Results of Directional Survey

API number:	30-025-40665				
OGRID:		Operator:	CIMAREX ENERGY CO.		
		Property:	TRISTE DRAW;[illegible] 36 STATE		# 2H

surface	ULSTR:	D	36	T	23S	R	32E
				150	FNL	1261	FWL
BH Loc	ULSTR:	M	36	T	23S	R	32E
13691	MD	9848.8	TVD	1044	FSL	1159	FWL
				4236	FNL		

Top Perf/OH	ULSTR:	D	36	T	23S	R	32E
9475	MD	9471.2	TVD	200	FNL	1241	FWL

Bot Perf/OH	ULSTR:	M	36	T	23S	R	32E
13655	MD	9847.2	TVD	1080	FSL	1160	FWL
				4200	FNL		

	MD	N/S	E/W	VD
	9453	-42.52	-20.37	9450.48
TOP PERFS/OH	**9475**	-49.85	-20.45	9471.22
	9485	-53.18	-20.48	9480.65
	13639	-4033.73	-101.43	9846.50
BOT PERFS/OH	**13655**	-4049.71	-101.47	9847.21
	13691	-4085.68	-101.56	9848.81

NEXT TO LAST	13639	-4033.73	-101.43	9846.50
LAST READING	13691	-4085.68	-101.56	9848.81
TD	**13691**	-4085.68	-101.56	9848.81

Surface Location	150	FN	1261	FW
Projected BHL	4236	FN	1159	FW
Location of				
Top Perfs/OH	200	FN	1241	FW
Bottom Perfs/OH	4200	FN	1160	FW

SUMMARY of Subsurface Locations

Surface Location	D-36-23S-32E	150	FN	1261	FW	Vert. Depth
Top Perfs/OH	D-36-23S-32E	200	FN	1241	FW	9471.22
Bottom Perfs/OH	M-36-23S-32E	4200	FN	1160	FW	9847.21
Projected TD	M-36-23S-32E	4236	FN	1159	FW	9848.81

JUN 26 2014

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

PATHFINDER
A Schlumberger Company

March 5, 2014

HOBBS OCD

JUN 09 2014

RECEIVED

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND ,TX 79701

D-S36-T23S-R32E 150 FNL 1261 FWL
N 32.26806 W 103.63277

Re:

CLIENT:	Cimarex Energy Co.
WELL:	Triste Draw 36 State 2H
FIELD:	Triste Draw: Bone Spring
RIG:	Cactus 104
COUNTY:	Lea
API NO:	30-025-40665
JOB NO:	14MLD0058

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Brandon Chandler MWD	Triste Draw 36 State 2H Original Hole	9358.00 Ft to 13639.00 Ft	February 4, 2014 to March 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

Oilfield Services, Central U.S. Land

PATHFINDER
A Schlumberger Company

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

Well Reference:
D-S36-T23S-R32E 150 FNL 1261 FWL
N 32.26806 W 103.63277

I, Brandon Chandler certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 04, 2014 through March 01, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 9358.00 feet to a depth of 13639.00 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 Triste Draw 36 State 2H Well (Original Hole) API No. 30-025-40665 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
Brandon Chandler
MWD

Subscribed and Sworn to before me this 6th day of March (month) 2014 (yr)

My Commission expires:
September 5, 2016

MICHELLE ELLWOOD
MY COMMISSION EXPIRES
September 5, 2016

Michelle Ellwood
(signature)
Notary Public

Midland, TX
(County State)

SCHLUMBERGER
Survey Report

17-Mar-2014

Client.....: Cimarex Energy Co.
Field.....: Triste Draw: Bone Spring

Well.....: Triste Draw 36 State 2H
API number.....: 30-025-40665
Engineer.....: Brandon Chandler

County:.....: Lea
State:.....: New Mexico
Rig:.....: Cactus 104

Spud date.....: 23-Jan-14
Last survey date.....: 1-Mar-14
Total accepted surveys...: 63
MD of first survey.....: 9358.00 ft
MD of last survey.....: 13639.00 ft

