



Gyrodata Incorporated
3811 South County Road 1285
Odessa, Texas 79765

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

July 9, 2012

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

Attn: Ms. Pamela Johns

**RE:
Parallel Petroleum LLC
University 19-12 Viognier #1
Permit No. 737857
UL, Abstract U96
Viejos (Devonian)
Pecos County, Texas
API No. 42-371-38925**

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 Of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Will Skelton Surveyor	Original Hole	Surface -- 5938.41'	06/12/12 -- 06/13/12	Rate Gyro 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,

Holly Walker
Operations Assistant -- Midland, TX

Enclosure

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

PARALLEL PETROLEUM LLC

Lease: UNIVERSITY 19-12 VIOGNIER Well: 1, 4 1/2" DRILLPIPE
Location: J W 5, PECOS COUNTY, TEXAS

Job Number: MD0612GVCW365

Run Date: 12 Jun 2012

Surveyor: Will Skelton, Curtis Baum

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Previous Survey

Survey Latitude: 30.871889 deg. N Longitude: 102.463306 deg. W

Azimuth Correction:

Gyro: 1.10000 deg to Grid North

Depth Reference: Rotary Table

Rotary Table Elevation: 17.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0	0.0	0.00 N 0.00 E
0 TO 5938 FT RATE GYROSCOPIC MULTISHOT VERTICAL CONTINUOUS SURVEY RUN INSIDE 4 1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO J W 5 AND R.K.B. HEIGHT OF 17 FT								
100.00	0.22	16.08	N 16 5 E	0.22	100.00	0.2	16.1	0.19 N 0.05 E
200.00	0.36	335.22	N 24 47 W	0.24	200.00	0.7	357.9	0.65 N 0.02 W
300.00	0.46	351.06	N 8 57 W	0.15	300.00	1.3	350.8	1.33 N 0.22 W
400.00	0.90	2.45	N 2 27 E	0.46	399.99	2.5	354.4	2.50 N 0.24 W
500.00	0.95	339.65	N 20 21 W	0.37	499.98	4.1	353.0	4.07 N 0.50 W
600.00	1.14	338.80	N 21 12 W	0.19	599.96	5.9	348.7	5.78 N 1.15 W
700.00	1.12	339.75	N 20 15 W	0.03	699.94	7.9	346.4	7.63 N 1.85 W
800.00	0.97	355.48	N 4 31 W	0.32	799.92	9.7	346.5	9.39 N 2.26 W
900.00	1.12	4.98	N 4 59 E	0.23	899.91	11.4	348.7	11.21 N 2.24 W
1000.00	1.17	6.71	N 6 42 E	0.06	999.89	13.3	351.2	13.19 N 2.03 W
1100.00	1.41	11.60	N 11 36 E	0.27	1099.86	15.5	353.8	15.41 N 1.67 W
1200.00	1.44	12.63	N 12 38 E	0.04	1199.83	17.9	356.3	17.83 N 1.15 W
1300.00	1.47	15.64	N 15 38 E	0.08	1299.80	20.3	358.5	20.30 N 0.53 W
1400.00	1.37	18.51	N 18 31 E	0.12	1399.77	22.7	0.5	22.67 N 0.20 E
1500.00	1.38	19.22	N 19 13 E	0.02	1499.74	25.0	2.2	24.94 N 0.98 E
1600.00	1.20	18.65	N 18 39 E	0.18	1599.71	27.1	3.6	27.08 N 1.71 E
1700.00	1.31	17.63	N 17 38 E	0.11	1699.69	29.3	4.7	29.16 N 2.39 E
1800.00	1.12	22.47	N 22 28 E	0.22	1799.67	31.3	5.7	31.16 N 3.11 E
1900.00	1.10	21.18	N 21 11 E	0.04	1899.65	33.2	6.6	32.95 N 3.83 E

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Location: J W 5, PECOS COUNTY, TEXAS

