Schlumberger

Reservoir Development
Drilling & Measurements (Anadrill)
4301 SW 44th St
Oklahoma City, Oklahoma 73119 USA
Phone: (405) 682-2284
Fax: (405) 682-3937

30-015-38532

June 24, 2011

OGX Resources
P.O. Box 2064
Midland ,TX 79702

Well Reference:
Surface Location: H-31-26S-29E Lot: 7 480 FSL 480 FEL
Lat/Long: N 32.0014319408279 W -104.01685318585

Re:
CLIENT: OGX
WELL: Copperhead 31 Fed Com 1H ST01
FIELD: Bone Spring
RIG: Silver Oak 11
COUNTY: Eddy
API NO: 30-015-38532-01
JOB NO: 11SWB0170

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
Mallory Morrell MWD	Copperhead 31 Fed Com 1H ST01 Side Track	5631.00 Ft	to 11472.00 Ft	May 2, 2011	to June 19, 2011	SlimPulse

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

Chad McMillan
Field Service Manager

CC: OGX
Enclosures: [2]
County of Eddy
State of Texas

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I, Mallory Morrell certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of May 02, 2011 through June 19, 2011, conduct or supervise the taking of the SlimPulse surveys from a depth of 5631.00 feet to a depth of 11472.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OGX for the Copperhead 31 Fed Com 1H ST01 Well (Side Track) API No. 30-015-38532-01 in Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Mallory Morrell (signature) _____

Subscribed and Sworn to before me this _____ day of _____ (month) _____(yr)

My Commission expires:

_____

_____ (signature)
Notary Public

_____
(County State)

Schlumberger Survey Report

Monday June 20 2011 11:11 PM Report by MaxWell

----------General Information ----------

Client : OGX Resources Well name : Copperhead 31 Fed Com 1H-ST01
Field : Bone Spring Magnetic Model : BGGM2010
County: Eddy Rig: Silver Oak 11
API# 30-015-38532-01

Spud date..... .....: 02-May-11
Last survey date.....: 20-Jun-11
Total accepted surveys...: 97
MD of first survey..... .: 5631.00 f
MD of last survey .. ....: 11472.00

----------Survey Calculation Methods----------

Method for positions : Minimum Curvature Method

Latitude: 32° 0' 5" N
Longitude: 104° 00' 59" W

----------Job Location & Elevation----------

Latitude : 32.0013 degrees Longitude : -104.0164degrees
Permanent Datum : MSL Log Measured From : DF
Elevation of LMF from MSL : 2914.00 ft Elevation of TIP from MSL: 2914 00 ft
Depth Source :

----------Vertical Section Origin----------

Latitude (+N/S-) : 0.00 ft Departure (+E/W-) : 0.00 ft
Target Azimuth : 1.6900 degrees

----------MWD Survey Reference Criteria----------

-----Run1----- Calculation Date. 29-May-2011
Location G : 998 81 mgn Tolerance G : 2.50 mgn
Location B : 48416.29 nT Tolerance B : 300.00 nT
Magnetic Dip : 59.90 degress Tolerance Dip : 0.45 degress

-----Run11----- Calculation Date: 06-Jun-2011
Location G (Override): 998.81 mgn Tolerance G : 2.50 mgn
Location B (Override): 48465.00 nT Tolerance B : 300.00 nT
Magnetic Dip : 59.90 degress Tolerance Dip : 0.45 degress

-----Run12----- Calculation Date: 08-Jun-2011
Location G : 998 81 mgn Tolerance G : 2.50 mgn
Location B (Override): 48465.00 nT Tolerance B : 300.00 nT
Magnetic Dip : 59 90 degress Tolerance Dip : 0.45 degress

-----Run13----- Calculation Date: 09-Jun-2011
Location G : 998.81 mgn Tolerance G : 2.50 mgn
Location B (Override): 48465.00 nT Tolerance B : 300.00 nT
Magnetic Dip : 59.90 degress Tolerance Dip : 0.45 degress

-----Run14----- Calculation Date: 12-Jun-2011
Location G (Override): 998.80 mgn Tolerance G : 2.50 mgn
Location B (Override): 48465.00 nT Tolerance B : 300.00 nT
Magnetic Dip : 59 90 degress Tolerance Dip : 0.45 degress

-----Run15----- Calculation Date: 16-Jun-2011
Location G (Override): 998.80 mgn Tolerance G : 2.50 mgn
Location B (Override): 48465.00 nT Tolerance B : 300.00 nT
Magnetic Dip : 59.90 degress Tolerance Dip : 0.45 degress

