

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

August 14, 2015

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND ,TX 79701

Re:

Sec 13, T25S, R26E Eddy NM
N 32.13696 W 104.25290

CLIENT: Cimarex Energy Co.
WELL: Federal 13 Com #10H
FIELD: Wildcat
RIG: H&P 381
COUNTY: Eddy
API NO: 30-015-42665
JOB NO: 15MLD2225

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>
Justin Medlock MWD	Federal 13 Com #10H Original Hole	6717.00 Ft to 11747.00 Ft	August 8, 2015 to August 13, 2015	SlimPulse

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

Joseph Hogan
Field Service Manager

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 20 2015
RECEIVED

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Well Reference:

Sec 13, T25S, R26E Eddy NM
N 32.13696 W 104.25290

I, Justin Medlock certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 08, 2015 through August 13, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 6717.00 feet to a depth of 11747.00 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 Federal 13 Com #10H Well (Original Hole) API No. 30-015-42665 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
Justin Medlock
MWD

Justin Medlock 08/15/15

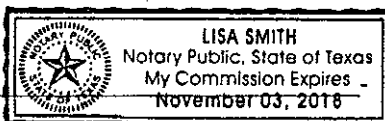
Subscribed and Sworn to before me this 15th day of August (month) 2015 (yr)

My Commission expires:

11-3-18

Notary Public

Lisa Smith



(signature)

Lubbock Texas

(County State)

SCHLUMBERGER
Survey Report

17-Aug-2015

Client..... Cimarex Energy Co
Field..... Wildcat

Well..... Federal 13 Com #10H
API number..... 30-015-42665
Engineer..... Justin Medlock

Spud date..... 12-Jul-15
Last survey date..... 13-Aug-15
Total accepted surveys..... 65
MD of first survey..... 6717.00 ft
MD of last survey..... 11747.00 ft

County..... Eddy
State..... New Mexico
Rig..... H&P 381

Latitude..... 32° 8' 13.04" N
Longitude..... 104° 15' 10.45" 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..... 3278.00
KB above permanent..... 3303.00
DF above permanent..... 3303.00

----- 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..... 566233.00 ft
Y..... 413569.10 ft

Azimuth from Vsect Origin to target: 179.70 degrees

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

-----Run1----- Calculation Date: 8-Aug-2015
Location G..... 998.94325 mgn Tolerance G..... 2.50 mgn
Location B..... 48267.32 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.8974 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 10-Aug-2015
Location G..... 998.94325 mgn Tolerance G..... 2.50 mgn
Location B..... 48266.73 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.8973 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

-----Run1-----
Magnetic dec (+E/W-)..... 7.6814 degrees
Grid Conv (+E/W-)..... 0.0414 degrees
Total Azim Corr (+E/W-)..... 7.64 degrees

-----Run2-----
Magnetic dec (+E/W-)..... 7.6808 degrees
Grid Conv (+E/W-)..... 0.0408 degrees
Total Azim Corr (+E/W-)..... 7.64 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	151.00	0.48	187.35	151.00	151.00	0.63	-0.63	-0.08	0.63	187.35	0.32	Other	0
3	182.00	0.70	209.67	31.00	182.00	0.92	-0.92	-0.19	0.94	191.74	1.01	Other	0
4	212.00	0.70	200.57	30.00	211.99	1.25	-1.25	-0.35	1.3	195.47	0.37	Other	0
5	243.00	0.70	216.44	31.00	242.99	1.58	-1.58	-0.53	1.67	198.38	0.62	Other	0
6	274.00	0.79	237.05	31.00	273.99	1.85	-1.85	-0.82	2.02	203.84	0.91	Other	0
7	336.00	0.88	239.77	62.00	335.98	2.31	-2.32	-1.59	2.81	214.36	0.16	Other	0
8	457.00	1.01	248.96	121.00	456.97	3.15	-3.17	-3.39	4.64	226.86	0.16	Other	0
9	518.00	1.01	251.55	61.00	517.96	3.51	-3.54	-4.40	5.64	231.20	0.07	Other	0
10	578.00	1.01	248.26	60.00	577.95	3.87	-3.90	-5.39	6.65	234.12	0.10	Other	0
11	671.00	1.01	251.46	93.00	670.93	4.43	-4.46	-6.93	8.24	237.21	0.06	Other	0
12	762.00	0.88	253.35	91.00	761.92	4.87	-4.92	-8.36	9.7	239.53	0.15	Other	0

