

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 16 2016

Schlumberger

RECEIVED

HOBBS OGD

September 5, 2016

NOV 28 2016

Cimarex Energy Co.

RECEIVED

N 32.44346 W -103.54973

Re:

CLIENT: Cimarex Energy Co.
WELL: Witherspoon 26-23 State 001H ST01
FIELD: Wolfcamp

RIG: Cactus 148
COUNTY: Lea
API NO: 30-025-43291-0001
JOB NO: 16MLD1054

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
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>
Charles Okolo FE	Witherspoon 26-23 State 001H ST01 Side Track	11827.00 Ft to 18586.00 Ft	July 29, 2016 to August 28, 2016	SlimPulse

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

Lindsey Keith
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
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Midland, Texas 79706
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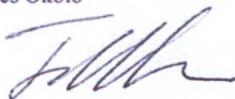
Schlumberger

Well Reference:

N 32.44346 W -103.54973

I, Charles Okolo certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of July 29, 2016 through August 28, 2016, conduct or supervise the taking of the SlimPulse surveys from a depth of 11827.00 feet to a depth of 18586.00 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 Witherspoon 26-23 State 001H ST01 Well (Side Track) API No. 30-025-43291-0001 in New Mexico; 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.

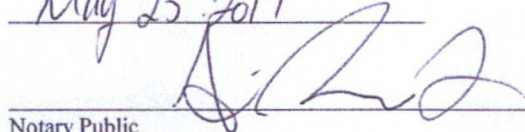
By
Charles Okolo
FE



Subscribed and Sworn to before me this 6 day of September (month) 2016 (yr)

My Commission expires:

May 23 2017



(signature)

Notary Public

Harris, Tx
(County State)



SCHLUMBERGER
Survey Report

10-Nov-2016

Client.....: Cimarex Energy Co.
Field.....: Wolfcamp

Well.....: WITHERSPOON 26 23 STATE 001H ST01
API number.....: 30-025-43291-0001
Engineer.....: C. Okolo
County.....: Lea
State.....: New Mexico
Rig.....: Cactus 148

Spud date.....: 9-Jul-16
Last survey date.....: 28-Aug-16
Total accepted surveys.....: 84
MD of first survey.....: 11827.00 ft
MD of last survey.....: 18586.00 ft
Latitude.....: 32° 26' 36.45" N
Longitude.....: 103° 32' 59.023" W

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

--- Depth reference ---
Permanent datum.....: MSL
Depth reference.....: Driller's Depth
GI above permanent.....: 3701.40
KB above permanent.....: 3726.40
DF above permanent.....: 3726.40

--- 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.....: 525948.46 ft
Y.....: 783072.39 ft

Azimuth from Vsect Origin to target: 358.25 degrees

--- MWD Survey Reference Criteria ---

---Run1--- Calculation Date: 27-Jul-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run2--- Calculation Date: 29-Jul-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.38 degrees Tolerance Dip: 0.45 degrees

---Run3--- Calculation Date: 2-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.3 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run4--- Calculation Date: 8-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run5--- Calculation Date: 11-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run6--- Calculation Date: 14-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.13 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run7--- Calculation Date: 16-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run8--- Calculation Date: 19-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.31 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run9--- Calculation Date: 22-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.3 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

---Run10--- Calculation Date: 26-Aug-2016
Location G.....: 998.3216 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48393.3 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.385 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2016

---Run1---
Magnetic dec (+E/-W).....: 6.922 degrees
Grid Conv (+E/-W).....: 0.422 degrees
Total Azim Corr (+E/-W).....: 6.5 degrees

---Run2---
Magnetic dec (+E/-W).....: 6.922 degrees
Grid Conv (+E/-W).....: 0.422 degrees
Total Azim Corr (+E/-W).....: 6.5 degrees

---Run3---
Magnetic dec (+E/-W).....: 6.922 degrees
Grid Conv (+E/-W).....: 0.422 degrees
Total Azim Corr (+E/-W).....: 6.5 degrees

