

Oilfield Services, Central U.S. Land

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127USA
Phone: (405) 789-1515
Fax: (405) 789-1519



November 10, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND ,TX 79701

Re:

CLIENT: Cimarex Energy Co.
WELL: Sandy Federal #22H
FIELD: NM Eddy County
RIG: Cactus 137
COUNTY: Eddy
API NO: 30-015-41792
JOB NO: 14MLD0542

S23-T23S-R30E 195 FSL 250 FEL
N 32.28376 W 103.84378

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation .
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>
Rasheed Atanda FE	Sandy Federal #22H Original Hole	10536.00 Ft to 17943.00 Ft	June 22, 2014 to July 1, 2014	SlimPulse

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

Sincerely,

Joseph Hogan
Field Service Manager

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

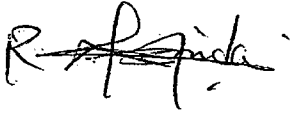
PATHFINDER
A Schlumberger Company

Well Reference:

S23-T23S-R30E 195 FSL 250 FEL
N 32.28376 W 103.84378

I, Rasheed Atanda certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 22, 2014 through July 01, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 10536.00 feet to a depth of 17943.00 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 Cimarex Energy Co. for the Sandy Federal #22H Well (Original Hole) API No. 30-015-41792 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
Rasheed Atanda
FE



Subscribed and Sworn to before me this 7 day of November (month) 2014 (yr)

My Commission expires:

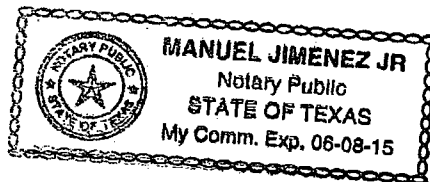
6/8/15

Notary Public

Wichita, KS

(County State)

(signature)