13	854.00	0.70	259.77	92.00	853.91	5.17	-5.22	-9.59	10.92	241.43	0.22	Other	0
14	945.00	0.70	271.85	91.00	944.91	5.25	-5.30	-10.69	11.93	243.62	0.16	Other	0
15	1035.00	0.70	299.36	90.00	1034.90	4.95	-5.01	-11.72	12.75	246.84	0.37	Other	0
16	1126.00	0.70	283.94	91.00	1125.89	4.54	-4.61	-12.74	13.55	250.12	0.21	Other	0
17	1216.00	0.70	330.04	90.00	1215.89	3.93	-4.00	-13.55	14.13	253.56	0.61	Other	0
18	1307.00	0.79	57.45	91.00	1306.88	3.11	-3.18	-13.30	13.68	256.55	1.13	Other	0
19	1398.00	1.01	74.67	91.00	1397.87	2.57	-2.63	-12.00	12.28	257.64	0.38	Other	0
20	1493.00	1.19	76.65	95.00	1492.85	2.13	-2.18	-10.23	10.46	257.97	0.19	Other	0
21	1588.00	2.20	84.47	95.00	1587.81	1.74	-1.78	-7.46	7.66	256.59	1.09	Other	0
22	1683.00	2.99	86.76	95.00	1682.71	1.45	-1.46	-3.17	3.49	245.23	0.84	Other	0
23	1778.00	1.19	96.95	95.00	1777.64	1.44	-1.44	0.29	1.47	168.77	1.93	Other	0
24	1831.00	0.79	92.65	53.00	1830.64	1.53	-1.52	1.20	1.94	141.86	0.77	Other	0
25	1972.00	0.70	107.76	141.00	1971.62	1.85	-1.83	2.99	3.51	121.51	0.15	Other	0
26	2062.00	0.62	98.97	90.00	2061.62	2.10	-2.08	3.99	4.5	117.47	0.14	Other	0
27	2157.00	0.48	79.24	95.00	2156.61	2.11	-2.08	4.89	5.32	113.05	0.25	Other	0
28	2256.00	0.40	77.35	99.00	2255.61	1.96	-1.93	5.64	5.96	108.89	0.08	Other	0
29	2350.00	0.48	93.26	94.00	2349.61	1.91	-1.88	6.35	6.62	106.49	0.15	Other	0
30	2445.00	0.48	96.16	95.00	2444.61	1.98	-1.94	7.14	7.4	105.23	0.03	Other	0
31	2540.00	0.40	114.44	95.00	2539.60	2.17	-2.12	7.84	8.12	105.16	0.17	Other	0
32	2635.00	0.09	98.97	95.00	2634.60	2.32	-2.27	8.22	8.52	105.47	0.33	Other	0
33	2730.00	0.00	7.61	95.00	2729.60	2.33	-2.28	8.29	8.6	105.41	0.09	Other	0
34	2825.00	0.22	293.04	95.00	2824.60	2.26	-2.21	8.12	8.42	105.25	0.23	Other	0
35	2919.00	0.31	266.36	94.00	2918.60	2.20	-2.16	7.70	8	105.66	0.16	Other	0
36	3014.00	0.31	284.16	95.00	3013.60	2.15	-2.11	7.20	7.5	106.36	0.10	Other	0
37	3109.00	0.40	258.36	95.00	3108.60	2.15	-2.12	6.62	6.95	107.72	0.19	Other	0
38	3204.00	0.22	265.04	95.00	3203.60	2.23	-2.20	6.12	6.5	109.78	0.19	Other	0
39	3298.00	0.31	259.15	94.00	3297.59	2.29	-2.26	5.69	6.12	111.70	0.10	Other	0
40	3393.00	0.22	264.47	95.00	3392.59	2.36	-2.33	5.25	5.75	113.91	0.10	Other	0
41	3488.00	0.31	282.05	95.00	3487.59	2.32	-2.29	4.82	5.34	115.44	0.13	Other	0
42	3583.00	0.40	263.94	95.00	3582.59	2.30	-2.27	4.24	4.81	118.21	0.15	Other	0
