



OTHER SERVICES1 OS1: GPIT OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in hole	
Tool run as per tool sketch	
Matrix changes shown on nuclear print	

Rig: Ensign 7	
Crew: Ian Derry & David Marquez	
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div>15C0-309</div> </div>	<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>
<div> <div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div> </div>	<div> <div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div> </div>
EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div> <div>SURFACE EQUIPMENT</div> <div>WITM (DTS)-A</div> <div> <div>GSR-U/Y</div> <div>NCT-B</div> <div>CNB-AB</div> <div>NCS-VB</div> </div> </div>	
<div> <div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>LEH-QT</div> <div>LEH-QT</div> <div> <div>DTC-H</div> <div>ECH-KC</div> <div>DTCH0-A</div> <div>DTCH1-A</div> </div> <div> <div>AH-NM</div> <div>AH-NM</div> </div> <div> <div>GPIT-C</div> <div>GPIC-C</div> <div>GPIH-B</div> </div> <div> <div> <div>HILTB-FTB</div> <div>HGNSD-B</div> <div>HMCA</div> <div>HGNH</div> <div>NLS-KL</div> <div>NSR-F 940</div> <div>HACCZ 419</div> <div>HCNT</div> <div>HGR</div> <div>HRCC-B</div> <div>HRMS-B</div> <div>HRGD-B</div> <div>GLS-VJ 5094</div> <div>MCFL Device</div> <div>HILT Nucl. LS 42767</div> <div>HILT Nucl. SS 42767</div> <div>HILT Nucl. BS 42767</div> <div>AIT-H</div> <div>AHIS-BA 374</div> <div>AHRM-A</div> <div>NPV-N</div> </div> <div> <div>CTEM</div> <div>TelStatus</div> <div>ToolStatu</div> <div> <div>HGNS HTEM</div> <div>HMCA</div> <div>HGNS Gamm</div> <div> <div>HGNS Neut</div> <div>HGNS Neut</div> <div>HGNS sens</div> <div>HRCC cart</div> <div>MCFL</div> </div> </div> </div> </div> </div></div></div>	<div> <div>51.6</div> <div> <div>47.7</div> <div>48.6</div> <div>45.6</div> </div> <div>45.6</div> <div>41.6</div> <div> <div>37.6</div> <div>36.9</div> <div>37.6</div> </div> <div> <div>31.1</div> <div>30.6</div> </div> <div>28.2</div> <div>24.2</div> <div>18.8</div> </div>

MCT L  
HILT cali  
HRDD-LS  
HRDD-SS  
HRDD-BS

18.8

17.9

Induction  
Temperatu  
Power Sup

7.9

SP SENSOR  
GPIT HV DF  
HTEN HMAS  
Accelerom  
Mud Resis  
Tension

0.1

0.0

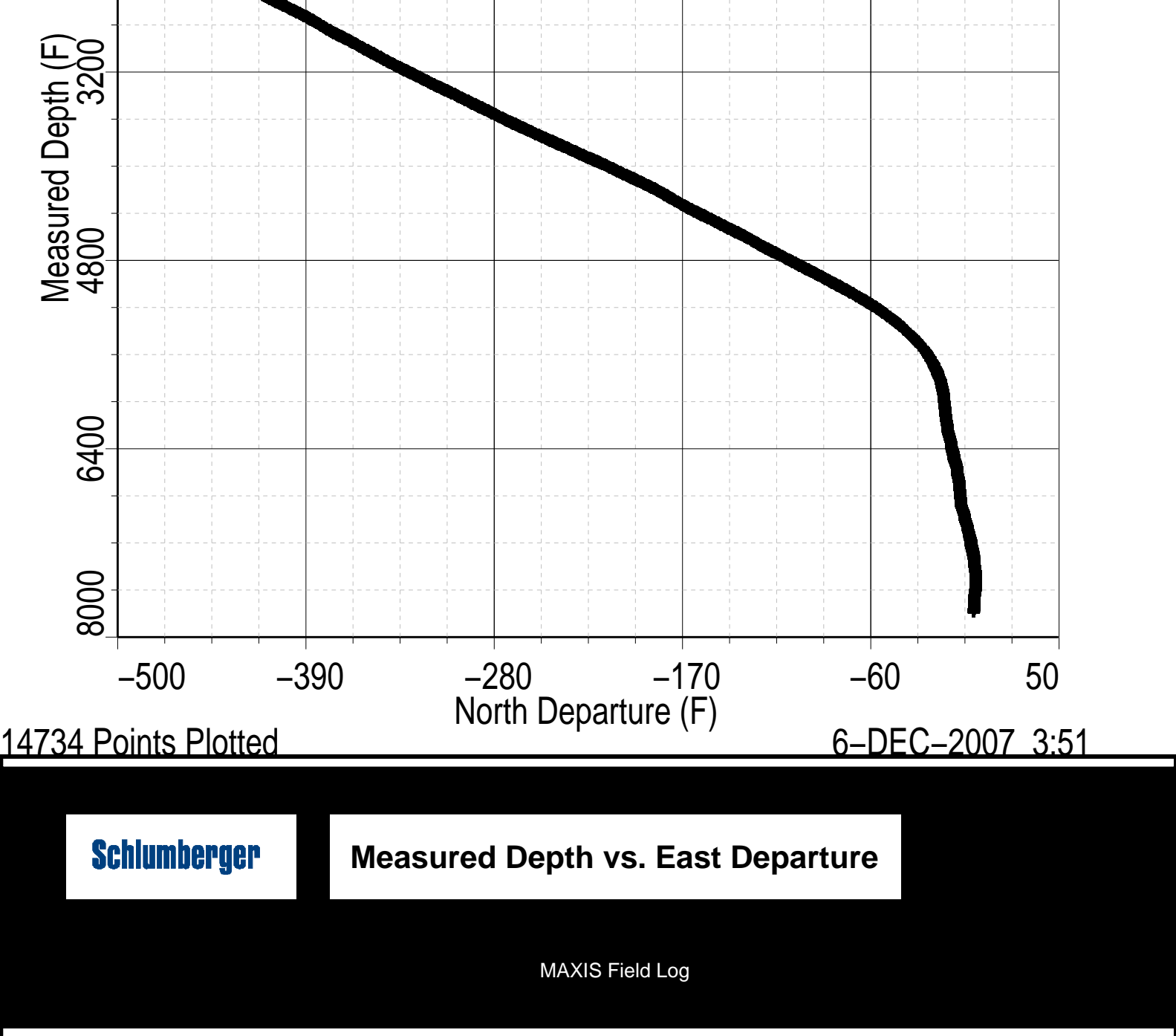
TOOL ZERO

MAXIMUM STRING DIAMETER 4.63 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN FEET