----------MWD Survey Azimuth Correction----------

-----Run1-----
Magnetic dec (+E/W-) : 7.8231 degrees
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6551 degrees

-----Run11-----
Magnetic dec (+E/W-) : 7.8242 degrees
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6562 degrees

-----Run12-----
Magnetic dec (+E/W-) : 7.8242 degrees(Override)
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6562 degrees

-----Run13-----
Magnetic dec (+E/W-) : 7.8231 degrees
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6551 degrees

-----Run14-----
Magnetic dec (+E/W-) : 7.8220 degrees
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6540 degrees

-----Run15-----
Magnetic dec (+E/W-) : 7.8220 degrees(Override)
Grid convergence (+E/W-) : 0.1680 degrees
GTotal az corr (+E/W-) : 7.6540 degrees

----------Survey Correction Index Description----------
0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

Seq # -	Measured depth (ft)	Incl angle (deg)	Azimuth angle (deg)	Course length (ft)	TVD depth (ft)	Vertical section (ft)	Displ +N/S- (ft)	Displ +E/W- (ft)	Total displ (ft)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
1	0	0	0	0	0	0	0	0	0.00	90	0	TIP	None
2	100	0.23	286.74	100	100	0.05	0.06	-0.19	0.20	286.74	0.23	GyroTool	None
3	200	0.46	223.49	100	200	-0.2	-0.18	-0.66	0.68	255.12	0.41	GyroTool	None
4	300	0.27	177.01	100	300	-0.73	-0.7	-0.92	1.16	232.79	0.34	GyroTool	None
5	400	0.34	93.22	100	400	-0.97	-0.95	-0.62	1.13	212.85	0.41	GyroTool	None
6	500	0.79	137.9	100	499.99	-1.48	-1.48	0.14	1.49	174.52	0.6	GyroTool	None
7	600	1.11	151.51	100	599.98	-2.81	-2.85	1.07	3.04	159.45	0.39	GyroTool	None
8	700	1.4	167.43	100	699.95	-4.83	-4.89	1.79	5 21	159.84	0.45	GyroTool	None
9	800	1.44	171.13	100	799.92	-7.25	-7.32	2.25	7.66	162.89	0.1	GyroTool	None
10	900	1.51	162.64	100	899.89	-9.73	-9.82	2.84	10.22	163.87	0.23	GyroTool	None
11	1000	1.47	152.88	100	999.86	-12.1	-12.22	3.82	12.80	162.65	0.26	GyroTool	None
12	1100	1.45	140.84	100	1099.82	-14.18	-14.34	5 2	15.25	160.06	0.31	GyroTool	None
13	1200	1.35	113.2	100	1199 79	-15.57	-15.79	7.08	17.30	155.83	0.68	GyroTool	None
14	1300	1.2	78.63	100	1299 77	-15.77	-16.05	9.19	18.49	150.19	0.77	GyroTool	None
15	1400	1.6	55.73	100	1399 74	-14.71	-15.05	11.37	18.86	142 93	0.68	GyroTool	None
16	1500	1.43	73.77	100	1499.71	-13.51	-13.92	13.73	19.55	135.4	0 5	GyroTool	None
17	1600	1.07	78.19	100	1599.68	-12.91	-13.38	15.84	20.73	130.19	0.37	GyroTool	None
18	1700	0.32	34.75	100	1699.68	-12.45	-12.96	16.91	21.31	127.46	0.87	GyroTool	None
19	1800	0.65	11.3	100	1799.67	-11.66	-12.17	17.18	21.05	125.32	0 38	GyroTool	None
20	1900	0.91	354.81	100	1899.66	-10.31	-10.83	17.22	20.34	122.16	0.34	GyroTool	None
21	2000	1.79	48.08	100	1999.64	-8 45	-8.99	18.31	20.40	116.15	1.44	GyroTool	None
22	2100	1.86	62.9	100	2099.59	-6.59	-7.21	20.92	22.13	109.01	0.48	GyroTool	None
23	2200	1.83	60.99	100	2199.54	-4.99	-5.69	23.76	24.43	103.48	0.07	GyroTool	None
24	2300	2.61	75.51	100	2299.46	-3.54	-4.35	27.36	27.70	99.04	0.96	GyroTool	None
25	2400	2.68	79.93	100	2399.35	-2.43	-3.37	31.87	32 05	96 04	0.22	GyroTool	None
26	2500	1.86	76.85	100	2499.28	-1.54	-2.59	35.75	35.84	94.15	0.83	GyroTool	None
27	2600	0.98	64.49	100	2599.24	-0.73	-1 86	38.1	38.15	92.79	0.93	GyroTool	None
28	2700	0.73	54.93	100	2699.23	0.04	-1.12	39.39	39.41	91.63	0.29	GyroTool	None
29	2800	0.64	42.8	100	2799.23	0.84	-0.35	40.29	40.29	90.49	0.17	GyroTool	None
30	2900	0.62	38.04	100	2899.22	1.7	0.49	41.01	41.01	89.32	0.06	GyroTool	None
31	3000	0.46	20.98	100	2999.21	2.51	1.29	41.48	41.50	88.22	0 23	GyroTool	None
32	3100	0.44	18.21	100	3099.21	3.26	2.03	41.75	41.80	87.22	0.03	GyroTool	None
33	3200	0.42	358.43	100	3199.21	3.99	2.76	41.86	41.95	86.23	0.15	GyroTool	None
34	3300	0.36	344.89	100	3299.21	4.66	3.43	41.77	41.91	85.3	0.11	GyroTool	None
35	3400	0.38	351.12	100	3399.2	5.29	4.06	41.63	41.83	84.43	0.04	GyroTool	None

