

Oilfield Services, Central U.S. Land

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 31 2015

RECEIVED

PATHFINDER
A Schlumberger Company

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

February 2, 2015

Cimarex
600 N MARIENFELD STREET SUITE 600

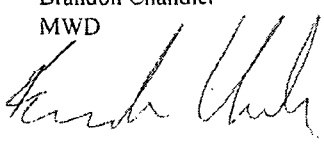
MIDLAND, TX 79701

Re:

S6-T20S-R31E 380 FNL 2280 FWL
N 32.60840 W 103.90908

CLIENT: Cimarex Energy Co.
WELL: Hasta La Vista 1 Federal Com 2N
FIELD: Gatuna Canyon; Bone Spring
RIG: Scandril Eagle
COUNTY: Eddy
API NO: 30-015-42541
JOB NO: 14MLD0483

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>
Brandon Chandler MWD 	Hasta La Vista 1 Federal Com 2N Original Hole	8195.00 Ft to 16316.00 Ft	November 3, 2014 to November 15, 2014	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

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

Well Reference:

S6-T20S-R31E 380 FNL 2280 FWL
N 32.60840 W 103.90908

I, Brandon Chandler certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 03, 2014 through November 15, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 8195.00 feet to a depth of 16316.00 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 Hasta La Vista 1 Federal Com 2H Well (Original Hole) API No. 30-015-42541 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 2nd day of FEBRUARY (month) 2015 (yr)

My Commission expires:

August 23, 2018

Sue Smith

(signature)

Notary Public

Midland Texas

(County State)

SCHLUMBERGER
Survey Report

29 Jan-2015

Client.....Chinrex Energy Co.
Field.....Galuna Canyon, B.S.
Well.....Hasta La Vista 1 Federal Com 2H
API number.....30-016-42541
Engineer.....O. China
County.....Eddy
State.....New Mexico
Rig.....Scandill Eagle
Spud date.....18-Oct-14
Last survey date.....15-Nov-14
Total accepted surveys.....109
MD of first survey.....8195.00 ft
MD of last survey.....16316.00 ft
Latitude.....32° 36' 30.369" N
Longitude.....103° 54' 34.489" W

Survey calculation methods.....
Method for positions.....Minimum curvature
Method for DLS.....tubinski

Depth reference.....MSL
Permanent datum.....Driller's Depth
Depth reference.....3440.00
GI above permanent.....3405.00
KB above permanent.....3465.00

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.....585339.75 ft
Y.....671821.58 ft

Azimuth from Vsect Origin to target: 257.57 degrees

MWD Survey Reference Criteria

Run1.....Calculation Date: 2-Nov-2014
Location G.....998.63244 mgn
Tolerance G.....2.50 mgn
Location B.....48381.14 nT
Tolerance B.....300.00 nT
Magnetic Dip: 60.554 degrees
Tolerance Dip: 0.45 degrees

Run2.....Calculation Date: 9-Nov-2014
Location G.....998.63244 mgn
Tolerance G.....2.50 mgn
Location B.....48381.14 nT
Tolerance B.....300.00 nT
Magnetic Dip: 60.554 degrees
Tolerance Dip: 0.45 degrees

BSGM Model: 2013

Run1.....
Magnetic dec (+E/W).....7.685 degrees
Grid Conv (+E/W).....0.225 degrees
Total Azim Corr (+E/W).....7.46 degrees

Run2.....
Magnetic dec (+E/W).....7.685 degrees
Grid Conv (+E/W).....0.225 degrees
Total Azim Corr (+E/W).....7.46 degrees