---Run4---
Magnetic dec (+E/-W).....: 6.922 degrees
Grid Conv (+E/-W).....: 0.422 degrees
Total Azim Corr (+E/-W).....: 6.5 degrees

---Run5---
Magnetic dec (+E/-W).....: 6.922 degrees
Grid Conv (+E/-W).....: 0.422 degrees
Total Azim Corr (+E/-W).....: 6.5 degrees

Run6
Magnetic dec (+E/W)..... 6.922 degrees
Grid Conv (+E/W)..... 0.422 degrees
Total Azim Corr (+E/W)..... 6.5 degrees

Run7
Magnetic dec (+E/W)..... 6.922 degrees
Grid Conv (+E/W)..... 0.422 degrees
Total Azim Corr (+E/W)..... 6.5 degrees

Run8
Magnetic dec (+E/W)..... 6.922 degrees
Grid Conv (+E/W)..... 0.422 degrees
Total Azim Corr (+E/W)..... 6.5 degrees

Run9
Magnetic dec (+E/W)..... 6.922 degrees
Grid Conv (+E/W)..... 0.422 degrees
Total Azim Corr (+E/W)..... 6.5 degrees

Run10
Magnetic dec (+E/W)..... 6.922 degrees
Grid Conv (+E/W)..... 0.422 degrees
Total Azim Corr (+E/W)..... 6.5 degrees

Survey Correction Index Description

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

Survey List														Tool		Correction	
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	102.00	0.62	98.07	102.00	102.00	-0.09	-0.08	0.55	0.55	98.07	0.61	Other	0				
3	184.00	0.49	25.93	82.00	184.00	0.14	0.16	1.14	1.14	81.24	0.81	Other	0				
4	285.00	0.40	16.11	101.00	284.99	0.86	0.90	1.43	1.69	57.66	0.12	Other	0				
5	373.00	0.22	38.18	88.00	372.99	1.28	1.33	1.62	2.09	50.52	0.24	Other	0				
6	496.00	0.40	23.73	123.00	495.99	1.85	1.91	1.93	2.72	45.37	0.16	Other	0				
7	585.00	0.40	51.93	89.00	584.99	2.31	2.39	2.30	3.32	44.00	0.22	Other	0				
8	676.00	0.40	19.72	91.00	675.98	2.80	2.88	2.66	3.92	42.73	0.24	Other	0				
9	766.00	0.09	70.40	90.00	765.98	3.11	3.20	2.83	4.27	41.53	0.39	Other	0				
10	856.00	0.22	2.39	90.00	855.98	3.31	3.40	2.91	4.47	40.57	0.23	Other	0				
11	947.00	0.09	312.64	91.00	946.98	3.53	3.62	2.86	4.61	38.34	0.19	Other	0				
12	1041.00	0.09	119.80	94.00	1040.98	3.54	3.63	2.87	4.63	38.33	0.19	Other	0				
13	1135.00	0.22	63.48	94.00	1134.98	3.58	3.68	3.10	4.81	40.12	0.20	Other	0				
14	1230.00	0.09	187.22	95.00	1229.98	3.58	3.68	3.25	4.91	41.43	0.29	Other	0				
15	1325.00	0.22	23.25	95.00	1324.98	3.67	3.78	3.31	5.02	41.26	0.32	Other	0				
16	1420.00	0.22	34.97	95.00	1419.98	3.99	4.09	3.49	5.38	40.45	0.05	Other	0				
17	1515.00	0.09	103.36	95.00	1514.98	4.11	4.23	3.67	5.6	40.95	0.22	Other	0				
18	1609.00	0.09	218.07	94.00	1608.98	4.04	4.15	3.69	5.56	41.66	0.16	Other	0				
19	1660.00	0.09	197.31	51.00	1659.98	3.97	4.08	3.66	5.48	41.86	0.06	Other	0				
20	1784.00	0.09	50.30	124.00	1783.98	3.94	4.05	3.70	5.49	43.43	0.14	Other	0				
21	1878.00	0.09	54.22	94.00	1877.98	4.02	4.14	3.82	5.63	42.69	0.01	Other	0				
22	1973.00	0.40	108.87	95.00	1972.98	3.95	4.08	4.19	5.85	45.81	0.37	Other	0				
23	2066.00	0.40	105.48	93.00	2065.98	3.74	3.89	4.81	6.19	51.09	0.03	Other	0				
24	2161.00	0.71	225.91	95.00	2160.98	3.24	3.39	4.71	5.8	54.28	1.03	Other	0				
25	2255.00	0.71	113.41	94.00	2254.97	2.60	2.75	4.83	5.56	60.32	1.26	Other	0				
26	2348.00	0.62	92.65	93.00	2347.97	2.32	2.50	5.86	6.37	66.90	0.27	Other	0				
27	2442.00	0.80	104.07	94.00	2441.96	2.10	2.32	7.00	7.38	71.70	0.24	Other	0				
28	2536.00	0.62	93.44	94.00	2535.95	1.88	2.13	8.15	8.42	75.38	0.24	Other	0				
29	2629.00	0.88	85.82	93.00	2628.94	1.86	2.15	9.36	9.6	77.08	0.30	Other	0				
30	2723.00	1.33	93.44	94.00	2722.93	1.79	2.13	11.17	11.37	79.18	0.50	Other	0				
31	2816.00	1.50	93.44	93.00	2815.90	1.58	2.00	13.46	13.61	81.56	0.18	Other	0				
32	2910.00	1.70	86.44	94.00	2909.86	1.52	2.01	16.08	16.21	82.88	0.30	Other	0				
33	3007.00	1.90	80.00	97.00	3006.81	1.79	2.38	19.10	19.25	82.90	0.29	Other	0				
34	3102.00	0.49	97.15	95.00	3101.79	1.96	2.60	21.06	21.22	82.96	1.51	Other	0				
35	3197.00	0.80	76.21	95.00	3196.78	2.03	2.71	22.10	22.27	83.01	0.40	Other	0				
36	3292.00	0.88	77.98	95.00	3291.77	2.30	3.02	23.46	23.65	82.67	0.09	Other	0				
37	3387.00	1.10	78.11	95.00	3386.76	2.59	3.36	25.07	25.29	82.37	0.23	Other	0				
38	3481.00	1.33	78.51	94.00	3480.74	2.83	3.76	27.02	27.28	82.07	0.24	Other	0				
39	3574.00	1.59	77.98	93.00	3573.71	3.35	4.25	29.34	29.64	81.77	0.28	Other	0				
40	3669.00	1.59	73.70	95.00	3668.67	3.91	4.89	31.89	32.27	81.28	0.12	Other	0				
41	3763.00	1.72	77.10	94.00	3762.63	4.51	5.57	34.52	34.97	80.83	0.17	Other	0				
42	3857.00	0.88	121.21	94.00	3856.61	4.39	5.51	36.51	36.93	81.42	1.33	Other	0				
43	3952.00	1.02	132.44	95.00	3951.60	3.41	4.56	37.76	38.03	83.11	0.24	Other	0				
44	4045.00	1.10	132.14	93.00	4044.58	2.21	3.41	39.03	39.18	85.01	0.09	Other	0				
45	4140.00	1.02	120.33	95.00	4139.56	1.13	2.37	40.44	40.51	86.65	0.24	Other	0				
46	4234.00	1.00	117.17	94.00	4233.55	0.29	1.57	41.89	41.92	87.85	0.06	Other	0				
47	4328.00	1.19	118.61	94.00	4327.53	-0.60	0.73	43.48	43.48	89.04	0.20	Other	0				
48	4423.00	1.33	119.22	95.00	4422.51	-1.67	-0.28	45.31	45.31	90.36	0.15	Other	0				
49	4518.00	1.40	122.03	95.00	4517.48	-2.88	-1.44	47.25	47.27	91.74	0.10	Other	0				
50	4611.00	1.33	115.70	93.00	4610.46	-4.01	-2.51	49.19	49.25	92.92	0.18	Other	0				
51	4705.00	1.72	122.62	94.00	4704.42	-5.31	-3.74	51.36	51.49	94.17	0.46	Other	0				
52	4800.00	1.59	118.70	95.00	4799.38	-6.78	-5.14	53.72	53.96	95.47	0.18	Other	0				
53	4896.00	1.60	123.90	96.00	4895.35	-8.24	-6.53	56.00	56.38	96.65	0.15	Other	0				
54	4990.00	1.72	121.34	94.00	4989.11	-9.77	-8.00	58.49	58.84	97.81	0.15	Other	0				
55	5086.00	1.72	117.29	96.00	5085.26	-11.26	-9.40	60.80	61.52	98.79	0.13	Other	0				
56	5159.00	1.59	117.20	73.00	5158.23	-12.28	-10.37	62.68	63.53	99.39	0.18	Other	0				
57	5270.00	1.59	121.82	111.00	5269.19	-13.88	-11.89	65.35	66.43	100.31	0.12	Other	0				
58	5363.00	1.59	123.81	93.00	5362.15	-15.34	-13.28	67.52	68.82	101.13	0.06	Other	0				
59	5458.00	1.59	124.64	95.00	5457.12	-16.89	-14.77	69.70	71.25	101.96	0.02	Other	0				
60	5552.00	1.60	123.98	94.00	5551.08	-18.43	-16.24	71.86	73.68	102.74	0.02	Other	0				
61	5647.00	0.62	332.20	95.00	5646.07	-18.74	-16.53	72.72	74.58	102.80	2.28	Other	0				
62	5742.00	0.80	335.02	95.00	5741.06	-17.67	-15.47	72.20	73.84	102.09	0.19	Other	0				
63	5837.00	0.71	330.88	95.00	5836.06	-16.54	-14.36	71.64	73.06	101.33	0.11	Other	0				
64	5931.00	0.62	326.08	94.00	5930.05	-15.59	-13.43	71.07	72.33	100.70	0.11	Other	0				
65	6025.00	0.71	325.20	94.00	6024.04	-14.67	-12.53	70.45	71.56	100.08	0.10	Other	0				
66	6120.00	0.49	315.54	95.00	6119.04	-13.88	-11.75	69.83	70.82	99.55	0.25	Other	0				
67	6213.00	0.49	323.17	93.00	6212.03	-13.26	-11.15	69.32	70.21	99.14	0.07	Other	0				
68	6307.00	0.49	326.61	94.00	6306.03	-12.59	-10.49	68.85	69.65	98.67	0.03	Other	0				
69	6401.00	0.49	329.21	94.00	6400.03	-11.90	-9.81	68.43	69.13	98.16	0.02	Other	0				
70	6494.00	0.49	329.21	93.00	6493.02	-11.20	-9.13	68.02	68.63	97.64	0.00	Other	0				
71	6589.00	0.49	313.16	95.00	6588.02	-10.56	-8.50	67.52	68.05	97.18	0.14	Other	0				
72	6682.00	0.49	316.07	93.00	6681.02	-9.98	-7.94	66.95	67.42	96.77	0.03	Other	0				
73	6775.00	0.31	317.57	93.00	6774.01	-9.50	-7.47	66.50	66.92	96.41	0.19	Other	0				
74	6869.00	0.49	314.84	94.00	6868.01	-9.01	-7.00	66.05	66.42	96.05	0.19	Other	0				
75	6962.00	0.49	318.98	93.00	6961.01	-8.42	-6.42	65.50	65.82	95.60	0.04	Other	0				
76	7057.00	0.40	320.40	95.00	7056.01	-7.84	-5.86	65.03	65.29	95.15	0.10	Other	0				
77	7151.00	0.09	118.50	94.00	7150.01	-7.62	-5.64	64.88	65.13	94.97	0.52	Other	0				

90	8376.00	0.80	199.52	93.00	8374.96	-16.08	-14.17	62.69	64.27	102.74	0.30	Other	0
91	8474.00	0.80	217.97	98.00	8472.96	-17.31	-15.42	62.14	64.02	103.93	0.12	Other	0
92	8565.00	0.62	202.06	91.00	8563.95	-18.31	-16.44	61.66	63.81	104.93	0.21	Other	0
93	8659.00	0.80	206.04	94.00	8657.94	-19.36	-17.50	61.18	63.63	105.96	0.20	Other	0
94	8754.00	0.88	210.97	95.00	8752.93	-20.56	-18.72	60.51	63.34	107.19	0.11	Other	0
95	8848.00	1.10	206.74	94.00	8846.92	-21.96	-20.14	59.73	63.04	108.63	0.25	Other	0
96	8943.00	1.20	213.09	95.00	8941.90	-23.58	-21.79	58.78	62.69	110.34	0.17	Other	0
97	9038.00	1.19	215.86	95.00	9036.88	-25.17	-23.42	57.66	62.24	112.11	0.06	Other	0
98	9133.00	1.50	237.94	95.00	9131.85	-26.58	-24.88	56.03	61.3	113.95	0.63	Other	0
99	9227.00	1.50	237.94	94.00	9225.87	-27.83	-26.19	54.93	59.97	115.90	0.01	Other	0
100	9321.00	1.50	250.59	94.00	9319.79	-28.83	-27.26	51.74	58.49	117.78	0.36	Other	0
101	9418.00	1.72	234.64	97.00	9416.75	-30.02	-28.52	49.36	57.01	120.02	0.51	Other	0
102	9511.00	0.22	215.50	93.00	9509.73	-30.93	-29.48	48.12	56.43	121.49	1.63	Other	0
103	9606.00	0.22	82.52	95.00	9604.73	-31.06	-29.60	48.19	56.56	121.56	0.42	Other	0
104	9700.00	0.40	47.70	94.00	9698.73	-30.83	-29.36	48.61	56.79	121.13	0.27	Other	0
105	9795.00	1.50	10.47	95.00	9793.72	-29.40	-27.91	49.09	56.47	119.62	1.27	Other	0
106	9889.00	1.59	2.70	94.00	9887.68	-26.89	-25.40	49.37	55.52	117.22	0.24	Other	0
107	9983.00	1.50	335.1	94.00	9981.65	-24.46	-22.98	48.91	54.04	115.16	0.79	Other	0
108	10077.00	1.81	339.29	94.00	10075.61	-22.03	-20.59	47.64	51.9	113.37	0.37	Other	0
109	10172.00	0.70	322.54	95.00	10170.59	-20.25	-18.84	46.52	50.19	112.04	1.18	Other	0
110	10266.00	0.30	311.02	94.00	10264.58	-19.62	-18.22	45.98	49.46	111.61	0.44	Other	0
111	10321.00	0.22	256.27	55.00	10319.58	-19.54	-18.15	45.77	49.24	111.63	0.45	Other	0
112	10467.00	0.22	272.72	146.00	10465.58	-19.58	-18.20	45.22	48.75	111.93	0.04	Other	0
113	10561.00	0.31	329.60	94.00	10559.58	-19.34	-17.98	44.91	48.38	111.81	0.28	Other	0
114	10654.00	0.62	291.57	93.00	10652.58	-18.92	-17.57	44.32	47.67	111.63	0.45	Other	0
115	10750.00	0.49	277.87	96.00	10748.57	-18.64	-17.33	43.83	46.76	111.75	0.19	Other	0
116	10843.00	0.31	235.54	93.00	10841.57	-18.72	-17.42	42.83	46.24	112.13	0.37	Other	0
117	10935.00	0.31	158.22	92.00	10933.57	-19.10	-17.80	42.72	46.28	112.62	0.41	Other	0
118	11029.00	0.62	190.39	94.00	11027.57	-19.83	-18.54	42.73	46.57	113.45	0.42	Other	0
119	11123.00	1.10	195.42	94.00	11121.56	-21.19	-19.91	42.39	46.83	115.15	0.52	Other	0
120	11218.00	1.10	194.23	95.00	11216.54	-22.94	-21.67	41.93	47.2	117.33	0.02	Other	0