43	3678.00	0.40	274.67	95.00	3677.59	2.30	-2.28	3.58	4.24	122.53	0.08	Other	0
44	3773.00	0.62	242.54	95.00	3772.59	2.51	-2.49	2.79	3.74	131.76	0.37	Other	0
45	3868.00	0.79	241.05	95.00	3867.58	3.06	-3.05	1.76	3.52	149.95	0.18	Other	0
46	3963.00	0.62	236.87	95.00	3962.57	3.65	-3.64	0.76	3.72	168.24	0.19	Other	0
47	4058.00	0.40	268.73	95.00	4057.57	3.93	-3.93	0.00	3.93	180.05	0.37	Other	0
48	4153.00	0.22	223.34	95.00	4152.57	4.07	-4.07	-0.46	4.1	186.45	0.31	Other	0
49	4247.00	0.31	220.17	94.00	4246.56	4.39	-4.40	-0.75	4.46	189.65	0.10	Other	0
50	4342.00	0.22	233.36	95.00	4341.56	4.70	-4.70	-1.06	4.82	192.70	0.11	Other	0
51	4437.00	0.22	195.57	95.00	4436.56	4.98	-4.99	-1.26	5.14	194.13	0.15	Other	0
52	4532.00	0.22	168.40	95.00	4531.56	5.34	-5.34	-1.27	5.49	193.35	0.11	Other	0
53	4627.00	0.22	158.96	95.00	4626.56	5.68	-5.69	-1.17	5.81	191.58	0.04	Other	0
54	4722.00	0.22	210.77	95.00	4721.56	6.01	-6.02	-1.19	6.13	191.22	0.20	Other	0
55	4817.00	0.31	145.16	95.00	4816.56	6.38	-6.39	-1.14	6.49	190.12	0.31	Other	0
56	4912.00	0.40	154.74	95.00	4911.56	6.89	-6.90	-0.85	6.95	187.04	0.11	Other	0
57	5007.00	0.31	178.87	95.00	5006.56	7.45	-7.45	-0.71	7.49	185.40	0.18	Other	0
58	5102.00	0.48	179.96	95.00	5101.55	8.10	-8.11	-0.70	8.14	184.93	0.18	Other	0
59	5197.00	0.40	194.33	95.00	5196.55	8.82	-8.83	-0.78	8.86	185.06	0.14	Other	0
60	5291.00	0.62	190.25	94.00	5290.55	9.64	-9.65	-0.95	9.69	185.64	0.24	Other	0
61	5386.00	0.79	193.94	95.00	5385.54	10.78	-10.79	-1.20	10.85	186.36	0.19	Other	0
62	5481.00	1.01	208.57	95.00	5480.53	12.15	-12.16	-1.76	12.28	188.24	0.33	Other	0
63	5576.00	1.32	200.97	95.00	5575.51	13.90	-13.91	-2.55	14.15	190.40	0.36	Other	0
64	5671.00	1.32	214.95	95.00	5670.48	15.81	-15.83	-3.57	16.23	192.71	0.34	Other	0
65	5766.00	1.19	232.57	95.00	5765.46	17.30	-17.33	-4.98	18.03	196.04	0.43	Other	0
66	5860.00	0.79	222.86	94.00	5859.45	18.37	-18.40	-6.20	19.41	198.62	0.46	Other	0
67	5955.00	1.10	183.26	95.00	5954.44	19.75	-19.79	-6.69	20.89	198.69	0.74	Other	0
68	6050.00	1.49	178.73	95.00	6049.41	21.90	-21.93	-6.72	22.94	197.03	0.42	Other	0
69	6145.00	0.70	162.74	95.00	6144.39	23.69	-23.72	-6.52	24.6	195.37	0.88	Other	0
70	6240.00	0.22	233.53	95.00	6239.39	24.35	-24.39	-6.49	25.24	194.91	0.70	Other	0
71	6335.00	0.48	303.06	95.00	6334.39	24.24	-24.28	-6.97	25.26	196.03	0.48	Other	0