Survey Correction Index Description

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

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVO (ft)	V Sec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at A/I (deg)	DLS (deg/100ft)	Total Correction	
												Total	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
7	100.00	0.36	259.60	100.00	100.00	0.51	-0.09	-0.50	0.51	259.60	0.58	Gyrotool	0
3	179.00	0.75	268.74	79.00	178.99	1.41	-0.17	-1.41	1.42	262.92	0.25	Gyrotool	0
4	271.40	0.99	268.38	92.40	271.38	2.79	-0.21	-2.81	2.82	265.71	0.26	Gyrotool	0
5	362.86	0.97	267.38	91.46	362.83	4.33	-0.27	-4.37	4.38	266.49	0.03	Gyrotool	0
6	453.95	0.89	269.37	91.09	453.91	5.78	-0.31	-5.85	5.86	266.95	0.09	Gyrotool	0
7	544.78	0.80	270.75	90.83	544.73	7.09	-0.31	-7.19	7.2	267.52	0.10	Gyrotool	0
8	635.92	0.86	275.70	91.14	635.86	8.36	-0.23	-8.51	8.51	268.42	0.10	Gyrotool	0
9	727.09	1.03	293.53	91.17	727.02	9.67	0.16	-9.94	9.94	270.92	0.37	Gyrotool	0
10	822.16	1.31	302.38	95.07	822.07	11.13	1.08	-11.64	11.69	275.32	0.35	Gyrotool	0
11	917.23	1.42	305.69	95.07	917.11	12.69	2.35	-13.52	13.72	279.87	0.14	Gyrotool	0
12	1012.30	1.26	306.16	95.07	1012.15	14.17	3.66	-15.32	15.75	283.43	0.17	Gyrotool	0
13	1107.37	1.13	305.61	95.07	1107.20	15.49	4.82	-16.92	17.59	285.90	0.14	Gyrotool	0
14	1202.44	0.97	306.16	95.07	1202.26	16.65	5.84	-18.33	19.24	287.67	0.17	Gyrotool	0
15	1297.51	0.83	307.56	95.07	1297.31	17.42	6.90	-19.35	20.54	289.61	0.38	Gyrotool	0
16	1392.58	0.77	351.62	95.07	1392.38	17.61	8.11	-19.82	21.41	292.26	0.36	Gyrotool	0
17	1487.65	0.98	14.26	95.07	1487.43	17.20	9.53	-19.71	21.89	295.80	0.42	Gyrotool	0

