

**FloSurvey - Real Time Survey Tool**

1200 Cypress Creek Road
Cedar Park, TX 78613
Phone: (512)340-5000
Fax: (512)340-5441

May 12, 2017

Railroad Commission of Texas
Oil and Gas Division
PO Box 12967
Capital Station
Austin, Texas 78711

Attention: Pam Johns

Re:

CLIENT: Greystone Oil & Gas
WELL: University Lands 31-2H
FIELD: Triple N (Devonian)
RIG: Trinidad 121
COUNTY: Andrews
API NO: 42-003-47488

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco (P-5 No. 600639), contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Barry Roberts Field Service Technician	University Lands 31-2H Original Hole	194.00 Ft to 1632.00 Ft	May 11, 2017 to May 11, 2017	FloSurvey

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Bradley Aden
Field Service Manager

CC: Greystone Oil & Gas
Enclosures: [2]
County of Andrews
State of Texas

Attn: Jeff Savoy
5555 E 71ST ST STE 8350
TULSA, OK 74136

Attn: 0
0
0

**Greystone Oil & Gas
Andrews County
University Lands 31-2H
Surveys: 194` MD - 1632` MD
Survey Date: Thursday, May 11, 2017**

National Oilwell Varco Survey Report

Friday, May 12, 2017

UWI No. 42-003-47488

Surface Coordinates: 6755264.13 N, 693367.22 E (32° 07' 48.1872" N, 102° 37' 11.9740" W)
Grid Coordinate System: NAD83 Texas State Planes, North Central Zone

Surface Coordinates relative to Map Coordinates: 6755264.13 N, 693367.22 E (Grid)
Surface Coordinates relative to Map Coordinates: 6755264.13 N, 693367.22 E (Grid)

Kelly Bushing Elevation: 3184.00ft above Mean Sea Level
Kelly Bushing Elevation: 3184.00ft above Mean Sea Level
Kelly Bushing Elevation: 25.00ft above Ground Level
Ground Level: 3159.00ft above Mean Sea Level

Survey Ref: svy2584

Survey Report for Andrews County, University Lands 31-2H, Surveys: 194` MD - 1632` MD

Survey Depth (ft)	Incl. (°)	(Grid) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	
194.00	0.04	14.86	194.00	0.07 N	0.02 E	-0.06	0.021
314.00	0.13	229.64	314.00	0.02 N	0.08 W	-0.03	0.137
494.00	0.22	122.38	494.00	0.30 S	0.06 E	0.31	0.159
674.00	0.37	114.98	674.00	0.73 S	0.88 E	0.89	0.086
860.00	0.22	182.00	859.99	1.34 S	1.41 E	1.60	0.188
1042.00	0.47	175.76	1041.99	2.43 S	1.45 E	2.68	0.139
1200.00	0.53	223.57	1199.99	3.61 S	1.00 E	3.74	0.259
1317.00	0.26	162.75	1316.98	4.26 S	0.70 E	4.31	0.396
1500.00	0.42	165.28	1499.98	5.30 S	1.00 E	5.39	0.088
1632.00	0.92	163.71	1631.97	6.79 S	1.42 E	6.93	0.379

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to University Lands 31-2H. Northings and Eastings are relative to University Lands 31-.

The dogleg severity is in Degrees per 100 feet (US Survey).
Vertical Section is from University Lands 31- calculated along an azimuth of 168.20° (Grid).

Based upon minimum curvature calculations, at a measured depth of 1632.00ft, the bottom hole displacement is 6.93ft, in the direction of 168.20° (Grid).

The along-hole displacement is 8.09ft. The total accumulated dogleg is 2.431°.
The measured tortuosity is 0.161°/100ft. The directional difficulty index is 0.8.

