



Gyrodata Incorporated
10504 WCR 72
Midland, TX 79707

Main: 432-561-8458
Fax: 432-563-7982

May 16, 2017

**Railroad Commission of Texas
Oil & Gas Division
P.O. Box 12967
Capitol Station
Austin, Texas 78711**

Attn: Ms. Pamela Johns

**RE:
GREYSTONE INC
TEXAS MMM #1
Permit No. 824831
U L / Abstract/A-U256
EMMA (DEVONIAN)
ANDREWS COUNTY, TEXAS
API No. 42-003-01639**

Ms. Johns:

Enclosed, please find the original and one copy of the survey performed on the referenced well by Gyrodata, Inc (P-5 No. 339711). Other information required by your office is as follows:

Name & Title	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Of Surveyor				
Cody Flaming	Original Hole	100'-11218'	03/16/17-03/16/17	Gyroscopic
Surveyor				Multishot

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in the case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Heather Weidemann
Operations Assistant

Enclosure

Micro-Guide Log

FINAL DEFINITIVE COPY

for

GREYSTONE INC

Lease: TEXAS MMM Well: 1, 7 INCH CASING

Location: GR ENERGY SERVICES CRANE, ANDREWS COUNTY, TEXAS

Job Number: MD0317GCL254

Run Date: 16 Mar 2017

Report Generated: 15 May 2017 02:47

Surveyor: Cody Flaming

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 32.171950 deg. N

Longitude: 102.601534 deg. W

Azimuth Correction:

Gyro: 2.78000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 28.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

Micro-Guide Log

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Job Number: MD0317GCL254

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLE SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

100 TO 11218 FT. RATE GYROSCOPIC MICRO-GUIDE LOG RUN INSIDE 7 INCH CASING

ALL MEASURED DEPTHS AND COORDINATES ARE REFERENCED TO GROUND LEVEL AND ORIGINAL R.K.B. HEIGHT OF 28 FT.

100.00	0.16	335.30	0.16	100.00	0.1 335.3	0.13 N 0.06 W
200.00	0.17	330.56	0.02	200.00	0.4 333.7	0.38 N 0.19 W
300.00	0.15	336.56	0.02	300.00	0.7 333.6	0.64 N 0.32 W
400.00	0.07	15.88	0.11	400.00	0.9 336.6	0.81 N 0.35 W
500.00	0.08	52.05	0.05	500.00	1.0 342.8	0.91 N 0.28 W
600.00	0.07	49.53	0.01	600.00	1.0 349.4	0.99 N 0.18 W
700.00	0.10	53.71	0.04	700.00	1.1 356.2	1.08 N 0.07 W
800.00	0.18	48.43	0.08	800.00	1.2 5.4	1.24 N 0.12 E
900.00	0.21	56.50	0.04	900.00	1.5 15.0	1.44 N 0.39 E
1000.00	0.21	73.04	0.06	1000.00	1.7 24.0	1.59 N 0.71 E
1100.00	0.22	72.13	0.01	1100.00	2.0 31.9	1.70 N 1.06 E
1200.00	0.12	108.17	0.14	1200.00	2.2 37.8	1.73 N 1.34 E
1300.00	0.18	154.44	0.13	1300.00	2.2 44.0	1.56 N 1.50 E
1400.00	0.18	153.31	0.01	1400.00	2.1 52.2	1.28 N 1.64 E
1500.00	0.18	206.87	0.16	1499.99	1.9 58.9	0.99 N 1.64 E
1600.00	0.16	222.22	0.05	1599.99	1.7 63.2	0.75 N 1.48 E
1700.00	0.39	203.54	0.25	1699.99	1.3 75.2	0.33 N 1.25 E

