

Survey File: 06134416

Date: 7-22-13
Time: 02:33:06

JAY BEE OIL N GAS

WELL:T-103-7
INDIAN CREEK
WV.

REYNOLDS/LESHER JAVINS CORP.
DEC -8.5
TYLER CO.

Survey Reference Point : 25.5
Local Grid Offset : 0.0

Drift Correction Method: Variable rate from drift checks
Survey Computation Method: Minimum Curvature

Target Direction: 0.00

Received
Office of Oil & Gas

DEC 14 2015

FINAL DATA (INRUN)

Measured Depth (feet)	Course Inclination	Course Direction	Vertical Depth (feet)	Rectangular Coordinates		Vertical Section	Dogleg Severity (per100)
				N/S	E/W		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.91	119.19	99.99	-0.39	0.70	-0.39	0.92
200.00	2.56	88.21	199.94	-0.71	3.63	-0.71	1.84
300.00	2.83	122.88	299.83	-1.98	7.94	-1.98	1.63
400.00	2.01	157.63	399.74	-4.94	10.68	-4.94	1.65
500.00	1.60	199.84	499.69	-7.87	10.87	-7.87	1.35
600.00	3.01	334.29	599.63	-6.82	9.25	-6.82	4.29
700.00	2.16	346.05	699.52	-2.63	7.66	-2.63	1.00
800.00	1.77	347.63	799.47	0.71	6.88	0.71	0.39
900.00	1.40	352.44	899.43	3.44	6.38	3.44	0.40
1000.00	1.33	343.85	999.40	5.76	5.90	5.76	0.22
1100.00	1.17	343.61	1099.37	7.86	5.29	7.86	0.16
1200.00	1.62	5.24	1199.34	10.25	5.13	10.25	0.69
1300.00	1.43	13.12	1299.31	12.88	5.54	12.88	0.29
1400.00	1.00	32.35	1399.29	14.83	6.29	14.83	0.59
1500.00	1.41	32.81	1499.26	16.59	7.42	16.59	0.41
1600.00	1.16	41.07	1599.24	18.39	8.75	18.39	0.31
1700.00	0.86	58.39	1699.22	19.54	10.05	19.54	0.42
1800.00	0.42	42.35	1799.22	20.21	10.94	20.21	0.47
1900.00	0.68	13.23	1899.21	21.05	11.32	21.05	0.37
2000.00	0.62	348.67	1999.20	22.16	11.35	22.16	0.28
2100.00	1.00	12.25	2099.19	23.55	11.43	23.55	0.49
2200.00	0.67	359.10	2199.18	24.99	11.60	24.99	0.38
2300.00	0.19	189.12	2299.18	25.41	11.57	25.41	0.86
2400.00	0.89	214.80	2399.17	24.61	11.10	24.61	0.73
2500.00	1.18	239.78	2499.16	23.45	9.76	23.45	0.53
2600.00	1.13	260.50	2599.14	22.77	7.90	22.77	0.42
2700.00	1.03	272.21	2699.12	22.64	6.03	22.64	0.24
2800.00	0.18	210.94	2799.11	22.54	5.05	22.54	0.95

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2900.00	0.23	255.82	2899.11	22.36	4.78	22.36	0.16
3000.00	0.30	245.58	2999.11	22.20	4.34	22.20	0.09

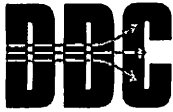


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Measured Depth (feet)	Course Inclination	Course Direction	Vertical Depth (feet)	Rectangular Coordinates		Vertical Section	Dogleg Severity (per100)
				N/S	E/W		
3100.00	0.18	322.95	3099.11	22.22	4.00	22.22	0.32
3200.00	0.78	309.58	3199.10	22.79	3.38	22.79	0.61
3300.00	0.87	295.12	3299.09	23.55	2.16	23.55	0.22
3400.00	0.89	268.71	3399.08	23.85	0.70	23.85	0.40
3500.00	0.71	271.80	3499.07	23.85	-0.70	23.85	0.19
3600.00	0.64	278.96	3599.06	23.96	-1.86	23.96	0.11
3700.00	0.68	329.50	3699.06	24.55	-2.71	24.55	0.56
3800.00	0.57	344.82	3799.05	25.54	-3.14	25.54	0.20
3900.00	0.73	351.35	3899.04	26.65	-3.37	26.65	0.17
4000.00	0.73	312.71	3999.04	27.71	-3.93	27.71	0.48
4100.00	0.18	315.76	4099.03	28.25	-4.50	28.25	0.55
4200.00	0.78	50.13	4199.03	28.80	-4.09	28.80	0.82
4300.00	0.87	22.00	4299.02	29.94	-3.28	29.94	0.41
4400.00	0.75	348.39	4399.01	31.28	-3.12	31.28	0.48
4500.00	0.92	356.82	4499.00	32.72	-3.30	32.72	0.21
4600.00	0.44	27.58	4598.99	33.86	-3.17	33.86	0.59
4700.00	0.68	53.87	4698.98	34.55	-2.51	34.55	0.34
4800.00	0.55	85.54	4798.98	34.93	-1.56	34.93	0.36
4900.00	0.60	16.20	4898.97	35.47	-0.94	35.47	0.66
5000.00	1.12	340.63	4998.96	36.90	-1.12	36.90	0.72
5100.00	1.16	342.97	5098.94	38.79	-1.74	38.79	0.06
5200.00	1.17	342.71	5198.92	40.73	-2.34	40.73	0.02
5250.00	0.76	31.76	5248.91	41.50	-2.32	41.50	1.77

Final Closure - Direction: 356.80 degrees
 - Distance: 41.56 feet

Received
 Office of Oil & Gas
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Directional Drilling Contractors, LLC.

Survey Report

Company: DDC

Well: T1 03-7

API or UWI: 47095020940000

State: WV

County: TYLER

Comment

Location: MCELROY TWP.

Rig: HWD 12

Job Number: DR130204

Operator: JAY BEE OIL & GAS

Magnetic Declination: -6.73

Proposed Azimuth: 322.74

North Reference: GRID

TieIn Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
5250.00	0.76	31.76	5248.98	41.51	-2.30

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5283.00	0.70	19.20	5281.98	41.89	-2.12	357.10	41.94	34.62	0.52
5327.00	0.70	43.00	5325.97	42.34	-1.85	357.50	42.38	34.81	0.66
5372.00	0.50	47.60	5370.97	42.67	-1.51	357.97	42.70	34.88	0.46
5416.00	0.50	11.80	5414.97	42.99	-1.33	358.22	43.01	35.02	0.70
5461.00	0.70	7.10	5459.97	43.45	-1.26	358.34	43.47	35.35	0.46
5505.00	0.70	22.20	5503.96	43.97	-1.12	358.54	43.98	35.67	0.42
5549.00	0.80	334.10	5547.96	44.49	-1.16	358.51	44.51	36.11	1.40
5594.00	4.60	290.60	5592.91	45.41	-2.98	356.24	45.51	37.95	9.02
5638.00	9.00	287.60	5636.58	47.07	-7.92	350.45	47.73	42.26	10.03
5682.00	12.40	289.70	5679.81	49.71	-15.65	342.52	52.11	49.04	7.78
5727.00	15.10	290.40	5723.52	53.38	-25.69	334.30	59.24	58.04	6.01
5772.00	18.00	292.20	5766.65	58.05	-37.63	327.05	69.18	68.98	6.54
5816.00	20.80	294.60	5808.15	63.87	-51.03	321.38	81.75	81.73	6.62
5860.00	24.00	295.60	5848.83	70.99	-66.20	317.00	97.07	96.59	7.32
5905.00	28.10	294.00	5889.25	79.26	-84.15	313.29	115.60	114.03	9.24
5950.00	31.60	293.30	5928.27	88.24	-104.66	310.13	136.90	133.60	7.82
5994.00	31.50	299.00	5965.77	98.37	-125.31	308.13	159.31	154.16	6.78
6039.00	31.40	304.30	6004.17	110.68	-145.28	307.30	182.64	176.05	6.15
6083.00	31.70	309.60	6041.67	124.51	-163.66	307.26	205.64	198.18	6.34
6127.00	33.10	311.50	6078.82	139.84	-181.57	307.60	229.18	221.23	3.93
6172.00	36.30	312.20	6115.82	156.94	-200.64	308.03	254.73	246.38	7.17
6216.00	40.30	312.70	6150.34	175.34	-220.76	308.46	281.92	273.21	9.12
6261.00	44.40	313.40	6183.59	196.04	-242.90	308.91	312.14	303.08	9.17
6305.00	49.30	314.20	6213.67	218.26	-266.05	309.36	344.12	334.79	11.21
6347.00	53.70	314.30	6239.81	241.19	-289.59	309.79	376.87	367.29	10.48
6391.00	57.30	315.40	6264.73	266.76	-315.29	310.23	413.00	403.20	8.44
6436.00	59.90	316.50	6288.17	294.37	-341.99	310.72	451.23	441.34	6.14
6480.00	63.30	317.60	6309.10	322.70	-368.35	311.22	489.71	479.85	8.03
6524.00	66.50	318.80	6327.76	352.40	-394.90	311.74	529.28	517.68	7.68

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6567.00	69.60	319.90	6343.83	382.66	-420.88	312.28	568.83	559.37	7.59
6611.00	73.90	320.70	6357.61	414.80	-447.56	312.82	610.22	601.11	9.92
6656.00	79.20	321.50	6368.07	448.85	-475.03	313.38	653.55	644.84	11.90
6700.00	82.90	322.00	6374.92	482.98	-501.93	313.90	696.57	688.29	8.48
6745.00	86.00	322.90	6379.27	518.49	-529.23	314.41	740.88	733.07	7.17
6789.00	88.40	323.20	6381.42	553.60	-555.64	314.89	784.36	777.01	5.50
6831.00	89.80	323.70	6382.08	587.34	-580.65	315.33	825.91	819.00	3.54
6875.00	90.00	324.00	6382.16	622.87	-606.60	315.76	869.44	863.00	0.82
6920.00	90.00	323.70	6382.16	659.20	-633.15	316.15	914.02	907.99	0.67
6964.00	89.90	323.40	6382.19	694.60	-659.29	316.49	957.67	951.98	0.72
7008.00	89.50	322.50	6382.42	729.71	-685.80	316.78	1001.40	995.98	2.24
7053.00	89.60	322.60	6382.78	765.44	-713.16	317.02	1046.18	1040.98	0.31
7097.00	89.90	322.90	6382.97	800.46	-739.80	317.26	1089.97	1084.98	0.96
7141.00	90.80	323.40	6382.70	835.67	-766.18	317.48	1133.74	1128.98	2.34
7186.00	90.70	323.80	6382.11	871.88	-792.88	317.72	1178.49	1173.97	0.92
7230.00	90.30	324.40	6381.73	907.53	-818.68	317.95	1222.23	1217.95	1.64
7275.00	90.60	325.10	6381.38	944.27	-844.65	318.19	1266.92	1262.92	1.69
7319.00	91.20	325.60	6380.68	980.46	-869.67	318.43	1310.58	1306.87	1.77
7364.00	91.30	326.30	6379.70	1017.74	-894.86	318.68	1355.20	1351.79	1.57
7408.00	91.50	326.20	6378.63	1054.31	-919.30	318.91	1398.81	1395.70	0.51
7452.00	90.90	323.70	6377.71	1090.32	-944.56	319.10	1442.56	1439.65	5.84
7497.00	91.00	323.40	6376.96	1126.51	-971.29	319.23	1487.43	1484.64	0.70
7541.00	91.00	323.30	6376.19	1161.81	-997.55	319.35	1531.31	1528.63	0.23
7586.00	90.10	322.90	6375.76	1197.79	-1024.57	319.46	1576.21	1573.63	2.19
7630.00	90.10	322.70	6375.68	1232.84	-1051.17	319.55	1620.14	1617.63	0.45
7675.00	90.10	322.40	6375.60	1268.57	-1078.53	319.63	1665.08	1662.63	0.67
7719.00	90.40	322.40	6375.41	1303.43	-1105.38	319.70	1709.03	1706.62	0.68
7764.00	90.80	322.90	6374.94	1339.20	-1132.68	319.78	1753.97	1751.62	1.42
7808.00	90.90	323.10	6374.29	1374.33	-1159.15	319.85	1797.90	1795.62	0.51
7852.00	90.00	323.70	6373.94	1409.66	-1185.39	319.94	1841.81	1839.61	2.46
7897.00	90.50	323.90	6373.75	1445.97	-1211.96	320.03	1886.71	1884.60	1.20
7941.00	90.80	323.60	6373.25	1481.45	-1237.98	320.12	1930.62	1928.59	0.96
7986.00	89.60	322.90	6373.09	1517.50	-1264.90	320.19	1975.55	1973.59	3.09
8030.00	90.00	322.90	6373.24	1552.60	-1291.44	320.25	2019.50	2017.59	0.91
8075.00	90.10	323.20	6373.21	1588.56	-1318.49	320.31	2064.45	2062.59	0.70
8119.00	90.80	324.00	6372.86	1623.97	-1344.60	320.38	2108.38	2106.58	2.42
8164.00	91.00	323.70	6372.15	1660.31	-1371.15	320.45	2153.29	2151.57	0.80
8208.00	90.70	323.50	6371.50	1695.72	-1397.25	320.51	2197.22	2195.56	0.82
8252.00	91.30	323.30	6370.73	1731.04	-1423.48	320.57	2241.16	2239.55	1.44
8296.00	89.80	323.70	6370.31	1766.40	-1449.65	320.62	2285.10	2283.54	3.53
8341.00	90.10	323.50	6370.35	1802.62	-1476.36	320.68	2330.04	2328.54	0.80
8385.00	90.10	323.40	6370.27	1837.97	-1502.56	320.73	2373.99	2372.53	0.23
8429.00	90.20	323.70	6370.16	1873.36	-1528.70	320.78	2417.94	2416.53	0.72
8474.00	90.90	324.00	6369.72	1909.70	-1555.25	320.84	2462.87	2461.52	1.69
8518.00	90.90	324.40	6369.03	1945.38	-1580.98	320.90	2506.79	2505.50	0.91
8563.00	90.00	323.30	6368.68	1981.71	-1607.52	320.95	2551.73	2550.49	3.16
8607.00	90.10	323.70	6368.64	2017.08	-1633.70	320.99	2595.69	2594.48	0.94
8651.00	90.60	324.50	6368.37	2052.72	-1659.50	321.05	2639.62	2638.47	2.14
8696.00	91.00	324.70	6367.74	2089.40	-1685.56	321.11	2684.53	2683.44	0.99
8741.00	91.30	324.90	6366.84	2126.16	-1711.50	321.17	2729.43	2728.40	0.86
8785.00	90.40	323.30	6366.19	2161.80	-1737.29	321.21	2773.37	2772.36	4.17
8830.00	90.40	323.10	6365.87	2197.83	-1764.25	321.25	2818.34	2817.38	0.94