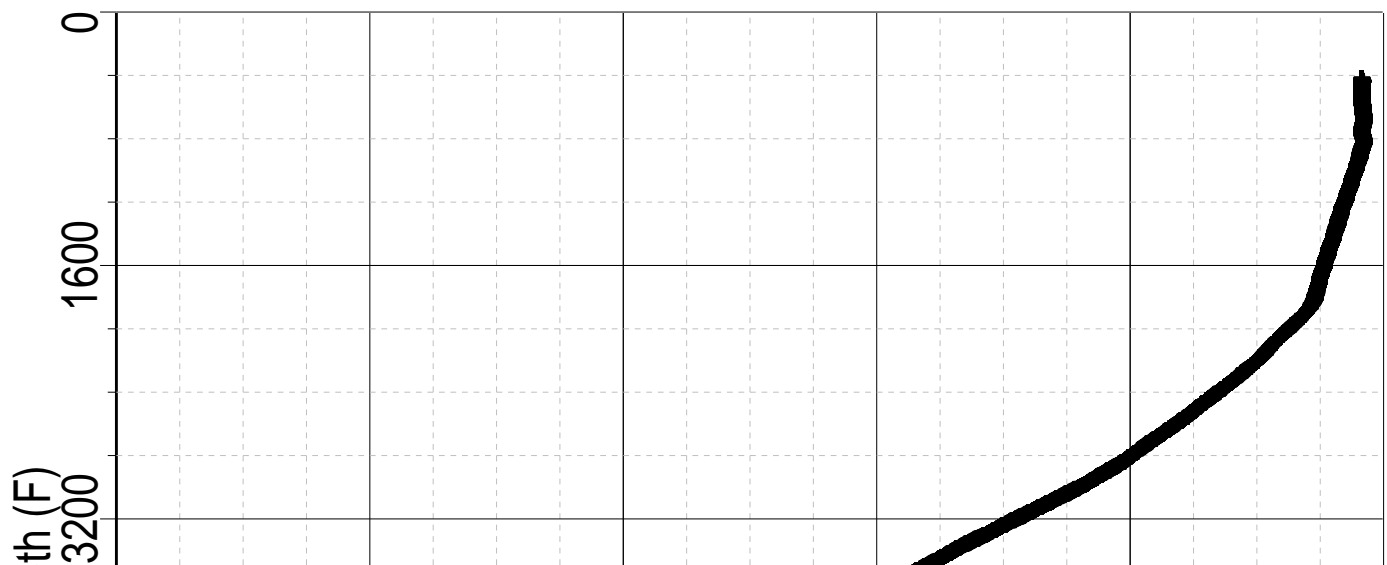
Production String	(in)			Well Schematic	(ft)			Casing String
	(in)		(ft)		(ft)		(in)	
	OD	ID	MD		MD	OD	ID	
					0.0	8.625		Casing String
					838.0	8.625		Casing Shoe
					838.0	7.875		Borehole Segment