121	11312.00	1.50	210.44	94.00	11310.52	-24.85	-23.60	41.08	47.38	119.88	0.57	Other	0
122	11406.00	1.72	227.41	94.00	11404.48	-26.81	-25.62	39.42	47.01	123.02	0.56	Other	0
123	11501.00	1.33	206.26	95.00	11499.45	-28.72	-27.57	37.88	46.86	126.05	0.71	Other	0
124	11596.00	1.41	217.67	95.00	11594.42	-30.59	-29.49	36.68	47.06	128.80	0.30	Other	0
125	11691.00	1.50	246.76	95.00	11689.39	-31.95	-30.90	34.82	46.56	131.59	0.77	Other	0
126	11827.00	1.31	275.85	136.00	11824.03	-30.53	-30.01	17.55	34.76	149.68	8.84	SlimPulse	0
127	11858.00	18.67	283.12	31.00	11853.83	-28.78	-28.52	9.16	29.95	162.19	18.41	SlimPulse	0
128	11890.00	23.00	290.06	32.00	11883.73	-25.14	-25.21	-1.71	25.26	183.87	15.56	SlimPulse	0
129	11921.00	24.86	293.71	31.00	11912.07	-20.09	-20.51	-13.36	24.48	213.09	7.66	SlimPulse	0
130	11953.00	27.18	295.45	32.00	11940.82	-13.86	-14.66	-26.12	29.96	240.69	7.64	SlimPulse	0
131	11984.00	30.90	300.26	31.00	11967.92	-6.40	-7.61	-39.40	40.13	259.07	14.17	SlimPulse	0
132	12015.00	33.31	307.65	31.00	11994.19	3.23	1.61	-55.02	53.05	271.74	14.86	SlimPulse	0
133	12047.00	37.11	315.37	32.00	12020.67	15.56	13.53	-66.45	67.81	281.51	14.67	SlimPulse	0
134	12079.00	37.69	322.49	32.00	12046.43	30.25	27.85	-78.88	83.65	289.45	15.45	SlimPulse	0
135	12110.00	41.68	328.43	31.00	12070.29	46.89	44.16	-90.05	100.3	296.12	17.75	SlimPulse	0
136	12141.00	44.76	332.21	31.00	12092.88	65.65	62.61	-100.54	118.44	301.91	12.97	SlimPulse	0
137	12173.00	46.50	334.55	32.00	12115.26	86.40	83.06	-110.78	138.46	306.86	7.54	SlimPulse	0
138	12204.00	48.42	335.36	31.00	12136.22	107.38	103.75	-120.45	158.97	310.74	6.47	SlimPulse	0
139	12235.00	52.11	336.76	31.00	12156.04	129.45	125.53	-130.12	180.8	313.97	12.41	SlimPulse	0
140	12267.00	56.40	339.86	32.00	12174.73	153.86	149.66	-139.69	204.73	316.97	15.54	SlimPulse	0
141	12298.00	58.62	342.76	31.00	12191.38	178.87	174.43	-148.06	228.8	319.67	10.66	SlimPulse	0
142	12330.00	62.31	345.49	32.00	12207.15	205.80	201.44	-155.90	254.48	322.22	12.46	SlimPulse	0
143	12351.00	65.76	345.40	21.00	12216.35	224.18	219.37	-160.81	271.99	323.76	16.89	SlimPulse	0
144	12478.00	77.31	347.31	127.00	12256.51	341.86	336.24	-189.11	385.77	330.65	9.20	SlimPulse	0
145	12571.00	82.06	347.05	93.00	12273.16	431.63	425.43	-209.40	474.17	333.79	5.12	SlimPulse	0
146	12666.00	86.39	350.35	95.00	12282.73	524.80	518.08	-227.91	566	336.25	5.72	SlimPulse	0
147	12760.00	88.73	355.59	94.00	12286.74	618.28	611.25	-239.39	656.46	338.61	6.11	SlimPulse	0
148	12854.00	87.56	359.31	94.00	12289.79	712.20	705.09	-243.57	745.98	340.94	4.14	SlimPulse	0
