



MWD SURVEY CERTIFICATION
Legacy Directional Drilling, LLC.

State Of New Mexico

30.015.44424

County Of Eddy

I, Mark L. Miller certify that; I am employed by Legacy Directional Drilling, LLC.;
that I did on the day(s) of April 29, 2018 through June 1, 2018 conduct
or supervise the taking of a MWD survey from a depth of 1,054 feet to a depth of
17,614 feet; that the data is true, correct, complete and within the limitations of the
tool set forth by Legacy Directional Drilling, LLC.; that I am authorized and qualified to make this report;
that this survey was conducted at the request of Devon Energy Production CO,LP for the
Lusitano 27-34 FED COM 235H Well, A.P.I. No. 30-015-44424 in
Jennings, Bone Spring, West Field and that I have reviewed this report and find that
it conforms to the principles and procedures set forth by Legacy Directional Drilling, LLC.

Surveyor's Signature

MLWD Technical Director

Title



Directional Survey Report

Company Name: DEVON ENERGY PRODUCTION CO. LLC

State/Prov: NM

Survey Company: Legacy Directional

Proposed Azimuth: 179.85°

Well Name: LUSITANO 27-34 FED COM 235H

County: Eddy

Job Number: LF180005

Dedination: 6.7°

Field: JENNINGS; BONE SPRING, WEST

Location: SEC 27 / T 25S / R 31E

Latitude: 32° 6' 26.507" N

North Reference: GRID

Rig ID: ICD 217

API/UWI: 30-015-44424

Longitude: 103° 45' 29.894" W

KB: 3362 FT

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
Tie-In	1014	0.80	213.71	1013.65	-6.31	-0.30	6.31	0.00	0.00	6.32	182.72	0
1	1064	1.26	218.70	1063.94	-7.03	-0.84	7.08	0.94	50.00	7.08	186.79	70.6
2	1158	0.35	201.76	1157.93	-8.10	-1.59	8.10	0.99	94.00	8.26	191.10	70.6
3	1252	0.54	99.59	1251.93	-8.44	-1.26	8.44	0.75	94.00	8.54	188.49	77.7
4	1345	1.13	77.76	1344.92	-8.32	0.07	8.32	0.71	93.00	8.32	179.53	77.7
5	1438	1.63	49.24	1437.89	-7.26	1.97	7.27	0.90	93.00	7.53	164.85	84.9
6	1532	2.50	37.59	1531.83	-4.77	4.23	4.78	1.02	94.00	6.37	138.41	84.9
7	1623	3.39	39.72	1622.71	-1.12	7.16	1.14	0.99	91.00	7.25	98.02	84.9
8	1716	4.22	38.33	1715.51	3.68	11.04	-3.65	0.90	93.00	11.84	71.59	92.0
9	1811	4.57	33.43	1810.23	9.58	15.29	-9.54	0.54	95.00	18.04	57.95	92.0
10	1905	4.81	30.79	1903.91	18.09	19.37	-18.04	0.34	94.00	25.18	50.29	99.1
11	2000	5.16	23.25	1998.55	23.43	23.10	-23.37	0.78	95.00	32.90	44.59	99.1
12	2095	5.54	15.24	2093.14	31.78	25.99	-31.71	0.88	95.00	41.06	39.27	99.1
13	2191	5.27	13.95	2188.71	40.53	28.27	-40.46	0.31	96.00	49.42	34.89	106.3
14	2286	4.99	12.73	2283.33	48.80	30.23	-48.72	0.32	95.00	57.40	31.78	106.3
15	2381	5.32	18.88	2377.95	56.99	32.57	-56.91	0.68	95.00	65.84	29.75	106.3
16	2476	5.16	20.65	2472.55	65.16	35.50	-65.07	0.24	95.00	74.20	28.58	113.4
17	2571	4.98	20.93	2567.18	73.01	38.48	-72.91	0.19	95.00	82.53	27.79	113.4
18	2667	4.86	22.12	2662.83	80.67	41.50	-80.56	0.16	96.00	90.72	27.22	113.4
19	2762	4.84	19.00	2757.49	88.18	44.32	-88.07	0.28	95.00	98.70	26.68	120.6
20	2857	4.56	21.04	2852.17	95.50	46.98	-95.38	0.34	95.00	106.43	26.19	113.4
21	2952	4.75	17.54	2946.85	102.77	49.52	-102.64	0.36	95.00	114.08	25.73	120.6
22	3047	5.11	16.29	3041.50	110.59	51.89	-110.45	0.40	95.00	122.16	25.14	120.6
23	3142	5.12	24.31	3136.13	118.51	54.83	-118.37	0.75	95.00	130.58	24.83	127.7
24	3238	5.43	22.44	3231.72	126.61	58.32	-126.46	0.37	96.00	139.40	24.73	127.7
25	3332	5.17	22.87	3325.32	134.62	61.67	-134.46	0.28	94.00	148.08	24.61	127.7
26	3428	4.86	19.93	3420.95	142.43	64.73	-142.26	0.42	96.00	156.45	24.44	127.7
27	3523	4.34	19.92	3515.64	149.80	67.33	-149.42	0.55	95.00	164.05	24.23	127.7
28	3619	4.37	19.78	3611.37	156.45	69.81	-156.27	0.03	96.00	171.32	24.05	127.7
29	3714	4.48	24.71	3706.08	163.23	72.58	-163.04	0.42	95.00	178.64	23.97	127.7
30	3809	4.75	20.08	3800.78	170.29	75.48	-170.10	0.48	95.00	186.27	23.91	127.7
31	3904	5.28	17.19	3895.41	178.16	78.12	-177.96	0.62	95.00	194.54	23.68	134.9
32	3999	4.74	19.44	3990.05	186.04	80.72	-185.83	0.60	95.00	202.80	23.46	127.7
33	4094	4.65	21.84	4084.72	193.47	83.52	-193.25	0.24	95.00	210.73	23.35	134.9

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
34	4189	4.67	19.51	4179.39	200.84	86.31	-200.82	0.28	95.00	218.60	23.25	127.7
35	4284	5.08	18.71	4274.04	208.47	88.95	-208.24	0.44	95.00	226.66	23.11	134.9
36	4358	5.00	18.98	4347.78	214.63	91.05	-214.39	0.11	74.00	233.14	22.99	134.9
37	4465	4.82	18.20	4454.37	223.35	93.82	-223.11	0.28	107.00	242.26	22.78	134.9
38	4559	5.56	24.51	4547.98	231.29	96.81	-231.03	1.12	94.00	250.73	22.71	106.3
39	4654	5.14	26.95	4642.57	239.27	100.65	-239.00	0.50	95.00	259.58	22.81	106.3
40	4749	5.54	22.01	4737.15	247.31	104.29	-247.04	0.64	95.00	268.41	22.87	106.3
41	4844	4.89	16.16	4831.76	255.45	107.14	-255.17	0.88	95.00	277.01	22.75	113.4
42	4938	4.25	14.98	4925.48	262.67	109.15	-262.38	0.69	94.00	284.44	22.57	113.4
43	5033	5.02	23.05	5020.15	269.89	111.69	-269.60	1.06	95.00	292.09	22.48	113.4
44	5127	4.86	24.14	5113.80	277.31	114.93	-277.01	0.20	94.00	300.18	22.51	113.4
45	5222	4.02	23.26	5208.52	284.04	117.89	-283.73	0.89	95.00	307.54	22.54	120.6
46	5316	4.62	21.42	5302.25	290.59	120.58	-290.28	0.66	94.00	314.62	22.53	120.6
47	5412	3.95	18.65	5397.98	297.33	123.04	-297.00	0.73	96.00	321.78	22.48	120.6
48	5506	3.56	18.72	5491.78	303.16	125.02	-302.83	0.41	94.00	327.92	22.41	120.6
49	5601	3.33	15.99	5586.61	308.90	126.72	-308.27	0.30	95.00	333.61	22.32	120.6
50	5696	2.43	5.33	5681.49	313.26	127.67	-312.93	1.10	95.00	338.28	22.17	120.6
51	5791	1.60	10.09	5776.43	316.57	128.09	-316.24	0.89	95.00	341.50	22.03	120.6
52	5885	0.40	38.20	5870.41	318.12	128.52	-317.78	1.34	94.00	343.10	22.00	120.6
53	5980	0.45	27.28	5965.41	318.71	128.90	-318.38	0.10	95.00	343.79	22.02	120.6
54	6075	0.33	32.87	6060.41	319.28	129.22	-318.94	0.13	95.00	344.43	22.03	127.7
55	6170	0.12	51.74	6155.41	319.57	129.45	-319.23	0.23	95.00	344.79	22.05	127.7
56	6265	0.08	277.43	6250.41	319.64	129.46	-319.30	0.19	95.00	344.86	22.05	127.7
57	6360	0.19	271.90	6345.41	319.65	129.23	-319.31	0.12	95.00	344.79	22.01	127.7
58	6454	0.24	255.34	6439.41	319.61	128.89	-319.27	0.08	94.00	344.62	21.96	127.7
59	6549	0.28	202.90	6534.40	319.34	128.61	-319.00	0.24	95.00	344.27	21.94	127.7
60	6644	0.28	224.07	6629.40	318.96	128.35	-318.62	0.11	95.00	343.82	21.92	127.7
61	6739	0.38	265.81	6724.40	318.77	127.88	-318.44	0.27	95.00	343.47	21.88	127.7
62	6834	0.51	233.18	6819.40	318.50	127.23	-318.16	0.29	95.00	342.97	21.77	127.7
63	6929	0.65	220.86	6914.39	317.83	126.53	-317.50	0.20	95.00	342.10	21.71	127.7
64	7024	0.12	244.71	7009.39	317.38	126.09	-317.05	0.57	95.00	341.51	21.67	127.7
65	7119	0.14	183.83	7104.39	317.23	125.99	-316.90	0.14	95.00	341.33	21.66	134.9
66	7214	0.26	154.76	7199.39	316.92	126.08	-316.58	0.16	95.00	341.07	21.69	134.9
67	7308	0.37	171.84	7293.39	316.42	126.21	-316.09	0.15	94.00	340.66	21.75	134.9
68	7403	0.54	165.82	7388.39	315.88	126.37	-315.35	0.19	95.00	340.04	21.82	134.9
69	7498	0.14	273.52	7483.38	315.26	126.38	-314.93	0.63	95.00	339.64	21.84	134.9
70	7592	0.21	225.00	7577.38	315.14	126.12	-314.81	0.17	94.00	339.44	21.81	134.9
71	7687	0.20	197.39	7672.38	314.86	125.95	-314.53	0.10	95.00	339.12	21.80	134.9
72	7782	0.29	167.08	7767.38	314.47	125.95	-314.14	0.16	95.00	338.76	21.83	134.9

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
73	7877	0.31	47.28	7862.38	314.41	126.20	-314.08	0.55	95.00	338.79	21.87	134.9
74	7971	0.26	84.25	7956.38	314.60	126.60	-314.27	0.20	94.00	339.12	21.92	134.9
75	8068	0.71	9.71	8051.38	315.20	126.91	-314.87	0.72	95.00	339.79	21.93	134.9
76	8161	0.53	9.77	8146.37	316.22	127.08	-315.88	0.19	95.00	340.80	21.89	134.9
77	8258	0.40	324.18	8241.37	316.92	126.96	-316.59	0.40	95.00	341.41	21.83	134.9
78	8351	0.43	304.72	8336.37	317.39	126.48	-317.06	0.15	95.00	341.66	21.73	134.9
79	8445	0.34	290.12	8430.37	317.69	125.93	-317.36	0.14	94.00	341.74	21.62	134.9
80	8540	0.55	339.48	8525.36	318.21	125.50	-317.88	0.44	95.00	342.07	21.52	134.9
81	8635	1.00	337.26	8620.35	319.40	125.02	-319.06	0.47	95.00	343.00	21.38	134.9
82	8730	1.12	270.64	8715.34	320.18	123.77	-319.85	1.23	95.00	343.27	21.13	134.9
83	8824	1.46	260.73	8809.32	320.00	121.67	-319.68	0.43	94.00	342.35	20.82	142.0
84	8919	0.50	289.28	8904.30	319.94	120.09	-319.62	1.10	95.00	341.73	20.57	142.0
85	9014	0.18	201.30	8999.30	319.94	119.64	-319.62	0.55	95.00	341.57	20.50	142.0
86	9108	0.17	46.08	9093.30	319.90	119.69	-319.58	0.36	94.00	341.55	20.51	142.0
87	9202	0.09	41.26	9187.30	320.05	119.64	-319.73	0.09	94.00	341.75	20.53	142.0
88	9297	0.77	232.40	9282.30	319.71	119.38	-319.40	0.90	95.00	341.27	20.48	142.0
89	9392	0.89	280.74	9377.29	319.46	118.15	-319.15	0.72	95.00	340.61	20.30	142.0
90	9486	1.07	284.58	9471.28	319.82	116.58	-319.51	0.20	94.00	340.40	20.03	142.0
91	9580	1.37	312.10	9565.25	320.79	114.00	-320.49	0.69	94.00	340.75	19.71	149.1
92	9675	1.55	343.64	9660.23	322.79	113.69	-322.49	0.85	95.00	342.23	19.40	149.1
93	9770	1.63	18.49	9755.19	325.30	113.76	-325.00	1.01	95.00	344.62	19.28	149.1
94	9857	1.79	5.85	9842.15	327.63	114.29	-327.53	0.47	87.00	347.18	19.22	149.1
95	9918	1.85	293.63	9903.13	329.17	113.49	-328.87	3.52	61.00	348.18	19.02	134.9
96	9962	6.35	248.93	9947.01	328.58	110.56	-328.29	11.82	44.00	346.68	18.60	134.9
97	10057	18.22	232.27	10039.69	317.56	93.85	-317.31	12.91	95.00	331.14	16.46	134.9
98	10152	33.12	218.61	10125.15	288.00	65.73	-287.83	16.78	95.00	295.40	12.86	142.0
99	10247	44.00	211.54	10199.36	239.43	32.15	-239.34	12.34	95.00	241.58	7.65	142.0
100	10341	51.49	206.64	10262.54	178.62	-1.47	-178.63	8.85	94.00	178.63	359.53	142.0
101	10436	61.27	198.91	10315.13	105.74	-31.74	-105.82	12.31	95.00	110.40	343.29	142.0
102	10530	67.65	197.39	10355.64	25.18	-58.12	-25.33	6.94	94.00	63.34	293.43	142.0
103	10626	74.02	191.32	10387.17	-62.59	-80.49	62.38	8.92	96.00	101.96	232.13	149.1
104	10720	79.57	181.92	10408.68	-153.36	-90.94	153.12	11.38	94.00	178.29	210.67	149.1
105	10815	86.63	178.18	10418.44	-247.74	-90.99	247.50	10.31	95.00	263.92	200.17	149.1
106	10852	92.77	176.93	10417.98	-284.70	-89.42	284.46	11.69	37.00	298.41	197.44	149.1
107	10897	93.31	176.68	10415.60	-329.56	-86.91	329.33	1.32	45.00	340.83	194.77	149.1
108	10943	92.78	176.56	10413.15	-375.42	-84.20	375.20	1.18	46.00	384.74	192.64	149.1
109	10988	92.49	176.64	10411.09	-420.29	-61.54	420.08	0.67	45.00	428.13	190.98	149.1
110	11035	90.11	177.92	10410.02	-467.22	-79.31	467.01	5.75	47.00	473.90	189.63	149.1
111	11129	89.64	177.58	10410.22	-561.15	-75.62	560.95	0.62	94.00	566.22	187.67	149.1