Survey Tool Program for University Lands 31-2H, Surveys: 194` MD - 1632` MD

From Measured Depth (ft)	From Vertical Depth (ft)	To Measured Depth (ft)	To Vertical Depth (ft)	Survey Tool Description
0.00	0.00	1632.00	1631.97	NOV_FLOSURVEY_TILT_MEM

Survey Report for Andrews County, University Lands 31-2H, Surveys: 194` MD - 1632` MD

REFERENCE DATA

Ellipsoid	Geodetic Reference System of 1980	Unit System	Feet (Us Survey)
Coord. System	NAD83 Texas State Planes, North Central Zone	North Ref.	Grid North
Mag. Model	International Geomagnetic Reference Field 2015	Vertical Ref.	Mean Sea Level
Calc. Date	11 May, 2017		

LOCATION DATA

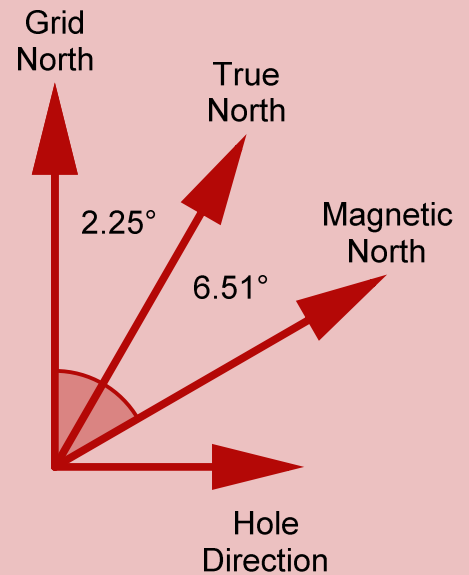
RKB Elevation	3184.00ft above MSL	Total Field	47992.5 nT
Map North	6755264.13 N	Magnetic Dip	60.13°
Map East	693367.22 E	Declination	6.51°
Latitude	32° 07' 48.1872" N	Convergence	-2.25°
Longitude	102° 37' 11.9740" W		

NORTH REFERENCE DATA

Magnetic Model	ional Geomagnetic Reference Field 2015
Calculation Date	Thursday, May 11, 2017
Declination	6.51°
Inclination/Dip	60.13°
Horizontal Component	23903.8 nT
Northerly Component	23749.9 nT
Easterly Component	2708.5 nT
Vertical Component	41615.9 nT
Total Field Strength	47992.5 nT

Grid North is 2.25 degrees West of True North (Grid Convergence)
Magnetic North is 6.51 degrees East of True North (Magnetic Declination)
Magnetic North is 8.75 degrees East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Add 2.25 degrees.
To convert a Magnetic Direction to a True Direction, Add 6.51 degrees.
To convert a Magnetic Direction to a Grid Direction, Add 8.75 degrees.



Disclaimer Notice

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FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512) 340-5000

Fax: (512) 340-5441

I, Barry Roberts certify that; I am employed by National Oilwell Varco, L.P.; that the surveys taken on the day(s) of May 11, 2017 through May 11, 2017, from a depth of 194 feet to a depth of 1632 feet; are to the best of my knowledge, the data is true, correct, complete and within the limitations of the tool as set forth by National Oilwell Varco, L.P.; that I am authorized and qualified to make this report; that this survey was conducted at the request of Greystone Oil & Gas for the University Lands 31-2H Well (Original Hole) API No. 42-003-47488 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by National Oilwell Varco, L.P.

Signature



Barry Roberts

Field Service Technician



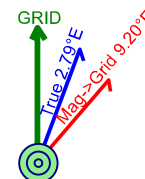
Job Number: 170062
Company: Greystone Petroleum, LLP
Lease/Well: University Lands 31-2H
Location: Andrews
Rig Name: Trinidad 121
State/County: Texas/ Andrews
Country: USA
API Number: 42-003-47488

Elev. GL: 3148.00 ft **RKB:** 3173.00 ft
System: US State Plane 1927 (Exact solution)
Group: Texas North Central 4202
Datum: CLARKE 1866
Mag. Decl.: 6.40° (C:\HawkEye\IGRF2005.MIF)
Grid Conv.: -2.79238 W
Date: Thursday, June 8, 2017



Directional Drillers: Tom Allen / Fernando Cano

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 347.70°
Northing (US ft): 207648.47 Easting (US ft): 415597.66
Latitude: 32°07'52.6127" N Longitude: -102°37'11.7385" W
Direction Reference: Grid North