36	3500	0.3	329.68	100	3499.2	5.84	4.62	41.45	41.71	83.65	0.15	GyroTool	None
37	3600	0.36	323.46	100	3599.2	6.3	5.09	41.13	41.44	82.94	0.07	GyroTool	None
38	3700	0.48	310.66	100	3699.2	6.81	5.62	40.63	41 02	82.13	0.15	GyroTool	None
39	3800	0.52	306 47	100	3799.19	7.34	6.16	39.94	40.41	81.23	0.05	GyroTool	None
40	3900	0.47	310.28	100	3899.19	7.85	6.7	39.27	39.84	80.32	0.06	GyroTool	None
41	4000	0.49	292.08	100	3999.19	8.26	7.12	38.56	39.21	79.53	0.15	GyroTool	None
42	4100	0.45	262.68	100	4099.18	8.34	7.23	37.77	38.46	79.16	0.24	GyroTool	None
43	4200	0.55	242.17	100	4199.18	8.05	6.96	36.96	37.61	79.34	0.2	GyroTool	None
44	4300	0.5	238.21	100	4299.18	7.57	6.5	36.16	36.74	79.8	0.06	GyroTool	None
45	4400	0.68	238.75	100	4399.17	7.01	5.97	35.28	35.78	80.4	0.18	GyroTool	None
46	4500	0.59	253.93	100	4499.16	6.53	5.52	34.28	34 72	80.86	0.19	GyroTool	None
47	4600	0.51	257.06	100	4599.16	6.26	5.27	33.35	33.76	81.01	0.09	GyroTool	None
48	4700	0.43	302.68	100	4699.16	6.34	5.38	32 6	33.04	80 63	0 37	GyroTool	None
49	4800	0 26	225.75	100	4799.16	6.37	5.42	32.12	32.57	80.42	0.45	GyroTool	None
50	4900	0.36	191.1	100	4899.15	5.89	4.96	31.9	32.28	81.17	0.21	GyroTool	None
51	5000	0.41	189.46	100	4999.15	5.23	4.29	31.78	32.07	82.31	0.05	GyroTool	None
52	5100	0.58	181.27	100	5099.15	4.37	3.44	31.71	31.90	83.82	0.18	GyroTool	None
53	5200	0.62	179.39	100	5199.14	3.32	2.39	31.71	31.80	85.69	0.04	GyroTool	None
54	5300	0.55	194.07	100	5299.14	2.31	1.38	31.6	31.63	87.5	0.16	GyroTool	None
55	5400	0.52	180.82	100	5399.13	1.39	0.46	31.47	31.47	89.16	0.13	GyroTool	None
56	5500	0.75	192.8	100	5499.13	0.29	-0.63	31.32	31.33	91.15	0.26	GyroTool	None
57	5600	0.74	187.16	100	5599.12	-0.99	-1.91	31.1	31.16	93.51	0.07	GyroTool	None
58	5631	0.86	186.66	31	5630.12	-1.42	-2.34	31.04	31.13	94.31	0.39	SlimPulse	None
59	5726	0.99	175.56	95	5725.1	-2.95	-3.86	31.02	31.26	97.1	0.23	SlimPulse	None
60	5821	0.97	177.19	95	5820.09	-4.57	-5.49	31.13	31.61	100	0.04	SlimPulse	None
61	5972	3.63	106.44	151	5970.97	-7.06	-8.12	35.78	36.69	102.78	2.27	SlimPulse	None
62	5990	2.41	89.86	18	5988.95	-7.19	-8.28	36.7	37.62	102.71	8.27	SlimPulse	None
63	6021	0.62	331.02	31	6019.94	-7.03	-8.13	37.27	38.15	102.3	8.91	SlimPulse	None
64	6052	2.43	310.92	31	6050.93	-6.47	-7.55	36.69	37.46	101.63	6	SlimPulse	None
65	6083	3.75	324.86	31	6081.88	-5.24	-6.29	35.61	36.16	100.02	4.85	SlimPulse	None
66	6115	4.7	327.1	32	6113.79	-3.32	-4.34	34.3	34.57	97.21	3.04	SlimPulse	None
67	6146	4.89	326.84	31	6144.69	-1.19	-2.16	32.89	32.96	93.76	0.62	SlimPulse	None
68	6177	5.63	330.22	31	6175.55	1.19	0.26	31.41	31.41	89.52	2.57	SlimPulse	None
69	6208	7 12	335 46	31	6206.36	4.21	3 33	29.85	30 04	83.63	5.18	SlimPulse	None
70	6213	7.26	337.67	5	6211.32	4.78	3.91	29.61	29.87	82.48	6.12	SlimPulse	None
71	6244	7.77	340.23	31	6242.06	8.52	7.69	28.15	29.18	74.72	1.98	SlimPulse	None
72	6276	9.29	336.85	32	6273.7	12.88	12.1	26.41	29.05	65.38	5	SlimPulse	None
73	6307	13.87	338.05	31	6304.06	18.55	17.85	24.03	29.93	53.39	14.78	SlimPulse	None