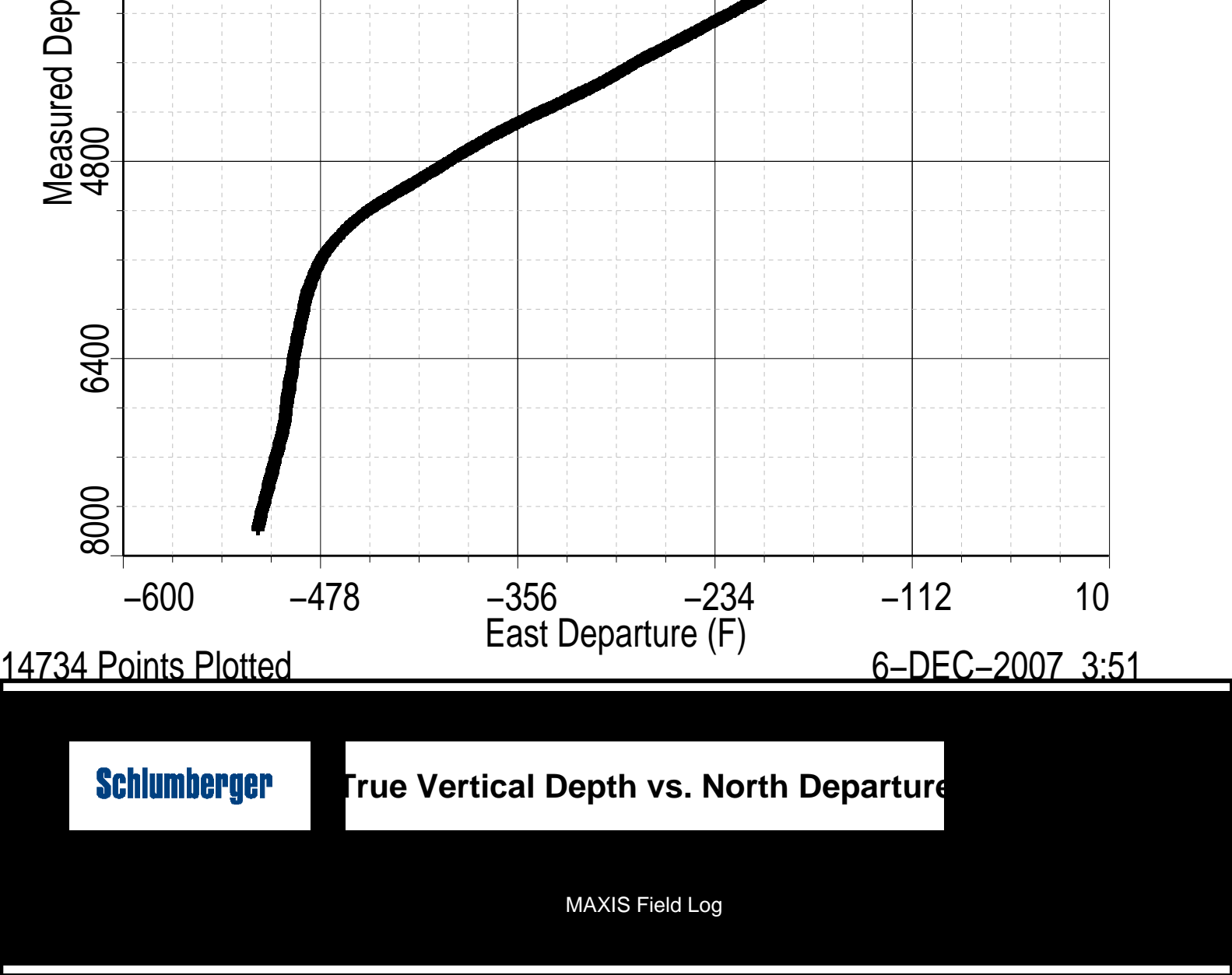






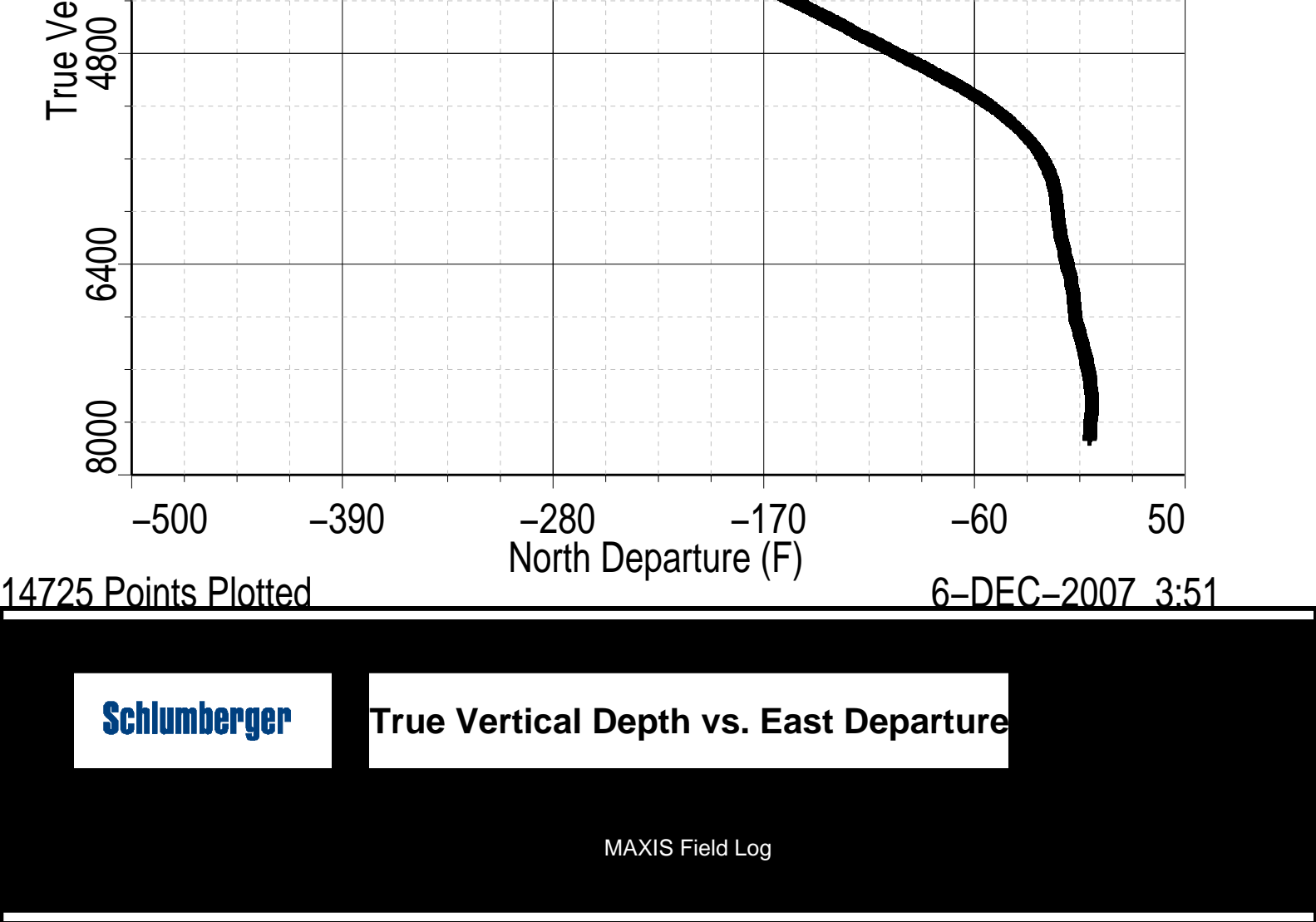
Index: 7784.0 – 417.5 FT