#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100 Ft	Build Rate %/100 Ft	Walk Rate %/100 Ft
NOV FloSurvey												
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	194.00	0.04	14.86	194.00	0.07	0.02	0.06	0.07	14.86	0.02	0.02	7.66
3	314.00	0.13	229.64	314.00	0.02	-0.08	0.03	0.08	283.23	0.14	0.08	-121.02
4	494.00	0.22	122.38	494.00	-0.30	0.06	-0.31	0.31	168.56	0.16	0.05	-59.59
5	674.00	0.37	114.98	674.00	-0.73	0.88	-0.90	1.14	129.70	0.09	0.08	-4.11
6	860.00	0.22	182.00	859.99	-1.34	1.41	-1.61	1.95	133.53	0.19	-0.08	36.03
7	1042.00	0.47	175.76	1041.99	-2.43	1.45	-2.69	2.84	149.15	0.14	0.14	-3.43
8	1200.00	0.53	223.57	1199.99	-3.61	1.00	-3.74	3.75	164.54	0.26	0.04	30.26
9	1317.00	0.26	162.75	1316.98	-4.26	0.70	-4.31	4.31	170.60	0.40	-0.23	-51.98
10	1500.00	0.42	165.28	1499.98	-5.30	1.00	-5.39	5.39	169.34	0.09	0.09	1.38
11	1632.00	0.92	163.71	1631.97	-6.79	1.42	-6.93	6.93	168.20	0.38	0.38	-1.19
Interpolated Point For 13 3/8" Casing @ 1642' MD												
12	1642.00	0.95	161.62	1641.97	-6.94	1.47	-7.09	7.09	168.07	0.45	0.30	-20.90
Gordon Technologies MWD Surveys												
13	1740.00	1.27	146.58	1739.95	-8.62	2.32	-8.92	8.93	164.93	0.44	0.33	-15.35
14	1831.00	1.44	142.05	1830.93	-10.36	3.58	-10.89	10.96	160.94	0.22	0.19	-4.98
15	1922.00	1.01	137.96	1921.90	-11.86	4.82	-12.61	12.80	157.88	0.48	-0.47	-4.49
16	2106.00	1.18	139.48	2105.87	-14.50	7.14	-15.69	16.16	153.80	0.09	0.09	0.83
17	2288.00	0.77	91.65	2287.85	-15.96	9.58	-17.64	18.62	149.04	0.48	-0.23	-26.28
18	2380.00	0.70	57.59	2379.84	-15.68	10.67	-17.59	18.97	145.77	0.47	-0.08	-37.02
19	2472.00	0.78	67.36	2471.83	-15.14	11.72	-17.29	19.15	142.25	0.16	0.09	10.62
20	2564.00	0.83	59.54	2563.82	-14.56	12.87	-16.97	19.43	138.52	0.13	0.05	-8.50
21	2746.00	0.91	59.11	2745.80	-13.15	15.25	-16.10	20.14	130.77	0.04	0.04	-0.24
22	2838.00	0.60	7.09	2837.80	-12.30	15.94	-15.41	20.13	127.65	0.78	-0.34	-56.54
23	3020.00	0.89	62.27	3019.78	-10.69	17.31	-14.13	20.34	121.71	0.40	0.16	30.32
24	3202.00	0.81	73.10	3201.76	-9.66	19.79	-13.65	22.02	116.02	0.10	-0.04	5.95
25	3386.00	0.53	58.29	3385.75	-8.84	21.76	-13.27	23.48	112.10	0.18	-0.15	-8.05
26	3569.00	0.52	41.26	3568.74	-7.77	23.02	-12.49	24.30	108.64	0.09	-0.01	-9.31
27	3752.00	0.22	44.69	3751.74	-6.89	23.82	-11.81	24.80	106.14	0.16	-0.16	1.87
28	3934.00	0.09	25.05	3933.74	-6.51	24.12	-11.50	24.99	105.11	0.08	-0.07	-10.79
29	4117.00	0.06	248.10	4116.74	-6.42	24.10	-11.41	24.94	104.92	0.08	-0.02	-74.84
30	4300.00	0.18	211.31	4299.74	-6.70	23.86	-11.63	24.78	105.69	0.07	0.07	-20.10
31	4485.00	0.28	230.45	4484.73	-7.24	23.36	-12.05	24.45	107.22	0.07	0.05	10.35
32	4668.00	0.40	239.63	4667.73	-7.85	22.46	-12.45	23.79	109.25	0.07	0.07	5.02
33	4850.00	0.66	233.24	4849.72	-8.79	21.07	-13.08	22.84	112.65	0.15	0.14	-3.51
34	4942.00	0.72	241.61	4941.72	-9.39	20.14	-13.46	22.22	114.99	0.13	0.07	9.10
35	5031.00	0.75	246.37	5030.71	-9.89	19.12	-13.73	21.52	117.34	0.08	0.03	5.35
36	5214.00	1.07	231.53	5213.69	-11.43	16.68	-14.72	20.22	124.42	0.22	0.17	-8.11
37	5304.00	1.26	227.24	5303.67	-12.62	15.30	-15.59	19.83	129.53	0.23	0.21	-4.77
38	5488.00	1.46	230.10	5487.62	-15.50	12.01	-17.70	19.61	142.22	0.11	0.11	1.55
39	5671.00	0.72	197.16	5670.58	-18.09	9.89	-19.78	20.62	151.35	0.51	-0.40	-18.00
40	5795.00	1.66	227.32	5794.56	-20.06	8.34	-21.37	21.72	157.43	0.89	0.76	24.32