74	6338	18.96	343.16	31	6333.79	26.74	26.12	21.18	33.63	39.03	17.06	SlimPulse	None
75	6369	23.61	346.06	31	6362.67	37.5	36.98	18.22	41.22	26.24	15.37	SlimPulse	None
76	6400	27.85	350.33	31	6390 59	50.58	50.15	15.51	52.49	17.19	14.91	SlimPulse	None
77	6432	32.11	354.74	32	6418.31	66.36	65.99	13.47	67.35	11.54	15	SlimPulse	None
78	6463	36.64	358.54	31	6443.89	83.79	83.46	12.48	84.39	8.51	16.16	SlimPulse	None
79	6494	41.05	359.92	31	6468.03	103.21	102.89	12.23	103 61	6.78	14.48	SlimPulse	None
80	6531	46 2	0.39	37	6494.8	128.72	128.41	12.3	129.00	5.47	13.94	SlimPulse	None
81	6562	48.75	0.13	31	6515.75	151.56	151.26	12.41	151.77	4.69	8.28	SlimPulse	None
82	6593	49.5	0.16	31	6536.04	174.99	174.7	12.46	175.14	4.08	2.42	SlimPulse	None
83	6625	50.87	0.21	32	6556.53	199.56	199.28	12.54	199.67	3.6	4.26	SlimPulse	None
84	6656	52.18	0.27	31	6575.81	223.82	223.55	12.65	223.91	3.24	4.25	SlimPulse	None
85	6687	53.76	0.27	31	6594.48	248.56	248.29	12.76	248.62	2.94	5.1	SlimPulse	None
86	6718	55 4	359.98	31	6612.45	273 82	273.56	12.82	273.86	2.68	5.32	SlimPulse	None
87	6749	56.88	359.14	31	6629.72	299.54	299.3	12.61	299.57	2.41	5.28	SlimPulse	None
88	6780	58 14	358.74	31	6646.37	325.66	325.44	12.13	325.67	2.13	4 2	SlimPulse	None
89	6811	60.57	358.55	31	6662.17	352.29	352.1	11.5	352.29	1.87	7.87	SlimPulse	None
90	6842	62.62	358.81	31	6676.92	379.52	379.36	10.87	379.52	1.64	6.65	SlimPulse	None
91	6873	63.88	357.95	31	6690.87	407.15	407.03	10 09	407 16	1.42	4.77	SlimPulse	None
92	6905	67.12	356.58	32	6704.14	436.18	436.11	8.7	436.20	1.14	10.84	SlimPulse	None
93	6936	70.8	355.8	31	6715.26	464.97	464.98	6.77	465.03	0 83	12.1	SlimPulse	None
94	6968	74.47	356.42	32	6724.81	495.37	495.44	4.7	495.46	0.54	11.62	SlimPulse	None
95	6999	77.31	356.82	31	6732.37	525.31	525.45	2.93	525 46	0.32	9.23	SlimPulse	None
96	7030	79	357.1	31	6738.73	555.54	555.75	1.32	555.75	0.14	5.53	SlimPulse	None
97	7061	82	357.33	31	6743.85	586.02	586.28	-0.16	586.28	359.98	9.71	SlimPulse	None
98	7092	85.32	358.39	31	6747.27	616.76	617.07	-1.31	617.07	359.88	11.23	SlimPulse	None
99	7123	88.31	359.56	31	6748 99	647.67	648.01	-1.86	648.01	359.84	10.37	SlimPulse	None
100	7155	89.21	0.16	32	6749.68	679.65	680	-1.94	680.00	359 84	3.36	SlimPulse	None
101	7186	89.76	0.35	31	6749.96	710.64	711	-1.8	711.00	359 86	1.88	SlimPulse	None
102	7231	91.24	1.19	45	6749 57	755.63	755.99	-1.19	755.99	359.91	3.77	SlimPulse	None
103	7262	91.31	1.02	31	6748.88	786.62	786.98	-0.6	786.98	359.96	0.59	SlimPulse	None
104	7293	90.96	0.54	31	6748.27	817.61	817 97	-0.18	817.97	359.99	1.9	SlimPulse	None
105	7325	90.86	0.57	32	6747.76	849.6	849.96	0.13	849.96	0.01	0.33	SlimPulse	None
106	7356	90.41	1.65	31	6747.41	880.6	880.96	0.74	880.96	0.05	3.79	SlimPulse	None
107	7387	90.17	1.74	31	6747.26	911.59	911.94	1.65	911 94	0.1	0.83	SlimPulse	None
108	7418	88.59	2.45	31	6747.59	942.59	942.92	2.79	942 92	0.17	5.59	SlimPulse	None
109	7449	88 52	2.48	31	6748.37	973.58	973.88	4.12	973.89	0.24	0.24	SlimPulse	None

