

Minimum Radius of Curvature

API: 37-115-23093 **Well: Millard K 13** **Wellhead Location N+/S- : 41.837566**
Operator: Coterra Energy **Area: Montrose** **E+/W- : -75.969480**
Rig: X36 **Type: U-Lateral** **Magnetic Declination: -11.81**
TD: 19,699' **Plane of Proposal: 170.00**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	100	100.0	54.39	0.00	0.00	0.00	#DIV/0!	0.00		
151	0.51	345.01	51	150.8	54.17	0.22	-0.06	0.23	345.01	1.00	1.00	679.71
200	0.51	345.01	49	200.0	53.73	0.64	-0.17	0.66	345.01	0.00	0.00	0.00
300	0.51	345.01	100	300.0	52.85	1.50	-0.40	1.55	345.01	0.00	0.00	0.00
400	0.51	345.01	100	400.0	51.97	2.35	-0.63	2.43	345.01	0.00	0.00	0.00
500	0.51	345.01	100	500.0	51.09	3.21	-0.86	3.32	345.01	0.00	0.00	0.00
600	0.51	345.01	100	600.0	50.20	4.06	-1.09	4.21	345.01	0.00	0.00	0.00
700	0.51	345.01	100	700.0	49.32	4.92	-1.32	5.09	345.01	0.00	0.00	0.00
800	0.51	345.01	100	800.0	48.44	5.78	-1.55	5.98	345.01	0.00	0.00	0.00
900	0.51	345.01	100	900.0	47.55	6.63	-1.78	6.87	345.01	0.00	0.00	0.00
1000	0.51	345.01	100	1000.0	46.67	7.49	-2.01	7.75	345.01	0.00	0.00	0.00
1100	0.51	345.01	100	1100.0	45.79	8.35	-2.24	8.64	345.01	0.00	0.00	0.00
1200	0.51	345.01	100	1200.0	44.90	9.20	-2.46	9.53	345.01	0.00	0.00	0.00
1300	0.51	345.01	100	1300.0	44.02	10.06	-2.69	10.41	345.01	0.00	0.00	0.00
1400	0.51	345.01	100	1400.0	43.14	10.92	-2.92	11.30	345.01	0.00	0.00	0.00
1500	0.51	345.01	100	1499.9	42.25	11.77	-3.15	12.19	345.01	0.00	0.00	0.00
1600	0.51	345.01	100	1599.9	41.37	12.63	-3.38	13.07	345.01	0.00	0.00	0.00
1700	0.51	345.01	100	1699.9	40.49	13.49	-3.61	13.96	345.01	0.00	0.00	0.00
1800	0.51	345.01	100	1799.9	39.60	14.34	-3.84	14.85	345.01	0.00	0.00	0.00
1900	0.51	345.01	100	1899.9	38.72	15.20	-4.07	15.73	345.01	0.00	0.00	0.00
2000	0.51	345.01	100	1999.9	37.84	16.06	-4.30	16.62	345.01	0.00	0.00	0.00
2100	0.51	345.01	100	2099.9	36.95	16.91	-4.53	17.51	345.01	0.00	0.00	0.00
2200	0.51	345.01	100	2199.9	36.07	17.77	-4.76	18.39	345.01	0.00	0.00	0.00
2300	0.51	345.01	100	2299.9	35.19	18.62	-4.99	19.28	345.01	0.00	0.00	0.00
2400	0.51	345.01	100	2399.9	34.30	19.48	-5.22	20.17	345.01	0.00	0.00	0.00
2500	0.51	345.01	100	2499.9	33.42	20.34	-5.45	21.05	345.01	0.00	0.00	0.00
2600	0.51	345.01	100	2599.9	32.54	21.19	-5.68	21.94	345.01	0.00	0.00	0.00
2700	0.51	345.01	100	2699.9	31.65	22.05	-5.90	22.83	345.01	0.00	0.00	0.00
2800	0.51	345.01	100	2799.9	30.77	22.91	-6.13	23.71	345.01	0.00	0.00	0.00
2900	0.51	345.01	100	2899.9	29.89	23.76	-6.36	24.60	345.01	0.00	0.00	0.00
3000	0.51	345.01	100	2999.9	29.00	24.62	-6.59	25.49	345.01	0.00	0.00	0.00
3100	0.51	345.01	100	3099.9	28.12	25.48	-6.82	26.37	345.01	0.00	0.00	0.00
3200	0.51	345.01	100	3199.9	27.24	26.33	-7.05	27.26	345.01	0.00	0.00	0.00
3300	0.51	345.01	100	3299.9	26.35	27.19	-7.28	28.15	345.01	0.00	0.00	0.00
3400	0.51	345.01	100	3399.9	25.47	28.05	-7.51	29.03	345.01	0.00	0.00	0.00
3500	0.51	345.01	100	3499.9	24.59	28.90	-7.74	29.92	345.01	0.00	0.00	0.00
3600	0.51	345.01	100	3599.9	23.70	29.76	-7.97	30.81	345.01	0.00	0.00	0.00
3700	0.51	345.01	100	3699.9	22.82	30.61	-8.20	31.69	345.01	0.00	0.00	0.00
3800	0.51	345.01	100	3799.9	21.94	31.47	-8.43	32.58	345.01	0.00	0.00	0.00
3900	0.51	345.01	100	3899.9	21.05	32.33	-8.66	33.47	345.01	0.00	0.00	0.00
4000	0.51	345.01	100	3999.8	20.17	33.18	-8.89	34.35	345.01	0.00	0.00	0.00
4100	0.51	345.01	100	4099.8	19.29	34.04	-9.12	35.24	345.01	0.00	0.00	0.00
4200	0.51	345.01	100	4199.8	18.40	34.90	-9.34	36.13	345.01	0.00	0.00	0.00
4300	0.51	345.01	100	4299.8	17.52	35.75	-9.57	37.01	345.01	0.00	0.00	0.00
4400	0.51	345.01	100	4399.8	16.64	36.61	-9.80	37.90	345.01	0.00	0.00	0.00
4500	0.51	345.01	100	4499.8	15.75	37.47	-10.03	38.79	345.01	0.00	0.00	0.00
4600	0.51	345.01	100	4599.8	14.87	38.32	-10.26	39.67	345.01	0.00	0.00	0.00
4700	0.51	345.01	100	4699.8	13.99	39.18	-10.49	40.56	345.01	0.00	0.00	0.00
4800	0.51	345.01	100	4799.8	13.11	40.04	-10.72	41.45	345.01	0.00	0.00	0.00
4900	0.51	345.01	100	4899.8	12.22	40.89	-10.95	42.33	345.01	0.00	0.00	0.00
5000	0.51	345.01	100	4999.8	11.34	41.75	-11.18	43.22	345.01	0.00	0.00	0.00
5105	0.51	345.01	105	5104.4	10.41	42.64	-11.42	44.15	345.01	0.00	0.00	0.00
5150	3.59	253.67	45	5149.8	10.37	42.44	-12.83	44.34	343.17	8.00	6.78	-201.17
5200	7.57	249.42	50	5199.5	11.15	40.84	-17.42	44.40	336.90	8.00	7.96	-8.49
5250	11.56	248.10	50	5248.8	12.79	37.81	-25.15	45.41	326.37	8.00	7.99	-2.65
5300	15.56	247.45	50	5297.4	15.28	33.37	-36.00	49.09	312.83	8.00	7.99	-1.30
5350	19.56	247.06	50	5345.1	18.61	27.54	-49.90	56.99	298.89	8.00	8.00	-0.78

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5400	23.56	246.80	50	5391.6	22.77	20.33	-66.80	69.82	286.93	8.00	8.00	-0.52
5450	27.55	246.61	50	5436.7	27.73	11.80	-86.60	87.40	277.76	8.00	8.00	-0.38
5500	31.55	246.46	50	5480.2	33.48	1.98	-109.22	109.24	271.04	8.00	8.00	-0.29
5550	35.55	246.35	50	5521.8	39.97	-9.08	-134.54	134.84	266.14	8.00	8.00	-0.23
5600	39.55	246.25	50	5561.5	47.19	-21.33	-162.44	163.83	262.52	8.00	8.00	-0.19
5650	43.55	246.17	50	5598.9	55.09	-34.70	-192.78	195.88	259.80	8.00	8.00	-0.16
5700	47.55	246.11	50	5633.9	63.64	-49.14	-225.41	230.71	257.70	8.00	8.00	-0.14
5750	51.55	246.04	50	5666.3	72.80	-64.56	-260.19	268.08	256.06	8.00	8.00	-0.12
5791	54.81	246.00	41	5690.7	80.67	-77.81	-289.98	300.24	254.98	8.00	8.00	-0.11
5800	54.81	246.00	9	5696.0	82.50	-80.90	-296.90	307.72	254.76	0.00	0.00	0.00
5900	54.81	246.00	100	5753.7	102.28	-114.14	-371.55	388.69	252.92	0.00	0.00	0.00
6000	54.81	246.00	100	5811.3	122.05	-147.38	-446.21	469.92	251.72	0.00	0.00	0.00
6100	54.81	246.00	100	5868.9	141.82	-180.62	-520.87	551.30	250.88	0.00	0.00	0.00
6200	54.81	246.00	100	5926.6	161.59	-213.86	-595.53	632.77	250.25	0.00	0.00	0.00
6300	54.81	246.00	100	5984.2	181.36	-247.10	-670.19	714.29	249.76	0.00	0.00	0.00
6400	54.81	246.00	100	6041.8	201.13	-280.34	-744.85	795.86	249.38	0.00	0.00	0.00
6500	54.81	246.00	100	6099.5	220.90	-313.58	-819.51	877.45	249.06	0.00	0.00	0.00
6600	54.81	246.00	100	6157.1	240.67	-346.82	-894.17	959.07	248.80	0.00	0.00	0.00
6638	54.81	246.00	38	6178.8	248.13	-359.36	-922.34	989.87	248.71	0.00	0.00	0.00
6650	54.98	244.67	12	6185.9	250.67	-363.55	-931.46	999.89	248.68	9.00	1.36	-10.87
6700	55.81	239.29	50	6214.3	263.41	-382.88	-967.76	1040.75	248.41	9.00	1.66	-10.75
6750	56.86	234.04	50	6242.0	279.89	-405.75	-1002.50	1081.50	247.97	9.00	2.12	-10.51
6800	58.14	228.92	50	6268.9	300.03	-432.01	-1035.47	1121.97	247.35	9.00	2.55	-10.24
6850	59.61	223.95	50	6294.8	323.70	-461.50	-1066.45	1162.03	246.60	9.00	2.94	-9.94
6900	61.26	219.14	50	6319.4	350.74	-494.05	-1095.27	1201.54	245.72	9.00	3.31	-9.62
6950	63.08	214.48	50	6342.8	381.00	-529.44	-1121.74	1240.41	244.73	9.00	3.64	-9.31
7000	65.05	209.98	50	6364.7	414.29	-567.47	-1145.70	1278.53	243.65	9.00	3.93	-9.00
7050	67.15	205.63	50	6384.9	450.41	-607.90	-1167.00	1315.84	242.48	9.00	4.19	-8.71
7100	69.36	201.41	50	6403.5	489.12	-650.47	-1185.51	1352.24	241.25	9.00	4.43	-8.44
7150	71.67	197.31	50	6420.1	530.20	-694.93	-1201.12	1387.67	239.95	9.00	4.62	-8.19
7200	74.07	193.32	50	6434.9	573.38	-741.01	-1213.73	1422.05	238.60	9.00	4.79	-7.97
7250	76.54	189.43	50	6447.6	618.41	-788.41	-1223.26	1455.31	237.20	9.00	4.94	-7.78
7300	79.06	185.62	50	6458.1	665.00	-836.84	-1229.65	1487.40	235.76	9.00	5.05	-7.62
7350	81.64	181.88	50	6466.5	712.87	-886.02	-1232.87	1518.22	234.30	9.00	5.15	-7.49
7400	84.24	178.18	50	6472.7	761.72	-935.62	-1232.89	1547.71	232.81	9.00	5.22	-7.39
7450	86.88	174.52	50	6476.5	811.25	-985.36	-1229.72	1575.80	231.30	9.00	5.26	-7.32
7502	89.62	170.75	52	6478.1	862.98	-1036.72	-1223.08	1603.34	229.71	9.00	5.29	-7.29