Latitude.....: 32° 16' 4.933" N
Longitude...: 103° 37' 56.122" 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.....: 3688.00
KB above permanent.....: 3708.00
DF above permanent.....: 3708.00

---- 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.....: 758030.80 ft
Y.....: 461952.70 ft

Azimuth from Vsect Origin to target: 181.34 degrees

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

----Run1---- Calculation Date: 2-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48352.26 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1379 degrees | Tolerance Dip: 0.45 degrees

----Run2---- Calculation Date: 4-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48351.62 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1377 degrees | Tolerance Dip: 0.45 degrees

----Run3---- Calculation Date: 6-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48350.98 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1375 degrees | Tolerance Dip: 0.45 degrees

----Run4---- Calculation Date: 9-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48350.03 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1373 degrees | Tolerance Dip: 0.45 degrees

----Run5---- Calculation Date: 10-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48349.71 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1372 degrees | Tolerance Dip: 0.45 degrees

----Run6---- Calculation Date: 11-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48349.39 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1371 degrees | Tolerance Dip: 0.45 degrees

----Run7---- Calculation Date: 13-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48348.75 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1369 degrees | Tolerance Dip: 0.45 degrees

----Run8---- Calculation Date: 15-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48348.11 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1368 degrees | Tolerance Dip: 0.45 degrees

----Run9---- Calculation Date: 16-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48347.8 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1367 degrees | Tolerance Dip: 0.45 degrees

----Run10---- Calculation Date: 19-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48346.84 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1364 degrees | Tolerance Dip: 0.45 degrees

----Run11---- Calculation Date: 20-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48346.52 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1364 degrees | Tolerance Dip: 0.45 degrees

----Run12---- Calculation Date: 23-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48345.56 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1361 degrees | Tolerance Dip: 0.45 degrees

----Run13---- Calculation Date: 25-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48344.93 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1359 degrees | Tolerance Dip: 0.45 degrees

----Run14---- Calculation Date: 27-Feb-2014
Location G...: 998.9432 mgn | Tolerance G...: 2.50 mgn
Location B...: 48344.29 nT | Tolerance B...: 300.00 nT
Magnetic Dip: 60.1358 degrees | Tolerance Dip: 0.45 degrees

BGGM Model: 2013

----Run1----
Magnetic dec (+E/W-)...: 7.404 degrees
Grid Conv (+E/W-).....: 0.374 degrees
Total Azim Corr (+E/W-).: 7.03 degrees

——Run2——
Magnetic dec (+E/W-).....: 7.4034 degrees
Grid Conv (+E/W-).....: 0.3734 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run3——
Magnetic dec (+E/W-).....: 7.4027 degrees
Grid Conv (+E/W-).....: 0.3727 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run4——
Magnetic dec (+E/W-).....: 7.4018 degrees
Grid Conv (+E/W-).....: 0.3718 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run5——
Magnetic dec (+E/W-).....: 7.4015 degrees
Grid Conv (+E/W-).....: 0.3715 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run6——
Magnetic dec (+E/W-).....: 7.4012 degrees
Grid Conv (+E/W-).....: 0.3712 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run7——
Magnetic dec (+E/W-).....: 7.4006 degrees
Grid Conv (+E/W-).....: 0.3706 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run8——
Magnetic dec (+E/W-).....: 7.4 degrees
Grid Conv (+E/W-).....: 0.37 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run9——
Magnetic dec (+E/W-).....: 7.3997 degrees
Grid Conv (+E/W-).....: 0.3697 degrees
Total Azim Corr (+E/W-)..: 7.03 degrees

——Run10——
Magnetic dec (+E/W-).....: 7.3988 degrees
Grid Conv (+E/W-).....: 0.3788 degrees
Total Azim Corr (+E/W-)..: 7.02 degrees

——Run11——
Magnetic dec (+E/W-).....: 7.3985 degrees
Grid Conv (+E/W-).....: 0.3785 degrees
Total Azim Corr (+E/W-)..: 7.02 degrees