18	1582.72	1.10	24.12	95.07	1582.49	16.29	11.15	-19.14	22.15	300.73	0.73	GyroTool	0
19	1677.79	1.29	30.60	95.07	1677.54	15.01	12.90	-18.22	22.32	305.31	0.24	GyroTool	0
20	1772.86	1.40	39.24	95.07	1772.58	13.37	14.72	-16.94	22.44	311.00	0.24	GyroTool	0
21	1867.93	1.27	37.46	95.07	1867.63	11.66	14.46	-15.56	22.65	316.61	0.14	GyroTool	0
22	1953.00	1.11	38.05	95.07	1952.68	10.14	18.02	-14.35	23.04	321.46	0.17	GyroTool	0
23	2058.07	0.97	27.08	95.07	2057.73	8.92	19.46	-13.42	23.64	325.41	0.26	GyroTool	0
24	2153.14	0.96	26.76	95.07	2152.79	7.80	20.89	-12.20	24.45	328.71	0.01	GyroTool	0
25	2248.21	0.92	22.67	95.07	2247.84	6.96	22.31	-12.04	25.35	331.64	0.08	GyroTool	0
26	2343.28	0.86	26.34	95.07	2342.90	6.07	23.65	-11.43	26.27	334.20	0.09	GyroTool	0
27	2438.35	0.72	16.40	95.07	2437.96	5.34	24.86	-10.95	27.17	336.24	0.21	GyroTool	0
28	2533.42	0.52	19.51	95.07	2533.03	4.82	25.84	-10.63	27.94	337.63	0.21	GyroTool	0
29	2628.49	0.10	22.93	95.07	2628.10	4.55	26.33	-10.46	28.33	338.33	0.44	GyroTool	0
30	2713.56	0.30	35.38	95.07	2713.17	4.47	27.20	-10.51	29.16	338.58	0.23	GyroTool	0
31	2818.63	0.37	354.78	95.07	2818.23	4.41	27.20	-10.51	29.16	338.87	0.07	GyroTool	0
32	2913.70	0.43	350.69	95.07	2913.30	4.35	27.86	-10.60	29.81	339.18	0.07	GyroTool	0
33	3008.77	0.47	350.30	95.07	3008.37	4.31	28.60	-10.72	30.54	339.45	0.04	GyroTool	0
34	3103.84	0.44	356.28	95.07	3103.44	4.24	29.34	-10.81	31.27	339.78	0.06	GyroTool	0
35	3198.91	0.43	356.35	95.07	3198.50	4.13	30.06	-10.86	31.96	340.15	0.01	GyroTool	0
36	3293.98	0.48	356.91	95.07	3293.57	4.01	30.82	-10.90	32.69	340.52	0.05	GyroTool	0
37	3389.05	0.53	353.35	95.07	3388.64	3.90	31.65	-10.97	33.5	340.88	0.06	GyroTool	0
38	3484.12	0.55	348.77	95.07	3483.70	3.84	32.54	-11.10	34.38	341.16	0.04	GyroTool	0
39	3579.19	0.57	348.16	95.07	3578.77	3.82	33.45	-11.28	35.3	341.36	0.03	GyroTool	0
40	3674.26	0.60	345.96	95.07	3673.83	3.83	34.40	-11.50	36.27	341.51	0.04	GyroTool	0
41	3769.33	0.65	347.76	95.07	3768.90	3.84	35.41	-11.73	37.3	341.66	0.06	GyroTool	0
42	3864.40	0.69	342.92	95.07	3863.96	3.88	36.48	-12.02	38.41	341.77	0.07	GyroTool	0
43	3959.47	0.83	334.77	95.07	3959.02	4.08	37.65	-12.48	39.66	341.66	0.19	GyroTool	0
44	3990.47	1.05	336.88	95.07	3990.02	4.19	38.11	-12.69	40.17	341.59	0.72	GyroTool	0
45	4080.00	0.88	306.28	95.07	4079.54	4.29	39.28	-13.56	41.55	340.95	0.60	GyroTool	0
46	4174.00	0.48	276.48	94.00	4173.53	5.64	39.75	-14.54	42.37	339.91	0.55	GyroTool	0
47	4270.00	0.48	272.82	96.00	4269.50	7.13	38.02	-15.68	41.13	337.59	2.30	GyroTool	0
48	4365.00	3.30	197.56	95.00	4364.39	9.39	33.67	-17.24	37.83	332.88	1.10	GyroTool	0
