

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

August 30, 2013

Cimarex

600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

CLIENT: Cimarex

WELL: Forty Niner Ridge 25 Federal 1H

FIELD: 015 G-06 S2330360; B.S.

RIG: Noram 23

COUNTY: Eddy

API NO: 30-015-41388

JOB NO: 13MLD0235

23 T23S R30E 255 FSL & 250 FEL
N 32.28392 W 103.84378

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	Forty Niner Ridge 25 Federal 1H Original Hole	3922.00 Ft to 15024.00 Ft	June 8, 2013 to June 29, 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

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Well Reference:

23 T23S R30E 255 FSL & 250 FEL

N 32.28392 W 103.84378

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 June 08, 2013 through June 29, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 3922.00 feet to a depth of 15024.00 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 Forty Niner Ridge 25 Federal 1H Well (Original Hole) API No. 30-015-41388 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

Nicholas Sepulchre
on behalf of Robert Hargrave

Subscribed and Sworn to before me this 29th day of August (month) 2013 (yr)

My Commission expires:

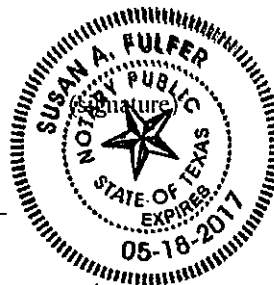
5/18/17

Susan A. Fulfer

Notary Public

Midland, TX

(County State)



SEILHUBERGER
Survey Report

31-Jul-2013

Client: Cimarex Energy Co.
Field: D15 G-06 5230260; Bone Spring
Well: Forty Hiner Ridge 25 Federal 211
API number: 30-015-41388
Engineer: Robert Hargrove
County: Eddy
State: New Mexico
Rgt: Horam 23

Spud date: 28 May-13
Last survey date: 29 Jun-13
Total accepted surveys: 152
MID of first survey: 3922.00 ft
MID of last survey: 35024.00 ft
Latitude: 33-17 2.3627 N
Longitude: 103-50 37.57 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: 3233.00
KB above permanent: 3321.00
DP above permanent: 3321.00

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

Grid Coordinates:
NAD27 Texas State Plane, Central Zone, US Feet
X: 692613.70 ft
Y: 467373.20 ft

Azimuth from Vsect Origin to target: 166.40 degrees

MWD Survey Reference Criteria

Run1 Calculation Date: 7-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48394.59 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1015 degrees Tolerance Dip: 0.45 degrees

Run2 Calculation Date: 9-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48393.89 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1013 degrees Tolerance Dip: 0.45 degrees

Run3 Calculation Date: 9-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48393.89 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1013 degrees Tolerance Dip: 0.45 degrees

Run4 Calculation Date: 13-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48392.49 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.101 degrees Tolerance Dip: 0.45 degrees

Run5 Calculation Date: 15-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48391.79 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1008 degrees Tolerance Dip: 0.45 degrees

Run6 Calculation Date: 16-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48393.45 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1007 degrees Tolerance Dip: 0.45 degrees

Run7 Calculation Date: 19-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48390.39 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1004 degrees Tolerance Dip: 0.45 degrees

Run8 Calculation Date: 20-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48390.04 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1003 degrees Tolerance Dip: 0.45 degrees

Run9 Calculation Date: 23-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48389 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.1 degrees Tolerance Dip: 0.45 degrees

Run10 Calculation Date: 27-Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48387.59 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.0997 degrees Tolerance Dip: 0.45 degrees

Run11 Calculation Date: 28 Jun-2013
Location G.: 998.94325 mgn Tolerance G.: 2.50 mgn
Location B.: 48387.25 nT Tolerance B.: 300.00 nT
Magnetic Dip: 60.0996 degrees Tolerance Dip: 0.45 degrees

BGGIS Model: 2012

Run1:
Magnetic dec (+E/N): 7.58 degrees
Grid Conv (+E/N): 0.26 degrees
Total Azim Corr (+E/N): 7.32 degrees

Run2:
Magnetic dec (+E/N): 7.5794 degrees
Grid Conv (+E/N): 0.2591 degrees
Total Azim Corr (+E/N): 7.32 degrees