——Run12——
Magnetic dec (+E/W-).....: 7.3976 degrees
Grid Conv (+E/W-).....: 0.3776 degrees
Total Azim Corr (+E/W-)..: 7.02 degrees

——Run13——
Magnetic dec (+E/W-).....: 7.3969 degrees
Grid Conv (+E/W-).....: 0.3769 degrees
Total Azim Corr (+E/W-)..: 7.02 degrees

——Run14——
Magnetic dec (+E/W-).....: 7.3963 degrees
Grid Conv (+E/W-).....: 0.3763 degrees
Total Azim Corr (+E/W-)..: 7.02 degrees

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

Survey List

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
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	134.72	0.22	100.64	134.72	134.72	0.04	-0.05	0.25	0.26	100.64	0.16	SingleShot	0
3	233.64	0.09	62.67	98.92	233.64	0.04	-0.05	0.51	0.51	95.28	0.16	SingleShot	0
4	328.49	0.31	56.65	94.85	328.49	-0.15	0.13	0.79	0.8	80.79	0.23	SingleShot	0
5	445.40	0.40	69.57	116.91	445.40	-0.48	0.44	1.44	1.5	72.81	0.10	SingleShot	0
6	531.64	0.31	90.18	86.24	531.63	-0.59	0.55	1.95	2.03	74.30	0.18	SingleShot	0
7	656.63	0.31	104.86	124.99	656.62	-0.52	0.46	2.62	2.66	80.01	0.06	SingleShot	0
8	752.77	0.40	97.48	96.14	752.76	-0.43	0.35	3.20	3.22	83.75	0.10	SingleShot	0
9	846.00	0.31	109.87	93.23	845.99	-0.31	0.22	3.76	3.77	86.61	0.13	SingleShot	0
10	942.91	0.31	127.75	96.91	942.90	-0.07	-0.03	4.22	4.22	90.37	0.10	SingleShot	0
11	1037.96	0.31	121.86	95.05	1037.95	0.21	-0.32	4.64	4.65	93.95	0.03	SingleShot	0
12	1134.03	0.22	114.57	96.07	1134.02	0.42	-0.53	5.03	5.05	96.07	0.10	SingleShot	0
13	1257.68	0.22	160.45	123.65	1257.66	0.73	-0.86	5.32	5.39	99.14	0.14	SingleShot	0
14	1317.30	0.09	143.88	59.62	1317.28	0.88	-1.00	5.39	5.48	100.54	0.23	SingleShot	0
15	1413.57	0.22	158.95	96.27	1413.55	1.11	-1.24	5.50	5.63	102.67	0.14	SingleShot	0
16	1508.37	0.22	144.67	94.80	1508.35	1.42	-1.55	5.67	5.88	105.33	0.06	SingleShot	0
17	1602.53	0.22	141.24	94.16	1602.51	1.70	-1.84	5.89	6.17	107.38	0.01	SingleShot	0
18	1697.72	0.31	150.56	95.19	1697.70	2.07	-2.21	6.13	6.51	109.83	0.10	SingleShot	0
19	1792.91	0.31	119.58	95.19	1792.89	2.41	-2.56	6.48	6.97	111.57	0.17	SingleShot	0
20	1888.11	0.22	151.04	95.20	1888.09	2.69	-2.85	6.79	7.36	112.75	0.18	SingleShot	0
21	1983.17	0.22	167.35	95.06	1983.15	3.02	-3.19	6.92	7.62	114.72	0.07	SingleShot	0
22	2077.58	0.31	163.57	94.41	2077.56	3.44	-3.61	7.03	7.9	117.16	0.10	SingleShot	0
23	2172.25	0.22	183.56	94.67	2172.23	3.87	-4.03	7.09	8.16	119.64	0.13	SingleShot	0
24	2266.75	0.09	63.94	94.50	2266.73	4.01	-4.18	7.15	8.28	120.34	0.29	SingleShot	0
25	2361.65	0.09	358.16	94.90	2361.63	3.91	-4.08	7.21	8.28	119.47	0.10	SingleShot	0
26	2457.74	0.22	218.46	96.09	2457.72	3.98	-4.14	7.09	8.22	120.30	0.31	SingleShot	0
27	2552.20	0.09	82.97	94.46	2552.18	4.11	-4.28	7.05	8.25	121.23	0.31	SingleShot	0
28	2647.14	0.22	162.75	94.94	2647.12	4.13	-4.29	6.95	8.17	121.70	0.33	SingleShot	0
29	2741.64	0.09	333.86	94.50	2741.62	4.09	-4.25	6.74	7.96	122.24	0.22	SingleShot	0
30	2837.41	0.22	49.75	95.77	2837.39	3.90	-4.06	6.84	7.96	120.69	0.23	SingleShot	0
31	2933.10	0.09	205.67	95.69	2933.08	3.85	-4.01	6.95	8.02	119.99	0.32	SingleShot	0
32	3028.85	0.09	207.87	95.75	3028.82	3.98	-4.14	6.88	8.03	121.06	0.00	SingleShot	0
33	3124.02	0.09	125.64	95.17	3123.99	4.09	-4.25	6.91	8.11	121.63	0.12	SingleShot	0
34	3219.16	0.09	87.68	95.14	3219.13	4.13	-4.29	7.04	8.25	121.37	0.06	SingleShot	0
35	3314.99	0.00	316.85	95.83	3314.96	4.12	-4.29	7.12	8.31	121.08	0.09	SingleShot	0
36	3409.74	0.00	351.48	94.75	3409.71	4.12	-4.29	7.12	8.31	121.08	0.00	SingleShot	0
37	3503.74	0.22	59.77	94.00	3503.71	4.03	-4.20	7.27	8.4	120.00	0.23	SingleShot	0
38	3598.73	0.31	14.64	94.99	3598.70	3.68	-3.86	7.50	8.43	117.24	0.23	SingleShot	0
39	3693.38	0.40	43.38	94.65	3693.35	3.19	-3.37	7.79	8.49	113.41	0.21	SingleShot	0
40	3788.97	0.22	64.78	95.54	3788.89	2.86	-3.05	8.18	8.73	110.45	0.22	SingleShot	0
41	3883.15	0.31	29.98	94.23	3883.12	2.56	-2.75	8.48	8.91	108.00	0.19	SingleShot	0

42	3979.18	0.40	71.24	96.03	3979.15	2.21	-2.42	8.92	9.24	105.18	0.27	SingleShot	0
43	4072.65	0.22	27.78	93.47	4072.62	1.94	-2.16	9.31	9.56	103.04	0.30	SingleShot	0
44	4167.72	0.40	27.87	95.07	4167.68	1.48	-1.70	9.56	9.71	100.10	0.19	SingleShot	0
45	4264.02	0.31	57.57	96.30	4263.98	1.03	-1.27	9.93	10.01	97.26	0.21	SingleShot	0
46	4358.40	0.48	71.37	94.38	4358.36	0.76	-1.00	10.52	10.57	95.44	0.21	SingleShot	0
47	4453.57	0.79	88.07	95.17	4453.53	0.58	-0.85	11.56	11.59	94.22	0.36	SingleShot	0
48	4548.56	0.70	85.48	94.99	4548.51	0.49	-0.79	12.79	12.81	93.51	0.10	SingleShot	0
49	4644.08	0.79	87.68	95.52	4644.02	0.38	-0.71	14.03	14.05	92.91	0.10	SingleShot	0
50	4739.17	1.19	103.06	95.09	4739.09	0.54	-0.91	15.65	15.67	93.33	0.50	SingleShot	0
51	4813.43	1.32	103.54	74.26	4813.34	0.88	-1.28	17.23	17.28	94.26	0.18	SingleShot	0
52	4917.75	1.19	96.55	104.32	4917.63	1.23	-1.69	19.47	19.55	94.96	0.19	SingleShot	0
53	5011.81	0.88	96.38	94.06	5011.68	1.39	-1.88	21.16	21.24	95.08	0.33	SingleShot	0
54	5108.76	0.88	99.06	96.45	5108.12	1.55	-2.08	22.63	22.72	95.25	0.04	SingleShot	0
55	5202.52	0.88	97.65	94.26	5202.36	1.73	-2.29	24.06	24.17	95.44	0.02	SingleShot	0
56	5297.22	0.88	104.64	94.70	5297.05	1.97	-2.57	25.48	25.61	95.76	0.11	SingleShot	0
57	5391.83	0.79	110.88	94.61	5391.65	2.16	-2.99	26.80	26.96	96.36	0.14	SingleShot	0
58	5486.85	0.22	47.64	94.52	5486.17	2.45	-3.10	27.54	27.71	96.42	0.76	SingleShot	0
59	5581.49	0.88	275.15	95.14	5581.31	2.28	-2.91	26.95	27.1	96.16	1.09	SingleShot	0
60	5676.02	1.19	281.34	94.53	5675.82	2.06	-2.65	25.26	25.4	95.99	0.35	SingleShot	0
61	5771.48	1.32	281.17	95.46	5771.26	1.70	-2.24	23.21	23.32	95.52	0.14	SingleShot	0
62	5866.70	1.41	276.38	95.22	5866.45	1.41	-1.90	20.97	21.06	95.17	0.15	SingleShot	0
63	5961.74	1.32	269.74	95.04	5961.46	1.34	-1.77	18.71	18.8	95.42	0.19	SingleShot	0
64	6056.01	1.32	259.55	94.27	6055.71	1.59	-1.98	16.56	16.68	98.80	0.25	SingleShot	0
65	6151.49	1.32	260.78	93.48	6151.16	2.01	-2.35	14.39	14.58	99.28	0.03	SingleShot	0
66	6246.14	1.19	259.85	94.65	6245.79	2.41	-2.70	12.35	12.64	102.33	0.14	SingleShot	0
67	6341.33	1.32	254.05	95.19	6340.96	2.93	-3.18	10.32	10.8	107.10	0.19	SingleShot	0
68	6436.97	0.62	247.15	93.64	6436.58	3.47	-3.68	8.79	9.53	112.72	0.74	SingleShot	0
69	6530.82	0.48	262.36	93.85	6530.43	3.74	-3.93	7.93	8.85	116.35	0.21	SingleShot	0
70	6625.84	0.62	274.97	95.02	6625.44	3.77	-3.94	7.02	8.05	119.27	0.19	SingleShot	0
71	6721.59	0.62	282.05	95.75	6721.19	3.64	-3.78	6.00	7.09	122.24	0.08	SingleShot	0
72	6817.67	0.62	270.36	96.08	6817.26	3.55	-3.67	4.97	6.18	126.45	0.13	SingleShot	0
73	6912.36	0.48	267.68	94.69	6911.95	3.59	-3.68	4.06	5.48	132.21	0.15	SingleShot	0