49	4460.00	4.09	198.57	95.00	4459.19	12.70	27.85	-19.14	33.8	325.50	0.83	GyroTool	0
50	4555.00	4.48	196.76	95.00	4553.92	16.26	21.09	-21.29	29.97	314.72	0.43	GyroTool	0
51	4650.00	4.79	188.94	95.00	4648.61	19.51	13.61	-22.98	26.71	300.65	0.74	GyroTool	0
52	4745.00	4.70	186.77	95.00	4743.29	22.24	5.83	-24.05	24.75	283.63	0.21	GyroTool	0
53	4840.00	4.31	191.05	95.00	4837.99	24.94	-1.54	-25.20	25.24	266.51	0.54	GyroTool	0
54	4935.00	5.41	186.26	95.00	4932.65	27.80	-9.49	-26.37	28.03	250.20	1.23	GyroTool	0
55	5030.00	5.89	185.56	95.00	5027.19	30.74	-18.80	-27.33	33.17	235.48	0.51	GyroTool	0
56	5126.00	5.58	183.45	96.00	5122.71	33.53	-28.36	-28.09	39.91	224.73	0.39	GyroTool	0
57	5221.00	5.37	182.44	95.00	5217.28	35.93	-37.37	-28.55	47.03	217.39	0.29	GyroTool	0
58	5316.00	5.01	180.15	95.00	5311.86	37.96	-45.92	-28.75	54.18	212.05	0.39	GyroTool	0
59	5411.00	4.70	178.26	95.00	5406.55	39.59	-53.95	-28.65	61.09	207.96	0.37	GyroTool	0
60	5506.00	4.70	178.26	95.00	5501.23	41.03	-61.73	-28.41	67.96	204.71	0.00	GyroTool	0
61	5601.00	4.31	176.37	95.00	5595.94	42.30	-69.19	-28.06	74.66	202.08	0.44	GyroTool	0
62	5696.00	5.80	179.05	95.00	5690.57	43.80	-77.55	-27.76	82.37	199.69	1.59	GyroTool	0
63	5791.00	5.80	179.27	95.00	5785.08	45.73	-87.15	-27.62	91.42	197.58	0.02	GyroTool	0
64	5886.00	5.71	178.26	95.00	5879.66	47.58	-96.67	-27.41	100.49	195.83	0.14	GyroTool	0
65	5981.00	5.49	179.36	95.00	5974.15	49.38	-105.94	-27.72	109.38	194.41	0.26	GyroTool	0
66	6171.00	5.80	177.96	190.00	6163.23	52.97	-124.62	-26.78	127.47	192.13	0.18	GyroTool	0
67	6266.00	4.92	180.24	95.00	6257.81	54.73	-133.49	-26.62	136.12	191.28	0.95	GyroTool	0
68	6361.00	4.92	175.45	95.00	6352.46	56.18	-141.63	-26.32	144.05	190.53	0.43	GyroTool	0
69	6456.00	4.31	176.46	95.00	6447.15	57.29	-149.25	-25.77	151.46	189.80	0.65	GyroTool	0
70	6551.00	6.20	186.26	95.00	6541.75	59.49	-157.92	-26.11	160.06	189.39	2.20	GyroTool	0
71	6646.00	6.50	185.56	95.00	6636.17	62.79	-168.37	-27.15	170.55	189.17	0.33	GyroTool	0
72	6742.00	6.11	184.86	96.00	6731.59	65.99	-178.67	-28.15	181.07	188.94	0.41	GyroTool	0
73	6836.00	5.32	185.87	94.00	6825.12	68.84	-188.19	-29.02	190.41	188.77	0.85	GyroTool	0
74	6931.00	4.79	189.16	95.00	6919.75	71.69	-196.48	-30.10	198.78	188.71	0.64	GyroTool	0
75	7022.00	3.91	189.47	96.00	7015.47	74.38	-203.67	-31.28	206.06	188.73	0.92	GyroTool	0
76	7122.00	5.10	181.16	95.00	7110.18	76.58	-211.09	-31.90	213.48	188.59	1.43	GyroTool	0
77	7217.00	5.10	184.37	95.00	7204.80	78.79	-219.52	-32.30	221.88	188.37	0.30	GyroTool	0
78	7312.00	4.97	178.35	95.00	7299.44	80.78	-227.80	-32.51	230.11	188.12	0.58	GyroTool	0
79	7407.00	4.61	181.87	95.00	7394.11	82.48	-235.69	-32.52	237.92	187.86	0.45	GyroTool	0
80	7503.00	6.50	181.95	96.00	7489.66	84.78	-244.98	-32.83	247.17	187.63	1.97	GyroTool	0
81	7597.00	6.59	184.68	94.00	7583.04	87.68	-255.67	-33.45	257.85	187.45	0.34	GyroTool	0
82	7693.00	6.02	188.68	96.00	7678.46	91.13	-266.14	-34.66	268.38	187.42	0.75	GyroTool	0
83	7788.00	6.28	187.76	95.00	7772.92	94.71	-276.21	-36.11	278.56	187.45	0.79	GyroTool	0
84	7883.00	5.80	183.67	95.00	7867.39	97.84	-286.15	-37.12	288.55	187.39	0.68	GyroTool	0
85	7979.00	6.50	186.57	96.00	7962.84	100.95	-296.39	-38.05	298.82	187.32	0.80	GyroTool	0
86	8074.00	6.42	189.38	95.00	8057.23	104.68	-306.97	-39.53	309.5	187.34	0.34	GyroTool	0
87	8169.00	5.89	191.45	95.00	8151.69	108.62	-316.99	-41.37	319.67	187.44	0.60	GyroTool	0
88	8265.00	6.13	190.80	26.00	8177.54	109.71	-319.66	-41.89	322.39	187.47	0.96	GyroTool	0
89	8361.00	7.17	197.19	31.00	8206.33	111.32	-323.13	-42.77	325.95	187.54	4.12	GyroTool	0
90	8458.00	10.01	205.68	32.00	8239.97	114.02	-327.55	-44.57	330.57	187.75	9.69	GyroTool	0
91	8553.00	12.09	211.43	31.00	8270.40	117.94	-332.75	-47.43	336.11	188.11	7.60	GyroTool	0
92	8631.00	14.47	214.76	32.00	8301.54	123.19	-338.89	-51.46	342.78	188.63	7.80	GyroTool	0
93	8733.00	16.63	208.84	32.00	8332.37	129.15	-346.19	-55.95	350.68	189.18	8.37	GyroTool	0
94	8835.00	19.84	210.56	32.00	8362.76	135.87	-354.88	-60.92	360.07	189.74	10.17	GyroTool	0
95	8937.00	22.84	207.77	31.00	8391.61	143.34	-364.74	-66.40	370.73	190.32	10.21	GyroTool	0
96	9039.00	27.07	208.06	32.00	8420.64	152.08	-376.66	-72.72	383.62	190.93	13.21	GyroTool	0
97	9141.00	30.43	209.14	32.00	8448.69	162.19	-380.17	-80.09	398.31	191.60	10.64	GyroTool	0
98	9243.00	33.06	209.66	32.00	8475.90	173.42	-400.84	-88.36	414.37	192.31	8.25	GyroTool	0
99	9345.00	34.84	209.22	32.00	8502.44	185.34	-420.40	-97.14	431.47	193.01	5.63	GyroTool	0
100	9447.00	37.50	208.94	32.00	8528.27	197.86	-436.90	-106.32	448.64	193.68	8.33	GyroTool	0
101	9549.00	41.18	208.92	31.00	8552.24	210.84	-454.10	-115.82	468.64	194.31	11.87	GyroTool	0
102	9651.00	44.71	208.86	32.00	8576.66	225.24	-473.18	-126.35	489.76	195.95	11.04	GyroTool	0
103	9753.00	46.64	209.41	32.00	8598.02	240.43	-493.18	-137.50	511.99	195.58	6.15	GyroTool	0
104	9855.00	47.72	210.01	31.00	8619.09	255.68	-512.93	-148.77	534.07	196.17	3.76	GyroTool	0
105	9957.00	52.08	210.22	32.00	8640.22	271.93	-533.71	-160.83	557.42	197.31	5.92	GyroTool	0
106	10059.00	56.44</											