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100 Ft	Build Rate %/100 Ft	Walk Rate %/100 Ft
Interpolated Point For 9 5/8" Casing @ 5838' MD												
41	5838.00	1.62	226.70	5837.54	-20.90	7.43	-22.00	22.18	160.41	0.10	-0.09	-1.44
42	5889.00	1.58	225.93	5888.52	-21.88	6.41	-22.74	22.80	163.68	0.09	-0.08	-1.51
43	5966.00	1.12	244.57	5965.50	-22.94	4.96	-23.47	23.47	167.79	0.82	-0.60	24.21
44	6058.00	1.48	321.65	6057.48	-22.39	3.41	-22.61	22.65	171.33	1.79	0.39	83.78
45	6241.00	1.80	330.08	6240.40	-18.05	0.51	-17.75	18.06	178.37	0.22	0.17	4.61
46	6424.00	1.91	332.01	6423.31	-12.87	-2.35	-12.07	13.08	190.36	0.07	0.06	1.05
47	6606.00	2.04	335.92	6605.20	-7.23	-5.10	-5.98	8.85	215.18	0.10	0.07	2.15
48	6789.00	2.39	338.85	6788.06	-0.70	-7.80	0.98	7.83	264.89	0.20	0.19	1.60
49	6971.00	2.64	339.64	6969.89	6.77	-10.63	8.88	12.60	302.50	0.14	0.14	0.43
50	7063.00	2.77	340.01	7061.79	10.85	-12.13	13.18	16.27	311.81	0.14	0.14	0.40
51	7154.00	2.94	342.72	7152.67	15.14	-13.57	17.68	20.33	318.13	0.24	0.19	2.98
52	7246.00	3.11	341.28	7244.54	19.76	-15.07	22.52	24.85	322.66	0.20	0.18	-1.57
53	7338.00	2.69	343.31	7336.43	24.19	-16.49	27.15	29.28	325.71	0.47	-0.46	2.21
54	7519.00	2.51	344.12	7517.24	32.07	-18.80	35.34	37.17	329.62	0.10	-0.10	0.45
55	7703.00	2.70	346.75	7701.05	40.16	-20.89	43.69	45.27	332.51	0.12	0.10	1.43
56	7887.00	2.40	350.87	7884.87	48.19	-22.50	51.87	53.18	334.97	0.19	-0.16	2.24
57	8069.00	2.24	352.62	8066.72	55.48	-23.56	59.22	60.27	336.99	0.10	-0.09	0.96
58	8252.00	1.94	355.37	8249.60	62.11	-24.27	65.85	66.68	338.66	0.17	-0.16	1.50
59	8434.00	2.08	369	8431.49	68.48	-24.31	72.08	72.66	340.46	0.18	0.08	4.57
60	8617.00	2.11	4.70	8614.36	75.15	-23.82	78.50	78.83	342.42	0.03	0.02	0.55
61	8709.00	1.80	351.74	8706.31	78.27	-23.89	81.56	81.83	343.03	0.58	-0.34	-14.09
62	8801.00	1.72	342.75	8798.27	81.01	-24.50	84.37	84.64	343.17	0.31	-0.09	-9.77
63	8985.00	1.80	346.95	8982.18	86.47	-25.97	90.01	90.28	343.28	0.08	0.04	2.28
64	9168.00	1.95	353.29	9165.08	92.36	-26.99	95.99	96.22	343.71	0.14	0.08	3.46
65	9351.00	1.88	355.05	9347.98	98.44	-27.61	102.06	102.24	344.33	0.05	-0.04	0.96
66	9535.00	1.94	346.54	9531.88	104.48	-28.59	108.17	108.32	344.69	0.16	0.03	-4.62
67	9627.00	2.26	345.16	9623.82	107.74	-29.42	111.54	111.69	344.73	0.35	0.35	-1.50
68	9717.00	2.21	340.44	9713.75	111.10	-30.46	115.03	115.19	344.67	0.21	-0.06	-5.24