72	6430.00	1.10	301.96	95.00	6429.38	23.53	-23.58	-8.08	24.92	198.92	0.65	Other	0
73	6525.00	1.58	287.37	95.00	6524.35	22.65	-22.70	-10.10	24.85	203.99	0.62	Other	0
74	6620.00	2.20	278.67	95.00	6619.30	21.97	-22.04	-13.16	25.67	210.84	0.72	Other	0
75	6667.00	2.50	271.55	47.00	6666.26	21.79	-21.87	-15.07	26.56	214.57	0.89	Other	0
76	6717.00	2.77	228.19	50.00	6716.21	22.56	-22.65	-17.07	28.36	217.00	3.93	SlimPulse	0
77	6744.00	5.46	194.23	27.00	6743.15	24.24	-24.33	-17.87	30.19	216.29	13.02	SlimPulse	0
78	6776.00	10.78	182.02	32.00	6774.82	28.70	-28.80	-18.35	34.15	212.50	17.39	SlimPulse	0
79	6807.00	15.70	178.31	31.00	6804.98	35.80	-35.90	-18.33	40.3	207.05	16.11	SlimPulse	0
80	6839.00	17.99	175.55	32.00	6835.61	45.06	-45.15	-17.82	48.54	201.53	7.57	SlimPulse	0
81	6871.00	19.72	172.80	32.00	6865.89	55.35	-55.44	-16.76	57.91	196.82	6.07	SlimPulse	0
82	6902.00	23.38	171.61	31.00	6894.72	66.63	-66.71	-15.20	68.43	192.84	11.90	SlimPulse	0
83	6934.00	27.28	173.97	32.00	6923.64	80.22	-80.30	-13.51	81.42	189.55	12.59	SlimPulse	0
84	6981.00	33.61	177.58	47.00	6964.14	103.97	-104.03	-11.82	104.7	186.48	14.01	SlimPulse	0
85	7029.00	39.05	178.13	48.00	7002.79	132.38	-132.44	-10.77	132.87	184.65	11.35	SlimPulse	0
86	7076.00	44.02	178.10	47.00	7037.97	163.52	-163.57	-9.74	163.86	183.41	10.58	SlimPulse	0
87	7124.00	47.96	177.81	48.00	7071.31	198.02	-198.07	-8.51	198.25	182.46	8.23	SlimPulse	0
88	7171.00	55.15	176.87	47.00	7100.51	234.77	-234.81	-6.79	234.91	181.66	15.38	SlimPulse	0
89	7218.00	60.55	175.83	47.00	7125.51	274.48	-274.51	-4.24	274.54	180.89	11.62	SlimPulse	0
90	7265.00	65.88	177.20	47.00	7146.69	316.36	-316.37	-1.71	316.38	180.31	11.64	SlimPulse	0
91	7313.00	69.06	178.85	48.00	7165.08	360.67	-360.68	-0.19	360.68	180.03	7.35	SlimPulse	0
92	7360.00	74.15	180.50	47.00	7179.90	405.25	-405.26	0.06	405.26	179.99	11.33	SlimPulse	0
93	7408.00	80.57	181.52	48.00	7190.40	452.05	-452.06	-0.77	452.06	180.10	13.53	SlimPulse	0
94	7503.00	90.31	182.65	95.00	7197.94	546.55	-546.58	-4.22	546.6	180.44	10.32	SlimPulse	0
95	7541.00	91.17	182.49	38.00	7197.45	584.50	-584.54	-5.92	584.57	180.58	2.30	SlimPulse	0
96	7636.00	89.42	181.54	95.00	7196.96	679.42	-679.48	-9.27	679.54	180.78	2.10	SlimPulse	0
97	7731.00	89.00	181.27	95.00	7198.27	774.37	-774.44	-11.60	774.53	180.86	0.52	SlimPulse	0

