VAUGHN ENERGY SERVICES
A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-40999

February 27, 2013

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers

Re: **Agasti 27 Federal 1H**

Please find enclosed a copy of the survey from 0.00' to 4102.00' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 4th day of March A.D., 2013, by Keith Havelka.

LAURA BALLEW
Notary Public, State of Texas
My Commission Expires
January 28, 2014

Laura Ballew
Notary Public, State of Texas

Company: Devon Energy Production Co., LP
Lease/Well: Agasti 27 Federal / No. 001H

Rig Name: H P 300
State/County: New Mexico / Eddy
Latitude: 32.64, Longitude: -103.87
GRID North is 0.25 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : 26'

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: survey.ut
Minimum Curvature Method
Report Date/Time: 2/27/2013 / 11:56

Vaughn Energy Services
Gardendale, Texas
432-563-5444
Survey Engineer: Kyle Willis
Agasti 27 Federal No. 001H / API 30-015-40999

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.17	243.64	100.00	-0.07	-0.13	-0.07	0.15	243.64	0.17
200.00	0.10	257.25	200.00	-0.15	-0.35	-0.15	0.38	246.73	0.08
300.00	0.67	248.86	300.00	-0.38	-0.98	-0.38	1.05	248.78	0.57
400.00	1.70	250.19	399.97	-1.09	-2.92	-1.09	3.12	249.47	1.04
500.00	3.29	253.73	499.88	-2.40	-7.08	-2.40	7.47	251.25	1.60
600.00	4.36	247.05	599.65	-4.69	-13.33	-4.69	14.13	250.62	1.15
700.00	4.64	248.14	699.34	-7.68	-20.59	-7.68	21.97	249.55	0.30
800.00	4.56	244.86	799.02	-10.88	-27.94	-10.88	29.99	248.74	0.27
900.00	3.62	244.86	898.77	-13.91	-34.41	-13.91	37.11	247.99	0.94
1000.00	3.12	239.35	998.59	-16.64	-39.61	-16.64	42.96	247.21	0.60
1100.00	2.46	245.70	1098.47	-18.91	-43.90	-18.91	47.80	246.70	0.73
1200.00	2.28	249.84	1198.39	-20.48	-47.73	-20.48	51.93	246.78	0.25
1300.00	1.69	250.30	1298.33	-21.66	-50.98	-21.66	55.39	246.98	0.59
1400.00	1.35	250.48	1398.29	-22.55	-53.47	-22.55	58.03	247.14	0.34
1500.00	0.77	263.11	1498.27	-23.02	-55.25	-23.02	59.85	247.38	0.61
1600.00	0.40	11.81	1598.27	-22.76	-55.85	-22.76	60.31	247.83	0.98
1700.00	1.08	31.04	1698.26	-21.61	-55.29	-21.61	59.36	248.65	0.72
1800.00	1.36	42.68	1798.24	-19.92	-54.00	-19.92	57.55	249.75	0.37

VES Survey Date: 02/21/2013

PathFinder Energy Services, Inc.

Survey Report

Tie-in Date: 02/22/2013
Date Completed: 03/10/2013

DEVON ENERGY PRODUCTION COMPANY
AGASTI 27 FED #1H / API #: 30-015-40999
EDDY COUNTY COUNTY, NEW MEXICO
Rig:H&P300
PathFinder Office Supervisor: MARCUS MITCHAM
PathFinder Field Engineers: MAGSUD ALIYEV
TODD DENNIS