108	8828.00	59.57	208.93	31.00	8694.91	322.85	560.14	-198.33	632.07	198.29	10.08	SlmPulse	0
109	8860.00	61.79	210.26	32.00	8710.58	341.53	-624.40	-212.11	659.45	198.76	7.84	SlmPulse	0
110	8891.00	63.07	210.64	31.00	8724.93	360.23	-648.09	-226.04	686.38	199.23	4.27	SlmPulse	0
111	8923.00	65.61	210.61	32.00	8738.78	379.92	-672.91	-240.73	714.67	199.68	7.95	SlmPulse	0
112	8955.00	68.61	209.15	32.00	8751.22	399.76	-698.47	-255.41	743.7	200.09	10.27	SlmPulse	0
113	8986.00	71.84	208.94	31.00	8761.71	419.07	-723.97	-269.57	772.53	200.47	10.43	SlmPulse	0
114	9018.00	75.47	208.33	32.00	8774.21	439.14	-750.79	-284.21	802.78	200.73	5.80	SlmPulse	0
115	9081.00	77.97	208.34	31.00	8779.49	458.65	-777.08	-298.39	832.4	201.01	5.87	SlmPulse	0
116	9112.00	81.09	206.79	31.00	8786.86	478.70	-804.66	-312.84	863.34	201.25	8.96	SlmPulse	0
117	9144.00	84.45	206.47	32.00	8792.49	498.01	-831.85	-326.63	893.68	201.44	10.08	SlmPulse	0
118	9175.00	87.25	207.19	31.00	8798.76	518.01	-860.22	-340.85	925.29	201.62	10.56	SlmPulse	0
119	9205.00	87.69	207.45	30.00	8800.09	537.58	-887.81	-354.81	956.08	201.78	9.31	SlmPulse	0
120	9236.00	87.76	207.48	121.00	8804.89	556.74	-914.44	-368.56	985.92	201.95	1.72	SlmPulse	0
121	9268.00	91.41	209.68	63.00	8808.09	574.29	-942.33	-382.49	1016.32	202.55	0.06	SlmPulse	1
122	9348.00	91.96	214.73	95.00	8804.16	595.61	-1077.02	-454.46	1168.98	202.88	5.26	SlmPulse	1
123	9484.00	92.13	219.95	94.00	8800.80	615.61	-1157.36	-505.06	1262.76	203.58	5.61	SlmPulse	1
124	9578.00	91.03	225.60	94.00	8797.90	634.29	-1232.02	-562.02	1354.16	204.52	5.55	SlmPulse	1
125	9672.00	91.55	225.60	95.00	8793.54	654.29	-1300.96	-625.80	1443.65	205.69	6.06	SlmPulse	1
126	9766.00	91.03	231.47	94.00	8792.82	674.29	-1369.16	-686.19	1530.65	207.05	6.26	SlmPulse	1
127	9861.00	89.55	236.83	95.00	8795.41	694.29	-1418.78	-773.16	1615.77	208.59	5.85	SlmPulse	1
128	9955.00	89.83	241.37	94.00	8795.87	714.29	-1467.04	-853.80	1697.4	210.20	4.84	SlmPulse	1
129	10049.00	90.69	245.77	94.00	8795.40	734.29	-1508.87	-937.95	1776.63	211.87	4.76	SlmPulse	1
130	10144.00	91.55	250.28	95.00	8793.54	754.29	-1544.40	-1026.01	1854.15	213.60	4.83	SlmPulse	1
131	10238.00	90.55	254.70	94.00	8791.82	774.29	-1572.67	-1115.62	1928.18	215.35	4.82	SlmPulse	1
132	10332.00	89.55	259.57	94.00	8791.73	794.29	-1599.59	-1207.23	1999.23	217.15	5.23	SlmPulse	1
133	10426.00	89.72	261.64	94.00	8792.13	814.29	-1607.31	-1300.20	2067.36	218.97	4.33	SlmPulse	1
134	10521.00	89.89	263.10	95.00	8792.13	834.29	-1613.32	-1394.97	2132.78	220.85	5.75	SlmPulse	1
135	10615.00	90.75	270.74	94.00	8792.13	854.29	-1613.32	-1488.97	2195.51	222.70	1.97	SlmPulse	1
