7.74	92.58
9200.00	0.28	168.29	9199.86	0.77	0.77	7.88	0.09	7.92	95.56
9300.00	0.23	195.65	9299.86	1.19	1.19	7.88	0.13	7.97	98.61
9400.00	0.19	148.61	9399.86	1.52	1.52	7.91	0.17	8.06	100.89
9500.00	0.35	201.64	9499.86	1.95	1.95	7.88	0.28	8.12	103.88
9600.00	1.15	131.12	9599.85	2.90	2.90	8.52	1.09	9.00	108.76
9700.00	1.09	124.61	9699.83	4.10	4.10	10.06	0.14	10.86	112.15
9800.00	0.19	58.97	9799.82	4.55	4.55	10.98	1.03	11.89	112.51
9900.00	0.20	1320.07	9899.82	4.34	4.34	11.01	0.29	11.83	111.49
10000.00	0.09	71.67	9999.82	4.18	4.18	10.97	0.25	11.74	110.85
10100.00	0.48	133.79	10099.82	4.44	4.44	11.34	0.44	12.18	111.38
10200.00	0.33	103.50	10199.82	4.80	4.80	11.93	0.25	12.85	111.91
10300.00	0.91	75.41	10299.81	4.66	4.66	12.98	0.63	13.79	109.77
10400.00	0.92	108.59	10399.80	4.72	4.72	14.51	0.52	15.25	108.03
10500.00	0.42	114.44	10499.79	5.13	5.13	15.60	0.51	16.42	108.20
10600.00	0.13	255.15	10599.79	5.31	5.31	15.82	0.53	16.89	108.55
10650.00	0.38	245.30	10649.79	5.39	5.39	15.61	0.51	16.52	109.06

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 14, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: RAMBLIN ROSE 14 FED #1
SECTION 14 TWP 26-S RGE 31-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3201'
DESCRIPTION 1810' FNL & 820' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
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geog resources, Inc.

Michael Blake Brown, P.S. No. 18329
APRIL 2, 2014

RAMBLIN ROSE 14 FED #1 As-Drilled	REVISION:	
	INT	DATE
DATE: 04/02/14		
FILE: C_RAMBLINROSE14FED_1		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 19 27.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY. MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT