

Results of Directional Survey

API number:	30-005-29151		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	INDEPENDENCE 8 FEDERAL COM # 1H

surface	ULSTR:	B	08	T 15S	R 31E
				510 FNL	2310 FEL

BH Loc	ULSTR:	A	09	T 15S	R 31E
15730	MD	8800.1	TVD	621 FNL	337 FEL
					4943 FWL

Top Perf/OH	ULSTR:	B	08	T 15S	R 31E
9201	MD	8751.2	TVD	481 FNL	1579 FEL

Bot Perf/OH	ULSTR:	A	09	T 15S	R 31E
15730	MD	8800.1	TVD	621 FNL	337 FEL
					4943 FWL

	MD	N/S	E/W	VD
	9196	29.49	726.42	8751.19
TOP PERFS/OH	9201	29.05	731.40	8751.20
	9292	21.08	822.05	8751.33
	15705	-111.03	7227.82	8800.18
BOT PERFS/OH	15730	-111.16	7252.82	8800.07
	15730	-111.16	7252.82	8800.07

NEXT TO LAST	15705	-111.03	7227.82	8800.18
LAST READING	15730	-111.16	7252.82	8800.07
TD	15730	-111.16	7252.82	8800.07

Surface Location	510	FN	2310	FE
Projected BHL	621	FN	4943	FW
Location of				
Top Perfs/OH	481	FN	1579	FE
Bottom Perfs/OH	621	FN	4943	FW

SUMMARY of Subsurface Locations

Surface Location	B-08-15S-31E	510	FN	2310	FE	Vert. Depth
Top Perfs/OH	B-08-15S-31E	481	FN	1579	FE	8751.20
Bottom Perfs/OH	A-09-15S-31E	621	FN	4943	FW	8800.07
Projected TD	A-09-15S-31E	621	FN	4943	FW	8800.07

JAN 29 2014

**Reservoir Development**

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

May 26, 2013

HOBBS OCD

Cimarex

600 N MARIENFELD STREET SUITE 600

DEC 09 2013

MIDLAND, TX 79701

RECEIVED

Re:

510 FNL & 2310 FEL 9-15S-31E
N 32.03625 W 103.84296CLIENT: Cimarex
WELL: Independence 8 Federal Com No. 1H ST01
FIELD: Abo/Wolfcamp Wildcat
RIG: Cactus 101
COUNTY: Chaves
API NO: 30-005-29151-01
JOB NO: 13MLD0236

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>
Robert Hargrave MWD	Independence 8 Federal Com No. 1H ST01 Side Track	8313.00 Ft to 15705.00 Ft	May 7, 2013 to May 16, 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



Reservoir Development

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

Well Reference:

510 FNL & 2310 FEL 9-15S-31E
N 32.03625 W 103.84296

I, Robert Hargrave 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 07, 2013 through May 16, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 8313.00 feet to a depth of 15705.00 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 for the Independence 8 Federal Com No. 1H ST01 Well (Side Track) API No. 30-005-29151-01 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
Robert Hargrave
MWD

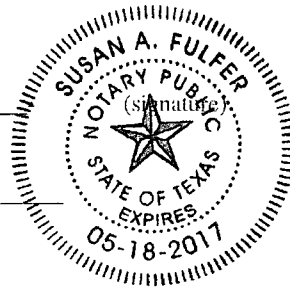
Subscribed and Sworn to before me this 20th day of May (month) 2013 (yr)

My Commission expires:

5/18/17

Notary Public

Midland
(County State)



SCHLUMBERGER
Survey Report

7-Jun-2013

Client.....: Cimarex Energy Co. of Col
Field.....: Abo/Wolfcamp Wildcat

Well.....: Independence 8 Federal Com No. 1H ST01
API number.....: 30-005-29151-01
Engineer.....: Robert Hargrave

