

Oilfield Services, Central U.S. Land

Schlumberger

Reservoir Development

Drilling & Measurements (Anadrill)

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515

Fax: (405) 789-1519

November 21, 2015

Cimarex

600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

Sec 33, T26S, R27E Eddy NM
N 32.00082 W 104.20079

CLIENT: Cimarex Energy Co.
WELL: Klein 33 Federal Com 1H
FIELD: Wildcat; Bone Spring
RIG: H&P 488
COUNTY: Eddy
API NO: 30-015-42105
JOB NO: 15MLD2615

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>
Julie Schmautz MWD	Klein 33 Federal Com 1H Original Hole	6727.00 Ft to 13938.00 Ft	November 15, 2015 to November 21, 2015	SlimPulse

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

Sincerely,

John Wilkerson
Field Service Manager

Reservoir Development

Drilling & Measurements (Anadrill)

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515

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Well Reference:

Sec 33, T26S, R27E Eddy NM

N 32.00082 W 104.20079

I, Julie Schmautz certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 15, 2015 through November 21, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 6727.00 feet to a depth of 13938.00 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 Klein 33 Federal Com LH Well (Original Hole) API No. 30-015-42105 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 Julie Schmautz
Julie Schmautz
MWD

Subscribed and Sworn to before me this 27th day of November (month) 2015 (yr)

My Commission expires:

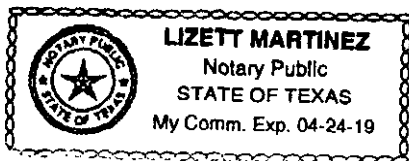
4/24/19

[Signature]
Notary Public

(signature)

Texas

(County State)



SCHLUMBERGER
Survey Report

21-Nov-2015

Client.....: Cimarex Energy Co.
Field.....: Wildcat; Bone Spring

Well.....: Klein 33 Federal Corn 1H
API number.....: 30-015-42105
Engineer.....: J. Schmautz

Spud date.....: 7-Nov-15
Last survey date.....: 21-Nov-15
Total accepted surveys...: 83
MD of first survey.....: 6727.00 ft
MD of last survey.....: 13938.00 ft

County.....: Eddy
State.....: New Mexico
Rig.....: H&P 488

Latitude.....: 32° 0' 2.953" N
Longitude.....: 104° 12' 2.843" 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.....: 3192.00
KB above permanent.....: 3217.00
DF above permanent.....: 3217.00

---- Vertical section origin-----

Latitude (+N/-).....: 0.00 ft
Departure (+E/-).....: 0.00 ft

---- Grid Coordinates -----

NAD83 New Mexico State Plane, Eastern Zone, US Feet
X.....: 582424.12 ft
Y.....: 364063.09 ft

Azimuth from Vsect Origin to target: 357.10 degrees

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

----Run1---- Calculation Date: 13-Nov-2015
Location G.....: 998.94325 mgn Tolerance G...: 2.50 mgn
Location B.....: 48195.3 nT Tolerance B...: 300.00 nT
Magnetic Dip: 59.7036 degrees Tolerance Dip: 0.45 degrees

----Run2---- Calculation Date: 16-Nov-2015
Location G.....: 998.94325 mgn Tolerance G...: 2.50 mgn
Location B.....: 48194.43 nT Tolerance B...: 300.00 nT
Magnetic Dip: 59.7035 degrees Tolerance Dip: 0.45 degrees

----Run3---- Calculation Date: 19-Nov-2015
Location G.....: 998.94325 mgn Tolerance G...: 2.50 mgn
Location B.....: 48193.55 nT Tolerance B...: 300.00 nT
Magnetic Dip: 59.7034 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

----Run1----
Magnetic dec (+E/-).....: 7.5513 degrees
Grid Conv (+E/-).....: 0.0713 degrees
Total Azim Corr (+E/-)....: 7.48 degrees

----Run2----
Magnetic dec (+E/-).....: 7.5505 degrees
Grid Conv (+E/-).....: 0.0705 degrees
Total Azim Corr (+E/-)....: 7.48 degrees

----Run3----
Magnetic dec (+E/-).....: 7.5496 degrees
Grid Conv (+E/-).....: 0.0696 degrees
Total Azim Corr (+E/-)....: 7.48 degrees