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1800.00	0.57	208.56	0.18	1799.99	1.0 115.7	0.42 S 0.87 E
1900.00	0.58	212.25	0.04	1899.98	1.3 164.1	1.28 S 0.37 E
2000.00	0.34	244.69	0.35	1999.98	1.8 185.3	1.84 S 0.17 W
2100.00	0.27	268.38	0.14	2099.98	2.1 199.0	1.97 S 0.68 W
2200.00	0.20	285.25	0.10	2199.98	2.2 209.2	1.93 S 1.08 W
2300.00	0.19	285.67	0.01	2299.98	2.3 217.3	1.84 S 1.40 W
2400.00	0.17	286.12	0.02	2399.98	2.4 224.0	1.76 S 1.70 W
2500.00	0.19	346.08	0.18	2499.98	2.4 230.4	1.56 S 1.88 W
2600.00	0.11	349.67	0.08	2599.98	2.3 236.1	1.30 S 1.94 W
2700.00	0.10	58.91	0.12	2699.98	2.2 238.3	1.16 S 1.89 W
2800.00	0.18	73.54	0.09	2799.98	2.0 237.1	1.08 S 1.66 W
2900.00	0.20	84.11	0.04	2899.98	1.7 232.9	1.01 S 1.34 W
3000.00	0.16	66.68	0.07	2999.98	1.4 227.8	0.94 S 1.04 W
3100.00	0.14	86.72	0.05	3099.98	1.2 222.0	0.88 S 0.79 W
3200.00	0.19	123.32	0.11	3199.98	1.1 208.9	0.96 S 0.53 W
3300.00	0.27	86.69	0.16	3299.97	1.1 188.6	1.04 S 0.16 W
3400.00	0.34	58.02	0.17	3399.97	0.9 159.2	0.87 S 0.33 E
3500.00	0.46	44.73	0.15	3499.97	1.0 116.4	0.43 S 0.86 E
3600.00	0.45	47.48	0.02	3599.97	1.4 85.1	0.12 N 1.44 E
3700.00	0.56	46.75	0.11	3699.96	2.2 70.9	0.72 N 2.08 E
3800.00	0.62	39.69	0.09	3799.96	3.1 62.2	1.47 N 2.78 E
3900.00	0.62	38.68	0.01	3899.95	4.2 56.3	2.31 N 3.46 E

Micro-Guide Log

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Location: GR ENERGY SERVICES CRANE, ANDREWS COUNTY, TEXAS

Job Number: MD0317GCL254

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
4000.00	0.59	32.38	0.07	3999.95	5.2	52.2	3.17 N	4.08 E
4100.00	0.64	23.80	0.10	4099.94	6.2	48.1	4.11 N	4.58 E
4200.00	0.60	10.69	0.15	4199.94	7.1	43.6	5.14 N	4.90 E
4300.00	0.62	9.81	0.02	4299.93	8.0	39.4	6.19 N	5.09 E
4400.00	0.62	8.86	0.01	4399.92	9.0	36.0	7.26 N	5.27 E
4500.00	0.60	7.92	0.03	4499.92	9.9	33.1	8.31 N	5.42 E
4600.00	0.50	13.54	0.11	4599.91	10.8	31.2	9.25 N	5.60 E
4700.00	0.50	26.88	0.12	4699.91	11.7	30.4	10.07 N	5.90 E
4800.00	0.61	31.22	0.12	4799.90	12.6	30.3	10.91 N	6.37 E
4900.00	0.62	40.91	0.10	4899.90	13.7	30.7	11.77 N	7.00 E
5000.00	0.73	48.90	0.14	4999.89	14.8	31.9	12.60 N	7.83 E
5100.00	0.88	45.60	0.16	5099.88	16.2	33.2	13.55 N	8.85 E
5200.00	0.99	48.14	0.12	5199.87	17.8	34.4	14.66 N	10.04 E
5300.00	1.53	27.55	0.70	5299.85	19.9	34.5	16.42 N	11.30 E
5400.00	1.54	27.25	0.01	5399.81	22.6	33.7	18.80 N	12.53 E
5500.00	1.67	26.28	0.14	5499.77	25.4	32.9	21.29 N	13.79 E
5600.00	1.77	28.75	0.13	5599.73	28.4	32.4	23.96 N	15.18 E
5700.00	1.78	26.71	0.06	5699.68	31.5	31.9	26.70 N	16.63 E
5800.00	1.94	26.86	0.16	5799.62	34.7	31.4	29.60 N	18.09 E
5900.00	1.97	27.04	0.03	5899.57	38.1	31.0	32.65 N	19.64 E
6000.00	2.01	28.03	0.05	5999.51	41.6	30.7	35.73 N	21.24 E