Survey Calculations by RX5 V6.04D using Minimum Curvature

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.38.23.6049 N LON:103.51.55.2494 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coor: X: 685391.7900 Y: 596840.2800
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.29° EAST TO GRID
Vertical Section Plane: 105.93
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude:3519.70' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	(ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)	TEMP (F)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.											
100.00	0.17	243.64	100.00	0.00	-0.14	0.07 S	0.16 W	0.18@	246.88	0.00	0.00
200.00	0.10	257.25	200.00	100.00	-0.33	0.16 S	0.38 W	0.41@	247.90	0.08	0.00
300.00	0.67	248.86	299.99	100.00	-0.87	0.39 S	1.01 W	1.08@	249.16	0.57	0.00
400.00	1.70	250.19	399.97	100.00	-2.54	1.10 S	2.95 W	3.15@	249.59	1.03	0.00
500.00	3.29	253.73	499.87	100.00	-6.17	2.41 S	7.10 W	7.50@	251.29	1.60	0.00
600.00	4.36	247.05	599.65	100.00	-11.56	4.69 S	13.36 W	14.16@	250.65	1.16	0.00
700.00	4.64	248.14	699.34	100.00	-17.71	7.68 S	20.61 W	22.00@	249.57	0.29	0.00
800.00	4.56	244.86	799.02	100.00	-23.91	10.88 S	27.97 W	30.01@	248.75	0.27	0.00
900.00	3.62	244.86	898.76	100.00	-29.28	13.91 S	34.42 W	37.13@	248.00	0.94	0.00
1000.00	3.12	239.35	998.59	100.00	-33.54	16.63 S	39.62 W	42.97@	247.23	0.60	0.00
1100.00	2.46	245.70	1098.47	100.00	-37.04	18.90 S	43.92 W	47.82@	246.71	0.73	0.00
1200.00	2.28	249.84	1198.39	100.00	-40.29	20.47 S	47.74 W	51.95@	246.79	0.25	0.00
1300.00	1.69	250.30	1298.33	100.00	-43.10	21.66 S	51.00 W	55.41@	246.99	0.59	0.00
1400.00	1.35	250.48	1398.29	100.00	-45.25	22.55 S	53.50 W	58.05@	247.15	0.34	0.00
1500.00	0.77	263.11	1498.27	100.00	-46.83	23.02 S	55.27 W	59.88@	247.39	0.62	0.00
1600.00	0.40	11.81	1598.27	100.00	-47.48	22.76 S	55.87 W	60.33@	247.84	0.97	0.00
1700.00	1.08	31.04	1698.26	100.00	-47.26	21.61 S	55.31 W	59.38@	248.66	0.71	0.00
1800.00	1.36	42.68	1798.24	100.00	-46.48	19.93 S	54.02 W	57.58@	249.75	0.37	0.00
1900.00	1.59	51.15	1898.21	100.00	-45.14	18.19 S	52.14 W	55.22@	250.77	0.32	0.00
2000.00	1.81	61.81	1998.16	100.00	-43.21	16.57 S	49.66 W	52.36@	251.55	0.38	0.00
2100.00	1.72	63.22	2098.11	100.00	-40.97	15.15 S	46.93 W	49.32@	252.11	0.10	0.00
2200.00	1.19	65.39	2198.08	100.00	-39.08	14.04 S	44.65 W	46.80@	252.54	0.53	0.00
2300.00	0.96	63.85	2298.06	100.00	-37.67	13.24 S	42.95 W	44.95@	252.87	0.23	0.00
2400.00	0.77	70.07	2398.05	100.00	-36.50	12.64 S	41.57 W	43.45@	253.09	0.21	0.00
2500.00	0.71	65.77	2498.04	100.00	-35.49	12.16 S	40.37 W	42.16@	253.24	0.08	0.00