69	9810.00	2.30	344.18	9806.68	114.58	-31.57	118.67	118.85	344.60	0.19	0.10	4.02
70	9827.00	2.28	344.80	9823.66	115.24	-31.75	119.35	119.53	344.60	0.19	-0.12	3.65
71	9873.00	4.38	350.04	9869.58	117.85	-32.29	122.02	122.19	344.68	4.61	4.57	11.39
72	9919.00	9.05	353.10	9915.25	123.17	-33.03	127.38	127.52	344.99	10.18	10.15	6.65
73	9964.00	13.42	353.32	9959.38	131.88	-34.06	136.11	136.21	345.52	9.71	9.71	0.49
74	10010.00	17.57	352.68	10003.70	144.07	-35.57	148.34	148.40	346.13	9.03	9.02	-1.39
75	10056.00	21.94	352.53	10046.98	159.49	-37.57	163.83	163.85	346.74	9.50	9.50	-0.33
76	10101.00	25.40	352.07	10088.19	177.39	-40.00	181.83	181.84	347.29	7.70	7.69	-1.02
77	10147.00	27.19	352.59	10129.43	197.58	-42.71	202.14	202.14	347.80	3.92	3.89	1.13
78	10193.00	30.55	351.63	10169.71	219.57	-45.77	224.29	224.29	348.22	7.37	7.30	-2.09
79	10238.00	35.63	351.16	10207.39	243.86	-49.45	248.79	248.82	348.54	11.30	11.29	-1.04
80	10284.00	38.87	350.57	10244.01	271.34	-53.88	276.59	276.64	348.77	7.09	7.04	-1.28
81	10330.00	42.93	349.17	10278.77	300.98	-59.19	306.68	306.75	348.87	9.05	8.83	-3.04
82	10376.00	46.09	347.09	10311.57	332.53	-65.84	338.92	338.98	348.80	7.56	6.87	-4.52
83	10422.00	51.60	347.76	10341.83	366.32	-73.37	373.54	373.59	348.67	12.03	11.98	1.46
84	10468.00	56.11	348.26	10368.96	402.65	-81.08	410.68	410.73	348.62	9.84	9.80	1.09
85	10515.00	61.08	348.10	10393.44	441.90	-89.29	450.78	450.83	348.58	10.58	10.57	-0.34
Interpolated Point For 7" Casing @ 10543' MD												
86	10543.00	64.61	349.21	10406.22	466.32	-94.19	475.68	475.74	348.58	13.09	12.61	3.96
87	10568.00	67.76	350.15	10416.31	488.82	-98.28	498.54	498.60	348.63	13.06	12.60	3.76
88	10600.00	70.97	348.96	10427.59	518.27	-103.72	528.46	528.54	348.68	10.62	10.03	-3.72
89	10631.00	74.87	347.59	10436.69	547.27	-109.74	558.09	558.17	348.66	13.27	12.58	-4.42
90	10689.00	75.62	346.63	10451.46	601.95	-122.25	614.17	614.24	348.52	2.06	1.29	-1.66
91	10720.00	75.33	346.65	10459.24	631.14	-129.19	644.18	644.23	348.43	0.94	-0.94	0.06
92	10752.00	75.13	346.66	10467.40	661.25	-136.33	675.11	675.16	348.35	0.63	-0.63	0.03
93	10784.00	75.04	346.78	10475.63	691.35	-143.43	706.03	706.07	348.28	0.46	-0.28	0.37
94	10816.00	75.36	346.61	10483.81	721.45	-150.55	736.96	736.99	348.21	1.12	1.00	-0.53
95	10848.00	76.26	346.55	10491.65	751.63	-157.75	767.98	768.01	348.15	2.82	2.81	-0.19