Run3:
Magnetic dec (+E/N): 7.5791 degrees
Grid Conv (+E/N): 0.2591 degrees
Total Azim Corr (+E/N): 7.32 degrees

Run4:

Magnetic dec (H/W)..... 7.5781 degrees
Grid Conv (H/W)..... 0.2581 degrees
Total Azim Corr (H/W)..... 7.32 degrees

---Run5---
Magnetic dec (H/W)..... 7.5775 degrees
Grid Conv (H/W)..... 0.2575 degrees
Total Azim Corr (H/W)..... 7.32 degrees

---Run6---
Magnetic dec (H/W)..... 7.5772 degrees
Grid Conv (H/W)..... 0.2572 degrees
Total Azim Corr (H/W)..... 7.32 degrees

---Run7---
Magnetic dec (H/W)..... 7.5762 degrees
Grid Conv (H/W)..... 0.2662 degrees
Total Azim Corr (H/W)..... 7.31 degrees

---Run8---
Magnetic dec (H/W)..... 7.5759 degrees
Grid Conv (H/W)..... 0.2659 degrees
Total Azim Corr (H/W)..... 7.31 degrees

---Run9---
Magnetic dec (H/W)..... 7.5749 degrees
Grid Conv (H/W)..... 0.2649 degrees
Total Azim Corr (H/W)..... 7.31 degrees

---Run10---
Magnetic dec (H/W)..... 7.5737 degrees
Grid Conv (H/W)..... 0.2637 degrees
Total Azim Corr (H/W)..... 7.31 degrees

---Run11---
Magnetic dec (H/W)..... 7.5734 degrees
Grid Conv (H/W)..... 0.2634 degrees
Total Azim Corr (H/W)..... 7.31 degrees

Survey Correction Index Description

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

Seq	ID	Lat (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	H/S (ft)	E/W (ft)	Closure (ft)	At Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	999.25	9.09	0.00	0.00	0.00	0	0.00	0.00	TIP	0
2	100.00	0.48	209.25	100.00	100.00	0.56	-0.64	-0.24	0.7	203.25	0.80	GyroTool	0
3	200.00	0.96	206.78	100.00	199.98	1.26	-2.01	-0.92	2.23	204.39	0.17	GyroTool	0
4	300.00	0.83	210.18	100.00	299.97	2.96	-1.45	-1.68	3.84	205.86	0.10	GyroTool	0
5	400.00	0.06	234.36	100.00	399.97	3.53	-4.14	-2.11	4.65	106.96	0.83	GyroTool	0
6	555.90	0.06	111.51	155.90	555.87	3.61	-4.22	-2.10	4.71	206.43	0.07	GyroTool	0
7	650.00	0.10	115.87	94.70	650.57	3.69	-4.28	-1.98	4.71	204.87	0.04	GyroTool	0
8	745.30	0.08	141.58	94.70	745.27	3.80	-4.36	-1.86	4.74	203.11	0.05	GyroTool	0
9	840.00	0.05	72.29	94.70	839.97	3.85	-4.40	-1.78	4.75	202.04	0.08	GyroTool	0
10	934.70	0.06	68.62	94.70	934.67	3.85	-4.37	-1.70	4.69	201.21	0.01	GyroTool	0
11	1029.40	0.07	73.95	94.70	1029.37	3.84	-4.34	-1.59	4.62	200.18	0.01	GyroTool	0
12	1124.10	0.07	72.86	94.70	1124.07	3.83	-4.30	-1.48	4.55	199.02	0.00	GyroTool	0
13	1218.80	0.07	82.66	94.70	1218.77	3.84	-4.28	-1.37	4.49	197.76	0.01	GyroTool	0
14	1313.50	0.05	68.84	94.70	1313.47	3.84	-4.26	-1.28	4.44	196.67	0.01	GyroTool	0
15	1408.30	0.08	145.62	94.80	1408.27	3.90	-4.30	-1.20	4.47	195.83	0.09	GyroTool	0
16	1503.00	0.09	114.87	94.70	1502.97	4.01	-4.39	-1.10	4.52	194.10	0.05	GyroTool	0
17	1597.70	0.09	89.03	94.70	1597.67	4.07	-4.42	-0.96	4.52	192.28	0.04	GyroTool	0
18	1692.40	0.09	102.07	94.70	1692.37	4.12	-4.43	-0.91	4.51	190.40	0.02	GyroTool	0
19	1787.10	0.08	113.73	94.70	1787.07	4.19	-4.48	-0.83	4.53	188.64	0.02	GyroTool	0
20	1881.80	0.07	120.33	94.70	1881.77	4.27	-4.53	-0.57	4.57	187.17	0.01	GyroTool	0
21	1976.50	0.07	121.55	94.70	1976.47	4.35	-4.59	-0.47	4.62	185.85	0.00	GyroTool	0
22	2071.20	0.06	102.98	94.70	2071.17	4.43	-4.63	-0.37	4.65	184.60	0.02	GyroTool	0
23	2165.90	0.06	111.12	94.70	2165.87	4.47	-4.66	-0.28	4.67	183.43	0.01	GyroTool	0
24	2260.60	0.09	97.80	94.70	2260.57	4.52	-4.69	-0.16	4.69	181.94	0.04	GyroTool	0
25	2355.40	0.10	83.70	94.80	2355.37	4.56	-4.69	0.00	4.69	180.03	0.01	GyroTool	0
26	2450.10	0.03	14.04	94.70	2450.07	4.55	-4.66	0.09	4.66	178.95	0.10	GyroTool	0
27	2544.80	0.10	76.99	94.70	2544.77	4.53	-4.62	0.17	4.62	177.87	0.10	GyroTool	0
28	2639.50	0.11	57.44	94.70	2639.47	4.50	-4.55	0.33	4.56	175.86	0.04	GyroTool	0
29	2734.20	0.09	50.37	94.70	2734.17	4.44	-4.45	0.46	4.48	174.06	0.02	GyroTool	0
30	2828.90	0.10	41.28	94.70	2828.87	4.36	-4.34	0.57	4.38	172.46	0.02	GyroTool	0
31	2923.60	0.14	38.83	94.70	2923.57	4.24	-4.19	0.70	4.25	170.49	0.04	GyroTool	0
32	3018.30	0.15	18.64	94.70	3018.27	4.08	-3.98	0.81	4.07	168.45	0.06	GyroTool	0
33	3113.00	0.11	49.60	94.70	3112.97	3.92	-3.81	0.92	3.82	166.37	0.06	GyroTool	0
34	3207.70	0.10	30.64	94.70	3207.66	3.82	-3.68	1.03	3.73	164.39	0.04	GyroTool	0
35	3302.50	0.10	42.30	94.80	3302.46	3.71	-3.54	1.13	3.72	162.28	0.02	GyroTool	0