Spud date.....: 16-Apr-13
Last survey date.....: 16-May-13
Total accepted surveys...: 96
MD of first survey.....: 8313.00 ft
MD of last survey.....: 15705.00 ft

County.....: Chaves
State.....: New Mexico
Rig.....: Cactus 101

Latitude.....: 33° 2' 10.489" N
Longitude.....: 103° 50' 34.646" 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.....: 4440.00
KB above permanent.....: 4458.00
DF above permanent.....: 4458.00

----- 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.....: 691614.60 ft
Y.....: 741074.70 ft

Azimuth from Vsect Origin to target: 90.94 degrees

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

-----Run1----- Calculation Date: 6-May-2013
Location G.....: 998.89538 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48850.71 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.80812 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 9-May-2013
Location G.....: 998.89538 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48849.65 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.80783 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 13-May-2013
Location G.....: 998.89538 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48848.23 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.80746 degrees Tolerance Dip: 0.45 degrees

-----Run4----- Calculation Date: 15-May-2013
Location G.....: 998.89538 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48847.53 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.80727 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2012

-----Run1-----
Magnetic dec (+E/-W).....: 7.65097 degrees
Grid Conv (+E/-W).....: 0.26735 degrees
Total Azim Corr (+E/-W).....: 7.38362 degrees

-----Run2-----
Magnetic dec (+E/-W).....: 7.65001 degrees
Grid Conv (+E/-W).....: 0.26735 degrees
Total Azim Corr (+E/-W).....: 7.38266 degrees

-----Run3-----
Magnetic dec (+E/-W).....: 7.64873 degrees
Grid Conv (+E/-W).....: 0.26734 degrees
Total Azim Corr (+E/-W).....: 7.38139 degrees