7600	89.62	170.75	98	6478.8	961.14	-1133.61	-1207.29	1656.09	226.80	0.00	0.00	0.00
7700	89.62	170.75	100	6479.4	1061.13	-1232.31	-1191.21	1713.93	224.03	0.00	0.00	0.00
7800	89.62	170.75	100	6480.1	1161.12	-1331.01	-1175.13	1775.53	221.44	0.00	0.00	0.00
7900	89.62	170.75	100	6480.8	1261.11	-1429.70	-1159.05	1840.50	219.03	0.00	0.00	0.00
8000	89.62	170.75	100	6481.5	1361.10	-1528.40	-1142.97	1908.50	216.79	0.00	0.00	0.00
8100	89.62	170.75	100	6482.1	1461.09	-1627.10	-1126.89	1979.22	214.71	0.00	0.00	0.00
8200	89.62	170.75	100	6482.8	1561.08	-1725.79	-1110.81	2052.38	212.77	0.00	0.00	0.00
8300	89.62	170.75	100	6483.5	1661.07	-1824.49	-1094.72	2127.72	210.96	0.00	0.00	0.00
8400	89.62	170.75	100	6484.1	1761.06	-1923.19	-1078.64	2205.02	209.29	0.00	0.00	0.00
8500	89.62	170.75	100	6484.8	1861.05	-2021.88	-1062.56	2284.09	207.72	0.00	0.00	0.00
8600	89.62	170.75	100	6485.5	1961.04	-2120.58	-1046.48	2364.74	206.27	0.00	0.00	0.00
8700	89.62	170.75	100	6486.1	2061.03	-2219.27	-1030.40	2446.82	204.91	0.00	0.00	0.00
8800	89.62	170.75	100	6486.8	2161.01	-2317.97	-1014.32	2530.18	203.63	0.00	0.00	0.00
8900	89.62	170.75	100	6487.5	2261.00	-2416.67	-998.24	2614.72	202.44	0.00	0.00	0.00
9000	89.62	170.75	100	6488.1	2360.99	-2515.36	-982.16	2700.31	201.33	0.00	0.00	0.00
9100	89.62	170.75	100	6488.8	2460.98	-2614.06	-966.08	2786.86	200.28	0.00	0.00	0.00
9200	89.62	170.75	100	6489.5	2560.97	-2712.76	-950.00	2874.29	199.30	0.00	0.00	0.00
9300	89.62	170.75	100	6490.1	2660.96	-2811.45	-933.92	2962.51	198.38	0.00	0.00	0.00
9400	89.62	170.75	100	6490.8	2760.95	-2910.15	-917.84	3051.46	197.50	0.00	0.00	0.00
9500	89.62	170.75	100	6491.5	2860.94	-3008.84	-901.76	3141.07	196.68	0.00	0.00	0.00
9600	89.62	170.75	100	6492.1	2960.93	-3107.54	-885.67	3231.29	195.91	0.00	0.00	0.00

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9700	89.62	170.75	100	6492.8	3060.92	-3206.24	-869.59	3322.07	195.17	0.00	0.00	0.00
9800	89.62	170.75	100	6493.5	3160.91	-3304.93	-853.51	3413.37	194.48	0.00	0.00	0.00
9900	89.62	170.75	100	6494.2	3260.90	-3403.63	-837.43	3505.14	193.82	0.00	0.00	0.00
10000	89.62	170.75	100	6494.8	3360.89	-3502.33	-821.35	3597.35	193.20	0.00	0.00	0.00
10100	89.62	170.75	100	6495.5	3460.88	-3601.02	-805.27	3689.96	192.61	0.00	0.00	0.00
10200	89.62	170.75	100	6496.2	3560.86	-3699.72	-789.19	3782.95	192.04	0.00	0.00	0.00
10300	89.62	170.75	100	6496.8	3660.85	-3798.42	-773.11	3876.29	191.50	0.00	0.00	0.00
10400	89.62	170.75	100	6497.5	3760.84	-3897.11	-757.03	3969.96	190.99	0.00	0.00	0.00