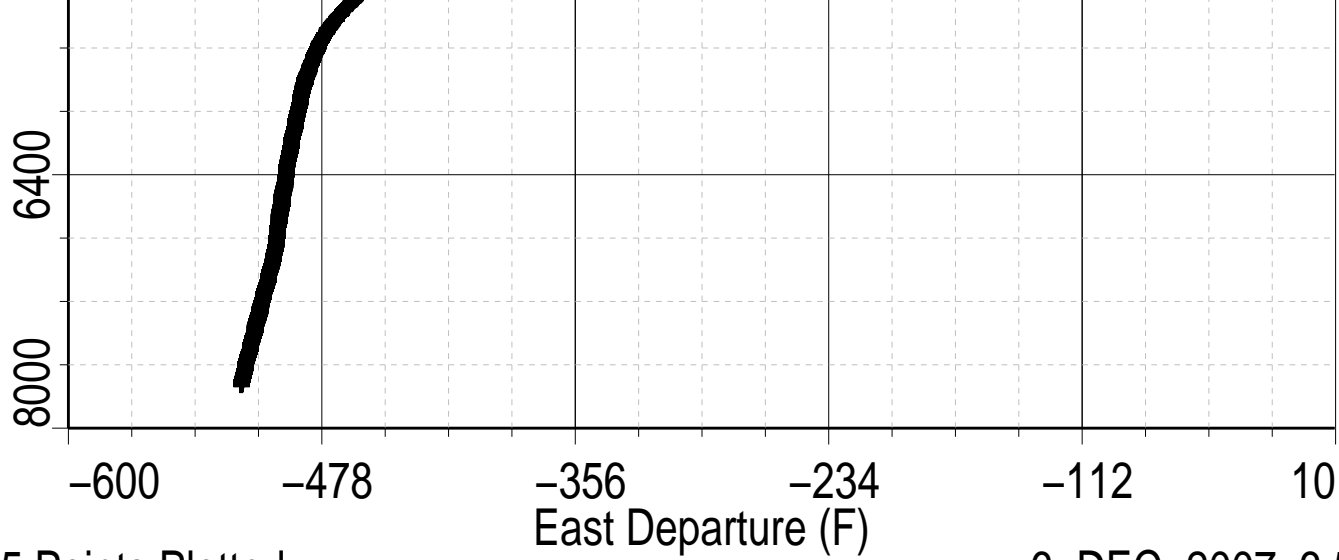
Index: 7784.0 – 417.5 FT





Index: 7784.0 – 417.5 FT





14725 Points Plotted

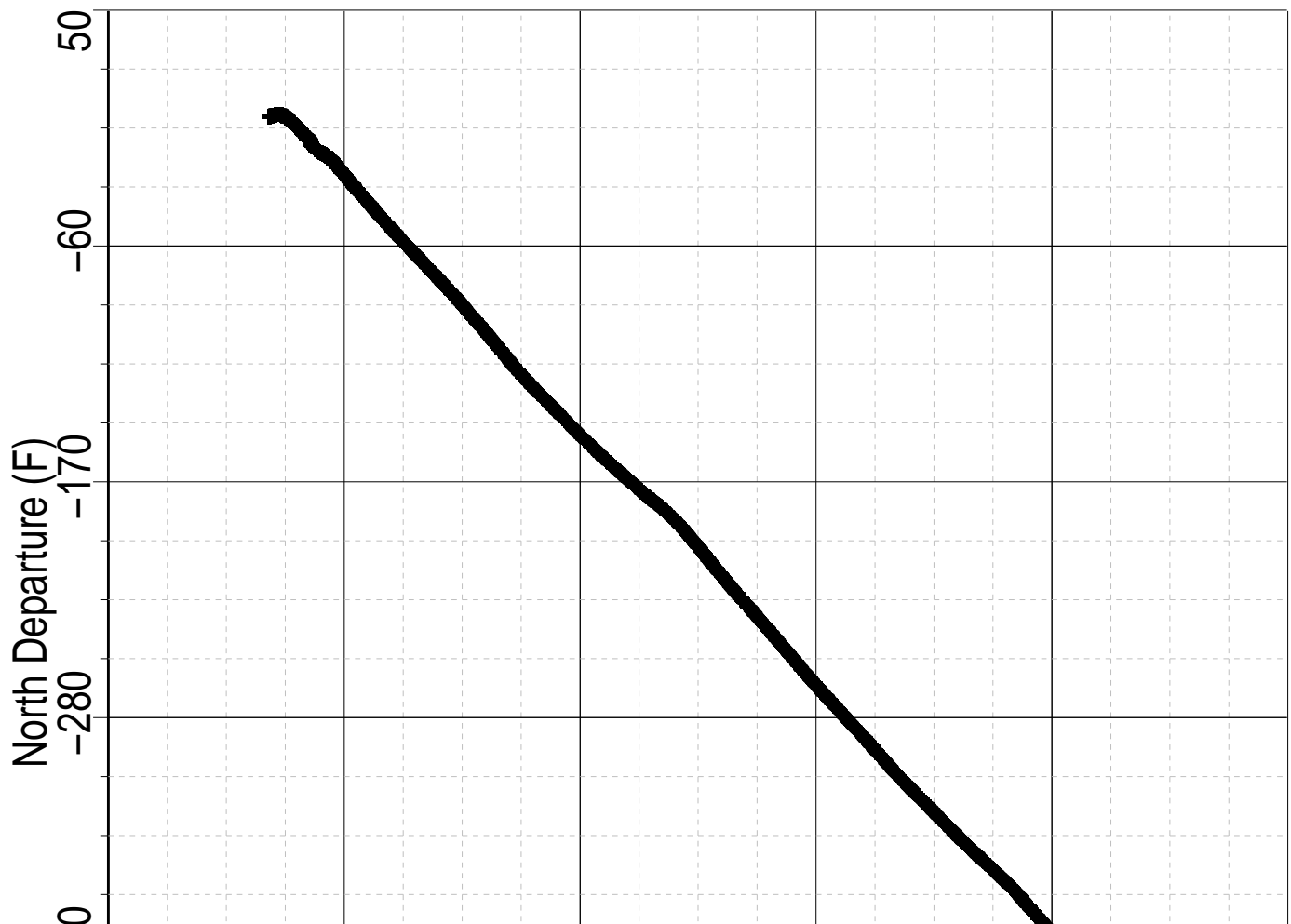