149	12949.00	87.59	1.26	95.00	12293.81	807.05	800.00	-243.09	836.12	343.10	2.05	SlimPulse	0
150	13043.00	87.87	1.21	94.00	12297.53	900.85	893.96	-241.07	925.84	344.91	0.30	SlimPulse	0
151	13137.00	87.90	1.51	94.00	12301.00	994.65	987.81	-238.84	1016.38	346.41	0.32	SlimPulse	0
152	13232.00	89.14	2.30	95.00	12303.46	1089.42	1082.73	-235.69	1108.08	347.72	1.55	SlimPulse	0
153	13326.00	91.00	0.47	94.00	12303.34	1183.27	1176.69	-233.41	1199.62	348.78	2.78	SlimPulse	0
154	13421.00	90.89	357.42	95.00	12301.77	1278.24	1271.65	-235.16	1293.21	349.52	3.21	SlimPulse	0
155	13515.00	90.86	357.56	94.00	12300.33	1372.22	1365.55	-239.28	1386.36	350.06	0.15	SlimPulse	0
156	13610.00	91.55	0.40	95.00	12298.34	1467.18	1460.50	-240.98	1480.25	350.63	3.08	SlimPulse	0
157	13704.00	90.65	359.34	94.00	12296.53	1561.12	1554.48	-241.19	1573.08	351.18	1.47	SlimPulse	0
158	13798.00	90.76	359.40	94.00	12295.37	1655.10	1648.47	-242.22	1666.17	351.64	0.12	SlimPulse	0
159	13892.00	91.31	359.54	94.00	12293.68	1749.06	1742.45	-243.09	1759.33	352.06	0.61	SlimPulse	0
160	13986.00	90.83	359.84	94.00	12291.93	1843.02	1836.43	-243.60	1852.52	352.44	0.60	SlimPulse	0
161	14080.00	91.03	359.25	94.00	12290.41	1936.98	1930.42	-244.35	1945.82	352.79	0.66	SlimPulse	0
162	14173.00	91.00	358.89	93.00	12288.76	2029.95	2023.39	-245.85	2038.27	353.07	0.39	SlimPulse	0
163	14267.00	90.89	358.88	94.00	12287.21	2123.94	2117.36	-247.68	2131.8	353.33	0.11	SlimPulse	0
164	14361.00	91.38	0.97	94.00	12285.34	2217.87	2211.34	-247.80	2225.18	353.61	2.29	SlimPulse	0
165	14455.00	91.58	0.56	94.00	12282.92	2311.75	2305.30	-246.54	2318.44	353.90	0.49	SlimPulse	0
166	14549.00	90.62	0.42	94.00	12281.11	2405.66	2399.27	-245.73	2411.83	354.15	1.03	SlimPulse	0
167	14643.00	91.34	0.23	94.00	12279.50	2499.58	2493.26	-245.20	2505.29	354.38	0.80	SlimPulse	0
168	14737.00	92.27	0.58	94.00	12276.54	2593.47	2587.21	-244.54	2598.74	354.60	1.06	SlimPulse	0
169	14831.00	92.24	359.04	94.00	12272.84	2687.36	2681.13	-244.85	2692.29	354.78	1.63	SlimPulse	0
170	14926.00	90.55	358.21	95.00	12270.53	2782.32	2776.07	-247.13	2787.05	354.91	1.98	SlimPulse	0
171	15020.00	90.38	357.80	94.00	12269.77	2876.32	2870.01	-250.40	2880.91	355.01	0.48	SlimPulse	0
172	15114.00	90.58	357.46	94.00	12268.98	2970.31	2963.93	-254.30	2974.82	355.10	0.42	SlimPulse	0
173	15209.00	89.04	359.23	95.00	12269.29	3065.30	3058.88	-257.04	3069.66	355.20	2.48	SlimPulse	0
174	15304.00	91.00	359.12	95.00	12269.26	3160.29	3153.87	-258.41	3164.43	355.32	2.07	SlimPulse	0
175	15399.00	91.34	0.28	95.00	12267.32	3255.23</							