-----Run4-----
Magnetic dec (+E/-W).....: 7.64809 degrees
Grid Conv (+E/-W).....: 0.26734 degrees
Total Azim Corr (+E/-W).....: 7.38075 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	50.00	0.24	54.77	50.00	50.00	0.08	0.06	0.09	0.10472	54.77	0.48	GyroTool	0
3	150.00	0.40	23.58	100.00	150.00	0.39	0.50	0.40	0.63888	38.33	0.23	GyroTool	0
4	250.00	0.40	37.62	100.00	250.00	0.73	1.10	0.75	1.32874	34.31	0.10	GyroTool	0
5	350.00	0.38	32.94	100.00	349.99	1.12	1.65	1.14	2.00877	34.66	0.04	GyroTool	0
6	450.00	0.17	108.73	100.00	449.99	1.43	1.88	1.46	2.38465	37.85	0.38	GyroTool	0
7	550.00	0.34	38.00	100.00	549.99	1.75	2.07	1.79	2.73358	40.80	0.33	GyroTool	0
8	650.00	0.27	25.76	100.00	649.99	2.03	2.52	2.07	3.25835	39.47	0.10	GyroTool	0
9	759.50	0.33	76.75	109.50	759.49	2.44	2.82	2.49	3.76216	41.45	0.24	GyroTool	0
10	847.60	0.32	72.31	88.10	847.59	2.92	2.95	2.97	4.1893	45.18	0.03	GyroTool	0
11	943.10	0.28	77.36	95.50	943.09	3.40	3.08	3.45	4.6307	48.23	0.05	GyroTool	0
12	1038.50	0.29	76.36	95.40	1038.49	3.86	3.19	3.92	5.05234	50.81	0.01	GyroTool	0
13	1133.90	0.15	114.71	95.40	1133.88	4.21	3.20	4.26	5.32948	53.13	0.21	GyroTool	0
14	1229.30	0.14	95.10	95.40	1229.28	4.44	3.13	4.49	5.4788	55.10	0.05	GyroTool	0
15	1374.70	0.22	58.81	95.40	1374.68	4.71	3.22	4.77	5.7515	55.96	0.14	GyroTool	0
16	1420.10	0.43	44.14	95.40	1420.08	5.11	3.57	5.17	6.28515	55.38	0.24	GyroTool	0
17	1515.50	0.52	43.39	95.40	1515.48	5.65	4.14	5.72	7.06154	54.08	0.09	GyroTool	0
18	1610.90	0.66	39.67	95.40	1610.87	6.29	4.88	6.37	8.02204	52.53	0.15	GyroTool	0
19	1706.30	0.67	40.14	95.40	1706.27	6.98	5.73	7.08	9.10571	51.01	0.01	GyroTool	0
20	1801.70	0.70	43.93	95.40	1801.66	7.73	6.58	7.84	10.23333	50.02	0.06	GyroTool	0
21	1897.20	0.77	51.29	95.50	1897.15	8.62	7.40	8.75	11.45503	49.78	0.12	GyroTool	0
22	1992.60	0.94	51.09	95.40	1992.54	9.72	8.29	9.86	12.87821	49.93	0.18	GyroTool	0
23	2088.00	1.05	44.56	95.40	2087.93	10.92	9.40	11.08	14.531	49.67	0.17	GyroTool	0
24	2183.40	1.22	40.20	95.40	2183.31	12.17	10.80	12.35	16.4052	48.82	0.20	GyroTool	0
25	2278.80	1.16	42.87	95.40	2278.69	13.46	12.29	13.66	18.37153	48.03	0.09	GyroTool	0
26	2374.20	1.16	45.06	95.40	2374.07	14.77	13.68	15.00	20.2981	47.64	0.05	GyroTool	0
27	2469.60	1.17	47.09	95.40	2469.45	16.15	15.02	16.40	22.23678	47.51	0.04	GyroTool	0
28	2565.00	1.35	42.10	95.40	2564.83	17.59	16.52	17.86	24.3298	47.24	0.22	GyroTool	0
29	2660.40	1.57	41.65	95.40	2660.20	19.18	18.33	19.49	26.75074	46.75	0.23	GyroTool	0
30	2755.80	1.35	38.97	95.40	2755.56	20.73	20.18	21.06	29.16714	46.23	0.24	GyroTool	0
31	2851.30	1.48	37.62	95.50	2851.03	22.16	22.03	22.52	31.50421	45.63	0.14	GyroTool	0