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
112	11222	90.17	178.86	10410.38	-654.10	-72.73	653.91	1.49	93.00	658.13	186.34	149.1
113	11315	90.96	180.68	10409.47	-747.09	-72.34	748.90	2.11	93.00	750.59	185.53	149.1
114	11409	87.96	179.94	10410.36	-841.07	-72.83	840.88	3.27	94.00	844.22	184.95	149.1
115	11502	90.03	180.58	10411.99	-934.05	-73.25	933.86	2.33	93.00	936.92	184.48	149.1
116	11594	90.62	180.10	10411.47	-1026.05	-73.80	1025.85	0.83	92.00	1028.70	184.11	156.3
31	11688	91.15	179.84	10410.02	-1120.04	-73.75	1119.84	0.83	94.00	1122.46	183.77	156.3
117	11780	90.50	180.15	10408.70	-1212.03	-73.74	1211.83	0.78	92.00	1214.27	183.48	156.3
118	11872	89.86	180.83	10408.41	-1304.02	-74.53	1303.82	1.02	92.00	1306.15	183.27	156.3
119	11967	91.15	178.59	10407.57	-1399.01	-74.05	1398.81	2.72	95.00	1400.97	183.03	163.4
120	12062	88.91	181.35	10407.52	-1494.00	-74.00	1493.80	3.74	95.00	1495.83	182.84	156.3
121	12157	88.26	180.37	10409.87	-1588.95	-75.42	1588.75	1.24	95.00	1590.74	182.72	156.3
122	12252	90.25	180.69	10411.10	-1683.94	-76.30	1683.73	2.12	95.00	1685.66	182.59	163.4
123	12347	90.11	180.13	10410.80	-1778.93	-76.98	1778.73	0.81	95.00	1780.60	182.48	163.4
124	12441	91.45	182.17	10409.52	-1872.90	-78.87	1872.69	2.80	94.00	1874.58	182.41	163.4
125	12536	91.35	180.55	10407.20	-1967.84	-81.12	1967.62	1.71	95.00	1969.51	182.36	163.4
126	12631	91.43	180.45	10404.90	-2062.81	-81.95	2062.59	0.13	95.00	2064.44	182.28	163.4
127	12726	88.77	178.99	10404.73	-2157.80	-81.49	2157.58	3.19	95.00	2159.33	182.16	163.4
128	12820	90.22	180.14	10405.56	-2251.79	-80.77	2251.57	1.97	94.00	2253.23	182.05	163.4
129	12915	90.59	179.86	10404.89	-2346.78	-80.77	2346.56	0.49	95.00	2348.17	181.97	163.4
130	13010	93.11	180.68	10401.82	-2441.72	-81.22	2441.50	2.79	95.00	2443.07	181.91	163.4
131	13104	94.57	180.55	10395.53	-2535.51	-82.23	2535.28	1.56	94.00	2536.84	181.86	163.4
132	13198	93.28	179.62	10389.09	-2629.28	-82.37	2629.06	1.89	94.00	2630.57	181.79	163.4
133	13293	91.71	179.12	10384.96	-2724.18	-81.32	2723.96	1.73	95.00	2725.40	181.71	163.4
134	13388	90.00	179.05	10383.54	-2819.16	-79.81	2818.94	1.80	95.00	2820.29	181.62	163.4
135	13482	90.22	178.95	10383.36	-2913.14	-78.16	2912.93	0.26	94.00	2914.19	181.54	170.6
136	13577	89.22	178.75	10383.82	-3008.12	-78.26	3007.91	1.07	95.00	3009.09	181.45	163.4
137	13672	89.52	180.01	10384.87	-3103.11	-75.23	3102.90	1.36	95.00	3104.02	181.39	163.4
138	13767	89.13	179.86	10385.99	-3198.10	-75.12	3197.89	0.44	95.00	3198.98	181.35	163.4
139	13862	90.11	181.27	10386.62	-3293.09	-76.06	3292.88	1.81	95.00	3293.97	181.32	170.6
140	13957	91.46	181.22	10385.32	-3388.06	-78.12	3387.84	1.42	95.00	3388.96	181.32	170.6
141	14051	91.60	180.62	10382.81	-3482.01	-79.80	3481.79	0.45	94.00	3482.92	181.31	163.4
142	14146	92.22	180.37	10379.64	-3576.95	-80.78	3576.73	0.81	95.00	3577.86	181.29	170.6
143	14240	92.38	180.14	10375.87	-3670.87	-81.20	3670.65	0.30	94.00	3671.77	181.27	170.6
144	14335	90.14	180.09	10373.78	-3765.84	-81.39	3765.62	2.36	95.00	3766.72	181.24	170.6
145	14430	89.55	179.80	10374.04	-3860.84	-81.30	3860.62	0.69	95.00	3861.70	181.21	170.6
146	14524	89.13	179.94	10375.12	-3954.84	-81.09	3954.61	0.47	94.00	3955.67	181.17	177.7
147	14619	90.31	179.92	10375.58	-4049.83	-80.97	4049.61	1.24	95.00	4050.64	181.15	177.7
148	14714	90.87	180.16	10374.60	-4144.83	-81.04	4144.60	0.64	95.00	4145.62	181.12	177.7
149	14809	90.95	180.34	10373.09	-4239.81	-81.45	4239.59	0.21	95.00	4240.60	181.10	177.7