6-DEC-2007 3:51

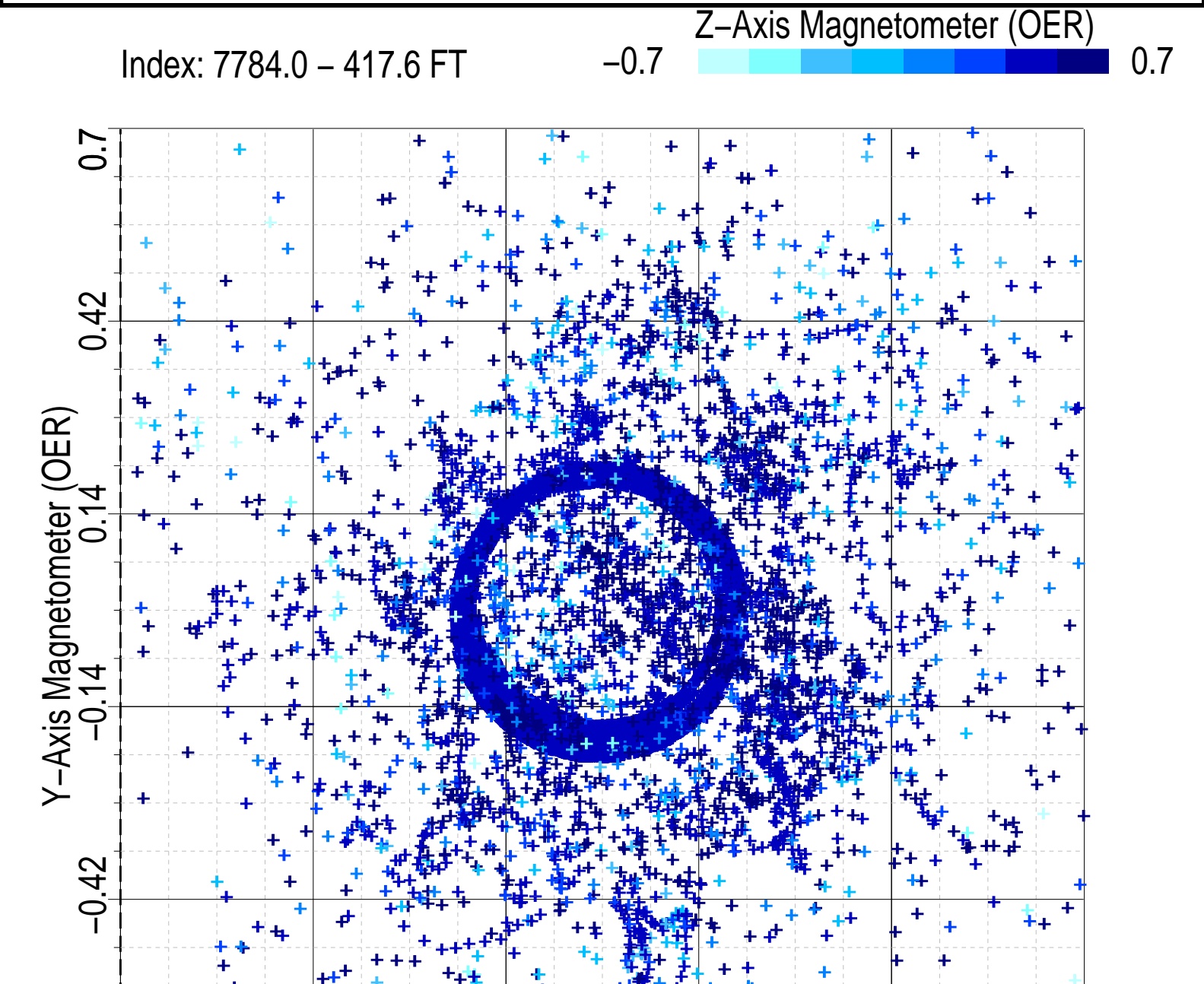
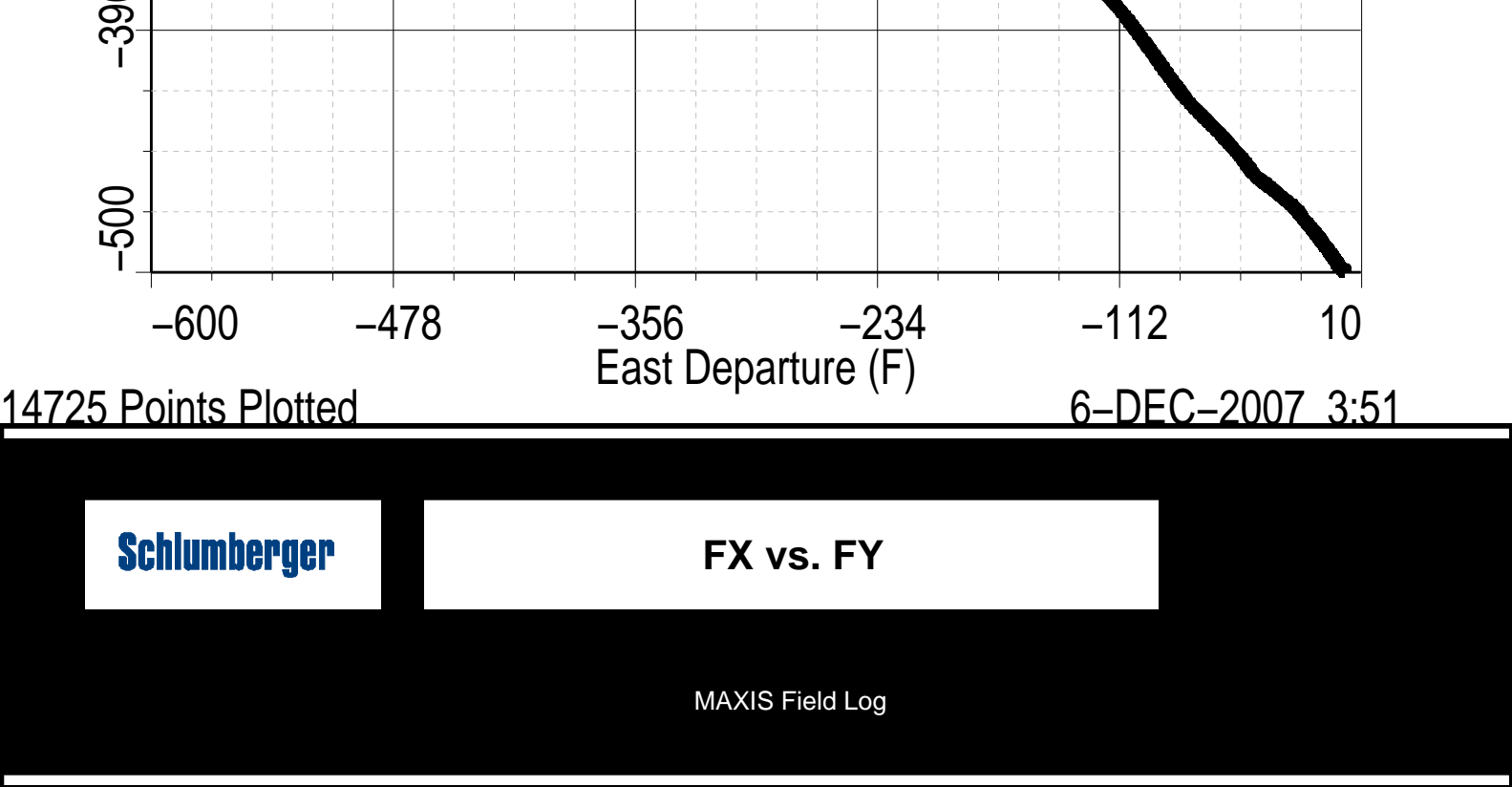
**Schlumberger**