110	7480	88.49	2.17	31	6749.18	1004.57	1004.84	5.38	1004.85	0.31	1.01	SlimPulse	None
111	7511	87.87	2.34	31	6750.17	1035.55	1035.8	6.59	1035.82	0.36	2.07	SlimPulse	None
112	7542	87.45	1.65	31	6751.43	1066.52	1066.76	7.67	1066.79	0.41	2.59	SlimPulse	None
113	7573	87.32	1.44	31	6752.85	1097.49	1097.72	8.5	1097.75	0.44	0 81	SlimPulse	None
114	7604	87.32	1.37	31	6754.3	1128.46	1128.67	9.26	1128.71	0.47	0.23	SlimPulse	None
115	7698	88.21	1.41	94	6757.97	1222.38	1222.57	11.54	1222 62	0.54	0.95	SlimPulse	None
116	7791	89.31	0.91	93	6759.97	1315.35	1315.53	13.42	1315.60	0.58	1.3	SlimPulse	None
117	7979	90.58	0.53	188	6760.14	1503.32	1503.51	15.78	1503.59	0.63	0.71	SlimPulse	None
118	8072	89.55	359.13	93	6760.03	1596.27	1596.51	15.5	1596.59	0.66	1.88	SlimPulse	None
119	8166	90.55	359.6	94	6759.95	1690.19	1690.5	14.46	1690.56	0.61	1.17	SlimPulse	None
120	8259	90.28	359.42	93	6759.28	1783.12	1783.49	13.66	1783.54	0.54	0.35	SlimPulse	None
121	8353	89.62	0.84	94	6759.36	1877.08	1877.49	13.88	1877.54	0.49	1.66	SlimPulse	None
122	8447	90 17	1.8	94	6759.53	1971.08	1971.46	16.04	1971.53	0.47	1.18	SlimPulse	None
123	8541	89.76	1.38	94	6759.59	2065.08	2065.43	18.65	2065.51	0 51	0 63	SlimPulse	None
124	8634	88.62	2.48	93	6760.9	2158.07	2158.36	21.77	2158.47	0.56	1.7	SlimPulse	None
125	8728	88.73	2.69	94	6763.07	2252.03	2252.24	26.01	2252.39	0.62	0.26	SlimPulse	None
126	8821	88.35	2.19	93	6765.44	2344.99	2345.13	29.97	2345.32	0.7	0.68	SlimPulse	None
127	8915	88.76	2.64	94	6767.81	2438.95	2439.01	33.93	2439 25	0.77	0.65	SlimPulse	None
128	9009	88.52	2.24	94	6770.04	2532.92	2532.9	37.94	2533.18	0.83	0.5	SlimPulse	None
129	9103	88.49	1.69	94	6772.5	2626.88	2626.81	41.16	2627.13	0.89	0.59	SlimPulse	None
130	9197	88.87	2.52	94	6774 67	2720.86	2720.72	44.62	2721.09	0.93	0.97	SlimPulse	None
131	9290	89.52	2.28	93	6775.98	2813.84	2813.63	48.52	2814.05	0.97	0.75	SlimPulse	None
132	9384	91.07	4.2	94	6775.5	2907.8	2907.47	53.83	2907 97	1.02	2.63	SlimPulse	None
133	9476	90.96	2.41	92	6773.87	2999.74	2999.3	59.14	2999.88	1.09	1.95	SlimPulse	None