24	2134.00	0.09	91.83	95.00	2133.99	-0.61	-2.77	1.71	3.26	148.37	0.03	Other	0
25	2229.00	0.06	116.60	95.00	2228.99	-0.54	-2.80	1.83	3.34	146.85	0.05	Other	0
26	2324.00	0.11	101.60	95.00	2323.99	-0.47	-2.84	1.96	3.45	145.36	0.06	Other	0
27	2419.00	0.09	117.96	95.00	2418.99	-0.39	-2.89	2.12	3.59	143.80	0.04	Other	0
28	2514.00	0.09	118.51	95.00	2513.99	-0.34	-2.96	2.25	3.72	142.81	0.00	Other	0
29	2609.00	0.09	113.40	95.00	2608.99	-0.29	-3.03	2.38	3.85	141.81	0.01	Other	0
30	2704.00	0.09	116.36	95.00	2703.99	-0.23	-3.09	2.52	3.99	140.84	0.00	Other	0
31	2799.00	0.10	97.06	95.00	2798.99	-0.15	-3.14	2.67	4.12	139.61	0.04	Other	0
32	2894.00	0.11	93.49	95.00	2893.99	-0.03	-3.15	2.84	4.24	137.96	0.01	Other	0
33	2989.00	0.16	87.18	95.00	2988.99	0.13	-3.15	3.06	4.39	135.79	0.05	Other	0
34	3084.00	0.13	88.92	95.00	3083.99	0.32	-3.14	3.30	4.56	133.55	0.03	Other	0
35	3179.00	0.11	85.83	95.00	3178.99	0.47	-3.13	3.50	4.7	131.81	0.02	Other	0
36	3274.00	0.11	89.77	95.00	3273.99	0.61	-3.13	3.69	4.83	130.30	0.01	Other	0
37	3369.00	0.11	88.62	95.00	3368.99	0.74	-3.12	3.87	4.97	128.92	0.00	Other	0
38	3464.00	0.13	87.20	95.00	3463.99	0.89	-3.12	4.07	5.12	127.46	0.02	Other	0
39	3559.00	0.13	95.15	95.00	3558.99	1.05	-3.12	4.28	5.3	126.08	0.02	Other	0
40	3654.00	0.11	98.34	95.00	3653.99	1.18	-3.14	4.48	5.47	125.06	0.02	Other	0
41	3749.00	0.13	103.78	95.00	3748.99	1.30	-3.18	4.67	5.65	124.25	0.02	Other	0
42	3873.00	0.22	218.16	124.00	3872.99	1.14	-3.40	4.66	5.77	126.12	0.24	Other	0
43	3971.00	0.22	241.93	98.00	3970.99	0.77	-3.64	4.38	5.7	129.71	0.09	Other	0
44	4063.00	0.22	206.47	92.00	4062.99	0.44	-3.88	4.15	5.68	133.10	0.15	Other	0
45	4159.00	0.40	205.24	96.00	4158.99	-0.04	-4.35	3.92	5.86	137.95	0.19	Other	0
46	4257.00	0.48	143.23	98.00	4256.98	-0.40	-4.99	4.02	6.41	141.12	0.47	Other	0
47	4349.00	0.62	156.46	92.00	4348.98	-0.60	-5.75	4.45	7.27	142.27	0.20	Other	0
48	4446.00	0.48	124.33	97.00	4445.98	-0.68	-6.46	5.00	8.17	142.29	0.34	Other	0
49	4543.00	0.70	101.44	97.00	4542.97	-0.24	-6.81	5.91	9.02	139.03	0.33	Other	0
50	4639.00	0.70	102.76	96.00	4638.96	0.44	-7.05	7.06	9.98	134.98	0.02	Other	0
51	4729.00	0.62	95.24	90.00	4728.96	1.08	-7.22	8.08	10.84	131.78	0.13	Other	0
52	4824.00	0.40	102.36	95.00	4823.95	1.62	-7.34	8.92	11.55	129.46	0.24	Other	0
53	4948.00	0.48	122.05	124.00	4947.95	2.01	-7.71	9.78	12.45	128.24	0.14	Other	0
54	5012.00	0.62	94.05	64.00	5011.95	2.32	-7.87	10.35	13.01	127.26	0.47	Other	0
55	5108.00	0.48	111.24	96.00	5107.94	2.85	-8.06	11.24	13.83	125.62	0.22	Other	0
56	5204.00	0.40	102.93	96.00	5203.94	3.22	-8.28	11.95	14.53	124.71	0.11	Other	0
57	5299.00	0.40	82.45	95.00	5298.94	3.68	-8.31	12.60	15.09	123.40	0.15	Other	0
58	5396.00	0.40	92.87	97.00	5395.94	4.20	-8.28	13.27	15.64	121.96	0.07	Other	0
59	5494.00	0.09	81.53	98.00	5493.94	4.50	-8.29	13.69	16	121.18	0.32	Other	0
60	5590.00	0.22	72.35	96.00	5589.93	4.73	-8.22	13.94	16.18	120.52	0.14	Other	0
61	5688.00	0.31	99.24	98.00	5687.93	5.07	-8.20	14.38	16.56	119.70	0.15	Other	0
62	5774.00	0.31	94.36	86.00	5773.93	5.37	-8.26	14.84	16.99	119.09	0.03	Other	0
63	5868.00	0.62	95.55	94.00	5867.93	5.88	-8.33	15.60	17.69	118.09	0.33	Other	0
64	5964.00	0.70	120.07	96.00	5963.92	6.41	-8.67	16.63	18.75	117.54	0.30	Other	0
65	6056.00	0.88	93.35	92.00	6055.91	7.07	-8.99	17.82	19.96	116.78	0.44	Other	0
66	6152.00	0.70	106.67	96.00	6151.91	7.88	-9.21	19.12	21.22	115.71	0.27	Other	0
67	6250.00	0.88	95.46	98.00	6249.90	8.69	-9.45	20.44	22.52	114.81	0.24	Other	0
68	6346.00	0.70	101.83	96.00	6345.89	9.53	-9.64	21.75	23.79	113.91	0.21	Other	0
69	6437.00	0.70	128.16	91.00	6436.88	9.94	-10.10	22.73	24.87	113.95	0.35	Other	0
70	6535.00	0.70	141.25	98.00	6534.87	10.00	-10.93	23.57	25.98	114.88	0.16	Other	0