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
150	14905	92.92	180.30	10369.85	-4335.75	-81.99	4335.52	2.04	96.00	4336.53	181.08	177.7
151	14999	93.62	180.11	10364.49	-4429.60	-82.32	4429.37	0.78	94.00	4430.36	181.06	177.7
152	15094	93.02	179.44	10358.99	-4524.44	-81.95	4524.21	0.94	95.00	4525.18	181.04	177.7
153	15188	92.18	179.22	10354.72	-4618.33	-80.85	4618.11	0.93	94.00	4619.04	181.00	177.7
154	15283	92.63	179.05	10350.73	-4713.24	-79.41	4713.01	0.50	95.00	4713.91	180.97	177.7
155	15377	93.17	178.85	10345.97	-4807.10	-77.69	4806.88	0.61	94.00	4807.73	180.93	184.9
156	15472	92.29	179.72	10341.44	-4901.98	-76.51	4901.77	1.30	95.00	4902.58	180.89	177.7
157	15567	91.21	179.26	10338.54	-4996.94	-75.67	4996.72	1.24	95.00	4997.51	180.87	177.7
158	15662	90.28	179.74	10337.31	-5091.92	-74.84	5091.71	1.09	95.00	5092.47	180.84	177.7
159	15757	90.11	179.80	10336.98	-5186.92	-74.46	5186.71	0.19	95.00	5187.46	180.82	184.9
160	15851	90.50	180.53	10336.48	-5280.92	-74.73	5280.70	0.88	94.00	5281.45	180.81	184.9
161	15946	91.23	179.94	10335.05	-5375.91	-75.12	5375.69	0.99	95.00	5376.43	180.80	177.7
162	16051	92.40	180.60	10331.72	-5480.85	-75.61	5480.63	1.28	105.00	5481.37	180.79	177.7
163	16146	92.50	180.50	10327.66	-5575.76	-76.52	5575.54	0.15	95.00	5576.28	180.79	177.7
164	16241	91.00	180.20	10324.76	-5670.71	-77.10	5670.49	1.61	95.00	5671.23	180.78	177.7
165	16335	90.40	180.60	10323.61	-5764.70	-77.76	5764.48	0.77	94.00	5765.22	180.77	177.7
166	16430	89.70	180.70	10323.53	-5859.69	-78.84	5859.47	0.74	95.00	5860.22	180.77	177.7
167	16524	90.70	179.40	10323.20	-5953.69	-78.92	5953.48	1.74	94.00	5954.21	180.76	177.7
168	16619	91.60	179.20	10321.29	-6048.66	-77.76	6048.44	0.97	95.00	6049.16	180.74	177.7
169	16714	91.60	179.40	10318.64	-6143.62	-76.60	6143.40	0.21	95.00	6144.09	180.71	177.7
170	16809	91.50	179.40	10316.07	-6238.58	-75.60	6238.36	0.11	95.00	6239.04	180.69	177.7
171	16903	91.60	179.30	10313.53	-6332.54	-74.54	6332.32	0.15	94.00	6332.98	180.67	177.7
172	16998	91.70	180.10	10310.79	-6427.50	-74.04	6427.28	0.85	95.00	6427.92	180.66	177.7
173	17093	91.70	180.10	10307.97	-6522.45	-74.21	6522.24	0.00	95.00	6522.88	180.65	177.7
174	17188	91.60	180.00	10305.30	-6615.41	-74.29	6615.20	0.15	93.00	6615.83	180.64	177.7
175	17280	91.60	180.10	10302.67	-6709.38	-74.37	6709.16	0.11	94.00	6709.79	180.64	177.7
176	17374	91.90	180.20	10299.80	-6803.33	-74.62	6803.12	0.34	94.00	6803.74	180.63	177.7
177	17468	92.00	180.00	10296.60	-6897.28	-74.78	6897.06	0.24	94.00	6897.68	180.62	177.7
PTB	17614	92.00	180.00	10291.51	-7043.19	-74.78	7042.97	0.00	146.00	7043.59	180.61	0.0