MD	INC	AZI	TVD	CL	SECT	RCN	RCE	CLDIST
feet	deg	deg	feet	feet	feet	feet	feet	feet
100	0.17	243.64	100	0	-0.14	-0.07	-0.16	0.18
200	0.1	257.25	200	100	-0.33	-0.16	-0.38	0.41
300	0.67	248.86	299.99	100	-0.87	-0.39	-1.01	1.08
400	1.7	250.19	399.97	100	-2.54	-1.1	-2.95	3.15
500	3.29	253.73	499.87	100	-6.17	-2.41	-7.1	7.5
600	4.36	247.05	599.65	100	-11.56	-4.69	-13.36	14.16
700	4.64	248.14	699.34	100	-17.71	-7.68	-20.61	22
800	4.56	244.86	799.02	100	-23.91	-10.88	-27.97	30.01
900	3.62	244.86	898.76	100	-29.28	-13.91	-34.42	37.13
1000	3.12	239.35	998.59	100	-33.54	-16.63	-39.62	42.97
1100	2.46	245.7	1098.47	100	-37.04	-18.9	-43.92	47.82
1200	2.28	249.84	1198.39	100	-40.29	-20.47	-47.74	51.95
1300	1.69	250.3	1298.33	100	-43.1	-21.66	-51	55.41
1400	1.35	250.48	1398.29	100	-45.25	-22.55	-53.5	58.05
1500	0.77	263.11	1498.27	100	-46.83	-23.02	-55.27	59.88
1600	0.4	11.81	1598.27	100	-47.48	-22.76	-55.87	60.33
1700	1.08	31.04	1698.26	100	-47.26	-21.61	-55.31	59.38
1800	1.36	42.68	1798.24	100	-46.48	-19.93	-54.02	57.58
1900	1.59	51.15	1898.21	100	-45.14	-18.19	-52.14	55.22
2000	1.81	61.81	1998.16	100	-43.21	-16.57	-49.66	52.36
2100	1.72	63.22	2098.11	100	-40.97	-15.15	-46.93	49.32
2200	1.19	65.39	2198.08	100	-39.08	-14.04	-44.65	46.8
2300	0.96	63.85	2298.06	100	-37.67	-13.24	-42.95	44.95
2400	0.77	70.07	2398.05	100	-36.5	-12.64	-41.57	43.45
2500	0.71	65.77	2498.04	100	-35.49	-12.16	-40.37	42.16
2600	0.8	84.74	2598.04	100	-34.36	-11.84	-39.11	40.87
2700	0.6	96.01	2698.03	100	-33.19	-11.83	-37.9	39.7
2800	0.43	79.98	2798.02	100	-32.34	-11.82	-37.01	38.85
2900	0.04	133.44	2898.02	100	-31.97	-11.78	-36.61	38.46
3000	0.1	263.81	2998.02	100	-32.02	-11.81	-36.67	38.53
3100	0.55	294	3098.02	100	-32.58	-11.63	-37.2	38.97
3200	0.55	309.67	3198.02	100	-33.49	-11.12	-38.01	39.6
3300	0.76	299.73	3298.01	100	-34.58	-10.49	-38.95	40.34
3400	0.84	305.45	3398	100	-35.91	-9.73	-40.12	41.29
3500	1.14	308.66	3497.99	100	-37.52	-8.69	-41.5	42.4
3600	1.05	306.46	3597.97	100	-39.3	-7.52	-43.01	43.66
3700	0.84	281.87	3697.95	100	-40.89	-6.83	-44.47	44.99
3800	1.07	278.27	3797.94	100	-42.54	-6.54	-46.11	46.57
3900	1.15	263.41	3897.92	100	-44.39	-6.52	-48.03	48.47
4000	1.32	263.38	3997.9	100	-46.38	-6.77	-50.17	50.62
4100	1.8	257.75	4097.86	100	-48.83	-7.24	-52.85	53.34
4102	1.81	257.87	4099.86	2	-48.89	-7.25	-52.91	53.4