36	3397.20	0.09	64.17	94.70	3397.16	3.65	-3.45	1.25	3.67	160.07	0.04	GyroTool	0
37	3491.90	0.06	54.71	94.70	3491.86	3.61	-3.28	1.36	3.65	158.11	0.03	GyroTool	0
38	3586.60	0.09	80.78	94.70	3586.56	3.51	-3.16	1.48	3.67	156.25	0.05	GyroTool	0
39	3681.30	0.10	47.36	94.70	3681.26	3.58	-3.00	1.61	3.67	153.94	0.07	GyroTool	0
40	3776.00	0.02	97.07	94.70	3775.96	3.55	-3.24	1.69	3.66	157.48	0.09	GyroTool	0
41	3807.00	0.05	130.95	31.00	3806.96	3.56	-3.25	1.70	3.67	152.34	0.11	GyroTool	0
42	3922.00	0.18	152.07	115.00	3921.96	3.87	-3.53	1.87	4	152.06	0.20	SlimPulse	0
43	4017.00	0.17	116.19	95.00	4016.96	4.24	-3.83	1.16	4.43	150.36	0.18	SlimPulse	0
44	4111.00	0.21	113.33	94.00	4110.96	4.53	-4.05	2.51	4.37	148.24	0.09	SlimPulse	0
45	4187.00	0.20	158.17	76.00	4186.96	4.78	-4.28	2.67	5.04	148.07	0.12	SlimPulse	0
46	4279.00	0.35	174.46	93.00	4278.96	5.27	-4.71	2.75	5.45	149.69	0.19	SlimPulse	0
47	4374.00	0.41	178.53	95.00	4373.96	5.86	-5.38	2.79	6.04	152.50	0.09	SlimPulse	0
48	4469.00	0.51	180.70	95.00	4468.96	6.62	-6.24	2.79	6.74	155.52	0.08	SlimPulse	0
49	4563.00	0.48	174.33	94.00	4562.95	7.42	-6.95	2.83	7.5	157.85	0.06	SlimPulse	0
50	4658.00	0.51	164.07	95.00	4657.95	8.24	-7.25	2.98	8.31	158.95	0.10	SlimPulse	0
51	4753.00	0.48	160.49	95.00	4752.94	9.04	-8.52	3.23	9.11	159.25	0.06	SlimPulse	0
52	4847.00	0.44	171.43	94.00	4846.94	9.77	-9.23	3.41	9.84	159.74	0.09	SlimPulse	0
53	4942.00	0.45	179.18	95.00	4941.94	10.53	-10.00	3.47	10.58	160.87	0.08	SlimPulse	0
54	5037.00	0.49	176.15	95.00	5036.94	11.29	-10.77	3.50	11.33	162.01	0.05	SlimPulse	0
55	5132.00	0.43	184.87	95.00	5131.93	12.09	-11.49	3.49	12.01	163.98	0.08	SlimPulse	0
56	5216.00	0.48	183.95	94.00	5215.93	12.83	-12.14	3.46	12.61	164.16	0.03	SlimPulse	0
57	5311.00	0.44	192.49	95.00	5310.93	13.27	-13.84	3.34	13.27	165.44	0.12	SlimPulse	0
58	5416.00	0.55	193.61	95.00	5415.92	14.01	-13.68	3.14	14.03	167.06	0.08	SlimPulse	0
59	5510.00	0.54	184.12	94.00	5509.92	14.86	-14.58	3.00	14.86	168.34	0.20	SlimPulse	0
60	5605.00	0.48	174.08	95.00	5604.92	15.67	-15.40	3.01	15.69	168.93	0.11	SlimPulse	0
61	5699.00	0.50	157.34	94.00	5698.91	16.46	-16.16	3.21	16.48	168.77	0.15	SlimPulse	0
62	5794.00	0.52	158.53	95.00	5793.91	17.30	-16.94	3.54	17.3	168.20	0.03	SlimPulse	0
63	5889.00	0.70	148.78	95.00	5888.90	18.27	-17.83	4.01	18.27	167.32	0.20	SlimPulse	0
64	5983.00	0.83	145.45	94.00	5982.89	19.45	-18.88	4.69	19.45	166.04	0.15	SlimPulse	0
65	6078.00	1.00	134.95	95.00	6077.88	20.80	-20.03	5.67	20.82	164.10	0.25	SlimPulse	0
66	6173.00	1.12	135.29	95.00	6172.87	22.30	-21.27	6.91	22.37	162.01	0.13	SlimPulse	0
67	6268.00	1.11	138.84	95.00	6267.85	23.92	-22.63	8.17	24.07	160.14	0.07	SlimPulse	0
68	6363.00	1.11	147.97	95.00	6362.83	25.67	-24.11	9.28	25.84	158.95	0.18	SlimPulse	0
69	6458.00	1.07	155.11	95.00	6457.81	27.35	-25.69	10.14	27.62	158.46	0.16	SlimPulse	0
70	6552.00	1.01	159.52	94.00	6551.80	29.03	-27.76	10.80	29.32	158.39	0.10	SlimPulse	0
71	6647.00	1.09	159.69	95.00	6646.78	30.76	-28.89	11.40	31.06	158.46	0.09	SlimPulse	0