32	2946.70	1.61	39.60	95.40	2946.40	23.73	24.04	24.13	34.05838	45.11	0.15	GyroTool	0
33	3042.10	1.62	37.01	95.40	3041.76	25.36	26.15	25.79	36.72883	44.61	0.08	GyroTool	0
34	3137.50	1.78	33.54	95.40	3137.12	26.95	28.46	27.42	39.52229	43.94	0.20	GyroTool	0
35	3232.90	1.62	35.98	95.40	3232.48	28.53	30.79	29.03	42.31757	43.32	0.18	GyroTool	0
36	3328.30	1.75	34.63	95.40	3327.84	30.11	33.08	30.65	45.09668	42.82	0.14	GyroTool	0
37	3423.70	1.85	32.92	95.40	3423.19	31.73	35.57	32.32	48.05776	42.26	0.12	GyroTool	0
38	3519.10	1.87	32.55	95.40	3518.54	33.36	38.17	33.99	51.11404	41.69	0.02	GyroTool	0
39	3614.50	1.91	33.99	95.40	3613.89	35.05	40.80	35.72	54.22829	41.20	0.07	GyroTool	0
40	3709.90	1.97	32.90	95.40	3709.23	36.78	43.50	37.50	57.42976	40.77	0.07	GyroTool	0
41	3805.40	2.03	32.25	95.50	3804.67	38.53	46.31	39.29	60.73044	40.32	0.07	GyroTool	0
42	3852.40	2.05	29.44	47.00	3851.65	39.36	47.74	40.15	62.38077	40.06	0.22	GyroTool	0
43	3967.37	1.80	28.80	114.97	3966.55	41.19	51.11	42.03	66.17677	39.43	0.22	Competitor MWD	0
44	4060.75	1.80	28.58	93.38	4059.88	42.55	53.69	43.44	69.06068	38.98	0.01	Competitor MWD	0
45	4156.07	1.80	29.19	95.32	4155.16	43.96	56.31	44.89	72.0103	38.56	0.02	Competitor MWD	0
46	4251.06	1.80	30.91	94.99	4250.10	45.41	58.89	46.38	74.96213	38.22	0.06	Competitor MWD	0
47	4345.18	1.80	31.30	94.12	4344.17	46.89	61.42	47.91	77.89658	37.95	0.01	Competitor MWD	0
48	4441.61	0.40	326.70	96.43	4440.59	47.47	63.00	48.51	79.51068	37.60	1.73	Competitor MWD	0
49	4536.04	0.31	278.80	94.43	4535.01	47.03	63.31	48.08	79.49731	37.21	0.32	Competitor MWD	0
50	4633.88	0.31	281.48	97.84	4632.85	46.51	63.41	47.55	79.25787	36.87	0.01	Competitor MWD	0
51	4729.24	0.48	281.79	95.36	4728.21	45.86	63.54	46.91	78.98018	36.44	0.18	Competitor MWD	0
52	4823.77	0.48	282.98	94.53	4822.74	45.09	63.71	46.14	78.66074	35.91	0.01	Competitor MWD	0
53	4918.72	0.48	273.31	94.95	4917.68	44.30	63.82	45.35	78.29462	35.40	0.09	Competitor MWD	0
54	5014.69	0.48	281.88	95.97	5013.65	43.50	63.93	44.56	77.92389	34.88	0.07	Competitor MWD	0
55	5110.20	0.48	282.01	95.51	5109.16	42.72	64.09	43.78	77.61562	34.33	0.00	Competitor MWD	0
56	5204.60	0.48	279.11	94.40	5203.55	41.94	64.24	43.00	77.30031	33.80	0.03	Competitor MWD	0
57	5272.34	0.62	271.99	67.74	5271.29	41.29	64.30	42.35	76.99074	33.37	0.23	Competitor MWD	0
58	5396.52	0.48	292.78	124.18	5395.46	40.14	64.52	41.20	76.55292	32.56	0.19	Competitor MWD	0
59	5491.38	0.62	295.10	94.86	5490.32	39.30	64.89	40.37	76.42408	31.89	0.15	Competitor MWD	0
60	5586.68	0.62	296.69	95.30	5585.61	38.36	65.34	39.44	76.32335	31.12	0.02	Competitor MWD	0