134	9569	90.86	2.98	93	6772 39	3092.71	3092.19	63.52	3092.84	1.16	0.62	SlimPulse	None
135	9662	88.8	1.47	93	6772.67	3185 7	3185.11	67.13	3185.82	1.21	2.75	SlimPulse	None
136	9756	88.73	0.32	94	6774.7	3279.67	3279.07	68.59	3279.79	1.24	1.23	SlimPulse	None
137	9850	89.66	2 2	94	6776 03	3373.65	3373.04	70.65	3373.78	1.23	2.23	SlimPulse	None
138	9943	89.9	1.65	93	6776.39	3466.65	3465.98	73.77	3466.76	1.23	0.65	SlimPulse	None
139	10037	90.41	3.22	94	6776.14	3560.64	3559.89	77.76	3560.74	1.24	1.76	SlimPulse	None
140	10131	90.48	3.16	94	6775.4	3654.6	3653.75	82.99	3654.69	1.28	0.1	SlimPulse	None
141	10224	90.72	4.61	93	6774.43	3747.53	3746.52	89.29	3747.58	1.33	1.58	SlimPulse	None
142	10317	88.45	2.54	93	6775.1	3840.46	3839.33	95.08	3840.51	1.39	3.31	SlimPulse	None
143	10411	88.8	1.74	94	6777.35	3934.43	3933.24	98.59	3934.48	1.44	0.92	SlimPulse	None
144	10504	86.6	0.4	93	6781.09	4027.35	4026.14	100.32	4027.39	1.46	2.77	SlimPulse	None
145	10597	88.8	0.09	93	6784.83	4120.23	4119.06	100.72	4120.29	1.45	2.39	SlimPulse	None
146	10692	90.21	0.94	95	6785.66	4215.21	4214.05	101.57	4215.27	1.42	1.74	SlimPulse	None
147	10785	90 58	2.31	93	6785.02	4308.2	4307	104.22	4308.26	1.4	1.53	SlimPulse	None
148	10879	90.07	1 87	94	6784.48	4402.2	4400.94	107.64	4402.26	1.41	0 72	SlimPulse	None
149	10973	89.86	2.65	94	6784.54	4496.19	4494.86	111.35	4496 24	1.42	0.86	SlimPulse	None
150	11067	89	0.5	94	6785.47	4590.18	4588.82	113.94	4590.23	1.44	2.46	SlimPulse	None
151	11160	90.24	2.23	93	6786.08	4683.17	4681.78	116.16	4683.22	1.44	2.29	SlimPulse	None
152	11254	90.48	1.75	94	6785.49	4777.17	4775.72	119.43	4777.21	1.44	0.57	SlimPulse	None
153	11347	91.58	2.86	93	6783.82	4870.15	4868.63	123.17	4870.19	1.45	1.68	SlimPulse	None
154	11440	91.24	2.33	93	6781.53	4963.11	4961 51	127.38	4963.14	1.47	0.67	SlimPulse	None
155	11472	90.65	1.57	32	6781	4995.1	4993.48	128 47	4995.13	1.49	3	SlimPulse	None
156	11522	90.65	1.57	50	6780.43	5045.1	5043.46	129.84	5045.13	1.49	0.01	Proj	None