72	6743.00	1.14	164.85	95.00	6741.75	32.60	-30.65	11.97	32.9	158.63	0.12	SlumpPulse	0
73	6817.00	1.11	169.58	95.00	6816.75	34.47	-32.46	11.38	34.74	159.11	0.10	SlumpPulse	0
74	6931.00	1.21	176.99	95.00	6931.73	36.37	-34.37	12.60	36.61	159.87	0.19	SlumpPulse	0
75	7016.00	1.19	178.62	94.00	7025.71	38.30	-36.34	12.67	38.48	160.77	0.04	SlumpPulse	0
76	7121.00	1.72	179.81	95.00	7120.68	40.25	-38.34	12.70	40.38	161.67	0.04	SlumpPulse	0
77	7215.00	1.30	184.42	94.00	7214.65	42.29	-40.38	12.92	42.4	162.26	0.18	SlumpPulse	0
78	7310.00	1.35	189.34	95.00	7309.64	44.48	-42.49	13.53	44.59	162.33	0.23	SlumpPulse	0
79	7405.00	1.18	192.91	95.00	7404.61	46.56	-44.46	14.21	46.68	162.28	0.10	SlumpPulse	0
80	7498.00	1.09	197.60	94.00	7498.60	48.41	-46.27	14.64	48.51	162.44	0.19	SlumpPulse	0
81	7594.00	0.87	197.34	95.00	7593.58	50.01	-47.87	14.90	50.13	162.71	0.23	SlumpPulse	0
82	7688.00	0.34	197.50	94.00	7687.58	51.00	-48.95	14.99	51.1	162.84	0.57	SlumpPulse	0
83	7781.00	0.65	198.91	95.00	7780.57	51.07	-49.05	14.64	51.13	163.59	0.81	SlumpPulse	0
84	7878.00	1.43	208.51	95.00	7877.56	50.23	-48.59	13.78	50.24	165.26	0.84	SlumpPulse	0
85	7971.00	2.07	227.50	95.00	7970.51	49.00	-47.99	10.00	49.02	168.24	0.71	SlumpPulse	0
86	8068.00	1.55	268.54	95.00	8067.46	48.05	-47.82	6.72	48.29	172.00	0.14	SlumpPulse	0
87	8167.00	2.04	253.99	94.00	8166.40	47.79	-48.37	3.52	48.44	175.84	0.54	SlumpPulse	0
88	8257.00	2.26	251.11	95.00	8256.33	48.03	-49.39	0.12	49.39	179.85	0.76	SlumpPulse	0
89	8352.00	2.34	267.68	95.00	8351.76	47.83	-50.07	-1.59	50.2	184.10	0.70	SlumpPulse	0
90	8441.00	1.04	240.64	132.00	8442.20	47.61	-50.77	-7.32	51.29	188.21	1.13	SlumpPulse	0
91	8531.00	1.12	274.06	97.00	8530.18	48.37	-51.88	-4.75	52.62	188.57	0.31	SlumpPulse	0
92	8671.00	1.72	297.96	90.00	8670.17	49.66	-53.41	-9.66	54.29	190.25	0.00	SlumpPulse	0
93	8767.00	0.63	333.81	96.00	8766.15	50.97	-54.76	-9.59	55.59	190.93	1.15	SlumpPulse	0
94	8861.00	0.96	334.23	95.00	8861.15	50.68	-55.67	-4.64	56.33	198.42	0.35	SlumpPulse	0
95	8955.00	0.92	329.04	93.00	8954.13	51.33	-56.68	-7.50	52.18	197.53	0.10	SlumpPulse	0
96	9050.00	2.14	305.73	97.00	9050.10	54.92	-57.76	-5.18	52.99	185.12	1.35	SlumpPulse	0
97	9041.00	1.06	301.33	30.00	9041.07	55.58	-58.09	-1.86	58.22	183.80	3.18	SlumpPulse	0
98	9134.00	3.64	94.07	37.00	9133.01	56.23	-58.33	-2.01	58.37	181.97	2.72	SlumpPulse	0
99	9146.00	4.44	85.59	37.00	9144.93	56.75	-58.33	0.24	58.33	179.77	3.01	SlumpPulse	0
100	9181.00	6.33	88.45	35.00	9179.78	57.40	-58.20	3.52	58.31	176.54	5.41	SlumpPulse	2
101	9211.00	8.17	90.34	37.00	9211.52	58.11	-58.17	7.58	58.65	172.60	5.80	SlumpPulse	2