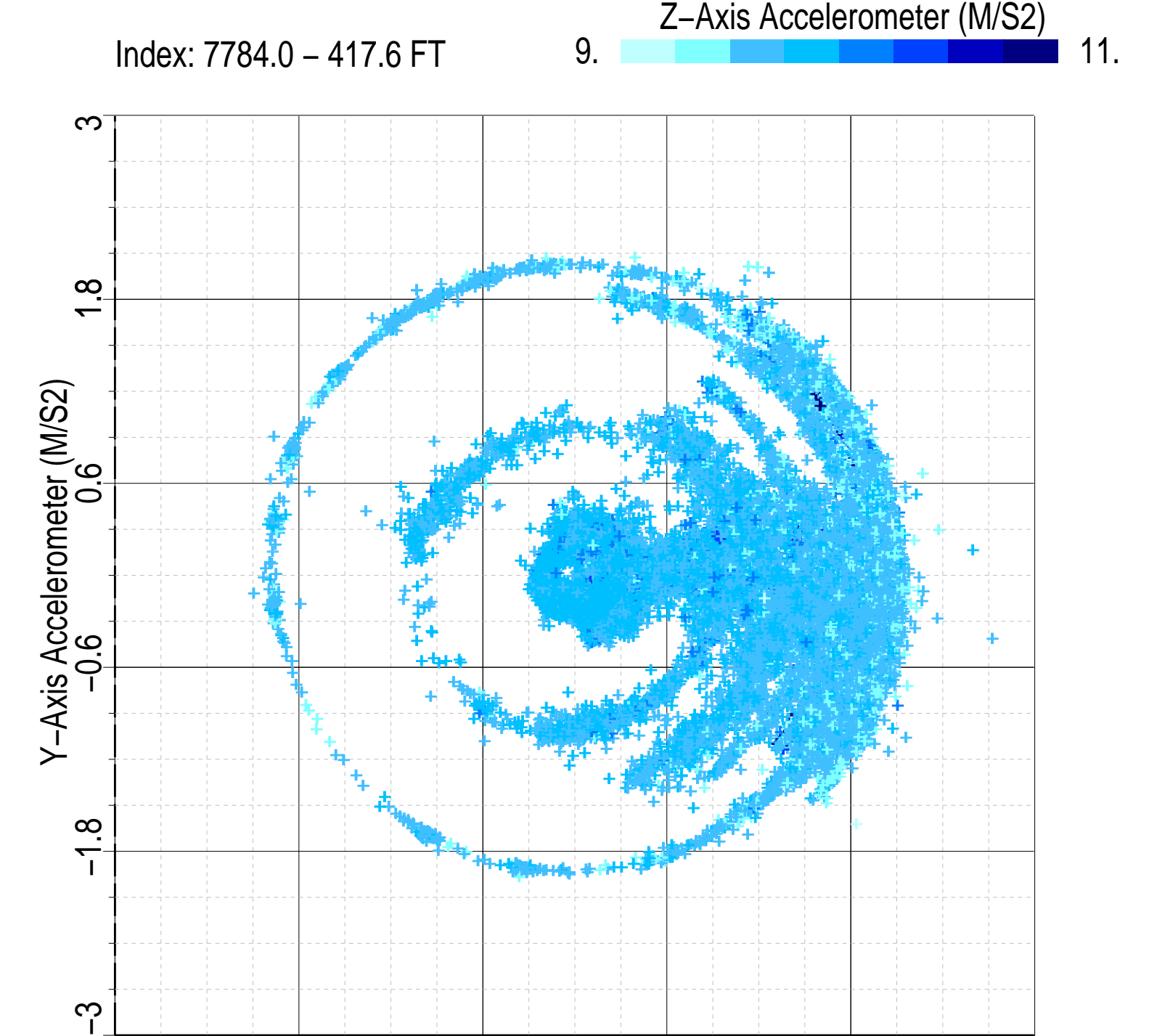
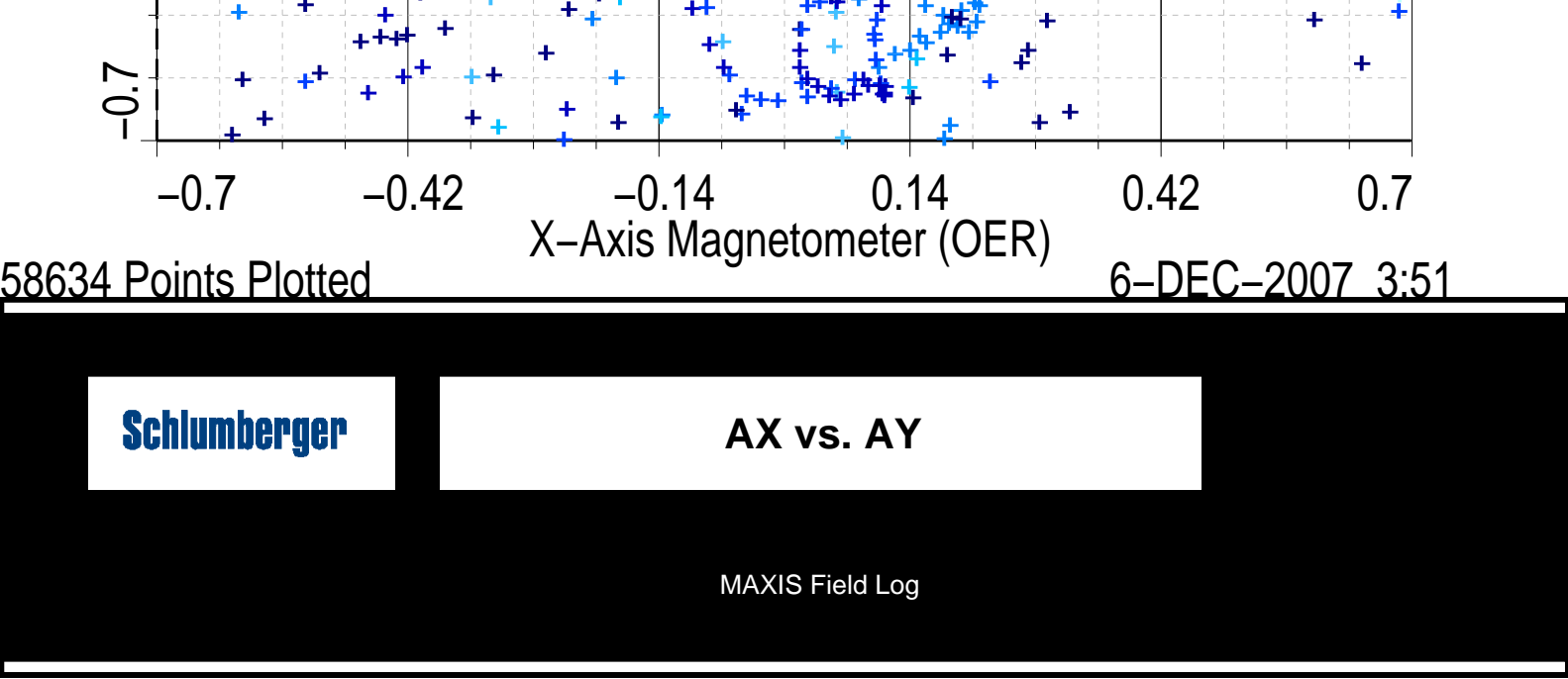
**North Departure vs. East Departure**

