

Schlumberger

Reservoir Development

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

October 13, 2013

Cimarex Energy Co. of Colorado
600 N. Marienfeld St., Ste 600
Midland, TX 79701

HOBBS OCD

JAN 10 2014

RECEIVED

Re:

11-19S-30E 1560 FNL & 1960 FWL
N 32.67783 W 103.94487

CLIENT: Cimarex Energy Co. of Colorado
WELL: Crescent Hale 10 Federal Com 2H
FIELD: Benson; Bone Spring
RIG: Cactus 104
COUNTY: Eddy
API NO: 30-015-39825
JOB NO: 13MLD0559

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation.
Other information required by your office is as follows.

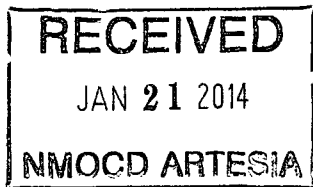
<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Timothy Little Field Engineer	Crescent Hale 10 Federal Com 2H Original Hole	7900.00 Ft to 15146.00 Ft	September 29, 2013 to October 8, 2013	SlimPulse

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

Jasem Alharer
Field Service Manager

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NMOCD ARTESIA

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Well Reference:
11-19S-30E 1560 FNL & 1960 FWL
N 32.67783 W 103.94487

I, Timothy Little certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of September 29, 2013 through October 08, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 7900.00 feet to a depth of 15146.00 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. of Colorado for the Crescent Hale 10 Federal Com 2H Well (Original Hole) API No. 30-015-39825 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
Timothy Little
Field Engineer

Subscribed and Sworn to before me this 15th day of October (month) 2013 (yr)

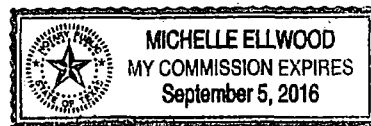
My Commission expires:

September 5, 2014

Michelle Ellwood

Notary Public

Midland, Tx
(County State)



SCHLUMBERGER
Survey Report

29-Oct-2013

Client.....: Cimarex Energy Co. of Colorado
Field.....: Benson; Bone Spring

Well.....: Crescent Hale 10 Federal Com 2H
API number.....: 30-015-39825
Engineer.....: Timothy Little
County.....: Eddy
State.....: New Mexico
Rig.....: Cactus 104

Spud date.....: 18-Sep-13
Last survey date.....: 8-Oct-13
Total accepted surveys...: 59
MD of first survey.....: 7900.00 ft
MD of last survey.....: 15146.00 ft
Latitude.....: 32° 40' 40.186" N
Longitude.....: 103° 56' 41.515" W

----- Survey calculation methods-----
Method for positions...: Minimum curvature
Method for DLS.....: Lubinski

----- Depth reference -----
Permanent datum.....: MSL
Depth reference.....: Driller's Depth
GL above permanent.....: 3380.00
KB above permanent.....: 3400.00
DF above permanent.....: 3400.00

----- Vertical section origin-----
Latitude (+N/S-).....: 0.00 ft
Departure (+E/W-).....: 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X.....: 660864.02 ft
Y.....: 610544.33 ft

Azimuth from Vsect Origin to target: 263.66 degrees

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

-----Run1----- Calculation Date: 27-Sep-2013
Location G....: 998.86523 mgn Tolerance G...: 2.50 mgn
Location B....: 48609.03 nT Tolerance B...: 300.00 nT
Magnetic Dip: 60.477 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 1-Oct-2013
Location G....: 998.86523 mgn Tolerance G...: 2.50 mgn
Location B....: 48609.34 nT Tolerance B...: 300.00 nT
Magnetic Dip: 60.477 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 6-Oct-2013
Location G....: 998.86523 mgn Tolerance G...: 2.50 mgn
Location B....: 48609.03 nT Tolerance B...: 300.00 nT
Magnetic Dip: 60.48 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2012

-----Run1-----
Magnetic dec (+E/W-).....: 7.62361 degrees
Grid Conv (+E/W-).....: 0.20974 degrees
Total Azim Corr (+E/W-)...: 7.41387 degrees

-----Run2-----
Magnetic dec (+E/W-).....: 7.62233 degrees
Grid Conv (+E/W-).....: 0.20974 degrees
Total Azim Corr (+E/W-)...: 7.41259 degrees

-----Run3-----
Magnetic dec (+E/W-).....: 7.62074 degrees
Grid Conv (+E/W-).....: 0.20975 degrees
Total Azim Corr (+E/W-)...: 7.41099 degrees