102	9242.00	9.26	94.47	29.00	9242.18	59.53	-58.16	11.95	59.57	168.43	4.31	SlumpPulse	2
103	9276.00	11.52	96.55	34.00	9273.62	61.55	-58.96	18.05	61.66	162.98	6.74	SlumpPulse	2
104	9308.00	14.72	98.70	37.00	9308.82	64.14	-59.91	25.11	64.98	157.76	8.57	SlumpPulse	2
105	9337.00	16.82	98.15	34.00	9332.79	67.06	-61.10	31.65	69.28	155.88	7.25	SlumpPulse	2
106	9366.00	19.78	98.37	37.00	9363.26	70.18	-62.18	43.12	70.55	145.93	9.24	SlumpPulse	2
107	9401.00	21.88	98.48	37.00	9401.25	75.13	-64.37	53.42	81.65	140.31	8.29	SlumpPulse	2
108	9430.00	24.37	100.49	29.00	9419.88	79.71	-66.39	64.63	92.65	135.77	8.63	SlumpPulse	2
109	9464.00	27.09	101.35	34.00	9450.55	85.86	-69.19	78.12	105.11	131.17	6.07	SlumpPulse	2
110	9495.00	29.71	102.58	31.00	9477.77	92.23	-72.25	93.54	118.2	127.58	8.66	SlumpPulse	2
111	9525.00	31.36	102.61	30.00	9503.61	98.95	-75.58	104.42	137.16	124.88	5.50	SlumpPulse	2
112	9558.00	33.89	102.36	33.00	9531.40	106.77	-79.42	125.79	148.78	122.27	7.68	SlumpPulse	2
113	9597.00	36.91	103.76	34.00	9559.11	115.62	-83.88	144.97	162.49	120.06	9.10	SlumpPulse	2
114	9620.00	38.87	105.23	28.00	9581.06	123.81	-88.24	161.80	184.3	118.61	11.06	SlumpPulse	2
115	9658.00	39.15	107.12	34.00	9607.25	134.57	-94.28	187.61	205.51	117.31	9.46	SlumpPulse	2
116	9686.00	41.13	110.05	37.00	9631.97	145.40	-100.78	225.82	216.52	116.52	8.84	SlumpPulse	2
117	9714.00	43.75	111.76	34.00	9653.58	155.45	-107.06	218.59	243.4	116.09	7.98	SlumpPulse	2
118	9747.00	40.90	113.81	31.00	9678.09	168.05	-115.24	238.31	264.71	115.81	6.09	SlumpPulse	2
119	9780.00	43.01	115.32	33.00	9703.23	181.68	-124.42	258.37	286.76	115.71	7.08	SlumpPulse	2
120	9806.00	44.76	117.46	26.00	9721.97	193.27	-132.41	274.51	304.78	115.25	4.81	SlumpPulse	0
121	9841.00	48.25	120.43	35.00	9746.06	210.44	-144.73	296.71	330.13	116.00	11.71	SlumpPulse	0
122	9874.00	50.81	123.90	33.00	9767.49	228.43	-158.10	317.94	355.08	116.44	11.16	SlumpPulse	0
123	9907.00	54.80	126.20	29.00	9785.11	245.72	-171.31	336.78	377.86	116.98	13.59	SlumpPulse	0
124	9939.00	58.46	129.07	36.00	9805.04	269.10	-185.65	360.50	407.34	117.75	13.10	SlumpPulse	0
125	9970.00	61.78	132.25	33.00	9820.49	290.92	-202.16	380.88	435.57	118.54	13.91	SlumpPulse	0
126	9999.00	64.62	135.22	28.00	9835.57	312.20	-225.06	397.57	458.29	119.59	13.40	SlumpPulse	0
127	10023.00	68.47	138.05	34.00	9852.10	339.80	-247.90	420.79	480.38	120.53	13.95	SlumpPulse	0
128	10065.00	71.99	141.98	33.00	9873.83	368.97	-271.12	438.84	516.78	121.64	14.15	SlumpPulse	0
129	10093.00	74.89	144.47	28.00	9905.91	391.64	-292.62	456.01	541.82	122.09	14.43	SlumpPulse	0