Job Number: MD0612GVCW365

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
2000.00	1.04	18.14	N 18 9 E	0.08	1999.63	35.0	7.3	34.70 N 4.46 E
2100.00	1.17	14.51	N 14 31 E	0.15	2099.61	36.9	7.8	36.55 N 4.99 E
2200.00	1.31	15.82	N 15 49 E	0.14	2199.59	39.0	8.2	38.63 N 5.56 E
2300.00	1.33	24.35	N 24 21 E	0.20	2299.56	41.3	8.8	40.78 N 6.35 E
2400.00	1.13	22.58	N 22 35 E	0.20	2399.54	43.4	9.6	42.75 N 7.21 E
2500.00	1.31	20.37	N 20 22 E	0.18	2499.52	45.4	10.1	44.74 N 7.98 E
2600.00	1.25	15.83	N 15 50 E	0.12	2599.49	47.7	10.5	46.85 N 8.68 E
2700.00	1.35	24.94	N 24 57 E	0.23	2699.47	49.9	10.9	48.97 N 9.47 E
2800.00	1.29	16.52	N 16 31 E	0.20	2799.44	52.1	11.4	51.12 N 10.29 E
2900.00	1.43	24.44	N 24 27 E	0.24	2899.41	54.5	11.8	53.34 N 11.13 E
3000.00	1.37	27.25	N 27 15 E	0.09	2999.38	56.9	12.4	55.54 N 12.19 E
3100.00	1.48	28.15	N 28 9 E	0.11	3099.35	59.3	13.0	57.74 N 13.35 E
3200.00	1.55	25.21	N 25 12 E	0.11	3199.32	61.8	13.6	60.10 N 14.54 E
3300.00	1.55	33.18	N 33 11 E	0.22	3299.28	64.4	14.2	62.46 N 15.85 E
3400.00	1.50	47.39	N 47 23 E	0.38	3399.24	66.8	15.2	64.48 N 17.55 E
3500.00	1.55	52.06	N 52 4 E	0.13	3499.21	69.0	16.5	66.19 N 19.58 E
3600.00	1.72	60.31	N 60 19 E	0.29	3599.17	71.2	17.9	67.76 N 21.95 E
3700.00	1.89	55.99	N 55 59 E	0.21	3699.12	73.7	19.5	69.43 N 24.62 E
3800.00	1.85	64.70	N 64 42 E	0.29	3799.07	76.2	21.1	71.04 N 27.44 E
3900.00	1.84	71.82	N 71 49 E	0.23	3899.01	78.4	22.8	72.23 N 30.42 E
4000.00	1.73	94.78	S 85 13 E	0.72	3998.97	79.9	24.7	72.60 N 33.45 E

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
4100.00	2.45	118.27	S 61 44 E	1.10	4098.90	80.4	27.3	71.46 N	36.84 E
4200.00	3.75	129.99	S 50 1 E	1.44	4198.75	79.8	31.1	68.35 N	41.23 E
4300.00	4.95	140.02	S 39 59 E	1.42	4298.47	78.3	36.5	62.94 N	46.51 E
4400.00	5.27	146.93	S 33 4 E	0.69	4398.07	76.1	42.9	55.78 N	51.79 E
4500.00	5.13	144.34	S 35 40 E	0.27	4497.66	74.6	49.7	48.30 N	56.90 E
4600.00	5.11	142.17	S 37 50 E	0.20	4597.26	74.6	56.5	41.15 N	62.24 E
4700.00	4.89	139.92	S 40 5 E	0.29	4696.88	75.9	63.1	34.38 N	67.71 E
4800.00	4.63	139.90	S 40 6 E	0.26	4796.53	78.2	69.0	28.03 N	73.05 E
4900.00	4.15	140.89	S 39 7 E	0.48	4896.24	81.0	74.1	22.14 N	77.93 E
5000.00	3.22	138.74	S 41 15 E	0.94	4996.03	83.9	78.1	17.23 N	82.07 E
5100.00	3.05	141.53	S 38 28 E	0.22	5095.88	86.6	81.3	13.03 N	85.57 E
5200.00	2.84	152.14	S 27 51 E	0.58	5195.75	88.8	84.3	8.76 N	88.39 E
5300.00	3.51	161.97	S 18 2 E	0.86	5295.60	90.6	87.7	3.65 N	90.49 E
5400.00	3.49	167.45	S 12 33 E	0.33	5395.41	92.1	91.4	2.23 S	92.10 E
5500.00	3.93	175.65	S 4 21 E	0.69	5495.20	93.4	95.3	8.62 S	93.02 E
5600.00	3.82	178.01	S 1 59 E	0.20	5594.97	94.7	99.3	15.37 S	93.40 E
5700.00	3.24	171.10	S 8 54 E	0.72	5694.78	96.4	102.9	21.49 S	93.95 E
5800.00	2.56	99.70	S 80 18 E	3.43	5794.68	99.7	104.3	24.65 S	96.59 E
5900.00	4.90	79.97	N 79 58 E	2.64	5894.47	105.8	103.3	24.28 S	102.99 E
5938.41	5.49	80.06	N 80 4 E	1.55	5932.72	109.0	102.5	23.68 S	106.42 E

Final Station Closure: Distance: 109.02 ft Az: 102.55 deg.



Gyrodata Incorporated
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Odessa, Texas 79765