4248	1.67	266.39	4245.79	146	-52.93	-7.87	-57.29	57.83
4311	1.85	268.79	4308.76	63	-54.76	-7.95	-59.22	59.75
4406	1.32	223.23	4403.73	95	-56.73	-8.78	-61.5	62.13
4501	2.11	182.41	4498.69	95	-56.83	-11.32	-62.33	63.35
4596	2.37	166.24	4593.62	95	-55.44	-14.98	-61.93	63.72
4690	2.81	169.44	4687.52	94	-53.45	-19.13	-61.05	63.97
4785	3.69	166.38	4782.37	95	-50.91	-24.39	-59.9	64.68
4879	5.01	164.95	4876.1	94	-47.3	-31.29	-58.12	66.01
4974	6.24	165.59	4970.64	95	-42.56	-40.3	-55.76	68.8
5068	7.83	165.48	5063.93	94	-36.73	-51.45	-52.88	73.78
5163	9.23	169.37	5157.87	95	-30.05	-65.2	-49.86	82.08
5258	10.55	170.62	5251.46	95	-22.92	-81.27	-47.03	93.9
5353	11.78	168.65	5344.66	95	-14.76	-99.36	-43.71	108.55
5447	13.72	169.44	5436.34	94	-5.39	-119.73	-39.78	126.16
5542	14.95	171.42	5528.38	95	4.72	-142.92	-35.88	147.36
5636	15.04	172.96	5619.18	94	14.51	-167.01	-32.58	170.16
5730	15.56	174.73	5709.85	94	23.83	-191.67	-29.93	194
5825	16.18	175.81	5801.23	95	32.99	-217.56	-27.79	219.33
5920	15.12	175.71	5892.7	95	41.83	-243.12	-25.89	244.49
6015	16.27	176.29	5984.16	95	50.58	-268.76	-24.11	269.83
6109	17.24	176.35	6074.17	94	59.68	-295.8	-22.37	296.64
6204	17.85	176.87	6164.75	95	69.15	-324.39	-20.68	325.04
6298	17.76	177.32	6254.25	94	78.43	-353.09	-19.22	353.61
6393	17.06	176.75	6344.89	95	87.63	-381.48	-17.75	381.89
6488	16.09	177.02	6435.94	95	96.48	-408.54	-16.28	408.86
6582	15.74	175.81	6526.34	94	105.08	-434.26	-14.67	434.51
6677	17.67	172.14	6617.33	95	115.33	-461.4	-11.76	461.55
6771	16	171.87	6707.3	94	126.37	-488.36	-7.97	488.42
6866	16.44	171.99	6798.52	95	137.16	-514.63	-4.25	514.65
6961	16.62	171.45	6889.59	95	148.25	-541.38	-0.35	541.38
7055	17.32	175.25	6979.5	94	158.76	-568.62	2.8	568.62
7150	15.21	175.34	7070.69	95	168.14	-595.13	4.99	595.15
7244	14.42	174.35	7161.57	94	176.78	-619.07	7.14	619.11
7339	14.07	174.91	7253.65	95	185.27	-642.34	9.33	642.41
7433	15.92	177.36	7344.44	94	193.48	-666.61	10.94	666.7
7528	15.3	173.25	7435.94	95	202.46	-692.07	13.01	692.19
7622	15.39	172	7526.59	94	212.3	-716.74	16.21	716.92
7717	15.74	178.77	7618.11	95	221.22	-742.11	18.24	742.33
7812	15.92	173.93	7709.51	95	229.9	-767.94	19.89	768.2
7906	16.09	173.77	7799.87	94	239.64	-793.71	22.67	794.04
8001	17.5	175.6	7890.82	95	249.57	-821.04	25.19	821.43
8095	17.5	176.35	7980.47	94	259.22	-849.24	27.18	849.67
8190	17.41	177.71	8071.09	95	268.45	-877.69	28.65	878.16
8285	16.62	176.07	8161.93	95	277.51	-905.45	30.15	905.95