98	7825.00	88.93	178.50	94.00	7199.97	868.34	-868.41	-11.40	868.49	180.75	2.95	SlimPulse	0
99	7920.00	88.86	178.35	95.00	7201.79	963.30	-963.36	-8.79	963.4	180.52	0.18	SlimPulse	0
100	8015.00	89.04	178.42	95.00	7203.53	1058.26	-1058.31	-6.11	1058.33	180.33	0.20	SlimPulse	0
101	8110.00	88.90	179.24	95.00	7205.24	1153.23	-1153.27	-4.16	1153.28	180.21	0.87	SlimPulse	0
102	8205.00	88.90	179.24	95.00	7207.07	1248.21	-1248.25	-2.90	1248.25	180.13	0.00	SlimPulse	0
103	8300.00	88.97	179.16	95.00	7208.84	1343.19	-1343.22	-1.57	1343.22	180.07	0.11	SlimPulse	0
104	8394.00	89.00	179.07	94.00	7210.50	1437.17	-1437.19	-0.12	1437.19	180.00	0.11	SlimPulse	0
105	8489.00	88.97	179.78	95.00	7212.18	1532.16	-1532.17	0.84	1532.17	179.97	0.75	SlimPulse	0
106	8584.00	88.90	179.29	95.00	7213.95	1627.14	-1627.15	1.61	1627.15	179.94	0.53	SlimPulse	0
107	8679.00	88.73	178.95	95.00	7215.92	1722.11	-1722.12	3.07	1722.12	179.90	0.40	SlimPulse	0
108	8773.00	88.86	179.30	94.00	7217.89	1816.09	-1816.09	4.50	1816.1	179.85	0.40	SlimPulse	0
109	8868.00	88.86	179.26	95.00	7219.78	1911.07	-1911.06	5.70	1911.07	179.83	0.05	SlimPulse	0
110	8963.00	88.83	179.07	95.00	7221.69	2006.04	-2006.03	7.09	2006.05	179.80	0.20	SlimPulse	0
111	9058.00	88.97	179.58	95.00	7223.51	2101.02	-2101.01	8.21	2101.03	179.78	0.56	SlimPulse	0
112	9153.00	88.90	179.51	95.00	7225.28	2196.01	-2195.99	8.97	2196.01	179.77	0.10	SlimPulse	0
113	9248.00	88.97	179.75	95.00	7227.05	2290.99	-2290.97	9.58	2290.99	179.76	0.25	SlimPulse	0
114	9342.00	88.86	179.85	94.00	7228.83	2384.97	-2384.95	9.91	2384.98	179.76	0.16	SlimPulse	0
115	9437.00	88.93	179.29	95.00	7230.65	2479.96	-2479.93	10.62	2479.96	179.75	0.60	SlimPulse	0
116	9532.00	88.93	179.27	95.00	7232.42	2574.94	-2574.91	11.81	2574.94	179.74	0.01	SlimPulse	0
117	9626.00	88.86	179.38	94.00	7234.22	2668.92	-2668.89	12.92	2668.92	179.72	0.13	SlimPulse	0
118	9721.00	89.28	179.55	95.00	7235.76	2763.90	-2763.87	13.81	2763.9	179.71	0.47	SlimPulse	0
119	9816.00	89.00	179.28	95.00	7237.19	2858.89	-2858.85	14.77	2858.89	179.70	0.40	SlimPulse	0
120	9910.00	88.18	178.12	94.00	7239.50	2952.85	-2952.80	16.90	2952.85	179.67	1.52	SlimPulse	0
121	10005.00	89.17	179.60	95.00	7241.70	3047.81	-3047.75	18.78	3047.81	179.65	1.88	SlimPulse	0
122	10100.00	88.80	178.77	95.00	7243.38	3142.79	-3142.73	20.13	3142.79	179.63	0.96	SlimPulse	0
123	10194.00	89.00	179.31	94.00	7245.19	3236.76	-3236.69	21.70	3236.77	179.62	0.61	SlimPulse	0
124	10289.00	88.90	179.08	95.00	7246.93	3331.74	-3331.67	23.03	3331.75	179.60	0.26	SlimPulse	0
125	10384.00	88.90	178.82	95.00	7248.75	3426.72	-3426.64	24.77	3426.72	179.59	0.28	SlimPulse	0
126	10478.00	88.93	179.22	94.00	7250.53	3520.69	-3520.60	26.37	3520.7	179.57	0.43	SlimPulse	0
127	10573.00	89.07	180.47	95.00	7252.19	3615.68	-3615.59	26.63	3615.69	179.58	1.32	SlimPulse	0
128	10668.00	88.73	181.32	95.00	7254.01	3710.64	-3710.56	25.15	3710.64	179.61	0.97	SlimPulse	0
129	10762.00	88.45	181.05	94.00	7256.33	3804.58	-3804.51	23.20	3804.58	179.65	0.41	SlimPulse	0
130	10857.00	88.73	180.94	95.00	7258.66	3899.53	-3899.47	21.55	3899.53	179.68	0.31	SlimPulse	0
131	10952.00	89.45	181.74	95.00	7260.18	3994.47	-3994.43	19.33	3994.47	179.72	1.13	SlimPulse	0
132	11047.00	89.04	181.10	95.00	7261.43	4089.42	-4089.39	16.98	4089.42	179.76	0.80	SlimPulse	0
133	11142.00	89.11	179.37	95.00	7262.97	4184.40	-4184.37	16.58	4184.4	179.77	1.82	SlimPulse	0
134	11237.00	89.14	178.71	95.00	7264.42	4279.38	-4279.35	18.17	4279.39	179.76	0.70	SlimPulse	0
135	11331.00	89.31	178.37	94.00	7265.69	4373.35	-4373.31	20.56	4373.36	179.73	0.41	SlimPulse	0
136	11426.00	88.80	177.88	95.00	7267.26	4468.31	-4468.24	23.67	4468.31	179.70	0.75	SlimPulse	0
137	11521.00	89.28	178.61	95.00	7268.86	4563.26	-4563.18	26.59	4563.26	179.67	0.92	SlimPulse	0
138	11616.00	89.59	178.91	95.00	7269.80	4658.24	-4658.16	28.65	4658.24	179.65	0.46	SlimPulse	0
139	11711.00	89.62	178.83	95.00	7270.46	4753.23	-4753.14	30.52	4753.23	179.63	0.09	SlimPulse	0
140	11747.00	89.31	178.39	36.00	7270.79	4789.22	-4789.12	31.40	4789.23	179.62	1.50	SlimPulse	0
141	11814.00	89.31	178.39	67.00	7271.60	4856.20	-4856.09	33.28	4856.21	179.61	0.01	PROJ	0