71	6631.00	1.89	233.76	96.00	6630.85	8.39	-12.33	22.66	25.8	118.54	2.13	Other	0
72	6727.00	2.02	240.13	96.00	6726.80	5.16	-14.11	19.92	24.41	125.30	0.26	Other	0
73	6825.00	2.02	235.16	98.00	6824.74	1.77	-15.95	17.00	23.32	133.17	0.18	Other	0
74	6915.00	3.60	241.45	90.00	6914.63	-2.55	-18.21	13.22	22.5	144.02	1.79	Other	0
75	7013.00	3.78	236.26	98.00	7012.42	-8.73	-21.47	7.83	22.86	159.96	0.39	Other	0
76	7102.00	3.78	235.73	89.00	7101.23	-14.53	-24.75	2.97	24.93	173.17	0.04	Other	0
77	7200.00	3.21	238.55	98.00	7199.05	-20.42	-28.01	-2.04	28.08	184.17	0.61	Other	0
78	7296.00	3.30	235.87	96.00	7294.89	-25.79	-30.96	-6.62	31.66	192.08	0.18	Other	0
79	7392.00	2.42	251.73	96.00	7390.77	-30.37	-33.14	-10.84	34.87	198.10	1.22	Other	0
80	7480.00	1.32	272.74	88.00	7478.73	-32.78	-33.68	-13.61	36.32	202.01	1.45	Other	0
81	7576.00	1.19	269.74	96.00	7574.70	-34.30	-33.63	-15.71	37.12	205.04	0.15	Other	0
82	7670.00	1.10	265.05	94.00	7668.68	-35.74	-33.71	-17.59	38.02	207.55	0.14	Other	0
83	7767.00	1.41	258.63	97.00	7765.66	-37.50	-34.03	-19.69	39.31	210.05	0.35	Other	0
84	7864.00	1.41	248.45	97.00	7862.63	-39.64	-34.70	-21.97	41.07	212.33	0.26	Other	0
85	7961.00	2.02	265.97	97.00	7959.59	-42.09	-35.26	-24.78	43.1	215.10	0.82	Other	0
86	8053.00	2.50	273.97	92.00	8051.52	-44.74	-35.23	-28.40	45.26	218.87	0.62	Other	0
87	8146.00	1.58	257.53	93.00	8144.46	-47.25	-35.37	-31.68	47.48	221.85	1.16	Other	0
88	8241.00	1.32	239.25	95.00	8239.43	-49.45	-36.21	-33.90	49.6	223.11	0.56	Other	0
89	8335.00	1.49	243.03	94.00	8333.40	-51.69	-37.32	-35.92	51.8	223.90	0.21	Other	0
90	8430.00	1.41	211.34	95.00	8428.37	-54.00	-38.88	-37.62	54.1	224.06	0.84	Other	0
91	8527.00	1.41	216.84	97.00	8525.34	-56.32	-40.85	-38.96	56.45	223.64	0.14	Other	0
92	8622.00	1.19	193.46	95.00	8620.32	-58.29	-42.75	-39.89	58.47	223.02	0.60	Other	0
93	8716.00	1.71	172.54	94.00	8714.29	-59.90	-45.09	-39.94	60.23	221.53	0.78	Other	0
94	8809.00	1.19	167.14	93.00	8807.26	-61.18	-47.41	-39.54	61.73	219.83	0.58	Other	0
95	8905.00	1.01	160.94	96.00	8903.24	-62.01	-49.18	-39.04	62.79	218.45	0.22	Other	0
96	9000.00	0.09	176.85	95.00	8998.23	-62.39	-50.04	-38.76	63.3	217.76	0.97	Other	0
97	9093.00	0.40	156.15	93.00	9091.23	-62.54	-50.41	-38.63	63.51	217.46	0.34	Other	0
98	9189.00	0.22	294.93	96.00	9187.23	-62.71	-50.64	-38.66	63.71	217.36	0.61	Other	0
99	9285.00	0.70	300.86	96.00	9283.23	-62.95	-50.26	-39.33	63.82	218.04	0.50	Other	0
100	9383.00	1.01	344.23	98.00	9381.22	-62.74	-49.13	-40.08	63.4	219.21	0.71	Other	0
101	9480.00	1.49	350.04	97.00	9478.20	-61.67	-47.06	-40.53	62.11	220.74	0.51	Other	0
102	9568.00	0.62	34.64	88.00	9566.18	-60.59	-45.54	-40.46	60.92	221.62	1.29	Other	0
103	9665.00	0.70	292.34	97.00	9663.18	-60.34	-44.89	-40.71	60.6	222.21	1.06	Other	0
104	9760.00	0.88	267.07	95.00	9758.17	-61.14	-44.70	-41.97	61.32	223.20	0.41	Other	0
105	9858.00	2.02	281.26	98.00	9856.14	-62.75	-44.40	-44.42	62.81	225.01	1.21	Other	0
106	9952.00	1.10	291.15	94.00	9950.10	-64.13	-43.75	-46.89	64.13	226.98	1.02	Other	0
107	10046.00	0.88	353.64	94.00	10044.09	-64.10	-42.71	-47.81	64.11	228.22	1.11	Other	0
108	10143.00	0.88	347.05	97.00	10141.08	-63.30	-41.24	-48.06	63.33	229.36	0.10	Other	0
109	10238.00	2.11	342.35	95.00	10236.04	-62.20	-38.87	-48.75	62.35	231.44	1.30	Other	0
110	10336.00	2.68	356.06	98.00	10333.96	-60.02	-34.86	-49.45	60.51	234.82	0.82	Other	0
111	10427.00	2.02	3.13	91.00	10424.88	-57.54	-31.14	-49.51	58.49	237.83	0.79	Other	0
112	10536.00	1.45	356.11	109.00	10533.83	-55.31	-27.85	-49.50	56.8	240.64	0.56	SlimPulse	0
113	10567.00	4.96	27.08	31.00	10564.78	-53.81	-26.26	-48.92	55.52	241.77	12.24	SlimPulse	1
114	10599.00	8.92	36.94	32.00	10596.54	-50.08	-23.05	-46.80	5				