74	7007.82	0.40	280.46	95.46	7007.41	3.56	-3.64	3.34	4.94	137.50	0.13	SingleShot	0
75	7104.01	0.22	278.05	96.19	7103.59	3.49	-3.55	2.82	4.54	141.54	0.19	SingleShot	0
76	7197.02	0.22	52.96	93.01	7196.60	3.35	-3.42	2.79	4.41	140.82	0.44	SingleShot	0
77	7291.93	0.62	206.94	94.91	7291.51	3.70	-3.77	2.70	4.64	144.37	0.87	SingleShot	0
78	7386.27	0.40	143.88	94.34	7385.85	4.43	-4.49	2.66	5.22	149.32	0.60	SingleShot	0
79	7481.73	0.40	132.85	95.46	7481.31	4.91	-4.99	3.10	5.87	148.09	0.08	SingleShot	0
80	7576.21	0.48	142.87	94.48	7575.78	5.44	-5.53	3.59	6.59	147.02	0.12	SingleShot	0
81	7671.53	0.70	162.95	95.32	7671.10	6.31	-6.40	4.00	7.55	148.02	0.31	SingleShot	0
82	7766.28	0.79	165.68	94.75	7765.84	7.48	-7.59	4.33	8.73	150.29	0.10	SingleShot	0
83	7861.63	0.79	183.17	95.35	7861.18	8.77	-8.88	4.45	9.93	153.36	0.25	SingleShot	0
84	7957.11	0.88	197.28	95.48	7956.65	10.14	-10.24	4.20	11.07	157.69	0.23	SingleShot	0
85	8052.55	0.88	198.94	95.44	8052.08	11.54	-11.63	3.74	12.22	162.15	0.03	SingleShot	0
86	8148.04	0.88	203.95	95.49	8147.56	12.92	-12.99	3.21	13.36	166.13	0.08	SingleShot	0
87	8241.57	1.01	208.04	93.53	8241.08	14.31	-14.38	2.53	14.6	170.02	0.16	SingleShot	0
88	8336.46	1.19	212.04	94.89	8335.95	15.91	-15.95	1.61	16.03	174.72	0.21	SingleShot	0
89	8433.26	1.19	218.54	96.80	8432.73	17.57	-17.59	0.45	17.6	178.52	0.14	SingleShot	0
90	8526.71	1.32	222.15	93.45	8526.16	19.16	-19.15	-0.87	19.17	182.61	0.16	SingleShot	0
91	8622.95	1.58	226.28	96.24	8622.37	20.94	-20.89	-2.58	21.04	187.03	0.29	SingleShot	0
92	8716.40	1.58	223.16	93.45	8715.78	22.81	-22.72	-4.39	23.14	190.93	0.09	SingleShot	0
93	8812.65	1.71	250.76	96.25	8811.99	24.31	-24.16	-6.65	25.06	195.39	0.83	SingleShot	0
94	8906.60	1.58	264.64	93.95	8905.90	24.95	-24.74	-9.26	26.42	200.53	0.44	SingleShot	0
95	9002.01	1.32	278.75	95.41	9001.28	24.98	-24.70	-11.66	27.31	205.27	0.46	SingleShot	0
96	9097.11	1.10	292.07	95.10	9096.36	24.50	-24.19	-13.59	27.74	209.33	0.37	SingleShot	0
97	9191.93	1.10	280.95	94.82	9191.17	24.02	-23.67	-15.83	28.2	212.92	0.22	SingleShot	0
98	9245.29	1.32	259.55	53.36	9244.51	24.06	-23.68	-18.43	28.83	214.75	0.93	SingleShot	0
99	9358.00	2.83	206.60	112.71	9357.16	26.84	-26.41	-18.95	32.5	215.67	2.04	SlimPulse	0
100	9392.00	7.48	188.67	34.00	9391.01	29.80	-29.35	-19.66	35.32	213.82	14.32	SlimPulse	0
101	9422.00	12.44	183.69	30.00	9420.55	34.97	-34.50	-20.17	39.97	210.30	16.76	SlimPulse	0
102	9453.00	17.59	179.87	31.00	9450.48	42.99	-42.52	-20.37	47.15	205.60	16.89	SlimPulse	0
103	9485.00	21.32	181.16	32.00	9480.65	53.64	-53.18	-20.48	56.98	201.06	11.74	SlimPulse	0
104	9517.00	23.34	181.70	32.00	9510.25	65.80	-65.33	-20.78	68.56	197.65	6.37	SlimPulse	0
105	9548.00	25.64	184.49	31.00	9538.46	78.64	-78.16	-21.49	81.06	195.37	8.31	SlimPulse	0