-----Survey Correction Index Description-----

0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

===== Survey List =====
Seq MD Incl Azim Course TVD V Sec N/S E/W Closure at Azi DLS Tool Correction

	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100ft)		
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	156.00	1.26	2.53	156.00	155.99	-0.26	1.71	0.08	1.71524	2.53	0.81	SingleShot	0
3	336.00	2.50	349.47	180.00	335.89	-0.28	7.55	-0.55	7.57089	355.80	0.72	SingleShot	0
4	516.00	1.91	336.60	180.00	515.75	0.88	14.16	-2.46	14.37585	350.13	0.43	SingleShot	0
5	742.80	0.18	50.97	226.80	742.51	1.69	17.86	-3.69	18.23344	348.33	0.82	SingleShot	0
6	932.80	0.15	53.24	190.00	932.51	1.23	18.19	-3.26	18.48258	349.85	0.02	SingleShot	0
7	1122.80	0.15	48.36	190.00	1122.51	0.81	18.51	-2.87	18.72895	351.18	0.01	SingleShot	0
8	1312.80	0.15	47.08	190.00	1312.51	0.41	18.84	-2.50	19.00773	352.43	0.00	SingleShot	0
9	1502.80	0.14	45.87	190.00	1502.51	0.02	19.17	-2.15	19.29383	353.59	0.01	SingleShot	0
10	1692.70	0.15	50.49	189.90	1692.41	-0.37	19.49	-1.80	19.57543	354.73	0.01	SingleShot	0
11	1882.70	0.17	39.26	190.00	1882.41	-0.78	19.87	-1.43	19.92043	355.89	0.02	SingleShot	0
12	2072.70	0.18	36.04	190.00	2072.41	-1.18	20.33	-1.07	20.35715	356.98	0.01	SingleShot	0
13	2262.70	0.18	37.41	190.00	2262.41	-1.59	20.81	-0.72	20.81958	358.03	0.00	SingleShot	0
14	2452.70	0.16	37.57	190.00	2452.40	-1.98	21.25	-0.37	21.25788	359.00	0.01	SingleShot	0
15	2642.60	0.16	25.54	189.90	2642.30	-2.30	21.70	-0.10	21.70424	359.75	0.02	SingleShot	0
16	2832.60	0.18	23.43	190.00	2832.30	-2.59	22.22	0.14	22.21766	0.35	0.01	SingleShot	0
17	3022.60	0.16	20.70	190.00	3022.30	-2.86	22.74	0.35	22.74192	0.88	0.01	SingleShot	0
18	3212.60	0.17	7.36	190.00	3212.30	-3.05	23.27	0.48	23.27189	1.18	0.02	SingleShot	0
19	3402.60	0.08	355.65	190.00	3402.30	-3.12	23.68	0.51	23.68415	1.22	0.05	SingleShot	0
20	3592.50	0.18	351.12	189.90	3592.20	-3.11	24.11	0.45	24.10986	1.07	0.05	SingleShot	0
21	3782.50	0.15	347.60	190.00	3782.20	-3.07	24.64	0.35	24.64594	0.81	0.02	SingleShot	0
22	3972.50	0.28	280.43	190.00	3972.20	-2.60	24.97	-0.16	24.97092	359.63	0.14	SingleShot	0
23	4162.50	0.64	348.76	190.00	4162.19	-2.06	26.10	-0.82	26.10825	358.19	0.31	SingleShot	0
24	4352.50	0.24	68.47	190.00	4352.19	-2.36	27.28	-0.66	27.29007	358.61	0.34	SingleShot	0
25	4542.40	0.21	50.99	189.90	4542.09	-3.03	27.65	-0.02	27.64711	359.96	0.04	SingleShot	0
26	4732.40	0.14	7.50	190.00	4732.09	-3.38	28.10	0.28	28.09782	0.57	0.08	SingleShot	0