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS °/100 Ft	Build Rate °/100 Ft	Walk Rate °/100 Ft
96	10879.00	76.97	346.73	10498.83	780.97	-164.72	798.13	798.15	348.09	2.36	2.29	0.58
97	10911.00	79.55	346.67	10505.34	811.46	-171.93	829.46	829.47	348.04	8.06	8.06	-0.19
98	10942.00	82.39	346.78	10510.20	841.25	-178.96	860.07	860.08	347.99	9.17	9.16	0.35
99	10973.00	84.89	346.60	10513.64	871.23	-186.05	890.87	890.88	347.95	8.09	8.06	-0.58
100	11005.00	87.42	346.66	10515.78	902.29	-193.43	922.79	922.79	347.90	7.91	7.91	0.19
101	11036.00	88.07	346.82	10517.00	932.44	-200.54	953.76	953.76	347.86	2.16	2.10	0.52
102	11067.00	87.95	346.70	10518.08	962.60	-207.63	984.74	984.74	347.83	0.55	-0.39	-0.39
103	11162.00	89.08	346.60	10520.54	1055.00	-229.56	1079.69	1079.69	347.72	1.19	1.19	-0.11
104	11256.00	89.08	346.43	10522.05	1146.40	-251.48	1173.65	1173.66	347.63	0.18	0.00	-0.18
105	11350.00	88.74	346.30	10523.84	1237.73	-273.63	1267.61	1267.62	347.53	0.39	-0.36	-0.14
106	11444.00	89.69	346.83	10525.13	1329.15	-295.47	1361.58	1361.59	347.47	1.16	1.01	0.56
107	11538.00	89.44	346.70	10525.84	1420.65	-316.99	1455.57	1455.59	347.42	0.30	-0.27	-0.14
108	11632.00	90.08	347.12	10526.23	1512.21	-338.28	1549.56	1549.58	347.39	0.81	0.68	0.45
109	11727.00	89.83	347.46	10526.31	1604.88	-359.18	1644.55	1644.58	347.38	0.44	-0.26	0.36
110	11821.00	89.72	347.74	10526.68	1696.68	-379.36	1738.55	1738.58	347.40	0.32	-0.12	0.30
111	11916.00	89.89	347.79	10527.00	1789.53	-399.50	1833.55	1833.58	347.42	0.19	0.18	0.05
112	12010.00	89.86	348.17	10527.20	1881.46	-419.07	1927.55	1927.57	347.44	0.41	-0.03	0.40
113	12104.00	89.83	348.53	10527.46	1973.53	-438.05	2021.55	2021.56	347.49	0.38	-0.03	0.38
114	12199.00	90.42	348.30	10527.25	2066.59	-457.13	2116.54	2116.55	347.53	0.67	0.62	-0.24
115	12293.00	90.00	348.51	10526.91	2158.67	-476.03	2210.53	2210.54	347.56	0.50	-0.45	0.22
116	12388.00	90.48	348.36	10526.51	2251.74	-495.07	2305.52	2305.52	347.60	0.53	0.51	-0.16
117	12482.00	90.50	348.71	10525.71	2343.86	-513.75	2399.51	2399.51	347.64	0.37	0.02	0.37
118	12577.00	88.66	349.51	10526.40	2437.15	-531.70	2494.47	2494.47	347.69	2.11	-1.94	0.84
119	12671.00	88.63	349.61	10528.62	2529.56	-548.73	2588.39	2588.40	347.76	0.11	-0.03	0.11
120	12765.00	88.71	349.72	10530.81	2622.01	-565.59	2682.31	2682.32	347.83	0.14	0.09	0.12
121	12860.00	90.17	350.57	10531.73	2715.60	-581.85	2777.22	2777.24	347.91	1.78	1.54	0.89
122	12955.00	89.05	350.47	10532.38	2809.30	-597.49	2872.10	2872.14	347.99	1.18	-1.18	-0.11
123	13049.00	88.63	349.55	10534.28	2901.86	-613.80	2966.00	2966.06	348.06	1.08	-0.45	-0.98