10500	89.62	170.75	100	6498.2	3860.83	-3995.81	-740.95	4063.92	190.51	0.00	0.00	0.00
10600	89.62	170.75	100	6498.8	3960.82	-4094.50	-724.87	4158.17	190.04	0.00	0.00	0.00
10700	89.62	170.75	100	6499.5	4060.81	-4193.20	-708.79	4252.68	189.59	0.00	0.00	0.00
10800	89.62	170.75	100	6500.2	4160.80	-4291.90	-692.70	4347.44	189.17	0.00	0.00	0.00
10900	89.62	170.75	100	6500.8	4260.79	-4390.59	-676.62	4442.42	188.76	0.00	0.00	0.00
11000	89.62	170.75	100	6501.5	4360.78	-4489.29	-660.54	4537.62	188.37	0.00	0.00	0.00
11100	89.62	170.75	100	6502.2	4460.77	-4587.99	-644.46	4633.03	188.00	0.00	0.00	0.00
11200	89.62	170.75	100	6502.8	4560.76	-4686.68	-628.38	4728.62	187.64	0.00	0.00	0.00
11300	89.62	170.75	100	6503.5	4660.75	-4785.38	-612.30	4824.39	187.29	0.00	0.00	0.00
11400	89.62	170.75	100	6504.2	4760.74	-4884.07	-596.22	4920.33	186.96	0.00	0.00	0.00
11500	89.62	170.75	100	6504.8	4860.73	-4982.77	-580.14	5016.43	186.64	0.00	0.00	0.00
11597	89.62	170.75	97	6505.5	4957.51	-5078.31	-564.57	5109.59	186.34	0.00	0.00	0.00
11600	89.63	170.55	3	6505.5	4960.71	-5081.47	-564.05	5112.68	186.33	6.22	0.28	-6.21
11650	89.78	167.45	50	6505.8	5010.70	-5130.54	-554.51	5160.42	186.17	6.20	0.30	-6.19
11700	89.93	164.35	50	6505.9	5060.57	-5179.03	-542.34	5207.35	185.98	6.20	0.30	-6.19
11750	90.08	161.26	50	6505.9	5110.17	-5226.79	-527.56	5253.35	185.76	6.20	0.30	-6.19
11800	90.22	158.16	50	6505.8	5159.36	-5273.68	-510.22	5298.30	185.53	6.20	0.30	-6.19
11850	90.37	155.07	50	6505.5	5207.99	-5319.57	-490.38	5342.12	185.27	6.20	0.30	-6.19
11900	90.52	151.97	50	6505.1	5255.93	-5364.31	-468.08	5384.70	184.99	6.20	0.30	-6.19
11950	90.67	148.87	50	6504.6	5303.03	-5407.79	-443.41	5425.94	184.69	6.20	0.29	-6.19
12000	90.81	145.78	50	6504.0	5349.15	-5449.87	-416.42	5465.75	184.37	6.20	0.29	-6.19
12050	90.95	142.68	50	6503.2	5394.17	-5490.42	-387.20	5504.06	184.03	6.20	0.28	-6.19
12100	91.09	139.58	50	6502.3	5437.94	-5529.34	-355.83	5540.78	183.68	6.20	0.28	-6.20
12150	91.23	136.48	50	6501.3	5480.35	-5566.50	-322.40	5575.83	183.31	6.20	0.27	-6.19
12200	91.36	133.39	50	6500.2	5521.26	-5601.81	-287.02	5609.15	182.93	6.20	0.26	-6.20
12250	91.49	130.29	50	6498.9	5560.55	-5635.14	-249.78	5640.67	182.54	6.20	0.26	-6.20
12300	91.61	127.19	50	6497.6	5598.12	-5666.41	-210.80	5670.33	182.13	6.20	0.25	-6.20
12350	91.73	124.09	50	6496.1	5633.84	-5695.53	-170.19	5698.07	181.71	6.20	0.24	-6.20
12400	91.85	120.99	50	6494.5	5667.63	-5722.41	-128.06	5723.84	181.28	6.20	0.23	-6.20
12450	91.96	117.89	50	6492.9	5699.37	-5746.97	-84.55	5747.59	180.84	6.20	0.22	-6.20