27	4922.40	0.19	334.09	190.00	4922.09	-3.33	28.61	0.17	28.61045	0.35	0.06	SingleShot	0
28	5112.40	0.16	313.18	190.00	5112.08	-3.05	29.07	-0.16	29.07525	359.69	0.04	SingleShot	0
29	5302.40	0.15	304.33	190.00	5302.08	-2.69	29.40	-0.56	29.40189	358.92	0.01	SingleShot	0
30	5492.30	0.15	284.82	189.90	5491.98	-2.27	29.60	-1.00	29.61734	358.06	0.03	SingleShot	0
31	5682.30	0.14	283.58	190.00	5681.98	-1.82	29.72	-1.47	29.75475	357.17	0.01	SingleShot	0
32	5872.30	0.14	268.59	190.00	5871.98	-1.37	29.77	-1.93	29.82953	356.30	0.02	SingleShot	0
33	6062.30	0.15	253.67	190.00	6061.98	-0.90	29.69	-2.40	29.78822	355.39	0.02	SingleShot	0
34	6252.30	0.44	337.34	190.00	6251.98	-0.45	30.29	-2.92	30.435	354.50	0.24	SingleShot	0
35	6442.20	3.05	77.75	189.90	6441.79	-5.27	32.04	1.74	32.08747	3.11	1.66	SingleShot	0
36	6632.20	1.33	47.26	190.00	6631.65	-12.07	34.61	8.30	35.59098	13.49	1.06	SingleShot	0
37	6822.20	0.38	239.48	190.00	6821.64	-13.27	35.79	9.38	36.99434	14.68	0.90	SingleShot	0
38	7012.20	0.36	306.75	190.00	7011.63	-12.26	35.82	8.36	36.785	13.13	0.22	SingleShot	0
39	7202.20	0.19	275.83	190.00	7201.63	-11.52	36.21	7.56	36.9941	11.80	0.12	SingleShot	0
40	7392.10	0.22	92.82	189.90	7391.53	-11.57	36.23	7.62	37.01829	11.87	0.22	SingleShot	0
41	7582.10	1.44	263.23	190.00	7581.51	-9.54	35.93	5.61	36.36227	8.87	0.87	SingleShot	0
42	7772.10	0.42	204.78	190.00	7771.49	-6.79	35.01	2.95	35.13706	4.81	0.67	SingleShot	0
43	7900.00	0.51	194.49	127.90	7899.38	-6.35	34.04	2.61	34.13876	4.38	0.09	SlimPulse	0
44	7931.00	1.82	225.34	31.00	7930.38	-5.92	33.56	2.22	33.6328	3.79	4.55	SlimPulse	0
45	7963.00	5.64	243.01	32.00	7962.30	-4.04	32.49	0.46	32.49055	0.81	12.32	SlimPulse	1
46	7995.00	10.71	246.84	32.00	7993.97	0.28	30.60	-3.68	30.8233	353.15	15.93	SlimPulse	1
47	8026.00	14.94	246.59	31.00	8024.19	6.86	27.88	-10.00	29.61926	340.27	13.65	SlimPulse	1
48	8058.00	18.48	246.16	32.00	8054.83	15.64	24.19	-18.42	30.40819	322.71	11.07	SlimPulse	1
49	8090.00	21.34	246.95	32.00	8084.92	26.06	19.86	-28.42	34.67401	304.94	8.98	SlimPulse	1
50	8121.00	24.05	249.14	31.00	8113.51	37.58	15.40	-39.52	42.41302	291.29	9.16	SlimPulse	1
51	8153.00	26.11	250.30	32.00	8142.50	50.74	10.71	-52.24	53.32728	281.58	6.62	SlimPulse	1
52	8184.00	27.30	251.73	31.00	8170.19	64.33	6.18	-65.42	65.70613	275.40	4.36	SlimPulse	1
53	8216.00	29.22	252.24	32.00	8198.37	79.17	1.49	-79.82	79.83728	271.07	6.05	SlimPulse	1
54	8247.00	31.83	252.34	31.00	8225.07	94.61	-3.29	-94.82	94.87851	268.01	8.42	SlimPulse	1