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

State of Texas
County of Harris

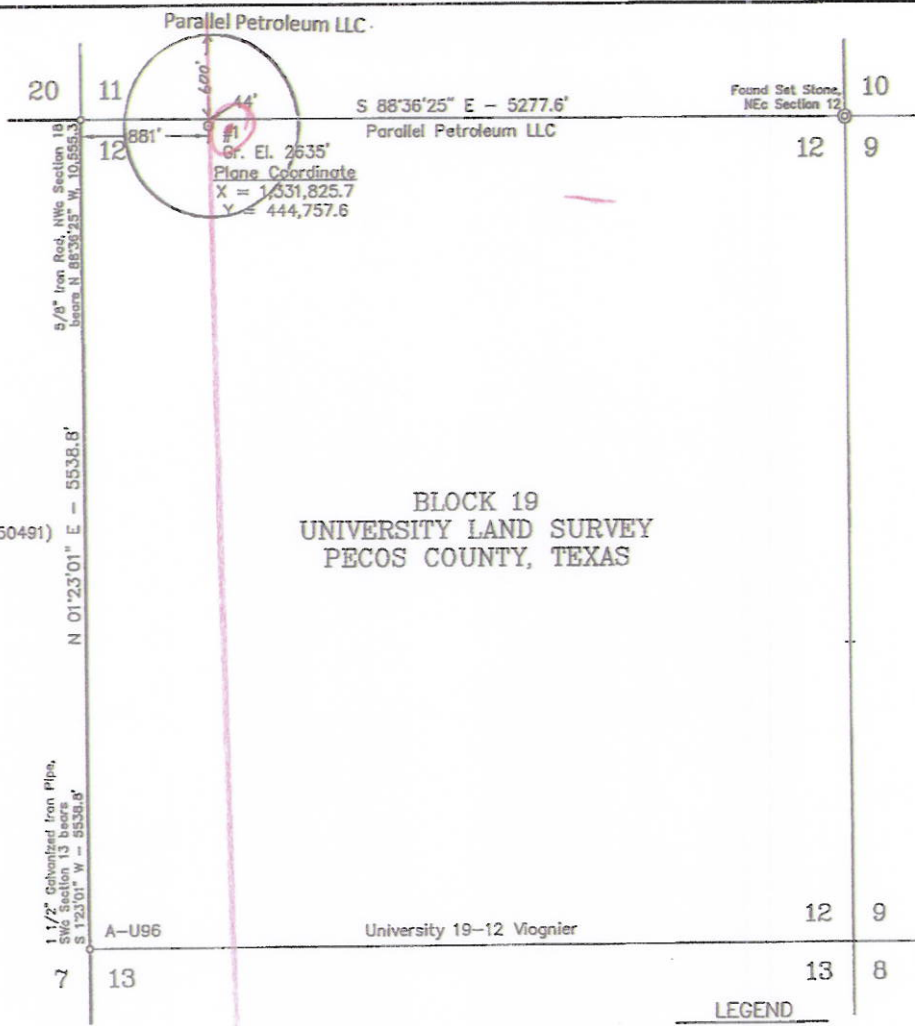
I, Frank Pawlik, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the Rate Gyro Multishot survey from a depth of 0 feet to a depth of 5938.41 feet conducted on the day(s) of 06/12/12 through 06/13/12; that this survey was conducted at the request of Parallel Petroleum LLC for the University 19-12 Voignier #1 Well API No. 42-371-38925 in Pecos 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 "Frank Pawlik", written over a horizontal line.

Frank Pawlik
District Manager – Midland, TX

GYRODATA BOTTOM HOLE LOCATION
 109.02 FT @ 102.55 DEGREES OF
 SURFACE LOCATION
 MD 5938.41 TVD 5932.72
 SOUTH 23.68 EAST 106.42

BLOCK 180
 T.C. RR. CO. SURVEY



BLOCK 19
 UNIVERSITY LAND SURVEY
 PECOS COUNTY, TEXAS

LEGEND

- - Denotes Proposed Well Location
- ⊙ - Denotes Found Monument (As Described)
- - Denotes Calculated Corner this Survey

Date Surveyed: April 3, 2012
 Weather: Warm & Clear

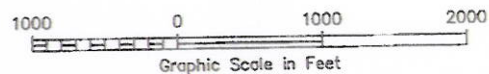
The University 19-12 Vioegner #1 is located approximately 25 miles East of Fort Stockton, Texas.

NOTE:

- 1) Plane Coordinates and Bearings shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.
- 2) Geodetic Coordinate shown hereon, unless otherwise noted reference the North American Datum of 1927, (Clarke Spheroid of 1866). Reference Stations - "SANDERSON" - CORS (DH3844), "MCCAMEY" - CORS (DM4163) and "FORT STOCKTON" - CORS (DM4155).
- 3) See information filed in the office of this Surveyor which describes the reconstruction of this Section.

Geodetic Coordinate (NAD 83)
 Latitude = 30°52'19.77" N
 Longitude = 102°27'49.38" W

Geodetic Coordinate
 Latitude = 30°52'19.21" N
 Longitude = 102°27'47.87" W



I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.

J. FRANK NEWMAN
 MACON McDONALD
 R. CRAIG ALDERMAN

WEST COMPANY
 of Midland, Inc.

110 W. LOUISIANA, STE. 110
 MIDLAND TEXAS, 79701
 (432) 687-0665 - (432) 687-0668 FAX

PARALLEL PETROLEUM LLC

Location of the
 UNIVERSITY 19-12 VIOGNIER #1

44' FNL & 881' FWL
 Section 12, Block 19
 University Land Survey
 Pecos County, Texas

Drawn By: JCC	Date: April 5, 2012
Scale: 1" = 1000'	Field Book: 539 / 41-42
Revision Date:	Quadrangle: Bootleg Canyon
W.O. No: 2012-0719	Dwg. No.: L-2012-0719