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MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6100.00	1.95	26.05	0.09	6099.45	45.0 30.5	38.80 N 22.81 E
6200.00	1.88	23.51	0.11	6199.39	48.3 30.1	41.83 N 24.21 E
6300.00	1.72	18.38	0.23	6299.34	51.4 29.5	44.76 N 25.34 E
6400.00	1.68	9.73	0.26	6399.30	54.3 28.7	47.63 N 26.07 E
6500.00	1.46	25.84	0.49	6499.26	57.0 28.1	50.22 N 26.87 E
6600.00	1.44	32.84	0.18	6599.23	59.5 28.2	52.43 N 28.11 E
6700.00	1.38	42.41	0.24	6699.20	61.9 28.6	54.37 N 29.60 E
6800.00	1.53	50.94	0.26	6799.17	64.3 29.3	56.10 N 31.44 E
6900.00	1.61	52.73	0.10	6899.13	66.8 30.2	57.79 N 33.59 E
7000.00	1.84	53.21	0.24	6999.08	69.6 31.1	59.60 N 36.00 E
7100.00	2.05	53.58	0.20	7099.03	72.8 32.1	61.62 N 38.72 E
7200.00	2.47	51.70	0.43	7198.95	76.5 33.2	64.02 N 41.85 E
7300.00	2.73	53.19	0.27	7298.84	80.8 34.2	66.78 N 45.45 E
7400.00	2.70	59.15	0.28	7398.73	85.2 35.4	69.42 N 49.38 E
7500.00	2.81	61.76	0.17	7498.62	89.6 36.7	71.78 N 53.56 E
7600.00	2.46	55.14	0.46	7598.51	93.8 37.8	74.17 N 57.48 E
7700.00	2.43	52.54	0.12	7698.42	97.9 38.5	76.69 N 60.92 E
7800.00	2.54	53.51	0.12	7798.33	102.1 39.1	79.29 N 64.39 E
7900.00	1.87	66.77	0.83	7898.25	105.7 39.8	81.26 N 67.67 E
8000.00	1.71	116.05	1.50	7998.21	107.6 41.0	81.25 N 70.51 E
8100.00	2.32	137.95	0.97	8098.15	107.8 42.8	79.09 N 73.21 E
8200.00	1.80	117.04	0.91	8198.08	108.1 44.7	76.87 N 75.97 E

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MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
8300.00	2.05	109.78	0.34	8298.03	109.3 46.3	75.55 N 79.05 E
8400.00	2.45	119.94	0.57	8397.95	110.8 48.2	73.88 N 82.58 E
8500.00	2.77	114.84	0.39	8497.85	112.5 50.4	71.79 N 86.63 E
8600.00	2.80	111.75	0.15	8597.73	114.8 52.5	69.87 N 91.09 E
8700.00	2.51	111.61	0.29	8697.62	117.2 54.5	68.16 N 95.39 E
8800.00	2.60	111.73	0.09	8797.52	119.7 56.2	66.52 N 99.53 E
8900.00	2.24	114.21	0.37	8897.43	122.1 57.9	64.88 N 103.41 E
9000.00	2.21	110.62	0.14	8997.36	124.4 59.3	63.40 N 106.99 E
9100.00	2.00	117.82	0.33	9097.29	126.5 60.7	61.91 N 110.34 E
9200.00	1.90	113.37	0.18	9197.23	128.5 61.9	60.43 N 113.41 E
9300.00	1.95	89.65	0.79	9297.18	131.1 62.9	59.79 N 116.63 E
9400.00	1.74	93.82	0.24	9397.13	133.9 63.5	59.70 N 119.85 E
9500.00	1.63	104.33	0.33	9497.08	136.3 64.2	59.24 N 122.74 E
9600.00	2.28	100.80	0.67	9597.02	139.0 65.1	58.52 N 126.07 E
9700.00	1.73	117.32	0.80	9696.96	141.6 66.1	57.45 N 129.37 E
9800.00	2.25	134.00	0.77	9796.90	143.3 67.2	55.40 N 132.12 E
9900.00	2.63	129.60	0.43	9896.81	145.2 68.8	52.58 N 135.29 E
10000.00	2.27	137.69	0.50	9996.72	147.0 70.3	49.65 N 138.40 E
10100.00	2.19	126.58	0.44	10096.65	148.9 71.6	47.04 N 141.27 E
10200.00	2.23	124.32	0.10	10196.57	151.2 72.8	44.81 N 144.40 E
10300.00	2.26	125.30	0.05	10296.50	153.6 73.9	42.58 N 147.62 E
10400.00	2.31	124.25	0.06	10396.42	156.2 75.0	40.31 N 150.89 E