55	8279.00	34.11	253.48	32.00	8251.92	111.71	-8.41	-111.47	111.7831	265.69	7.38	SlimPulse	1
56	8311.00	35.55	255.55	32.00	8278.19	129.76	-13.28	-129.08	129.75989	264.13	5.82	SlimPulse	1
57	8342.00	37.87	260.73	31.00	8303.04	148.19	-17.06	-147.20	148.18862	263.39	12.48	SlimPulse	1
58	8374.00	40.62	261.98	32.00	8327.82	168.41	-20.10	-167.22	168.41919	263.15	8.94	SlimPulse	1
59	8405.00	43.75	261.86	31.00	8350.79	189.22	-23.02	-187.82	189.22966	263.01	10.10	SlimPulse	1
60	8437.00	47.00	262.18	32.00	8373.27	211.98	-26.18	-210.38	211.99856	262.91	10.18	SlimPulse	1
61	8469.00	49.42	262.10	32.00	8394.59	235.83	-29.45	-234.01	235.85382	262.83	7.56	SlimPulse	1
62	8500.00	51.71	263.91	31.00	8414.28	259.77	-32.36	-257.77	259.79303	262.85	8.65	SlimPulse	1
63	8532.00	54.73	266.56	32.00	8433.44	285.38	-34.47	-283.31	285.3955	263.06	11.53	SlimPulse	1
64	8563.00	59.16	268.57	31.00	8450.35	311.29	-35.57	-309.26	311.29516	263.44	15.29	SlimPulse	1
65	8595.00	64.15	269.53	32.00	8465.54	339.32	-36.03	-337.41	339.32493	263.91	15.82	SlimPulse	1
66	8627.00	67.88	270.44	32.00	8478.54	368.37	-36.03	-366.64	368.40449	264.39	11.94	SlimPulse	1
67	8664.00	70.89	271.74	37.00	8491.57	402.71	-35.37	-401.26	402.81317	264.96	8.76	SlimPulse	0
68	8695.00	72.85	271.64	31.00	8501.22	431.88	-34.50	-430.70	432.0832	265.42	6.33	SlimPulse	0
69	8727.00	74.39	271.68	32.00	8510.24	462.28	-33.61	-461.39	462.61391	265.83	4.84	SlimPulse	0
70	8758.00	76.06	271.73	31.00	8518.14	491.96	-32.72	-491.35	492.44048	266.19	5.38	SlimPulse	0
71	8790.00	77.58	271.52	32.00	8525.44	522.82	-31.84	-522.50	523.46485	266.51	4.78	SlimPulse	0
72	8822.00	79.13	271.35	32.00	8531.90	553.87	-31.06	-553.83	554.6959	266.79	4.87	SlimPulse	0
73	8853.00	80.32	270.20	31.00	8537.43	584.14	-30.65	-584.32	585.1277	267.00	5.32	SlimPulse	0
74	8885.00	81.40	269.00	32.00	8542.52	615.56	-30.87	-615.92	616.68942	267.13	4.99	SlimPulse	0
75	8917.00	82.62	267.69	32.00	8546.96	647.14	-31.78	-647.59	648.3705	267.19	5.56	SlimPulse	0
76	8949.00	83.83	266.35	32.00	8550.74	678.86	-33.44	-679.32	680.14559	267.18	5.65	SlimPulse	0
77	8980.00	85.08	265.46	31.00	8553.74	709.69	-35.64	-710.10	710.99222	267.13	4.92	SlimPulse	0
78	9012.00	86.59	264.32	32.00	8556.06	741.60	-38.49	-741.89	742.88285	267.03	5.92	SlimPulse	0
79	9044.00	88.00	263.05	32.00	8557.57	773.56	-42.00	-773.65	774.79353	266.89	5.93	SlimPulse	0
80	9075.00	89.24	262.07	31.00	8558.31	804.55	-46.02	-804.38	805.69843	266.73	5.10	SlimPulse	0
81	9170.00	90.86	261.16	95.00	8558.23	899.48	-59.87	-898.36	900.35648	266.19	1.95	SlimPulse	0