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8874.00	90.50	322.80	6365.53	2232.95	-1790.76	321.27	2862.32	2861.38	0.72
8918.00	90.40	321.50	6365.18	2267.69	-1817.75	321.28	2906.31	2905.37	2.96
8963.00	90.40	320.90	6364.87	2302.76	-1845.95	321.28	2951.31	2950.36	1.33
9007.00	90.50	319.80	6364.52	2336.64	-1874.03	321.27	2995.30	2994.32	2.51
9052.00	91.20	319.50	6363.86	2370.93	-1903.16	321.25	3040.28	3039.25	1.69
9096.00	90.60	321.70	6363.16	2404.92	-1931.08	321.24	3084.27	3083.21	5.18
9140.00	91.10	321.60	6362.51	2439.42	-1958.38	321.24	3128.26	3127.19	1.16
9185.00	90.90	322.20	6361.73	2474.83	-1986.14	321.25	3173.25	3172.18	1.41
9230.00	89.50	323.60	6361.57	2510.72	-2013.28	321.27	3218.23	3217.18	4.40
9274.00	89.60	323.30	6361.91	2546.06	-2039.48	321.30	3262.20	3261.17	0.72
9318.00	89.90	323.30	6362.11	2581.34	-2065.78	321.33	3306.17	3305.17	0.68
9362.00	89.80	322.80	6362.22	2616.50	-2092.23	321.35	3350.15	3349.17	1.16
9407.00	89.80	322.70	6362.38	2652.32	-2119.47	321.37	3395.14	3394.17	0.22
9452.00	90.90	323.60	6362.10	2688.33	-2146.45	321.39	3440.11	3439.17	3.16
9496.00	90.70	323.50	6361.49	2723.72	-2172.59	321.42	3484.08	3483.16	0.51
9541.00	89.60	323.50	6361.37	2759.89	-2199.36	321.45	3529.05	3528.15	2.44
9586.00	89.60	323.50	6361.69	2796.07	-2226.12	321.47	3574.02	3573.15	0.00
9630.00	89.60	324.10	6361.99	2831.57	-2252.11	321.50	3617.98	3617.14	1.36
9676.00	90.10	324.20	6362.11	2868.86	-2279.05	321.54	3663.93	3663.13	1.11
9720.00	90.80	324.10	6361.77	2904.52	-2304.82	321.57	3707.89	3707.11	1.61
9765.00	91.00	324.10	6361.06	2940.97	-2331.20	321.60	3752.84	3752.09	0.44
9809.00	91.00	324.30	6360.29	2976.65	-2356.94	321.63	3796.79	3796.07	0.45
9853.00	91.10	324.70	6359.49	3012.46	-2382.48	321.66	3840.72	3840.04	0.94
9898.00	91.50	324.70	6358.47	3049.18	-2408.48	321.70	3885.65	3885.00	0.89
9942.00	90.60	324.10	6357.66	3084.95	-2434.09	321.73	3929.59	3928.98	2.46
9987.00	91.00	324.10	6357.03	3121.40	-2460.47	321.75	3974.55	3973.96	0.89