8380	16.97	175.63	8252.88	95	286.93	-932.83	32.14	933.38
8474	16.88	177.49	8342.81	94	296.01	-960.14	33.78	960.74
8569	16.18	170.59	8433.89	95	306.04	-986.98	36.55	987.66
8652	14.95	169.68	8513.85	83	315.72	-1008.92	40.36	1009.73
8687	14.95	168.81	8547.66	35	319.78	-1017.79	42.05	1018.66
8719	17.32	164.87	8578.4	32	324.12	-1026.44	44.09	1027.39
8750	20.58	160.02	8607.72	31	329.69	-1036.02	47.16	1037.09
8782	23.39	154.07	8637.39	32	337.23	-1047.02	51.86	1048.31
8813	25.94	148.91	8665.56	31	346.3	-1058.37	58.05	1059.96
8845	27.96	142.47	8694.09	32	357.45	-1070.31	66.24	1072.36
8876	30.16	135.36	8721.2	31	370.08	-1081.62	76.14	1084.3
8908	32.27	131.51	8748.57	32	384.79	-1093.01	88.19	1096.56
8939	34.21	127.25	8774.5	31	400.38	-1103.77	101.33	1108.41
8971	35	122.16	8800.84	32	417.57	-1114.1	116.26	1120.15
9002	36.4	115.72	8826.02	31	435.18	-1122.83	132.08	1130.57
9034	39.31	110.2	8851.3	32	454.65	-1130.45	150.15	1140.38
9065	42.74	106.46	8874.68	31	474.97	-1136.83	169.47	1149.39
9097	46.6	105.53	8897.44	32	497.47	-1143.02	191.09	1158.88
9128	49.42	103.86	8918.17	31	520.5	-1148.85	213.38	1168.5
9160	51.44	103.25	8938.56	32	545.14	-1154.63	237.35	1178.78
9191	53.82	102.49	8957.37	31	569.74	-1160.12	261.37	1189.2
9223	54.96	101.65	8976	32	595.7	-1165.56	286.81	1200.33
9255	57.6	100.06	8993.77	32	622.21	-1170.56	312.95	1211.67
9286	60.15	98.72	9009.79	31	648.57	-1174.89	339.13	1222.85
9318	64.19	98.36	9024.73	32	676.62	-1179.09	367.11	1234.92
9349	67.71	98.31	9037.36	31	704.68	-1183.19	395.11	1247.42
9381	70.35	97.24	9048.81	32	734.26	-1187.23	424.72	1260.91
9412	70.79	95.42	9059.12	31	763.08	-1190.45	453.77	1274
9444	73.86	93.28	9068.84	32	792.94	-1192.76	484.17	1287.28
9476	78.35	91.91	9076.52	32	823.16	-1194.16	515.19	1300.55
9549	87.32	91.25	9085.62	73	893.26	-1196.15	587.52	1332.65
9644	87.85	91.61	9089.62	95	985.15	-1198.52	682.4	1379.18
9738	89.16	91.66	9092.07	94	1076.2	-1201.2	776.33	1430.24
9833	88.46	91.73	9094.05	95	1168.27	-1204.01	871.27	1486.19
9928	88.2	91.84	9096.81	95	1260.35	-1206.97	966.18	1546.05
10022	87.58	91.65	9100.28	94	1351.42	-1209.83	1060.07	1608.55
10117	87.76	91.73	9104.14	95	1443.42	-1212.63	1154.95	1674.63
10212	88.11	92.08	9107.56	95	1535.53	-1215.79	1249.84	1743.63
10306	88.55	91.73	9110.3	94	1626.69	-1218.91	1343.75	1814.22
10401	89.87	91.69	9111.61	95	1718.77	-1221.74	1438.69	1887.46
10495	89.52	92.84	9112.11	94	1810.1	-1225.46	1532.62	1962.31
10590	88.02	93.64	9114.15	95	1902.76	-1230.83	1627.44	2040.46
10684	88.11	93.8	9117.32	94	1994.58	-1236.92	1721.19	2119.54
10779	88.72	94.22	9119.95	95	2087.5	-1243.56	1815.92	2200.91

10873	87.93	93.75	9122.7	94	2179.42	-1250.09	1909.65	2282.43
10968	88.11	92.76	9125.98	95	2272.05	-1255.48	2004.44	2365.17
11063	87.58	91.53	9129.55	95	2364.24	-1259.04	2099.3	2447.91
11157	86.53	91.66	9134.38	94	2455.2	-1261.65	2193.14	2530.14
11252	86.88	91.19	9139.84	95	2547.02	-1264.01	2287.96	2613.9
11346	88.37	91.22	9143.74	94	2637.85	-1265.98	2381.85	2697.39
11441	88.72	90.48	9146.15	95	2729.55	-1267.39	2476.81	2782.24
11536	88.55	91.39	9148.41	95	2821.28	-1268.94	2571.77	2867.79
11630	88.46	92.94	9150.87	94	2912.55	-1272.49	2665.67	2953.81
11725	90.22	93.02	9151.96	95	3005.12	-1277.43	2760.53	3041.77
11819	91.19	93.35	9150.8	94	3096.8	-1282.65	2854.37	3129.32
11914	89.96	92.4	9149.85	95	3189.34	-1287.42	2949.25	3218
12008	90.04	92.09	9149.85	94	3280.67	-1291.1	3043.18	3305.73
12103	89.96	91.82	9149.85	95	3372.86	-1294.34	3138.12	3394.57
12197	90.13	91.72	9149.78	94	3464	-1297.24	3232.07	3482.69
12292	90.22	91.41	9149.49	95	3556.03	-1299.84	3327.04	3571.94
12388	89.52	92.7	9149.7	96	3649.23	-1303.28	3422.97	3662.69
12481	88.46	93.68	9151.34	93	3739.92	-1308.45	3515.81	3751.4
12575	88.72	93.66	9153.66	94	3831.75	-1314.47	3609.59	3841.48
12669	89.08	94.12	9155.46	94	3923.66	-1320.84	3703.36	3931.86
12763	87.85	93.96	9157.98	94	4015.61	-1327.46	3797.09	4022.44
12858	87.76	93.51	9161.62	95	4108.4	-1333.65	3891.82	4113.98
12953	87.67	92.66	9165.41	95	4200.95	-1338.76	3986.6	4205.39
13047	88.11	92.89	9168.87	94	4292.42	-1343.3	4080.43	4295.86
13142	88.46	92.97	9171.71	95	4384.94	-1348.16	4175.26	4387.52
13237	88.9	93	9173.9	95	4477.5	-1353.1	4270.11	4479.36
13331	89.08	93.28	9175.56	94	4569.16	-1358.25	4363.95	4570.44
13425	89.34	93.13	9176.85	94	4660.84	-1363.51	4457.8	4661.66
13520	89.6	93.57	9177.73	95	4753.55	-1369.06	4552.63	4754.03
13614	90.13	93.36	9177.95	94	4845.34	-1374.74	4646.46	4845.56
13708	90.22	93.85	9177.66	94	4937.17	-1380.65	4740.27	4937.24
13734	90.31	93.88	9177.54	26	4962.6	-1382.4	4766.21	4962.64
13813	90.31	93.88	9177.12	79	5039.85	-1387.75	4845.03	5039.85