82	9266.00	90.93	260.86	96.00	8556.73	995.37	-74.86	-993.17	995.99084	265.69	0.33	SlimPulse	0
83	9361.00	91.07	260.88	95.00	8555.08	1090.24	-89.93	-1086.96	1090.67002	265.27	0.15	SlimPulse	0
84	9456.00	91.03	260.86	95.00	8553.34	1185.11	-105.00	-1180.74	1185.39658	264.92	0.05	SlimPulse	0
85	9551.00	90.93	260.14	95.00	8551.71	1279.95	-120.69	-1274.42	1280.12034	264.59	0.76	SlimPulse	0
86	9646.00	91.03	260.02	95.00	8550.09	1374.75	-137.05	-1367.98	1374.83259	264.28	0.16	SlimPulse	0
87	9741.00	91.10	260.01	95.00	8548.32	1469.54	-153.52	-1461.53	1469.57033	264.00	0.07	SlimPulse	0
88	9836.00	91.27	260.50	95.00	8546.35	1564.36	-169.59	-1555.14	1564.3586	263.78	0.55	SlimPulse	0
89	9931.00	91.20	261.73	95.00	8544.30	1659.24	-184.26	-1648.98	1659.23811	263.62	1.30	SlimPulse	0
90	10026.00	91.20	263.10	95.00	8542.30	1754.19	-196.80	-1743.12	1754.19492	263.56	1.43	SlimPulse	0
91	10122.00	91.20	264.59	96.00	8540.29	1850.17	-207.09	-1838.54	1850.16989	263.57	1.56	SlimPulse	0
92	10216.00	91.17	265.98	94.00	8538.34	1944.11	-214.82	-1932.20	1944.10756	263.66	1.48	SlimPulse	0
93	10311.00	91.07	266.00	95.00	8536.49	2039.01	-221.46	-2026.95	2039.01427	263.76	0.11	SlimPulse	0
94	10406.00	91.00	266.12	95.00	8534.78	2133.91	-227.98	-2121.71	2133.92601	263.87	0.14	SlimPulse	0
95	10501.00	91.03	266.52	95.00	8533.10	2228.79	-234.08	-2216.50	2228.8278	263.97	0.42	SlimPulse	0
96	10596.00	90.89	266.41	95.00	8531.50	2323.67	-239.94	-2311.31	2323.72814	264.07	0.18	SlimPulse	0
97	10691.00	90.93	264.33	95.00	8529.99	2418.61	-247.61	-2405.98	2418.68755	264.12	2.20	SlimPulse	0
98	10786.00	91.00	265.09	95.00	8528.39	2513.58	-256.37	-2500.56	2513.6687	264.15	0.80	SlimPulse	0
99	10881.00	90.96	264.31	95.00	8526.77	2608.55	-265.14	-2595.14	2608.6498	264.17	0.82	SlimPulse	0
100	10976.00	90.96	263.71	95.00	8525.17	2703.53	-275.05	-2689.61	2703.63562	264.16	0.64	SlimPulse	0
101	11070.00	90.93	262.42	94.00	8523.62	2797.51	-286.40	-2782.91	2797.60427	264.12	1.37	SlimPulse	0
102	11166.00	90.96	261.05	96.00	8522.04	2893.44	-300.20	-2877.89	2893.50833	264.04	1.43	SlimPulse	0
103	11261.00	90.96	259.41	95.00	8520.44	2988.26	-316.32	-2971.50	2988.28766	263.92	1.73	SlimPulse	0
104	11356.00	90.86	258.52	95.00	8518.93	3082.92	-334.50	-3064.73	3082.92968	263.77	0.94	SlimPulse	0
105	11451.00	91.13	259.19	95.00	8517.28	3177.57	-352.87	-3157.92	3177.57516	263.62	0.76	SlimPulse	0
106	11546.00	91.13	260.31	95.00	8515.40	3272.33	-369.78	-3251.38	3272.34396	263.51	1.18	SlimPulse	0
107	11641.00	90.93	261.69	95.00	8513.69	3367.21	-384.64	-3345.20	3367.23741	263.44	1.47	SlimPulse	0
108	11737.00	90.89	262.97	96.00	8512.16	3463.17	-397.45	-3440.32	3463.20567	263.41	1.33	SlimPulse	0
109	11831.00	90.96	264.17	94.00	8510.64	3557.16	-407.98	-3533.72	3557.19124	263.41	1.28	SlimPulse	0
110	11927.00	90.96	264.26	96.00	8509.02	3653.14	-417.65	-3629.22	3653.16851	263.44	0.10	SlimPulse	0
111	12022.00	91.00	264.20	95.00	8507.40	3748.12	-427.20	-3723.72	3748.14563	263.46	0.07	SlimPulse	0
112	12116.00	91.03	264.29	94.00	8505.74	3842.10	-436.62	-3817.23	3842.12215	263.47	0.10	SlimPulse	0
113	12211.00	90.86	263.98	95.00	8504.17	3937.09	-446.33	-3911.72	3937.10292	263.49	0.37	SlimPulse	0