120	10788.00	27.19	45.87	32.00	10775.50	7.79	18.44	-6.33	19.5	341.06	8.16	SlimPulse	1
121	10820.00	29.72	46.05	32.00	10803.63	23.03	29.04	4.63	29.41	9.06	7.91	SlimPulse	1
122	10851.00	32.70	46.19	31.00	10830.14	39.09	40.18	16.21	43.32	21.97	9.62	SlimPulse	1
123	10883.00	35.56	46.27	32.00	10856.62	57.03	52.59	29.17	60.14	29.02	8.94	SlimPulse	1
124	10915.00	38.37	46.08	32.00	10882.19	76.27	65.92	52.92	78.73	33.15	8.79	SlimPulse	1
125	10947.00	41.64	45.93	32.00	10906.70	96.83	80.21	57.85	98.89	35.80	10.22	SlimPulse	1
126	10978.00	44.52	46.11	31.00	10929.34	117.99	94.91	73.08	119.79	37.60	9.30	SlimPulse	1
127	11010.00	46.64	46.81	32.00	10951.73	140.84	110.65	89.65	142.41	39.02	6.81	SlimPulse	1
128	11041.00	49.89	46.96	31.00	10972.37	163.97	126.46	106.54	165.35	40.11	10.49	SlimPulse	1
129	11073.00	54.39	47.73	32.00	10992.00	189.23	143.57	125.12	190.43	41.07	14.19	SlimPulse	1
130	11104.00	58.42	47.82	31.00	11009.15	215.05	160.92	144.23	216.1	41.87	13.00	SlimPulse	1
131	11136.00	61.75	48.00	32.00	11025.11	242.78	179.50	164.82	243.69	42.56	10.42	SlimPulse	1
132	11168.00	64.63	47.82	32.00	11039.54	271.34	198.65	186.01	272.14	43.12	9.01	SlimPulse	1
133	11200.00	66.84	48.06	32.00	11052.69	300.51	218.19	207.67	301.22	43.58	6.94	SlimPulse	1
134	11231.00	69.79	47.89	31.00	11064.14	329.31	237.47	229.06	329.94	43.97	9.53	SlimPulse	1
135	11263.00	73.02	47.97	32.00	11074.35	359.63	257.79	251.57	360.2	44.30	10.10	SlimPulse	1
136	11295.00	75.81	48.26	32.00	11082.94	390.45	278.37	274.52	390.96	44.60	8.76	SlimPulse	1
137	11327.00	78.11	48.40	32.00	11096.82	421.62	299.09	297.80	422.07	44.88	7.20	SlimPulse	1
138	11358.00	81.04	48.41	31.00	11095.77	452.10	319.33	320.60	452.5	45.11	9.45	SlimPulse	1
139	11391.00	85.69	48.08	33.00	11099.58	484.87	341.15	345.05	485.22	45.33	14.13	SlimPulse	1
140	11421.00	88.51	48.05	30.00	11101.10	514.83	361.17	367.34	515.15	45.48	9.40	SlimPulse	1
141	11453.00	88.92	48.08	32.00	11101.82	546.82	382.55	391.13	547.11	45.64	1.28	SlimPulse	1
142	11486.00	89.72	47.39	32.00	11102.92	639.81	445.09	459.95	640.05	45.94	1.14	SlimPulse	1
143	11641.00	89.72	47.56	95.00	11103.39	734.81	509.31	529.96	735.02	46.14	0.18	SlimPulse	1
144	11736.00	89.66	47.34	95.00	11103.90	829.81	573.55	599.95	830	46.29	0.24	SlimPulse	1
145	11830.00	89.59	47.34	94.00	11104.52	923.80	637.24	669.07	923.98	46.40	0.07	SlimPulse	1
146	11924.00	89.76	47.62	94.00	11105.05	1017.80	700.77	738.35	1017.96	46.50	0.35	SlimPulse	1
147	12019.00	89.76	47.94	95.00	11105.45	1112.80	764.61	808.71	1112.94	46.61	0.34	SlimPulse	1
148	12114.00	89.65	47.92	95.00	11106.67	1207.80	828.26	879.23	1207.92	46.71	0.22	SlimPulse	1