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

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

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
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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	177.00	0.31	103.63	177.00	177.00	-0.14	-0.11	0.47	0.48	103.63	0.18	Other	0
3	272.00	0.62	301.52	95.00	272.00	0.08	0.10	0.28	0.29	71.01	0.97	Other	0
4	333.00	0.48	291.19	61.00	332.99	0.37	0.36	-0.24	0.43	326.04	0.28	Other	0
5	403.00	0.62	291.19	70.00	402.99	0.65	0.60	-0.87	1.06	304.76	0.20	Other	0
6	496.00	0.62	271.69	93.00	495.99	0.89	0.80	-1.84	2.01	293.48	0.23	Other	0
7	580.00	0.79	256.21	84.00	579.98	0.82	0.68	-2.86	2.94	283.29	0.30	Other	0
8	673.00	1.19	249.31	93.00	672.97	0.40	0.18	-4.38	4.39	272.37	0.45	Other	0
9	794.00	1.32	248.61	121.00	793.94	-0.42	-0.77	-6.86	6.9	263.58	0.11	Other	0
10	854.00	1.49	248.61	60.00	853.92	-0.89	-1.31	-8.23	8.33	260.97	0.28	Other	0
11	949.00	1.41	245.22	95.00	948.89	-1.72	-2.25	-10.44	10.68	257.85	0.12	Other	0
12	1044.00	1.58	247.33	95.00	1043.86	-2.60	-3.24	-12.71	13.12	255.69	0.19	Other	0
13	1234.00	1.89	232.61	190.00	1233.77	-5.26	-6.15	-17.61	18.66	250.74	0.28	Other	0
14	1378.00	1.32	212.00	144.00	1377.71	-7.96	-9.00	-20.38	22.28	246.17	0.56	Other	0
15	1423.00	1.10	197.63	45.00	1422.70	-8.79	-9.85	-20.79	23	244.63	0.83	Other	0
16	1517.00	0.88	185.19	94.00	1516.69	-10.35	-11.43	-21.12	24.02	241.58	0.33	Other	0
17	1612.00	0.88	137.12	95.00	1611.68	-11.63	-12.69	-20.69	24.28	238.47	0.75	Other	0
18	1706.00	1.19	124.81	94.00	1705.66	-12.78	-13.78	-19.40	23.8	234.61	0.40	Other	0
19	1799.00	1.71	115.32	93.00	1798.63	-14.03	-14.93	-17.35	22.89	229.30	0.61	Other	0
20	1861.00	1.80	108.20	62.00	1860.61	-14.82	-15.63	-15.59	22.07	224.94	0.38	Other	0
21	2036.00	1.89	104.99	175.00	2035.51	-16.69	-17.23	-10.19	20.02	210.61	0.08	Other	0
22	2079.00	1.71	104.99	43.00	2078.49	-17.11	-17.58	-8.89	19.7	206.82	0.42	Other	0
23	2153.00	1.80	99.72	74.00	2152.46	-17.70	-18.06	-6.68	19.26	200.29	0.25	Other	0
24	2253.00	1.32	64.69	100.00	2252.42	-17.60	-17.83	-4.09	18.3	192.91	1.04	Other	0
25	2348.00	1.41	333.20	95.00	2347.41	-16.12	-16.32	-3.63	16.72	192.52	2.06	Other	0
26	2537.00	1.17	328.72	189.00	2536.36	-12.30	-12.60	-5.68	13.82	204.25	0.14	Other	0
27	2631.00	1.58	327.09	94.00	2630.33	-10.33	-10.69	-6.88	12.71	212.76	0.44	Other	0
28	2726.00	1.58	328.89	95.00	2725.29	-8.04	-8.47	-8.27	11.83	224.31	0.05	Other	0