12500	92.06	114.79	50	6491.1	5728.98	-5769.14	-39.77	5769.27	180.39	6.20	0.21	-6.20
12550	92.16	111.69	50	6489.3	5756.36	-5788.85	6.14	5788.85	179.94	6.20	0.19	-6.20
12600	92.25	108.59	50	6487.4	5781.44	-5806.05	53.04	5806.29	179.48	6.20	0.18	-6.20
12650	92.33	105.49	50	6485.4	5804.15	-5820.68	100.80	5821.56	179.01	6.20	0.17	-6.20
12700	92.41	102.39	50	6483.3	5824.42	-5832.71	149.28	5834.62	178.53	6.20	0.16	-6.20
12750	92.48	99.28	50	6481.2	5842.18	-5842.10	198.34	5845.47	178.06	6.20	0.14	-6.20
12800	92.54	96.18	50	6479.0	5857.40	-5848.82	247.83	5854.07	177.57	6.20	0.13	-6.20
12850	92.60	93.08	50	6476.7	5870.01	-5852.85	297.61	5860.42	177.09	6.20	0.11	-6.21
12900	92.65	89.98	50	6474.4	5879.99	-5854.18	347.54	5864.49	176.60	6.20	0.10	-6.21
12950	92.69	86.87	50	6472.1	5887.30	-5852.81	397.46	5866.29	176.12	6.20	0.08	-6.21
13000	92.72	83.77	50	6469.7	5891.93	-5848.74	447.23	5865.81	175.63	6.20	0.07	-6.21
13050	92.74	80.67	50	6467.4	5893.87	-5841.97	496.71	5863.05	175.14	6.20	0.05	-6.21
13100	92.76	77.56	50	6465.0	5893.09	-5832.54	545.74	5858.02	174.65	6.20	0.03	-6.21
13150	92.77	74.46	50	6462.6	5889.62	-5820.47	594.20	5850.72	174.17	6.20	0.02	-6.21
13200	92.77	71.35	50	6460.1	5883.45	-5805.79	641.93	5841.17	173.69	6.20	0.00	-6.21
13250	92.76	68.25	50	6457.7	5874.61	-5788.55	688.79	5829.39	173.21	6.20	-0.02	-6.21
13256	92.76	67.90	6	6457.4	5873.45	-5786.44	694.03	5827.92	173.16	6.20	-0.02	-6.21
13300	92.76	67.90	44	6455.3	5864.16	-5769.78	735.07	5816.41	172.74	0.00	0.00	0.00
13400	92.76	67.90	100	6450.5	5843.22	-5732.20	827.62	5791.64	171.78	0.00	0.00	0.00
13500	92.76	67.90	100	6445.7	5822.28	-5694.62	920.16	5768.48	170.82	0.00	0.00	0.00

Minimum Radius of Curvature

API: 37-115-23093 **Well: Millard K 13** **Wellhead Location N+/S- : 41.837566**
Operator: Coterra Energy **Area: Montrose** **E+/W- : -75.969480**
Rig: X36 **Type: U-Lateral** **Magnetic Declination: -11.81**
TD: 19,699' **Plane of Proposal: 170.00**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
13600	92.76	67.90	100	6440.9	5801.35	-5657.04	1012.71	5746.97	169.85	0.00	0.00	0.00
13615	92.76	67.90	15	6440.1	5798.11	-5651.23	1027.01	5743.80	169.70	0.00	0.00	0.00
13650	92.53	65.49	35	6438.5	5790.17	-5637.58	1058.70	5736.13	169.36	7.00	-0.68	-6.97
13700	92.18	62.01	50	6436.5	5776.19	-5615.49	1103.50	5722.89	168.88	7.00	-0.70	-6.97
13750	91.82	58.52	50	6434.7	5759.32	-5590.71	1146.88	5707.13	168.41	7.00	-0.71	-6.97
13800	91.46	55.04	50	6433.3	5739.62	-5563.33	1188.69	5688.90	167.94	7.00	-0.73	-6.97