149	12208.00	89.56	48.52	94.00	11107.89	1301.79	890.89	949.32	1301.88	46.82	0.65	SlimPulse	1
150	12302.00	89.76	49.35	94.00	11107.14	1395.75	952.64	1020.19	1395.82	46.96	0.89	SlimPulse	1
151	12396.00	89.80	50.20	94.00	11107.50	1469.68	1013.34	1091.96	1469.68	47.14	0.91	SlimPulse	1
152	12490.00	89.76	50.71	94.00	11107.86	1583.56	1073.19	1164.45	1583.56	47.34	0.54	SlimPulse	1
153	12585.00	89.52	51.42	95.00	11108.30	1678.37	1132.89	1238.34	1678.37	47.55	0.75	SlimPulse	1
154	12679.00	89.55	52.00	94.00	11108.89	1772.12	1191.14	1312.12	1772.14	47.77	0.64	SlimPulse	1
155	12773.00	89.52	47.94	96.00	11113.59	2343.18	1555.61	1752.69	2343.47	48.41	0.72	SlimPulse	1
156	12869.00	89.66	51.79	96.00	11109.66	1865.94	1308.39	1461.62	1961.69	48.17	0.18	SlimPulse	1
157	12965.00	89.59	51.16	96.00	11110.94	2057.33	1368.18	1536.72	2057.53	48.32	0.66	SlimPulse	1
158	13060.00	89.52	48.99	95.00	11111.71	2152.23	1429.15	1609.57	2152.48	48.40	2.29	SlimPulse	1
159	13155.00	89.35	48.61	95.00	11112.65	2247.20	1491.72	1681.04	2247.47	48.41	0.44	SlimPulse	1
160	13251.00	89.52	47.94	96.00	11113.59	2343.18	1555.61	1752.69	2343.47	48.41	0.72	SlimPulse	1
161	13346.00	89.52	46.01	95.00	11114.22	2438.17	1620.42	1822.13	2438.43	48.35	2.04	SlimPulse	1
162	13441.00	89.83	43.96	95.00	11114.58	2533.07	1687.61	1889.29	2533.27	48.23	2.16	SlimPulse	1
163	13536.00	89.35	42.15	95.00	11115.26	2627.78	1757.02	1954.14	2627.89	48.04	1.97	SlimPulse	1
164	13630.00	89.38	40.31	94.00	11116.30	2721.20	1827.71	2016.09	2721.24	47.81	1.96	SlimPulse	1
165	13725.00	89.53	43.40	95.00	11116.73	2815.73	1898.46	2079.47	2815.73	47.61	3.34	SlimPulse	1
166	13821.00	89.30	46.71	96.00	11116.71	2911.62	1966.27	2147.40	2911.62	47.52	3.45	SlimPulse	1
167	13915.00	90.00	46.87	94.00	11116.77	3005.62	2030.63	2215.92	3005.62	47.50	0.19	SlimPulse	1
168	14010.00	90.04	46.49	95.00	11116.77	3100.61	2095.81	2285.03	3100.61	47.47	0.40	SlimPulse	1
169	14105.00	90.00	46.31	95.00	11116.73	3195.59	2161.32	2353.83	3195.59	47.44	0.19	SlimPulse	1
170	14200.00	89.76	45.66	95.00	11116.73	3290.55	2227.33	2422.15	3290.56	47.40	0.74	SlimPulse	1
171	14295.00	89.97	45.74	95.00	11117.12	3385.51	2293.68	2490.14	3385.51	47.35	0.24	SlimPulse	1
172	14390.00	89.59	48.41	95.00	11117.49	3480.49	2358.37	2559.69	3480.51	47.34	2.84	SlimPulse	1
173	14485.00	90.00	47.68	95.00	11117.83	3575.49	2421.88	2630.34	3575.5	47.36	0.88	SlimPulse	1
174	14580.00	89.90	47.20	95.00	11118.25	3670.49	2486.14	2700.32	3670.5	47.36	0.52	SlimPulse	1
175	14675.00	89.79	47.19	95.00	11118.37	3765.49	2550.69	2770.01	3765.5	47.36	0.12	SlimPulse	1