29	2820.00	1.49	327.62	94.00	2819.26	-5.83	-6.33	-9.59	11.49	236.59	0.10	Other	0
30	2916.00	1.41	324.10	96.00	2915.23	-3.76	-4.32	-10.95	11.77	248.49	0.12	Other	0
31	3011.00	1.32	321.73	95.00	3010.20	-1.89	-2.51	-12.31	12.57	258.48	0.11	Other	0
32	3200.00	1.32	320.81	189.00	3199.15	1.64	0.89	-15.04	15.06	273.37	0.01	Other	0
33	3294.00	1.32	316.90	94.00	3293.13	3.34	2.52	-16.46	16.65	278.69	0.10	Other	0
34	3387.00	1.32	313.91	93.00	3386.10	4.94	4.04	-17.97	18.42	282.67	0.07	Other	0
35	3484.00	1.19	315.49	97.00	3483.08	6.51	5.53	-19.48	20.25	285.86	0.14	Other	0
36	3578.00	1.19	305.82	94.00	3577.06	7.85	6.80	-20.95	22.03	287.98	0.21	Other	0
37	3767.00	1.01	287.50	189.00	3766.03	9.66	8.45	-24.13	25.57	289.30	0.21	Other	0
38	3861.00	1.19	289.52	94.00	3860.01	10.32	9.03	-25.84	27.37	289.25	0.20	Other	0
39	3950.00	1.10	282.31	89.00	3948.99	10.90	9.52	-27.55	29.15	289.06	0.19	Other	0
40	4051.00	0.79	288.29	101.00	4049.98	11.40	9.94	-29.16	30.81	288.83	0.32	Other	0
41	4146.00	0.79	272.42	95.00	4144.97	11.70	10.17	-30.43	32.09	288.49	0.23	Other	0
42	4240.00	0.79	259.90	94.00	4238.96	11.68	10.09	-31.72	33.28	287.64	0.18	Other	0
43	4335.00	0.79	261.00	95.00	4333.95	11.53	9.87	-33.01	34.45	286.65	0.02	Other	0
44	4427.00	0.79	250.32	92.00	4425.94	11.28	9.56	-34.23	35.54	285.60	0.16	Other	0
45	4613.00	0.88	243.60	186.00	4611.92	10.34	8.49	-36.72	37.69	283.02	0.07	Other	0
46	4708.00	1.10	245.09	95.00	4706.91	9.70	7.78	-38.20	38.99	281.52	0.23	Other	0
47	4802.00	1.19	244.61	94.00	4800.89	8.99	6.98	-39.90	40.51	279.93	0.10	Other	0
48	4991.00	1.19	255.20	189.00	4989.85	7.84	5.64	-43.57	43.94	277.38	0.12	Other	0
49	5086.00	1.32	251.20	95.00	5084.83	7.33	5.04	-45.56	45.84	276.31	0.16	Other	0
50	5180.00	1.41	251.99	94.00	5178.80	6.73	4.33	-47.69	47.88	275.19	0.10	Other	0
51	5275.00	1.19	240.61	95.00	5273.77	5.99	3.49	-49.66	49.78	274.01	0.36	Other	0
52	5369.00	1.10	234.63	94.00	5367.76	5.07	2.48	-51.24	51.3	272.78	0.16	Other	0
53	5464.00	1.10	224.22	95.00	5462.74	3.96	1.30	-52.62	52.64	271.42	0.21	Other	0
54	5559.00	1.49	223.43	95.00	5557.71	2.49	-0.25	-54.11	54.11	269.74	0.41	Other	0
55	5653.00	1.10	221.93	94.00	5651.69	1.00	-1.81	-55.55	55.58	268.14	0.42	Other	0
56	5748.00	1.41	227.51	95.00	5746.67	-0.39	-3.27	-57.02	57.12	266.71	0.35	Other	0
57	5842.00	1.19	227.69	94.00	5840.64	-1.75	-4.71	-58.60	58.79	265.40	0.23	Other	0