MAXIS Field Log

Index: 7784.0 – 417.5 FT







-3

-1.8

-0.6

0.6

1.8

3

X-Axis Accelerometer (M/S2)

58932 Points Plotted

6-DEC-2007 3:51

**Schlumberger****LAS File**

MAXIS Field Log

```

#-----
~PARAMETER INFORMA
#MNEM.UNIT  VALUE              DESCRIPTION
#-----
CN .      Orr Energy LLC      :Company Name
WN .      South 6-22D         :Well Name
FN .      Wattenburg          :Field Name
FL .      SENW Sec. 6 T5N R66W :Field Location
COUN .    Weld                :County or Rig Name
STAT .    Colorado           :State or Province
NATI .    :Nation
DATE .    5-Dec-2007         :Date as Month-Day-Year
APIN .    05-123-25984-0000   :API Serial Number
RUN .     1                  :RUN NUMBER
PDAT .    Ground Level       :Permanent Datum
EPD .F    4794.000000        :Elevation of Permanent Datum above Mea
n Sea Level
LMF .     Kelly Bushing      :Logging Measured From (Name of Logging
Elevation Reference)
APD .F    12.000000          :Elevation of Depth Reference (LMF) abo
ve Permanent Datum
#-----
~CURVE INFORMAT
#MNEM.UNIT  API CODE          DESCRIPTION
#-----
DEPT .F      :DEPTH (VERTICAL) {F10.1}
SDEVM.DEG    :Sonde Deviation {F12.3}
HAZIM.DEG    :Hole Azimuth {F13.4}
#-----
#
#  DEPT    SDEVM    HAZIM
#
~A
424.0      1.246    124.1413
426.0      1.246    124.1413
428.0      1.238    123.7802
430.0      1.190    128.0650
432.0      1.040    141.8119
434.0      0.968    159.6535
436.0      1.062    184.2542
438.0      1.201    196.1504
440.0      1.218    201.3480
442.0      1.187    204.2039
444.0      0.888    212.5552

```



444.0	0.639	210.5556
446.0	0.154	189.5718
448.0	0.042	338.9138
450.0	0.415	71.3940
452.0	0.435	76.1303
454.0	0.358	142.4850
456.0	0.446	150.3507
458.0	0.573	184.2612
460.0	0.545	195.9054
462.0	0.352	167.2989
464.0	0.259	204.5463
466.0	0.312	254.0505
468.0	0.678	246.5031
470.0	1.076	249.7515
472.0	1.275	264.3155
474.0	1.210	277.0667
476.0	0.810	291.2096
478.0	0.369	277.3760
480.0	0.362	211.0080
482.0	0.395	176.4567
484.0	0.562	180.6110
486.0	0.611	219.0202
488.0	0.383	242.4358
490.0	0.285	199.2139
492.0	0.519	150.8494
494.0	0.558	94.5238
496.0	0.893	94.0350
498.0	0.993	79.6960
500.0	0.892	60.3815
502.0	0.469	40.8480
504.0	0.291	10.9114
506.0	0.259	0.3566
508.0	0.222	14.4650
510.0	0.626	44.0076
512.0	0.899	49.0406
514.0	1.366	35.4533
516.0	1.359	30.8540
518.0	1.044	13.4334
520.0	0.477	351.2283
522.0	0.521	274.2272
524.0	1.074	256.8821
526.0	1.254	250.0620
528.0	1.375	247.5124
530.0	1.151	255.4572
532.0	0.726	260.9371
534.0	0.492	239.2773
536.0	0.346	241.0139
538.0	0.138	185.3478
540.0	0.228	185.0022
542.0	0.386	195.5095
544.0	0.615	140.9701
546.0	0.778	117.1092
548.0	0.755	115.4460
550.0	1.084	109.3071
552.0	0.836	125.1181
554.0	0.708	161.4306
556.0	1.189	190.8363
558.0	1.476	204.6790
560.0	1.492	206.5753
562.0	1.489	208.6471
564.0	1.416	201.8113
566.0	1.220	182.6200