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Job Number: MD0317GCL254

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
10500.00	2.06	130.49	0.34	10496.34	158.5 76.1	38.01 N 153.91 E
10600.00	1.86	126.96	0.23	10596.29	160.6 77.1	35.87 N 156.58 E
10700.00	1.71	124.26	0.17	10696.24	162.7 77.9	34.05 N 159.11 E
10800.00	1.66	127.50	0.11	10796.19	164.7 78.7	32.32 N 161.50 E
10900.00	1.85	138.34	0.38	10896.15	166.5 79.5	30.24 N 163.72 E
11000.00	1.67	145.11	0.27	10996.10	167.9 80.5	27.84 N 165.62 E
11100.00	1.73	138.50	0.20	11096.06	169.4 81.3	25.51 N 167.46 E
11200.00	1.23	129.60	0.55	11196.02	170.9 82.0	23.70 N 169.28 E
11218.00	1.38	115.09	2.01	11214.02	171.2 82.1	23.49 N 169.62 E

Final Station Closure: Distance: 171.24 ft Az: 82.12 deg.

GREYSTONE PETROLEUM, LLC

LEASE NAME & WELL NO.:
TEXAS MMM #1

TOPOGRAPHY & VEGETATION:
NATURAL MESQUITE PASTURE

NEAREST TOWN IN COUNTY:
±10.63 MILES SOUTHWEST OF ANDREWS, TEXAS

DESCRIPTION:
SECTION 20, BLOCK 9, UNIVERSITY LANDS SURVEY

ANDREWS COUNTY, TEXAS

SPECIAL NOTES:

Original Document Size: 8.5"x14"

All Coordinates are in NAD 27 TX-NC Zone unless otherwise noted.

CERTIFICATION:

This well location shown on this permit plat was surveyed on the ground under my direct supervision. This plat is for Texas Railroad Commission permit purpose only and should not be considered a boundary survey.



William J. Keating
Texas Reg. No. 5041



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

2003 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1863 OR (800) 767-1863 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM
Texas FIRM Registration NO. 10042500

LO_Texas_MMM_1

Surface Hole Location:

1979' FSL & 659' FEL
SHL Ground Elevation: 3180'
NAD 27 TX-NC ZONE
X = 422137
Y = 222114
LAT.: N 32.1718722
LONG.: W 102.6010987
NAD 83 TX-NC ZONE
X = 699673
Y = 6770283
LAT.: N 32.1719822
LONG.: W 102.6015331