58	5937.00	0.88	233.62	95.00	5935.63	-2.78	-5.81	-59.91	60.19	264.46	0.34	Other	0
59	6032.00	0.70	242.10	95.00	6030.62	-3.42	-6.51	-61.01	61.36	263.91	0.23	Other	0
60	6126.00	0.62	301.43	94.00	6124.61	-3.38	-6.52	-61.96	62.3	263.99	0.70	Other	0
61	6221.00	0.88	328.63	95.00	6219.60	-2.45	-5.63	-62.77	63.03	264.88	0.46	Other	0
62	6315.00	1.32	303.96	94.00	6313.59	-1.16	-4.41	-64.05	64.2	266.07	0.68	Other	0
63	6460.00	1.80	310.00	145.00	6458.53	1.39	-2.01	-67.18	67.21	268.29	0.35	Other	0
64	6505.00	1.80	315.62	45.00	6503.51	2.40	-1.05	-68.21	68.22	269.12	0.39	Other	0
65	6600.00	1.58	306.61	95.00	6598.47	4.35	0.80	-70.31	70.31	270.65	0.36	Other	0
66	6695.00	1.58	293.12	95.00	6693.43	5.76	2.09	-72.56	72.59	271.65	0.39	Other	0
67	6727.00	1.53	283.50	32.00	6725.42	6.07	2.37	-73.38	73.42	271.85	0.83	SlimPulse	0
68	6772.00	4.19	292.87	45.00	6770.36	6.96	3.15	-75.48	75.55	272.39	5.99	SlimPulse	1
69	6822.00	9.40	291.91	50.00	6819.99	9.46	5.38	-80.96	81.14	273.80	10.42	SlimPulse	1
70	6869.00	15.07	292.45	47.00	6865.91	13.69	9.15	-90.17	90.64	275.79	12.07	SlimPulse	1
71	6916.00	20.12	295.96	47.00	6910.70	20.21	15.03	-103.10	104.19	278.29	10.97	SlimPulse	1
72	6968.00	25.48	299.61	52.00	6958.62	30.55	24.47	-120.88	123.33	281.45	10.66	SlimPulse	1
73	7010.00	30.18	303.26	42.00	6995.75	41.64	34.73	-137.57	141.89	284.17	11.90	SlimPulse	1
74	7057.00	34.87	306.64	47.00	7035.37	57.17	49.24	-158.24	165.73	287.28	10.70	SlimPulse	1
75	7105.00	38.70	307.12	48.00	7073.81	75.56	66.49	-181.23	193.04	290.15	8.00	SlimPulse	1
76	7152.00	43.68	307.63	47.00	7109.17	95.57	85.28	-205.81	222.78	292.51	10.62	SlimPulse	1
77	7199.00	48.62	309.50	47.00	7141.72	118.02	106.42	-232.29	255.5	294.61	10.89	SlimPulse	1
78	7293.00	56.64	317.30	94.00	7198.78	172.10	157.83	-286.26	326.89	298.87	10.77	SlimPulse	1
79	7388.00	62.74	328.71	95.00	7246.82	239.95	223.30	-335.26	402.82	303.66	12.18	SlimPulse	1
80	7482.00	71.05	338.60	94.00	7283.75	319.16	300.69	-373.33	479.36	308.85	13.10	SlimPulse	1
81	7577.00	76.81	349.70	95.00	7310.12	407.96	388.34	-398.08	556.13	314.29	12.75	SlimPulse	1
82	7671.00	79.80	1.24	94.00	7329.23	499.79	479.93	-405.29	628.17	319.82	12.43	SlimPulse	1
83	7765.00	81.43	7.53	94.00	7344.57	591.73	572.35	-398.19	697.24	325.17	6.83	SlimPulse	1
84	7882.00	83.35	5.40	117.00	7360.07	706.15	687.57	-385.14	788.09	330.74	2.44	SlimPulse	0
85	7976.00	86.14	3.87	94.00	7368.68	798.93	780.85	-377.58	867.35	334.19	3.39	SlimPulse	0