124	13143.00	88.07	347.79	10536.99	2993.98	-632.25	3059.95	3060.01	348.08	1.96	-0.60	-1.87
125	13237.00	88.24	347.95	10540.02	3085.84	-652.00	3153.90	3153.96	348.07	0.25	0.18	0.17
126	13332.00	88.71	346.48	10542.55	3178.45	-673.01	3248.86	3248.92	348.04	1.62	0.49	-1.55
127	13427.00	88.77	346.77	10544.64	3270.85	-694.98	3343.82	3343.87	348.00	0.31	0.06	0.31
128	13521.00	88.46	346.84	10546.91	3362.34	-716.43	3437.78	3437.82	347.97	0.34	-0.33	0.07
129	13616.00	88.26	346.87	10549.63	3454.81	-738.03	3532.73	3532.76	347.94	0.21	-0.21	0.03
130	13710.00	87.84	346.94	10552.82	3546.31	-759.31	3626.67	3626.69	347.91	0.45	-0.45	0.07
131	13805.00	87.76	346.38	10556.47	3638.68	-781.22	3721.58	3721.60	347.88	0.60	-0.08	-0.59
132	13899.00	89.66	346.29	10558.59	3729.99	-803.42	3815.53	3815.54	347.84	2.02	2.02	-0.10
133	13994.00	90.98	346.03	10558.06	3822.23	-826.14	3910.49	3910.49	347.80	1.42	1.39	-0.27
134	14088.00	91.09	346.26	10556.36	3913.48	-848.65	4004.44	4004.44	347.76	0.27	0.12	0.24
135	14183.00	91.09	346.19	10554.55	4005.73	-871.26	4099.39	4099.39	347.73	0.07	0.00	-0.07
136	14278.00	91.06	346.24	10552.77	4097.98	-893.90	4194.34	4194.34	347.69	0.06	-0.03	0.05
137	14372.00	90.92	346.13	10551.15	4189.25	-916.34	4288.29	4288.29	347.66	0.19	-0.15	-0.12
138	14466.00	91.62	347.68	10549.06	4280.78	-937.63	4382.26	4382.26	347.65	1.81	0.74	1.65
139	14561.00	91.71	347.77	10546.30	4373.57	-957.82	4477.22	4477.22	347.65	0.13	0.09	0.09
140	14655.00	91.60	347.63	10543.59	4465.37	-977.84	4571.18	4571.18	347.65	0.19	-0.12	-0.15
141	14749.00	92.10	347.68	10540.55	4557.15	-997.92	4665.13	4665.13	347.65	0.53	0.53	0.05
142	14843.00	90.36	347.43	10538.53	4648.91	-1018.17	4759.10	4759.11	347.65	1.87	-1.85	-0.27
143	14938.00	90.39	347.63	10537.91	4741.67	-1038.69	4854.10	4854.10	347.64	0.21	0.03	0.21
144	15032.00	90.11	348.01	10537.50	4833.55	-1058.52	4948.10	4948.10	347.65	0.50	-0.30	0.40
145	15126.00	89.64	348.30	10537.71	4925.55	-1077.81	5042.10	5042.10	347.66	0.59	-0.50	0.31
146	15220.00	90.03	348.38	10537.98	5017.61	-1096.81	5136.09	5136.09	347.67	0.42	0.41	0.09
147	15314.00	90.25	348.84	10537.75	5109.76	-1115.37	5230.08	5230.08	347.69	0.54	0.23	0.49
148	15409.00	90.67	349.12	10536.99	5203.01	-1133.53	5325.05	5325.05	347.71	0.53	0.44	0.29
149	15503.00	90.98	349.21	10535.63	5295.32	-1151.20	5419.01	5419.01	347.73	0.34	0.33	0.10
150	15598.00	90.11	348.02	10534.73	5388.44	-1169.95	5513.99	5513.99	347.75	1.55	-0.92	-1.25
151	15692.00	89.52	347.36	10535.03	5480.28	-1189.99	5607.99	5607.99	347.75	0.94	-0.63	-0.70