176	14770.00	89.97	47.42	95.00	11118.37	3860.48	2615.11	2839.84	3860.5	47.36	0.31	SlimPulse	1
177	14865.00	90.07	47.73	95.00	11118.33	3955.48	2679.20	2909.96	3955.5	47.36	0.34	SlimPulse	1
178	14959.00	90.00	47.55	94.00	11118.28	4049.48	2742.53	2979.42	4049.5	47.37	0.21	SlimPulse	1
179	15055.00	90.03	47.78	96.00	11118.25	4145.48	2807.18	3050.39	4145.5	47.38	0.24	SlimPulse	1
180	15148.00	90.00	47.89	94.00	11118.23	4238.48	2869.61	3119.32	4238.49	47.39	0.12	SlimPulse	1
181	15242.00	88.31	48.20	94.00	11119.61	4332.46	2932.45	3189.21	4332.47	47.40	1.83	SlimPulse	1
182	15337.00	88.34	48.08	95.00	11122.39	4427.42	2995.81	3259.94	4427.43	47.42	0.13	SlimPulse	1
183	15431.00	88.18	47.76	94.00	11125.24	4521.37	3058.78	3329.67	4521.38	47.43	0.38	SlimPulse	1
184	15527.00	87.83	47.82	96.00	11128.59	4617.31	3123.24	3400.74	4617.32	47.44	0.37	SlimPulse	1
185	15622.00	87.59	47.98	95.00	11132.38	4712.24	3186.88	3471.17	4712.24	47.44	0.30	SlimPulse	1
186	15717.00	87.76	47.92	95.00	11136.24	4807.15	3250.46	3541.65	4807.16	47.45	0.19	SlimPulse	1
187	15812.00	87.69	48.09	95.00	11140.01	4902.08	3313.97	3612.20	4902.08	47.47	0.19	SlimPulse	1
188	15907.00	87.59	48.03	95.00	11143.92	4996.99	3377.41	3682.81	4996.99	47.48	0.12	SlimPulse	1
189	16001.00	87.59	47.86	94.00	11147.87	5090.91	3440.32	3752.54	5090.91	47.49	0.18	SlimPulse	1
190	16096.00	87.90	48.01	95.00	11151.61	5185.83	3503.91	3823.01	5185.83	47.49	0.36	SlimPulse	1
191	16191.00	88.21	48.70	95.00	11154.83	5280.76	3567.01	3893.96	5280.76	47.51	0.80	SlimPulse	1
192	16286.00	88.01	48.47	95.00	11157.97	5375.70	3629.82	3965.17	5375.7	47.53	0.32	SlimPulse	1
193	16380.00	88.11	48.21	94.00	11161.15	5469.63	3692.26	4035.35	5469.63	47.54	0.30	SlimPulse	1
194	16474.00	88.18	48.16	94.00	11164.19	5563.58	3754.90	4105.38	5563.58	47.55	0.09	SlimPulse	1
195	16568.00	87.94	47.73	94.00	11167.37	5657.52	3817.83	4174.13	5657.52	47.56	0.52	SlimPulse	1
196	16662.00	88.25	47.59	94.00	11170.50	5751.47	3881.11	4244.57	5751.47	47.56	0.36	SlimPulse	1
197	16756.00	87.63	47.09	94.00	11173.88	5845.40	3944.06	4313.65	5845.41	47.56	0.85	SlimPulse	1
198	16851.00	87.94	47.66	95.00	11177.55	5940.33	4009.05	4383.50	5940.33	47.55	0.68	SlimPulse	1
199	16946.00	88.11	48.24	95.00	11180.93	6035.27	4072.64	4454.00	6035.27	47.56	0.61	SlimPulse	1
200	17040.00	88.11	48.75	94.00	11184.14	6129.20	4134.89	4524.36	6129.2	47.58	0.56	SlimPulse	1
201	17134.00	88.22	49.54	94.00	11187.15	6223.11	4196.35	4595.42	6223.12	47.60	0.85	SlimPulse	1
202	17228.00	88.36	50.02	94.00	11189.95	6317.00	4257.02	4667.16	6317.01	47.63	0.53	SlimPulse	1
203	17323.00	88.08	50.03	95.00	11192.90	6411.86	4318.03	4739.93	6411.88	47.67	0.29	SlimPulse	