86	8070.00	86.28	2.38	94.00	7374.88	892.21	874.51	-372.47	950.52	336.93	1.59	SlimPulse	0
87	8165.00	86.08	1.99	95.00	7381.21	986.63	969.23	-368.85	1037.04	339.16	0.46	SlimPulse	0
88	8259.00	87.49	3.01	94.00	7386.48	1080.06	1062.99	-364.76	1123.83	341.06	1.85	SlimPulse	0
89	8354.00	86.73	2.72	95.00	7391.28	1174.46	1157.75	-360.01	1212.43	342.73	0.85	SlimPulse	0
90	8449.00	85.97	3.28	95.00	7397.32	1268.76	1252.42	-355.05	1301.78	344.17	0.99	SlimPulse	0
91	8543.00	86.49	2.90	94.00	7403.50	1362.05	1346.08	-350.00	1390.84	345.43	0.68	SlimPulse	0
92	8637.00	86.36	1.60	94.00	7409.36	1455.48	1439.82	-346.31	1480.89	346.48	1.39	SlimPulse	0
93	8732.00	87.45	1.80	95.00	7414.50	1550.04	1534.64	-343.50	1572.61	347.38	1.18	SlimPulse	0
94	8826.00	88.66	0.64	94.00	7417.68	1643.74	1628.56	-341.49	1663.98	348.16	1.79	SlimPulse	0
95	8920.00	89.28	1.30	94.00	7419.38	1737.51	1722.53	-339.91	1755.75	348.84	0.96	SlimPulse	0
96	9015.00	89.17	1.15	95.00	7420.66	1832.25	1817.50	-337.88	1848.64	349.47	0.19	SlimPulse	0
97	9109.00	89.38	1.58	94.00	7421.84	1925.99	1911.47	-335.63	1940.71	350.04	0.50	SlimPulse	0
98	9204.00	89.00	0.58	95.00	7423.18	2020.75	2006.44	-333.84	2034.02	350.55	1.12	SlimPulse	0
99	9298.00	90.62	0.69	94.00	7423.49	2114.56	2100.43	-332.80	2126.63	351.00	1.72	SlimPulse	0
100	9393.00	90.52	359.70	95.00	7422.55	2209.42	2195.43	-332.48	2220.46	351.39	1.05	SlimPulse	0
101	9487.00	90.58	359.06	94.00	7421.65	2303.34	2289.42	-333.49	2313.58	351.71	0.68	SlimPulse	0
102	9582.00	90.24	358.57	95.00	7420.97	2398.30	2384.39	-335.45	2407.87	351.99	0.63	SlimPulse	0
103	9676.00	90.79	358.03	94.00	7420.12	2492.27	2478.35	-338.24	2501.32	352.23	0.82	SlimPulse	0
104	9770.00	90.83	359.50	94.00	7418.80	2586.22	2572.31	-340.26	2594.72	352.46	1.56	SlimPulse	0
105	9864.00	90.27	359.73	94.00	7417.89	2680.12	2666.31	-340.90	2688.01	352.71	0.63	SlimPulse	0
106	9959.00	91.51	359.87	95.00	7416.41	2775.01	2761.29	-341.23	2782.3	352.96	1.31	SlimPulse	0
107	10053.00	91.31	0.58	94.00	7414.10	2868.84	2855.26	-340.86	2875.54	353.19	0.79	SlimPulse	0
108	10148.00	91.55	0.82	95.00	7411.73	2963.62	2950.23	-339.70	2969.72	353.43	0.35	SlimPulse	0
109	10242.00	90.72	359.60	94.00	7409.87	3057.46	3044.20	-339.35	3063.06	353.64	1.56	SlimPulse	0
110	10336.00	91.93	359.38	94.00	7407.70	3151.35	3138.17	-340.19	3156.56	353.81	1.30	SlimPulse	0
111	10431.00	90.76	359.00	95.00	7405.47	3246.26	3233.14	-341.54	3251.13	353.97	1.29	SlimPulse	0
112	10525.00	90.62	359.62	94.00	7404.34	3340.19	3327.12	-342.67	3344.72	354.12	0.68	SlimPulse	0
113	10620.00	90.72	359.83	95.00	7403.23	3435.08	3422.11	-343.13	3439.27	354.27	0.24	SlimPulse	0
114	10714.00	90.86	1.22	94.00	7401.93	3528.90	3516.10	-342.26	3532.72	354.44	1.49	SlimPulse	0
115	10809.00	91.89	0.88	95.00	7399.65	3623.65	3611.05	-340.52	3627.07	354.61	1.14	SlimPulse	0
116	10903.00	91.58	359.69	94.00	7396.80	3717.46	3705.01	-340.05	3720.58	354.76	1.31	SlimPulse	0
117	10998.00	89.97	358.12	95.00	7395.52	3812.39	3799.98	-341.86	3815.32	354.86	2.37	SlimPulse	0
118	11092.00	89.66	358.86	94.00	7395.83	3906.37	3893.94	-344.33	3909.14	354.95	0.85	SlimPulse	0