61	5681.72	0.62	292.38	95.04	5680.65	37.42	65.77	38.51	76.2124	30.35	0.05	Competitor MWD	0
62	5776.41	0.70	284.69	94.69	5775.33	36.38	66.11	37.47	75.99272	29.55	0.13	Competitor MWD	0
63	5871.45	0.70	276.38	95.04	5870.37	35.24	66.32	36.34	75.6234	28.72	0.11	Competitor MWD	0
64	5968.93	0.79	280.47	97.48	5967.84	33.99	66.51	35.08	75.19609	27.81	0.11	Competitor MWD	0
65	6063.59	0.88	289.79	94.66	6062.49	32.66	66.88	33.76	74.9122	26.78	0.17	Competitor MWD	0
66	6158.70	0.40	272.69	95.11	6157.59	31.63	67.14	32.74	74.69481	26.00	0.54	Competitor MWD	0
67	6252.01	0.79	290.27	93.31	6250.90	30.70	67.38	31.81	74.5077	25.27	0.46	Competitor MWD	0
68	6348.13	0.70	293.30	96.12	6347.01	29.53	67.84	30.65	74.44015	24.31	0.10	Competitor MWD	0
69	6443.04	0.70	289.70	94.91	6441.91	28.45	68.26	29.57	74.39228	23.42	0.05	Competitor MWD	0
70	6538.37	0.70	290.40	95.33	6537.23	27.35	68.66	28.48	74.33288	22.53	0.01	Competitor MWD	0
71	6632.54	0.48	295.59	94.17	6631.40	26.45	69.03	27.58	74.33895	21.78	0.24	Competitor MWD	0
72	6728.30	0.48	296.29	95.76	6727.16	25.72	69.38	26.86	74.40147	21.16	0.01	Competitor MWD	0
73	6822.63	0.40	306.71	94.33	6821.48	25.09	69.76	26.24	74.52843	20.62	0.12	Competitor MWD	0
74	6919.27	0.31	317.78	96.64	6918.12	24.64	70.15	25.80	74.74337	20.19	0.12	Competitor MWD	0
75	7013.76	0.31	324.28	94.49	7012.61	24.31	70.55	25.47	75.00631	19.85	0.04	Competitor MWD	0
76	7109.30	0.31	326.00	95.54	7108.15	24.01	70.97	25.18	75.30606	19.53	0.01	Competitor MWD	0
77	7204.60	0.22	327.80	95.30	7203.45	23.76	71.34	24.94	75.57342	19.27	0.09	Competitor MWD	0
78	7299.87	0.31	51.91	95.27	7298.72	23.86	71.65	25.04	75.90438	19.26	0.38	Competitor MWD	0
79	7397.66	0.70	86.28	97.79	7396.50	24.66	71.86	25.85	76.36353	19.78	0.49	Competitor MWD	0
80	7492.34	0.88	80.61	94.68	7491.17	25.96	72.01	27.14	76.95743	20.65	0.21	Competitor MWD	0
81	7587.54	0.88	81.97	95.20	7586.36	27.40	72.23	28.59	77.68473	21.59	0.02	Competitor MWD	0
82	7682.87	1.01	75.69	95.33	7681.68	28.93	72.54	30.13	78.55028	22.55	0.17	Competitor MWD	0
83	7777.51	1.01	80.30	94.64	7776.30	30.56	72.89	31.76	79.50762	23.54	0.09	Competitor MWD	0
84	7872.67	1.10	84.39	95.16	7871.45	32.29	73.12	33.49	80.42627	24.61	0.12	Competitor MWD	0
85	7967.22	1.01	91.99	94.55	7965.98	34.02	73.18	35.23	81.21842	25.71	0.18	Competitor MWD	0
86	8063.15	1.10	84.47	95.93	8061.90	35.78	73.24	36.99	82.05081	26.80	0.17	Competitor MWD	0
87	8157.63	1.19	82.41	94.48	8156.36	37.65	73.46	38.86	83.10477	27.88	0.10	Competitor MWD	0
88	8253.03	1.41	84.39	95.40	8251.73	39.80	73.70	41.01	84.34625	29.10	0.24	Competitor MWD	0
89	8313.00	10.75	90.84	59.9									