130	10122.00	78.22	146.22	34.00	9873.82	422.50	-319.82	474.80	573.47	123.96	10.09	SlumpPulse	0
131	10155.00	81.29	148.35	32.00	9879.53	452.24	-346.31	491.82	601.51	125.15	11.37	SlumpPulse	0
132	10185.00	82.62	150.55	29.00	9883.62	479.70	-371.03	506.41	617.76	126.23	8.58	SlumpPulse	0
133	10218.00	87.00	151.04	94.00	9890.78	509.94	-453.13	550.43	712.94	129.46	2.71	SlumpPulse	0
134	10338.00	80.81	151.71	56.00	9904.57	613.56	-501.17	576.10	764.25	131.08	3.17	SlumpPulse	0
135	10371.00	80.81	151.47	33.00	9909.84	655.05	-530.83	591.60	794.84	131.90	0.71	SlumpPulse	0
136	10398.00	82.99	150.89	27.00	9913.65	680.85	-554.25	604.47	820.11	132.52	8.28	SlumpPulse	0
137	10434.00	69.90	150.66	36.00	9916.82	715.38	-585.55	621.95	854.22	133.27	10.90	SlumpPulse	0
138	10465.00	80.24	150.44	31.00	9917.99	745.19	-632.54	637.19	881.84	133.87	10.79	SlumpPulse	0
139	10491.00	91.27	151.73	28.00	9916.97	771.16	-616.98	650.81	910.67	134.18	7.29	SlumpPulse	0
140	10528.00	94.03	153.86	35.00	9915.05	806.68	-687.99	666.94	943.94	135.04	9.01	SlumpPulse	0
141	10558.00	95.41	156.38	30.00	9911.58	835.40	-695.11	679.52	972.07	135.85	9.57	SlumpPulse	0
142	10588.00	96.31	159.13	30.00	9909.52	864.90	-727.73	690.81	999.78	136.29	9.50	SlumpPulse	0
143	10621.00	93.82	160.58	33.00	9906.61	897.55	-753.58	702.14	1029.99	137.02	8.69	SlumpPulse	0
144	10653.00	92.30	161.10	32.00	9904.90	929.36	-783.76	712.63	1059.3	137.72	5.03	SlumpPulse	0
145	10683.00	92.00	161.18	30.00	9903.77	959.21	-812.13	722.37	1086.83	138.35	1.06	SlumpPulse	0
146	10716.00	91.93	160.67	31.00	9907.64	992.04	-843.30	733.10	1117.4	139.00	1.53	SlumpPulse	0
147	10748.00	91.93	161.63	37.00	9901.57	1023.89	-873.58	743.38	1147.07	139.60	1.60	SlumpPulse	0
148	10778.00	91.17	162.96	30.00	9900.76	1053.81	-901.17	752.45	1174.77	140.17	4.53	SlumpPulse	0
149	10812.00	90.09	164.03	31.00	9899.77	1084.68	-932.30	770.11	1201.32	141.86	1.41	SlumpPulse	0
150	10907.00	89.79	164.33	95.00	9899.91	1147.61	-1081.78	805.01	1245.98	143.39	1.88	SlumpPulse	0
151	11002.00	90.34	164.76	95.00	9899.80	1197.54	-1175.15	830.73	1299.13	144.74	0.58	SlumpPulse	0
152	11155.00	91.38	165.63	93.00	9898.40	1440.50	-1364.95	854.86	1576.73	145.95	1.85	SlumpPulse	0
153	11250.00	91.75	168.78	95.00	9895.81	1525.44	-1357.55	875.88	1615.58	147.17	3.32	SlumpPulse	0
154	11346.00	91.89	169.40	96.00	9892.75	1611.29	-1451.77	894.04	1704.97	148.27	0.66	SlumpPulse	0
155	11418.00	91.72	170.74	70.00	9890.55	1681.11	-1520.48	906.10	1770.17	149.21	1.93	SlumpPulse	0
156	11511.00	91.93	170.87	95.00	9887.52	1785.78	-1614.41	921.28	1858.79	150.29	0.26	SlumpPulse	0
157	11604.00	92.70	171.										