10031.00	90.80	323.70	6356.34	3156.95	-2486.39	321.78	4018.51	4017.95	1.02
10075.00	89.80	323.00	6356.11	3192.25	-2512.66	321.79	4062.50	4061.94	2.77
10120.00	89.90	322.80	6356.23	3228.14	-2539.80	321.81	4107.49	4106.94	0.50
10164.00	90.00	322.90	6356.27	3263.21	-2566.37	321.82	4151.48	4150.94	0.32
10209.00	90.40	323.50	6356.11	3299.24	-2593.33	321.83	4196.47	4195.94	1.60
10253.00	90.40	323.20	6355.80	3334.54	-2619.59	321.85	4240.45	4239.94	0.68
10298.00	90.80	323.40	6355.33	3370.62	-2646.49	321.86	4285.43	4284.93	0.99
10342.00	90.80	323.00	6354.72	3405.85	-2672.84	321.88	4329.42	4328.93	0.91
10387.00	91.50	323.10	6353.81	3441.80	-2699.89	321.89	4374.40	4373.92	1.57
10431.00	91.30	323.00	6352.74	3476.95	-2726.33	321.90	4418.38	4417.90	0.51
10476.00	90.80	323.00	6351.91	3512.89	-2753.40	321.91	4463.36	4462.89	1.11
10520.00	90.50	323.40	6351.41	3548.12	-2779.76	321.92	4507.35	4506.89	1.14
10565.00	90.40	322.90	6351.06	3584.12	-2806.75	321.94	4552.34	4551.89	1.11
10609.00	90.70	323.10	6350.64	3619.26	-2833.22	321.95	4596.33	4595.88	0.82
10654.00	91.20	322.80	6349.89	3655.17	-2860.33	321.96	4641.31	4640.88	0.51
10698.00	91.30	323.00	6348.93	3690.26	-2886.87	321.96	4685.30	4684.87	0.51
10743.00	90.70	324.20	6348.15	3726.47	-2913.57	321.98	4730.27	4729.85	2.98
10787.00	90.90	324.10	6347.53	3762.13	-2939.33	322.00	4774.23	4773.84	0.51
10832.00	91.10	324.30	6346.75	3798.62	-2965.65	322.02	4819.20	4818.81	0.63
10876.00	89.60	325.10	6346.48	3834.53	-2991.08	322.04	4863.15	4862.79	3.86
10921.00	90.30	325.40	6346.52	3871.51	-3016.73	322.07	4908.07	4907.74	1.69
10965.00	90.30	326.10	6346.29	3907.88	-3041.49	322.11	4951.98	4951.68	1.59
11010.00	90.40	326.20	6346.01	3945.25	-3066.56	322.14	4996.87	4996.60	0.31
11054.00	90.30	326.60	6345.74	3981.89	-3090.90	322.18	5040.75	5040.51	0.94
11099.00	90.60	326.20	6345.39	4019.37	-3115.81	322.22	5085.63	5085.42	1.11
11143.00	90.70	326.00	6344.89	4055.89	-3140.34	322.25	5129.53	5129.34	0.51