119	11187.00	89.93	359.31	95.00	7396.17	4001.31	3988.93	-345.85	4003.89	355.04	0.56	SlimPulse	0
120	11281.00	89.31	359.91	94.00	7396.79	4095.21	4082.92	-346.49	4097.6	355.15	0.92	SlimPulse	0
121	11376.00	88.62	0.07	95.00	7398.50	4190.08	4177.91	-346.50	4192.25	355.26	0.74	SlimPulse	0
122	11470.00	88.59	0.60	94.00	7400.79	4283.90	4271.88	-345.95	4285.86	355.37	0.56	SlimPulse	0
123	11564.00	87.87	0.80	94.00	7403.69	4377.67	4365.83	-344.80	4379.42	355.48	0.79	SlimPulse	0
124	11659.00	86.25	1.38	95.00	7408.57	4472.31	4460.68	-343.00	4473.85	355.60	1.81	SlimPulse	0
125	11755.00	86.52	1.87	96.00	7414.62	4567.82	4556.45	-340.28	4569.14	355.73	0.59	SlimPulse	0
126	11849.00	88.38	2.48	94.00	7418.80	4661.36	4650.28	-336.72	4662.46	355.86	2.08	SlimPulse	0
127	11943.00	90.10	2.72	94.00	7420.04	4754.91	4744.18	-332.46	4755.81	355.99	1.85	SlimPulse	0
128	12037.00	91.89	2.43	94.00	7418.40	4848.47	4838.06	-328.23	4849.18	356.12	1.93	SlimPulse	0
129	12131.00	92.10	2.61	94.00	7415.13	4941.99	4931.91	-324.10	4942.55	356.24	0.29	SlimPulse	0
130	12226.00	92.65	2.67	95.00	7411.20	5036.47	5026.73	-319.74	5036.89	356.36	0.58	SlimPulse	0
131	12320.00	92.58	2.01	94.00	7406.91	5129.98	5120.56	-315.91	5130.29	356.47	0.71	SlimPulse	0
132	12415.00	92.48	359.01	95.00	7402.72	5224.71	5215.45	-315.07	5224.96	356.54	3.16	SlimPulse	0
133	12509.00	91.89	0.02	94.00	7399.13	5318.55	5309.38	-315.87	5318.76	356.60	1.24	SlimPulse	0
134	12603.00	91.34	1.40	94.00	7396.48	5412.33	5403.33	-314.70	5412.48	356.67	1.59	SlimPulse	0
135	12698.00	91.00	2.88	95.00	7394.54	5506.94	5498.24	-311.15	5507.04	356.76	1.59	SlimPulse	0
136	12792.00	91.34	2.32	94.00	7392.62	5600.49	5592.12	-306.89	5600.54	356.86	0.70	SlimPulse	0
137	12886.00	90.96	359.28	94.00	7390.73	5694.26	5686.08	-305.58	5694.29	356.92	3.26	SlimPulse	0
138	12981.00	90.72	357.20	95.00	7389.34	5789.23	5781.02	-308.50	5789.25	356.95	2.20	SlimPulse	0
139	13075.00	91.20	356.17	94.00	7387.76	5883.21	5874.85	-313.94	5883.23	356.94	1.21	SlimPulse	0
140	13170.00	91.17	355.81	95.00	7385.79	5978.17	5969.60	-320.58	5978.2	356.93	0.37	SlimPulse	0
141	13264.00	91.13	355.37	94.00	7383.90	6072.12	6063.30	-327.81	6072.15	356.91	0.48	SlimPulse	0
142	13359.00	91.44	355.24	95.00	7381.76	6167.05	6157.96	-335.58	6167.09	356.88	0.35	SlimPulse	0
143	13453.00	91.44	356.10	94.00	7379.39	6260.99	6251.66	-342.68	6261.04	356.86	0.91	SlimPulse	0
144	13547.00	92.27	357.03	94.00	7376.34	6354.93	6345.44	-348.31	6354.99	356.86	1.32	SlimPulse	0
145	13641.00	92.72	357.75	94.00	7372.25	6448.84	6439.25	-352.59	6448.9	356.87	0.91	SlimPulse	0
146	13736.00	92.30	357.52	95.00	7368.09	6543.74	6534.08	-356.50	6543.8	356.88	0.50	SlimPulse	0
147	13830.00	91.38	357.32	94.00	7365.07	6637.69	6627.93	-360.73	6637.74	356.88	1.01	SlimPulse	0
148	13924.00	90.24	356.58	94.00	7363.75	6731.68	6721.79	-365.73	6731.73	356.89	1.44	SlimPulse	0
149	13938.00	90.07	356.71	14.00	7363.71	6745.68	6735.76	-366.55	6745.73	356.89	1.52	SlimPulse	0
150	14011.00	90.07	356.71	73.00	7363.62	6818.68	6808.64	-370.74	6818.73	356.88	0.00	PROJ	7