CLDIR	DLS
deg	deg/100ft
246.88	-999.25
247.9	0.08
249.16	0.57
249.59	1.03
251.29	1.6
250.65	1.16
249.57	0.29
248.75	0.27
248	0.94
247.23	0.6
246.71	0.73
246.79	0.25
246.99	0.59
247.15	0.34
247.39	0.62
247.84	0.97
248.66	0.71
249.75	0.37
250.77	0.32
251.55	0.38
252.11	0.1
252.54	0.53
252.87	0.23
253.09	0.21
253.24	0.08
253.16	0.26
252.66	0.24
252.29	0.22
252.17	0.41
252.15	0.13
252.64	0.47
253.69	0.15
254.93	0.24
256.36	0.11
258.18	0.31
260.08	0.1
261.27	0.45
261.92	0.24
262.27	0.3
262.31	0.17
262.2	0.5
262.2	0.53

262.18	0.2
262.36	0.31
261.88	1.39
259.7	1.48
256.4	0.72
252.6	0.49
247.84	0.94
241.7	1.41
234.14	1.3
225.79	1.69
217.4	1.59
210.06	1.41
203.74	1.36
198.38	2.07
194.09	1.39
191.04	0.43
188.87	0.74
187.28	0.72
186.08	1.12
185.13	1.22
184.32	1.03
183.65	0.66
183.12	0.17
182.66	0.76
182.28	1.03
181.93	0.51
181.46	2.31
180.94	1.78
180.47	0.46
180.04	0.25
179.72	1.4
179.52	2.22
179.34	0.88
179.17	0.4
179.06	2.08
178.92	1.33
178.7	0.36
178.59	1.95
178.52	1.4
178.36	0.19
178.24	1.59
178.17	0.24
178.13	0.44
178.09	0.97

178.03	0.39
177.98	0.58
177.88	2.19
177.71	1.51
177.63	0.64
177.54	8.15
177.39	11.67
177.16	11.2
176.86	10.76
176.46	11.08
175.97	13.2
175.39	9.07
174.75	9.79
174.04	9.36
173.29	12.93
172.43	13.95
171.52	13.6
170.51	12.23
169.48	9.94
168.38	6.48
167.3	7.92
166.18	4.15
165.03	9.23
163.9	9.02
162.71	12.66
161.53	11.36
160.32	8.82
159.13	5.72
157.91	11.52
156.66	14.63
153.84	12.32
150.34	0.67
147.13	1.4
144.11	0.74
141.32	0.3
138.77	0.69
136.4	0.21
134.21	0.52
132.21	0.6
130.34	1.39
128.65	1.28
127.1	1.79
125.7	0.2
124.4	0.78

123.21	0.98
122.06	1.06
120.95	1.41
119.91	1.12
118.92	0.62
117.99	1.59
117.1	0.86
116.26	0.97
115.52	1.65
114.83	1.85
114.2	1.09
113.58	1.64
112.99	0.34
112.41	0.3
111.87	0.21
111.34	0.34
110.84	1.53
110.41	1.55
110.01	0.28
109.63	0.62
109.27	1.32
108.92	0.48
108.56	0.9
108.22	0.53
107.89	0.38
107.58	0.46
107.29	0.35
107.01	0.32
106.74	0.54
106.48	0.61
106.24	0.53
106.17	0.36
105.98	-999.25