96	8535.00	39.81	92.46	31.00	8508.99	140.84	68.40	141.98	157.6013	64.28	9.80	SlimPulse	0
97	8567.00	42.67	94.05	32.00	8533.05	161.92	67.20	163.04	176.34548	67.60	9.52	SlimPulse	0
98	8599.00	45.57	95.17	32.00	8556.01	184.14	65.40	185.24	196.44957	70.55	9.38	SlimPulse	0
99	8630.00	47.79	95.48	31.00	8577.28	206.63	63.31	207.70	217.1322	73.05	7.20	SlimPulse	0
100	8662.00	48.36	95.47	32.00	8598.66	230.36	61.04	231.40	239.31123	75.22	1.77	SlimPulse	0
101	8694.00	51.04	94.66	32.00	8619.36	254.70	58.88	255.70	262.39688	77.03	8.62	SlimPulse	0
102	8726.00	54.22	93.66	32.00	8638.78	280.09	57.05	281.07	286.79606	78.53	10.23	SlimPulse	0
103	8758.00	56.68	93.28	32.00	8656.93	306.42	55.45	307.37	312.33239	79.77	7.75	SlimPulse	0
104	8789.00	59.12	93.80	31.00	8673.40	332.65	53.83	333.58	337.89434	80.83	8.01	SlimPulse	0
105	8821.00	63.60	93.12	32.00	8688.73	360.70	52.14	361.61	365.34577	81.80	14.12	SlimPulse	0
106	8853.00	67.20	92.52	32.00	8702.05	389.78	50.71	390.66	393.93951	82.60	11.37	SlimPulse	0
107	8885.00	69.65	91.88	32.00	8713.82	419.53	49.57	420.40	423.30774	83.28	7.87	SlimPulse	0
108	8917.00	72.49	91.39	32.00	8724.20	449.79	48.71	450.65	453.27294	83.83	8.99	SlimPulse	0
109	8949.00	76.54	91.73	32.00	8732.74	480.62	47.86	481.47	483.84192	84.32	12.71	SlimPulse	0
110	8980.00	79.80	92.20	31.00	8739.10	510.95	46.82	511.79	513.9255	84.77	10.62	SlimPulse	0
111	9012.00	82.25	93.58	32.00	8744.09	542.54	45.23	543.35	545.2319	85.24	8.75	SlimPulse	0
112	9044.00	85.76	94.72	32.00	8747.43	574.31	42.93	575.09	576.68861	85.73	11.55	SlimPulse	0
113	9076.00	88.01	95.42	32.00	8749.17	606.17	40.10	606.91	608.23777	86.22	7.34	SlimPulse	0
114	9107.00	88.76	95.11	31.00	8750.04	637.07	37.26	637.77	638.8583	86.66	2.63	SlimPulse	0
115	9196.00	89.76	94.90	89.00	8751.19	725.84	29.49	726.42	727.02121	87.68	1.15	SlimPulse	1
116	9292.00	90.07	95.15	96.00	8751.33	821.60	21.08	822.05	822.32383	88.53	0.41	SlimPulse	1
117	9387.00	90.04	95.79	95.00	8751.24	916.30	12.03	916.62	916.69926	89.25	0.67	SlimPulse	1
118	9483.00	89.49	96.55	96.00	8751.64	1011.90	1.71	1012.06	1012.06383	89.90	0.98	SlimPulse	1
119	9578.00	89.52	96.83	95.00	8752.46	1106.42	-9.36	1106.41	1106.45147	90.48	0.30	SlimPulse	1
120	9674.00	89.66	96.47	96.00	8753.14	1201.94	-20.47	1201.76	1201.93778	90.98	0.40	SlimPulse	1
121	9770.00	89.73	95.65	96.00	8753.65	1297.55	-30.61	1297.22	1297.58581	91.35	0.86	SlimPulse	1
122	9865.00	89.80	95.88	95.00	8754.04	1392.21	-40.15	1391.74	1392.32244	91.65	0.25	SlimPulse	1
123	9959.00	89.86	95.64	94.00	8754.32	1485.88	-49.58	1485.27	1486.09575	91.91	0.26	SlimPulse	1
124	10054.00	89.38	94.66	95.00	8754.95	1580.62	-58.11	1579.88	1580.94968	92.11	1.15	SlimPulse	1