LEGEND

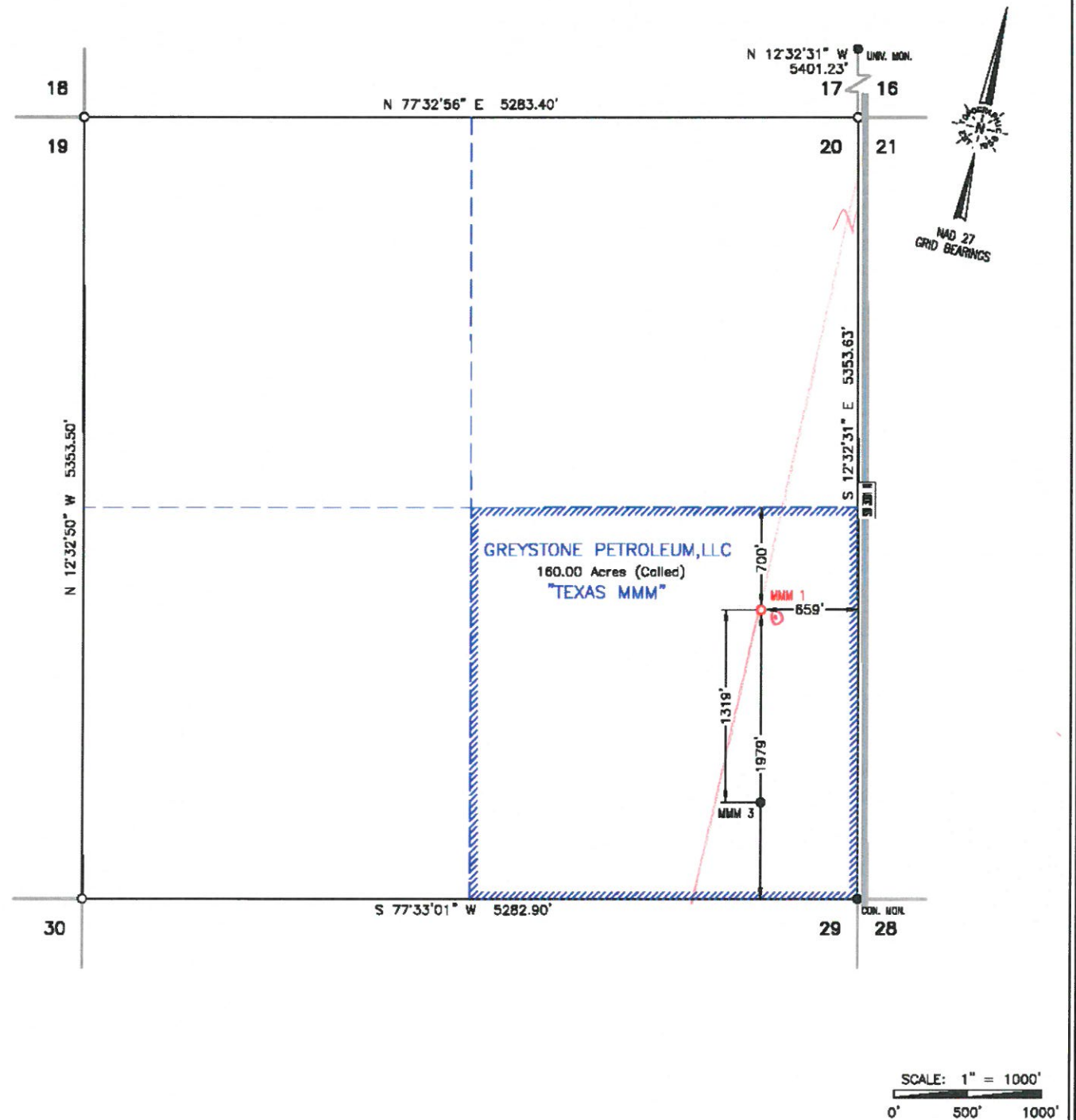
- Section Line
- Block Line
- Abstract Line
- Tract Line
- Lease Road
- County Road
- Unit/Lease Boundary
- Found Monument
- Set 1/2" Rebar w/cap
- Calculated Corner

Scale: 1"=1000' Surveyed: 03/28/17

COGO: 726-44138

Revision: () / /

Drawn By: MR; 03/29/2017





Gyrodata Incorporated
10504 WCR 72
Midland, TX 79707

Main: 432-561-8458
Fax: 432-563-7982

State of Texas
County of Harris

I, Kevin Willard, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the Gyroscopic Multishot survey from a depth of 100 feet to a depth of 11218 feet conducted on the day(s) of 03/16/17 through 03/16/17; that this survey was conducted at the request Greystone Inc for the Texas MMM #1 Well API No. 42-003-01639 in Andrews County, Texas; that the data is true, correct, complete, and within the limitations of the tool as set forth by Gyrodata Inc.; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Gyrodata Inc.

A handwritten signature in blue ink, appearing to read "Kevin Willard", is written over a solid black horizontal line.

Kevin Willard
Operations Coordinator