106	9580.00	28.08	185.32	32.00	9567.00	93.07	-92.56	-22.73	95.32	193.80	7.71	SlimPulse	0
107	9612.00	30.15	185.24	32.00	9594.96	108.60	-108.07	-24.17	110.74	192.61	6.47	SlimPulse	0
108	9644.00	32.26	186.13	32.00	9622.33	125.13	-124.56	-25.81	127.21	191.71	6.74	SlimPulse	0
109	9675.00	35.33	186.39	31.00	9648.09	142.31	-141.70	-27.70	144.38	191.06	9.93	SlimPulse	0
110	9707.00	39.02	184.46	32.00	9673.58	161.59	-160.95	-29.51	163.63	190.39	12.08	SlimPulse	0
111	9738.00	42.76	182.64	31.00	9697.01	181.87	-181.20	-30.76	183.79	189.63	12.66	SlimPulse	0
112	9770.00	47.43	181.69	32.00	9719.60	204.52	-203.84	-31.60	206.27	188.81	14.76	SlimPulse	0
113	9801.00	52.39	181.15	31.00	9739.55	228.23	-227.54	-32.19	229.81	188.05	16.06	SlimPulse	0
114	9833.00	56.01	179.33	32.00	9758.27	254.17	-253.49	-32.29	255.54	187.26	12.21	SlimPulse	0
115	9865.00	59.09	178.10	32.00	9775.44	281.14	-280.48	-31.68	282.26	186.44	10.16	SlimPulse	0
116	9896.00	61.36	178.54	31.00	9790.83	308.01	-307.37	-30.89	308.92	185.74	7.41	SlimPulse	0
117	9928.00	63.33	178.98	32.00	9805.68	336.33	-335.71	-30.28	337.07	185.15	6.28	SlimPulse	0
118	9960.00	67.49	179.85	32.00	9819.00	365.40	-364.80	-29.98	366.03	184.70	13.22	SlimPulse	0
119	9992.00	71.20	181.54	32.00	9830.29	395.33	-394.73	-30.35	395.9	184.40	12.60	SlimPulse	0
120	10023.00	76.07	181.99	31.00	9839.02	425.07	-424.45	-31.27	425.6	184.21	15.78	SlimPulse	0
121	10055.00	81.82	181.76	32.00	9845.15	456.46	-455.83	-32.29	456.97	184.05	17.99	SlimPulse	0
122	10087.00	88.31	180.92	32.00	9847.90	488.32	-487.69	-33.04	488.8	183.88	20.45	SlimPulse	0
123	10118.00	91.93	181.27	31.00	9847.84	519.32	-518.67	-33.63	519.76	183.71	11.71	SlimPulse	0
124	10197.00	94.16	182.50	79.00	9843.64	598.20	-597.51	-36.23	598.61	183.47	3.23	SlimPulse	0
125	10292.00	93.86	182.49	95.00	9836.99	692.95	-692.19	-40.36	693.37	183.34	0.32	SlimPulse	0
126	10387.00	93.37	182.87	95.00	9831.00	787.73	-786.90	-44.80	788.17	183.26	0.65	SlimPulse	0
127	10482.00	93.34	182.84	95.00	9825.44	882.53	-881.62	-49.53	883.01	183.22	0.05	SlimPulse	0
128	10578.00	93.30	182.27	96.00	9819.88	978.35	-977.36	-53.80	978.84	183.15	0.59	SlimPulse	0
129	10673.00	93.30	182.14	95.00	9814.41	1073.18	-1072.13	-57.46	1073.67	183.07	0.14	SlimPulse	0
130	10768.00	93.30	181.60	95.00	9808.93	1168.07	-1166.92	-60.55	1168.49	182.97	0.58	SlimPulse	0
131	10863.00	93.18	181.39	95.00	9803.58	1262.87	-1261.74	-63.02	1263.31	182.86	0.26	SlimPulse	0
132	10959.00	92.65	180.88	96.00	9798.71	1358.74	-1357.60	-64.92	1359.15	182.74	0.75	SlimPulse	0
133	11054.00	92.48	179.89	95.00	9794.46	1453.63	-1452.50	-65.36	1453.98	182.58	1.06	SlimPulse	0
134	11148.00	92.86	179.79	94.00	9790.09	1547.49	-1546.39	-64.89	1547.75	182.40	0.75	SlimPulse	0