136	10709.00	92.34	270.54	94.00	8789.60	874.29	-1612.41	-1582.97	2259.53	224.47	1.70	SlmPulse	1
137	10803.00	90.48	270.60	94.00	8787.28	894.29	-1611.47	-1676.89	2325.68	226.14	1.98	SlmPulse	1
138	10898.00	88.93	270.86	95.00	8787.77	914.29	-1610.26	-1771.87	2394.26	227.74	1.65	SlmPulse	1
139	10992.00	89.10	270.55	94.00	8789.33	934.29	-1609.10	-1865.85	2463.86	229.23	0.38	SlmPulse	1
140	11086.00	89.14	270.20	94.00	8790.83	954.29	-1608.99	-1959.84	2535.39	230.62	0.37	SlmPulse	1
141	11180.00	89.76	270.47	94.00	8791.74	974.29	-1607.94	-2053.83	2608.39	231.94	0.72	SlmPulse	1
142	11275.00	90.07	270.90	95.00	8791.88	994.29	-1606.80	-2148.82	2683.14	233.21	0.56	SlmPulse	1
143	11369.00	89.89	270.50	94.00	8791.91	1014.29	-1605.66	-2242.82	2758.33	234.40	0.47	SlmPulse	1
144	11463.00	89.72	270.19	94.00	8792.23	1034.29	-1605.09	-2336.82	2834.96	235.52	0.38	SlmPulse	1
145	11558.00	89.92	269.94	95.00	8792.53	1054.29	-1604.98	-2431.81	2913.71	236.58	0.34	SlmPulse	1
146	11653.00	90.85	270.20	94.00	8791.90	1074.29	-1604.87	-2525.84	2992.54	237.57	1.03	SlmPulse	1
147	11746.00	90.99	270.21	94.00	8790.39	1094.29	-1604.53	-2619.80	3072.11	238.51	0.15	SlmPulse	1
148	11841.00	91.06	270.55	95.00	8788.69	1114.29	-1603.90	-2714.78	3153.18	239.43	0.37	SlmPulse	1
149	11935.00	90.93	270.65	94.00	8787.05	1134.29	-1602.92	-2808.76	3233.96	240.29	0.17	SlmPulse	1
150	12029.00	91.03	270.84	94.00	8785.45	1154.29	-1601.69	-2902.74	3315.32	241.11	0.23	SlmPulse	1
151	12124.00	90.86	270.77	95.00	8783.88	1174.29	-1600.36	-2997.72	3398.16	241.90	0.19	SlmPulse	1
152	12218.00	90.89	270.72	94.00	8782.44	1194.29	-1599.14	-3091.70	3480.78	242.65	0.06	SlmPulse	1
153	12312.00	89.86	270.97	94.00	8781.83	1214.29	-1597.75	-3185.69	3563.9	243.36	1.13	SlmPulse	1
154	12406.00	89.79	271.20	94.00	8781.22	1234.29	-1595.97	-3279.67	3647.38	244.05	0.26	SlmPulse	1
155	12501.00	89.72	270.83	95.00	8782.52	1254.29	-1594.29	-3374.65	3732.3	244.71	0.40	SlmPulse	1
156	12595.00	89.93	270.96	94.00	8783.81	1274.29	-1592.82	-3468.64	3816.88	245.34	0.26	SlmPulse	1
157	12689.00	89.55	270.76	94.00	8783.24	1294.29	-1591.41	-3562.63	3901.91	245.93	0.46	SlmPulse	1
158	12783.00	89.76	271.12	94.00	8784.15	1314.29	-1589.87	-3656.61	3987.29	246.50	0.44	SlmPulse	1
159	12878.00	89.82	271.13	95.00	8784.15	1334.29	-1588.00	-3751.59	4073.84	247.06	0.06	SlmPulse	1
160	12972.00	89.75	271.11	94.00	8784.50	1354.29	-1586.16	-3845.58	4159.85	247.59	0.08	SlmPulse	1
161	13066.00	89.82	270.89	94.00	8784.86	1374.29	-1584.52	-3939.56	4246.28	248.09	0.25	SlmPulse	1
162	13160.00	89.75	271.23	94.00	8785.21	1394.29	-1582.79	-4033.54	4332.98	248.57	0.37	SlmPulse	1