114	12306.00	90.93	264.43	95.00	8502.69	4032.07	-455.91	-4006.23	4032.08386	263.51	0.48	SlimPulse	0
115	12401.00	90.93	264.44	95.00	8501.15	4127.05	-465.12	-4100.77	4127.05914	263.53	0.01	SlimPulse	0
116	12496.00	90.89	264.30	95.00	8499.64	4222.03	-474.43	-4195.30	4222.03703	263.55	0.15	SlimPulse	0
117	12591.00	90.93	263.79	95.00	8498.13	4317.01	-484.29	-4289.77	4317.02119	263.56	0.54	SlimPulse	0
118	12686.00	90.93	263.43	95.00	8496.59	4412.00	-494.86	-4384.17	4412.00852	263.56	0.38	SlimPulse	0
119	12780.00	90.93	263.04	94.00	8495.06	4505.99	-505.93	-4477.50	4505.99455	263.55	0.41	SlimPulse	0
120	12875.00	90.93	262.78	95.00	8493.52	4600.97	-517.65	-4571.76	4600.9762	263.54	0.27	SlimPulse	0
121	12970.00	91.07	263.15	95.00	8491.87	4695.94	-529.27	-4666.03	4695.95698	263.53	0.41	SlimPulse	0
122	13065.00	90.69	262.87	95.00	8490.42	4790.93	-540.83	-4760.32	4790.94181	263.52	0.49	SlimPulse	0
123	13159.00	90.72	263.48	94.00	8489.26	4884.92	-552.00	-4853.64	4884.93261	263.51	0.65	SlimPulse	0
124	13254.00	90.79	264.82	95.00	8488.01	4979.90	-561.68	-4948.14	4979.91641	263.52	1.41	SlimPulse	0
125	13349.00	90.86	266.20	95.00	8486.64	5074.84	-569.12	-5042.84	5074.84838	263.56	1.46	SlimPulse	0
126	13444.00	90.83	267.78	95.00	8485.24	5169.67	-574.11	-5137.69	5169.668	263.62	1.67	SlimPulse	0
127	13539.00	90.83	269.19	95.00	8483.87	5264.32	-576.61	-5232.65	5264.31984	263.71	1.48	SlimPulse	0
128	13634.00	91.20	270.09	95.00	8482.19	5358.78	-577.21	-5327.63	5358.80469	263.82	1.02	SlimPulse	0
129	13728.00	91.07	269.51	94.00	8480.33	5452.23	-577.54	-5421.61	5452.28305	263.92	0.64	SlimPulse	0
130	13823.00	91.06	268.68	95.00	8478.57	5546.78	-579.05	-5516.58	5546.88561	264.01	0.87	SlimPulse	0
131	13918.00	91.03	266.65	95.00	8476.83	5641.53	-582.92	-5611.48	5641.67447	264.07	2.13	SlimPulse	0
132	14012.00	92.89	263.94	94.00	8473.61	5735.42	-590.62	-5705.10	5735.58528	264.09	3.50	SlimPulse	1
133	14107.00	89.86	262.45	95.00	8471.33	5830.38	-601.87	-5799.39	5830.53278	264.07	3.55	SlimPulse	1
134	14203.00	89.31	261.20	96.00	8472.03	5926.33	-615.52	-5894.40	5926.45518	264.04	1.42	SlimPulse	1
135	14297.00	89.48	259.72	94.00	8473.02	6020.17	-631.10	-5987.10	6020.26688	263.98	1.58	SlimPulse	1
136	14393.00	89.83	258.87	96.00	8473.60	6115.89	-648.93	-6081.42	6115.94803	263.91	0.96	SlimPulse	1
137	14488.00	90.07	258.41	95.00	8473.68	6210.53	-667.64	-6174.56	6210.55235	263.83	0.55	SlimPulse	1
138	14583.00	90.07	258.17	95.00	8473.56	6305.11	-686.92	-6267.58	6305.11534	263.75	0.25	SlimPulse	1
139	14678.00	90.45	257.96	95.00	8473.13	6399.65	-706.57	-6360.53	6399.65455	263.66	0.46	SlimPulse	1
140	14773.00	90.59	257.08	95.00	8472.27	6494.10	-727.10	-6453.28	6494.11247	263.57	0.94	SlimPulse	1
141	14868.00	90.55	257.63	95.00	8471.33	6588.53	-747.89	-6545.97	6588.55684	263.48	0.58	SlimPulse	1
142	14963.00	89.73	260.97	95.00	8471.09	6683.24	-765.53	-6639.31	6683.29297	263.42	3.62	SlimPulse	1
143	15058.00	88.32	264.25	95.00	8472.71	6778.19	-777.74	-6733.49	6778.25441	263.41	3.76	SlimPulse	1
144	15146.00	86.81	266.82	88.00	8476.45	6866.05	-784.59	-6821.13	6866.10545	263.44	3.38	SlimPulse	1
145	15225.00	86.81	266.82	79.00	8480.85	6944.81	-788.96	-6899.89	6944.84726	263.48	0.00	PROJ	0