125	10150.00	89.49	93.31	96.00	8755.90	1676.48	-64.78	1675.64	1676.89414	92.21	1.41	SlimPulse	1
126	10246.00	89.69	92.24	96.00	8756.59	1772.43	-69.43	1771.53	1772.88588	92.24	1.13	SlimPulse	1
127	10341.00	89.97	91.86	95.00	8756.87	1867.41	-72.83	1866.46	1867.88468	92.23	0.50	SlimPulse	1
128	10437.00	90.00	92.02	96.00	8756.89	1963.39	-76.08	1962.41	1963.88344	92.22	0.17	SlimPulse	1
129	10531.00	89.56	92.38	94.00	8757.26	2057.37	-79.69	2056.34	2057.88235	92.22	0.60	SlimPulse	1
130	10627.00	89.52	91.39	96.00	8758.03	2153.35	-82.84	2152.28	2153.8765	92.20	1.03	SlimPulse	1
131	10723.00	89.56	90.52	96.00	8758.80	2249.35	-84.44	2248.27	2249.85064	92.15	0.91	SlimPulse	1
132	10818.00	90.24	89.39	95.00	8758.96	2344.33	-84.37	2343.26	2344.78145	92.06	1.39	SlimPulse	1
133	10913.00	90.72	88.64	95.00	8758.17	2439.27	-82.74	2438.24	2439.64809	91.94	0.94	SlimPulse	1
134	11009.00	90.90	89.14	96.00	8756.81	2535.20	-80.88	2534.22	2535.50703	91.83	0.55	SlimPulse	1
135	11105.00	89.49	88.31	96.00	8756.48	2631.13	-78.74	2630.19	2631.3676	91.71	1.70	SlimPulse	1
136	11199.00	89.66	88.16	94.00	8757.18	2725.02	-75.85	2724.14	2725.19762	91.59	0.24	SlimPulse	1
137	11294.00	90.28	88.45	95.00	8757.23	2819.92	-73.04	2819.10	2820.04576	91.48	0.72	SlimPulse	1
138	11390.00	90.59	89.08	96.00	8756.50	2915.85	-70.97	2915.07	2915.93787	91.39	0.73	SlimPulse	1
139	11485.00	90.62	89.74	95.00	8755.50	3010.81	-69.99	3010.06	3010.87687	91.33	0.70	SlimPulse	1
140	11579.00	90.42	90.10	94.00	8754.64	3104.79	-69.86	3104.06	3104.84511	91.29	0.44	SlimPulse	1
141	11675.00	90.24	90.27	96.00	8754.09	3200.78	-70.17	3200.06	3200.82616	91.26	0.26	SlimPulse	1
142	11770.00	91.04	90.94	95.00	8753.03	3295.77	-71.17	3295.04	3295.81296	91.24	1.10	SlimPulse	1
143	11865.00	89.66	90.86	95.00	8752.45	3390.76	-72.66	3390.03	3390.80728	91.23	1.46	SlimPulse	1
144	11960.00	89.38	91.08	95.00	8753.25	3485.76	-74.27	3485.01	3485.80286	91.22	0.37	SlimPulse	1
145	12056.00	90.04	91.57	96.00	8753.73	3581.76	-76.49	3580.98	3581.80065	91.22	0.86	SlimPulse	1
146	12151.00	88.83	91.26	95.00	8754.67	3676.75	-78.84	3675.95	3676.79363	91.23	1.31	SlimPulse	1
147	12246.00	88.08	91.26	95.00	8757.23	3771.71	-80.92	3770.89	3771.75841	91.23	0.79	SlimPulse	1
148	12341.00	89.35	90.72	95.00	8759.36	3866.68	-82.56	3865.85	3866.73141	91.22	1.45	SlimPulse	1
149	12437.00	90.62	89.82	96.00	8759.39	3962.67	-83.02	3961.85	3962.71548	91.20	1.62	SlimPulse	1
150	12532.00	91.41	89.52	95.00	8757.70	4057.64	-82.47	4056.83	4057.66663	91.16	0.89	SlimPulse	1
151	12627.00	92.06	89.09	95.00	8754.83	4152.55	-81.32	4151.78	4152.57348	91.12	0.82	SlimPulse	1