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS °/100 Ft	Build Rate °/100 Ft	Walk Rate °/100 Ft
152	15786.00	89.66	347.88	10535.70	5572.09	-1210.15	5701.99	5701.99	347.75	0.57	0.15	0.55
153	15881.00	89.47	347.84	10536.43	5664.97	-1230.12	5796.98	5796.99	347.75	0.20	-0.20	-0.04
154	15991.00	90.67	347.68	10536.29	5772.46	-1253.44	5906.98	5906.98	347.75	1.10	1.09	-0.15
155	16086.00	90.48	347.37	10535.34	5865.21	-1273.96	6001.98	6001.98	347.75	0.38	-0.20	-0.33
156	16180.00	90.08	345.27	10534.88	5956.54	-1296.19	6095.94	6095.94	347.72	2.27	-0.43	-2.23
157	16274.00	89.24	344.54	10535.44	6047.30	-1320.67	6189.83	6189.83	347.68	1.18	-0.89	-0.78
158	16369.00	89.86	344.26	10536.18	6138.79	-1346.22	6284.67	6284.67	347.63	0.72	0.65	-0.29
159	16463.00	90.34	344.17	10536.02	6229.25	-1371.79	6378.49	6378.51	347.58	0.52	0.51	-0.10
160	16558.00	90.28	345.52	10535.50	6320.94	-1396.63	6473.37	6473.39	347.54	1.42	-0.06	1.42
161	16652.00	90.53	346.04	10534.84	6412.06	-1419.72	6567.31	6567.35	347.52	0.61	0.27	0.55
162	16747.00	89.36	346.41	10534.93	6504.32	-1442.34	6662.28	6662.32	347.50	1.29	-1.23	0.39
163	16841.00	90.08	346.50	10535.39	6595.71	-1464.35	6756.26	6756.31	347.48	0.77	0.77	0.10
164	16936.00	91.23	346.55	10534.30	6688.08	-1486.49	6851.23	6851.28	347.47	1.21	1.21	0.05
165	17031.00	89.41	346.94	10533.77	6780.55	-1508.27	6946.21	6946.27	347.46	1.96	-1.92	0.41
166	17125.00	90.34	347.52	10533.98	6872.22	-1529.04	7040.21	7040.27	347.46	1.17	0.99	0.62
167	17219.00	88.99	348.17	10534.53	6964.11	-1548.83	7134.20	7134.26	347.46	1.59	-1.44	0.69
168	17314.00	89.66	348.22	10535.65	7057.09	-1568.27	7229.19	7229.25	347.47	0.71	0.71	0.05
169	17408.00	90.11	348.65	10535.84	7149.18	-1587.11	7323.18	7323.23	347.48	0.66	0.48	0.46
170	17502.00	88.26	348.12	10537.17	7241.25	-1606.04	7417.16	7417.21	347.49	2.05	-1.97	-0.56
171	17596.00	88.18	348.16	10540.09	7333.19	-1625.35	7511.11	7511.16	347.50	0.10	-0.09	0.04
172	17691.00	89.64	348.56	10541.90	7426.22	-1644.51	7606.09	7606.13	347.51	1.59	1.54	0.42
173	17785.00	90.22	349.00	10542.02	7518.42	-1662.80	7700.07	7700.10	347.53	0.77	0.62	0.47
174	17880.00	89.89	349.55	10541.92	7611.76	-1680.48	7795.03	7795.06	347.55	0.68	-0.35	0.58
175	17974.00	90.14	349.76	10541.90	7704.24	-1697.36	7888.98	7889.00	347.58	0.35	0.27	0.22
176	18036.00	90.90	349.86	10541.34	7765.25	-1708.33	7950.93	7950.95	347.59	1.24	1.23	0.16
Straight Line Projection To TD @ 18086' MD												
177	18086.00	90.90	349.86	10540.55	7814.47	-1717.13	8000.89	8000.90	347.61	0.00	0.00	0.00