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11185.00	91.10	326.90	6344.23	4090.89	-3163.55	322.28	5171.41	5171.24	2.34
11230.00	90.90	326.80	6343.45	4128.56	-3188.16	322.32	5216.26	5216.12	0.50
11272.00	90.70	326.40	6342.86	4163.62	-3211.28	322.36	5258.14	5258.02	1.06
11316.00	91.20	326.80	6342.13	4200.35	-3235.49	322.39	5302.01	5301.92	1.46
11360.00	91.30	326.60	6341.17	4237.12	-3259.64	322.43	5345.88	5345.80	0.51
11405.00	90.60	325.20	6340.42	4274.37	-3284.87	322.46	5390.79	5390.72	3.48
11450.00	90.70	325.10	6339.91	4311.30	-3310.58	322.48	5435.74	5435.68	0.31
11494.00	89.50	324.70	6339.84	4347.30	-3335.88	322.50	5479.70	5479.65	2.87
11538.00	89.80	324.90	6340.11	4383.25	-3361.24	322.52	5523.66	5523.62	0.82
11583.00	89.90	324.30	6340.22	4419.93	-3387.31	322.53	5568.63	5568.60	1.35
11627.00	89.90	323.40	6340.30	4455.46	-3413.27	322.54	5612.62	5612.59	2.05
11672.00	90.40	323.70	6340.18	4491.66	-3440.00	322.55	5657.61	5657.58	1.30
11717.00	90.90	324.80	6339.67	4528.17	-3466.29	322.57	5702.59	5702.56	2.68
11762.00	90.70	323.70	6339.04	4564.69	-3492.58	322.58	5747.57	5747.54	2.48
11806.00	90.50	322.20	6338.58	4599.80	-3519.09	322.58	5791.56	5791.54	3.44
11851.00	90.90	322.20	6338.03	4635.36	-3546.67	322.58	5836.56	5836.53	0.89
11895.00	91.30	322.10	6337.19	4670.10	-3573.66	322.58	5880.55	5880.52	0.94
11939.00	90.60	321.50	6336.46	4704.67	-3600.87	322.57	5924.54	5924.51	2.10
11984.00	90.80	320.90	6335.91	4739.74	-3629.06	322.56	5969.52	5969.49	1.41
12029.00	89.50	321.70	6335.79	4774.85	-3657.20	322.55	6014.51	6014.47	3.39
12073.00	89.80	321.80	6336.06	4809.41	-3684.43	322.54	6058.50	6058.47	0.72
12117.00	90.10	322.20	6336.10	4844.08	-3711.52	322.54	6102.50	6102.46	1.14
12162.00	90.10	322.20	6336.02	4879.64	-3739.10	322.54	6147.50	6147.46	0.00
12206.00	90.40	322.20	6335.83	4914.40	-3766.07	322.54	6191.50	6191.46	0.68
12250.00	90.90	322.90	6335.33	4949.33	-3792.83	322.54	6235.50	6235.46	1.95
12295.00	90.90	322.90	6334.62	4985.22	-3819.97	322.54	6280.49	6280.45	0.00
12339.00	90.30	322.70	6334.16	5020.26	-3846.57	322.54	6324.49	6324.45	1.44
12383.00	90.60	323.30	6333.82	5055.40	-3873.05	322.54	6368.48	6368.45	1.52
12428.00	90.50	323.20	6333.38	5091.46	-3899.97	322.55	6413.48	6413.44	0.31
12472.00	90.40	323.70	6333.04	5126.80	-3926.17	322.55	6457.47	6457.44	1.16