163	13254.00	90.17	269.55	94.00	8785.27	1414.29	-1581.02	-4127.54	4420.38	249.03	1.84	SlmPulse	1
164	13348.00	90.13	269.38	94.00	8785.03	1434.29	-1583.02	-4221.53	4508.58	249.44	0.19	SlmPulse	1
165	13443.00	90.37	269.22	95.00	8784.61	1454.29	-1584.18	-4316.53	4598.05	249.85	0.30	SlmPulse	1
166	13537.00	90.03	269.96	94.00	8784.20	1474.29	-1585.68	-4410.51	4686.9	250.23	0.46	SlmPulse	1
167	13631.00	90.23	269.32	94.00	8784.07	1494.29	-1587.09	-4504.50	4775.92	250.59	0.44	SlmPulse	1
168	13725.00	90.16	270.00	94.00	8783.75	1514.29	-1587.65	-4598.50	4864.85	250.95	0.73	SlmPulse	1
169	13819.00	90.16	269.20	94.00	8783.49	1534.29	-1588.30	-4692.50	4954.01	251.30	0.85	SlmPulse	1
170	13913.00	90.27	269.48	94.00	8783.14	1554.29	-1589.38	-4786.49	5043.47	251.63	0.33	SlmPulse	1
171	14008.00	90.20	269.48	95.00	8782.75	1574.29	-1590.73	-4881.48	5133.98	251.96	0.07	SlmPulse	1
172	14102.00	90.30	269.43	94.00	8782.34	1594.29	-1591.12	-4975.48	5223.7	252.27	0.12	SlmPulse	1
173	14196.00	90.13	269.02	94.00	8781.98	1614.29	-1592.40	-5069.47	5313.68	252.56	0.47	SlmPulse	1
174	14290.00	90.47	269.16	94.00	8781.69	1634.29	-1593.89	-5163.46	5403.87	252.85	0.39	SlmPulse	1
175	14385.00	90.16	269.43	95.00	8780.97	1654.29	-1595.06	-5258.45	5495.04	253.13	0.43	SlmPulse	1
176	14479.00	90.48	269.61	94.00	8780.45	1674.29	-1595.83	-5352.44	5585.28	253.40	0.40	SlmPulse	1
177	14573.00	90.17	269.44	94.00	8779.91	1694.29	-1596.59	-5446.44	5675.63	253.66	0.39	SlmPulse	1
178	14668.00	90.10	269.05	95.00	8779.64	1714.29	-1597.84	-5541.43	5767.2	253.92	0.42	SlmPulse	1
179	14762.00	89.96	268.82	94.00	8779.64	1734.29	-1599.59	-5635.41	5858.03	254.15	0.29	SlmPulse	1
180	14856.00	90.13	269.36	94.00	8779.57	1754.29	-1601.08	-5729.40	5948.91	254.39	0.60	SlmPulse	1
181	14951.00	90.13	269.24	95.00	8779.35	1774.29	-1602.24	-5824.39	6040.76	254.62	0.13	SlmPulse	1
182	15045.00	89.96	269.17	94.00	8779.28	1794.29	-1603.55	-5918.38	6131.77	254.84	0.20	SlmPulse	1
183	15139.00	90.13	268.90	94.00	8779.20	1814.29	-1605.13	-6012.37	6222.95	255.05	0.34	SlmPulse	1
184	15233.00	89.89	269.05	94.00	8779.13	1834.29	-1606.81	-6106.36	6314.22	255.26	0.30	SlmPulse	1
185	15327.00	90.27	270.52	95.00	8779.05	1854.29	-1607.17	-6201.35	6406.23	255.47	1.60	SlmPulse	1
186	15422.00	90.03	270.91	94.00	8778.81	1874.29	-1608.00	-6295.34	6498.97	255.69	0.49	SlmPulse	1
187	15517.00	89.99	270.84	95.00	8778.79	1894.29	-1604.55	-6390.33	6588.7	255.91	0.08	SlmPulse	1
188	15611.00	89.96	270.78	94.00	8778.83	1914.29	-1603.72	-6484.32	6679.58	256.11	0.07	SlmPulse	1
189	15705.00	90.17	270.57	94.00	8778.70	1934.29	-1602.11	-6578.32	6768.97	256.31	0.32	SlmPulse	1