135	11244.00	92.82	179.55	96.00	9785.33	1643.32	-1642.27	-63.92	1643.51	182.23	0.27	SlimPulse	0
136	11339.00	92.34	180.01	95.00	9781.05	1738.18	-1737.17	-63.56	1738.33	182.10	0.70	SlimPulse	0
137	11433.00	91.69	180.01	94.00	9777.75	1832.10	-1831.11	-63.58	1832.22	181.99	0.70	SlimPulse	0
138	11528.00	91.89	180.03	95.00	9774.79	1927.03	-1926.07	-63.64	1927.12	181.89	0.23	SlimPulse	0
139	11623.00	91.82	180.66	95.00	9771.71	2021.97	-2021.02	-64.26	2022.04	181.82	0.62	SlimPulse	0
140	11717.00	91.93	180.28	94.00	9768.63	2115.90	-2114.96	-65.03	2115.96	181.76	0.43	SlimPulse	0
141	11812.00	91.34	180.91	95.00	9765.92	2210.86	-2109.92	-66.02	2210.9	181.71	0.91	SlimPulse	0
142	11907.00	90.38	181.17	95.00	9764.50	2305.84	-2304.89	-67.75	2305.88	181.68	1.05	SlimPulse	0
143	11953.00	90.00	181.46	46.00	9764.35	2351.84	-2350.88	-68.81	2351.88	181.68	1.03	SlimPulse	0
144	11986.00	89.97	181.62	33.00	9764.36	2384.84	-2383.86	-69.69	2384.88	181.67	0.48	SlimPulse	0
145	12092.00	87.25	182.69	106.00	9766.93	2490.79	-2489.75	-73.67	2490.84	181.69	2.75	SlimPulse	0
146	12187.00	87.42	182.53	95.00	9771.35	2585.66	-2584.55	-77.99	2585.72	181.73	0.24	SlimPulse	0
147	12283.00	87.76	182.97	96.00	9775.38	2681.55	-2680.35	-82.59	2681.62	181.78	0.59	SlimPulse	0
148	12377.00	88.90	181.99	94.00	9778.12	2775.49	-2774.22	-86.66	2775.57	181.79	1.60	SlimPulse	0
149	12476.00	88.59	181.65	99.00	9780.29	2874.46	-2873.15	-89.81	2874.55	181.79	0.46	SlimPulse	0
150	12588.00	88.94	181.43	112.00	9782.71	2986.43	-2985.08	-92.82	2986.52	181.78	0.37	SlimPulse	0
151	12683.00	88.59	181.64	95.00	9784.76	3081.41	-3080.02	-95.36	3081.5	181.77	0.43	SlimPulse	0
152	12779.00	86.56	180.00	96.00	9788.83	3177.31	-3175.92	-96.73	3177.39	181.74	2.71	SlimPulse	0
153	12873.00	86.21	180.14	94.00	9794.75	3271.10	-3269.73	-96.85	3271.16	181.70	0.40	SlimPulse	0
154	12968.00	85.39	179.90	95.00	9801.71	3365.82	-3364.47	-96.89	3365.87	181.65	0.91	SlimPulse	0
155	13063.00	85.83	179.81	95.00	9808.98	3460.51	-3459.20	-96.65	3460.55	181.60	0.48	SlimPulse	0
156	13158.00	85.91	181.00	95.00	9815.82	3555.25	-3553.95	-97.32	3555.28	181.57	1.25	SlimPulse	0
157	13253.00	83.41	180.66	95.00	9824.66	3649.83	-3648.52	-98.69	3649.85	181.55	2.65	SlimPulse	0
158	13378.00	85.94	180.89	125.00	9836.25	3774.27	-3772.95	-100.37	3774.29	181.52	2.03	SlimPulse	0
159	13472.00	88.38	180.00	94.00	9840.91	3868.14	-3866.83	-101.10	3868.15	181.50	2.77	SlimPulse	0
160	13568.00	88.18	180.17	96.00	9843.79	3964.07	-3962.78	-101.24	3964.08	181.46	0.28	SlimPulse	0
161	13639.00	87.45	180.14	71.00	9846.50	4035.00	-4033.73	-101.43	4035.01	181.44	1.02	SlimPulse	0
162	13691.00	87.45	180.14	52.00	9848.81	4086.94	-4085.68	-101.56	4086.94	181.42	0.01	Other	PTB