12517.00	90.40	323.10	6332.72	5162.93	-3953.00	322.56	6502.46	6502.43	1.33
12561.00	89.80	322.20	6332.65	5197.91	-3979.69	322.56	6546.46	6546.43	2.46
12606.00	90.20	322.20	6332.65	5233.46	-4007.28	322.56	6591.46	6591.43	0.89
12650.00	90.90	322.00	6332.22	5268.18	-4034.30	322.56	6635.46	6635.42	1.65
12694.00	90.90	321.30	6331.53	5302.68	-4061.60	322.55	6679.45	6679.41	1.59
12739.00	91.10	321.70	6330.75	5337.89	-4089.61	322.54	6724.43	6724.39	0.99
12783.00	91.80	322.80	6329.64	5372.67	-4116.54	322.54	6768.42	6768.38	2.96
12828.00	91.80	322.20	6328.22	5408.36	-4143.92	322.54	6813.40	6813.35	1.33
12872.00	90.20	321.90	6327.45	5443.04	-4170.97	322.54	6857.39	6857.34	3.70
12917.00	90.30	322.30	6327.26	5478.55	-4198.61	322.53	6902.38	6902.34	0.92
12961.00	90.20	322.90	6327.07	5513.51	-4225.34	322.53	6946.38	6946.34	1.38
13005.00	90.10	322.90	6326.95	5548.60	-4251.88	322.54	6990.38	6990.34	0.23
13049.00	88.50	321.60	6327.49	5583.39	-4278.81	322.54	7034.38	7034.33	4.69
13094.00	88.50	321.90	6328.67	5618.71	-4306.66	322.53	7079.36	7079.31	0.67
13136.00	88.70	321.90	6329.69	5651.76	-4332.57	322.53	7121.34	7121.29	0.48
13180.00	88.60	321.20	6330.73	5686.20	-4359.92	322.52	7165.32	7165.27	1.61
13225.00	88.40	321.50	6331.91	5721.34	-4388.02	322.51	7210.30	7210.24	0.80
13269.00	88.30	321.70	6333.17	5755.80	-4415.34	322.51	7254.27	7254.21	0.51
13313.00	89.20	323.20	6334.13	5790.68	-4442.15	322.51	7298.26	7298.20	3.97
13358.00	89.10	323.20	6334.80	5826.71	-4469.10	322.51	7343.25	7343.20	0.22
13401.00	89.30	323.10	6335.40	5861.11	-4494.89	322.52	7386.25	7386.19	0.52
13445.00	90.30	324.40	6335.56	5896.60	-4520.90	322.52	7430.24	7430.18	0.52

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13490.00	90.40	324.40	6335.28	5933.18	-4547.10	322.53	7475.21	7475.16	0.22
13534.00	90.60	324.40	6334.90	5968.96	-4572.71	322.54	7519.19	7519.14	0.45
13578.00	90.50	324.20	6334.47	6004.69	-4598.38	322.56	7563.16	7563.12	0.51
13623.00	90.80	324.20	6333.96	6041.18	-4624.71	322.56	7608.14	7608.11	0.67
13667.00	90.90	324.00	6333.31	6076.82	-4650.50	322.57	7652.12	7652.09	0.51
13709.00	90.90	324.80	6332.65	6110.97	-4674.95	322.58	7694.09	7694.06	1.90
13754.00	91.20	324.40	6331.83	6147.64	-4701.01	322.60	7739.06	7739.03	1.11

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