152	12723.00	92.36	88.74	96.00	8751.12	4248.42	-79.50	4247.69	4248.43226	91.07	0.48	SlimPulse	1
153	12812.00	93.01	88.57	89.00	8746.96	4337.25	-77.42	4336.57	4337.25656	91.02	0.75	SlimPulse	1
154	12872.00	93.39	88.47	60.00	8743.61	4397.10	-75.87	4396.45	4397.10652	90.99	0.65	SlimPulse	1
155	12967.00	91.05	89.45	95.00	8739.93	4491.97	-74.15	4491.36	4491.96925	90.95	2.67	SlimPulse	1
156	13062.00	90.43	89.35	95.00	8738.70	4586.93	-73.15	4586.34	4586.927	90.91	0.66	SlimPulse	1
157	13158.00	89.84	89.52	96.00	8738.47	4682.89	-72.20	4682.34	4682.89496	90.88	0.64	SlimPulse	1
158	13253.00	89.29	89.36	95.00	8739.19	4777.86	-71.28	4777.33	4777.86228	90.85	0.60	SlimPulse	1
159	13348.00	89.47	89.40	95.00	8740.22	4872.82	-70.25	4872.32	4872.82582	90.83	0.19	SlimPulse	1
160	13443.00	89.33	89.30	95.00	8741.22	4967.77	-69.17	4967.31	4967.78966	90.80	0.18	SlimPulse	1
161	13539.00	89.30	89.83	96.00	8742.36	5063.74	-68.44	5063.30	5063.76066	90.77	0.55	SlimPulse	1
162	13634.00	89.43	90.39	95.00	8743.42	5158.72	-68.62	5158.29	5158.74816	90.76	0.61	SlimPulse	1
163	13729.00	89.19	90.83	95.00	8744.56	5253.71	-69.64	5253.28	5253.74064	90.76	0.53	SlimPulse	1
164	13825.00	89.16	91.34	96.00	8745.94	5349.70	-71.45	5349.25	5349.72884	90.77	0.53	SlimPulse	1
165	13920.00	89.37	91.41	95.00	8747.16	5444.69	-73.73	5444.22	5444.71568	90.78	0.23	SlimPulse	1
166	14015.00	89.09	91.21	95.00	8748.44	5539.68	-75.90	5539.18	5539.70291	90.79	0.36	SlimPulse	1
167	14111.00	89.30	91.19	96.00	8749.79	5635.67	-77.91	5635.15	5635.6909	90.79	0.22	SlimPulse	1
168	14206.00	88.20	90.85	95.00	8751.86	5730.65	-79.61	5730.11	5730.66596	90.80	1.21	SlimPulse	1
169	14301.00	87.82	91.17	95.00	8755.16	5825.59	-81.28	5825.04	5825.60771	90.80	0.52	SlimPulse	1
170	14398.00	87.34	90.88	97.00	8759.26	5922.50	-83.01	5921.94	5922.52008	90.80	0.58	SlimPulse	1
171	14493.00	87.47	90.63	95.00	8763.56	6017.41	-84.26	6016.83	6017.42253	90.80	0.30	SlimPulse	1
172	14588.00	87.37	90.36	95.00	8767.83	6112.31	-85.08	6111.73	6112.32479	90.80	0.30	SlimPulse	1
173	14677.00	87.30	90.20	89.00	8771.97	6201.20	-85.52	6200.64	6201.22492	90.79	0.20	SlimPulse	1
174	14772.00	87.95	91.27	95.00	8775.91	6296.12	-86.74	6295.54	6296.14138	90.79	1.32	SlimPulse	1
175	14868.00	87.88	91.97	96.00	8779.40	6392.05	-89.45	6391.44	6392.06729	90.80	0.73	SlimPulse	1
176	14963.00	88.33	91.99	95.00	8782.54	6486.98	-92.73	6486.33	6486.99531	90.82	0.47	SlimPulse	1
177	15058.00	88.16	92.07	95.00	8785.45	6581.92	-96.09	6581.23	6581.9298	90.84	0.20	SlimPulse	1
178	15154.00	88.23	91.81	96.00	8788.48	6677.86	-99.34	6677.13	6677.86454	90.85	0.28	SlimPulse	1
179													