566.0	1.229	183.6209
568.0	1.118	158.4599
570.0	1.262	142.6049
572.0	1.397	134.6835
574.0	1.415	135.2490
576.0	1.346	143.0142
578.0	1.176	154.8062
580.0	0.979	168.6906
582.0	0.739	152.4371
584.0	0.527	116.7150
586.0	0.525	108.2300
588.0	1.003	83.2434
590.0	0.957	79.7384
592.0	0.717	96.4011
594.0	0.722	113.4195
596.0	0.579	139.0947
598.0	0.775	156.2000
600.0	1.067	154.2324
602.0	1.294	156.2367
604.0	1.558	146.9925
606.0	1.523	155.6130
608.0	1.139	160.8434
610.0	1.154	169.5009
612.0	1.158	170.2388
614.0	1.161	169.2115
616.0	1.524	169.6980
618.0	1.525	166.6044
620.0	1.542	169.2337
622.0	1.437	168.7606
624.0	1.087	148.4191
626.0	0.616	132.4029
628.0	0.652	80.6554
630.0	0.333	61.5661
632.0	0.214	40.8015
634.0	0.107	77.3331
636.0	0.280	276.6422
638.0	0.214	297.3270
640.0	0.461	7.0528
642.0	0.681	5.0274
644.0	0.950	44.9110
646.0	1.168	52.8407
648.0	1.424	62.5670
650.0	1.476	76.0732
652.0	1.490	79.0854
654.0	1.447	74.5664
656.0	1.340	75.2669
658.0	1.095	53.5041
660.0	0.789	18.5436
662.0	0.604	327.4693
664.0	0.947	296.5934
666.0	1.196	285.3730
668.0	1.106	276.7852
670.0	0.927	272.3070
672.0	0.877	259.7651
674.0	0.607	268.4196
676.0	0.481	219.1398
678.0	0.514	204.6602
680.0	0.373	174.6071
682.0	0.382	146.6103
684.0	0.242	180.6088
686.0	0.164	328.5952
688.0	0.235	304.1018

688.0	0.233	304.1018
690.0	0.423	340.2368
692.0	0.604	7.8399
694.0	0.984	358.4022
696.0	1.161	3.9142
698.0	1.513	340.8004
700.0	1.548	325.5543
702.0	1.493	315.1527
704.0	1.463	301.8944
706.0	1.484	298.8426
708.0	1.478	300.7951
710.0	1.530	298.6299
712.0	1.591	304.0271
714.0	1.272	288.7382
716.0	1.001	273.6379
718.0	0.796	255.4218
720.0	0.629	224.1613
722.0	0.602	246.1380
724.0	0.595	225.0690
726.0	0.641	201.7408
728.0	0.777	195.9199
730.0	1.203	190.9549
732.0	1.174	197.6348
734.0	1.179	205.4037
736.0	1.232	217.8138
738.0	1.173	237.9334
740.0	1.147	233.3301
742.0	1.470	236.3701
744.0	1.251	238.6449
746.0	0.701	215.1973
748.0	0.515	164.6092
750.0	0.769	131.2929
752.0	1.126	125.4101
754.0	1.425	157.1731
756.0	1.578	166.6385
758.0	1.643	175.2505
760.0	1.322	168.5863
762.0	1.237	168.1392
764.0	1.213	177.3541
766.0	0.857	158.9199
768.0	0.590	140.7299
770.0	0.689	105.6834
772.0	1.078	62.0290
774.0	1.294	57.3322
776.0	1.335	58.6270
778.0	0.694	43.9154
780.0	0.404	89.1796
782.0	0.576	126.1545
784.0	0.843	139.3642
786.0	1.307	118.7585
788.0	1.563	104.7605
790.0	1.598	91.6635
792.0	1.584	87.6652
794.0	1.366	88.8429
796.0	1.291	96.1049
798.0	1.276	116.4724
800.0	1.382	134.8725
802.0	1.520	147.7592
804.0	1.555	156.3274
806.0	1.280	155.5571
808.0	0.694	164.1029
810.0	0.300	212.8532

810.0	0.360	212.8532
812.0	0.360	218.8703
814.0	0.730	232.4891
816.0	1.078	212.1065
818.0	1.536	189.5397
820.0	1.560	199.9265
822.0	0.894	205.5993
824.0	0.223	232.8220
826.0	0.654	315.4048
828.0	0.737	316.0581
830.0	0.971	303.8355
832.0	1.267	291.6236
834.0	1.386	283.0139
836.0	1.596	291.0148
838.0	1.626	288.7643
840.0	1.546	283.0319
842.0	1.506	288.9777
844.0	1.489	300.3684
846.0	1.522	312.7776
848.0	1.761	323.2272
850.0	1.769	323.9187
852.0	1.791	323.7764
854.0	1.829	323.8687
856.0	1.870	323.6854
858.0	1.903	322.6953
860.0	1.919	322.5593
862.0	1.949	322.3746
864.0	1.976	322.5432
866.0	2.000	322.6620
868.0	2.024	322.9403
870.0	2.042	323.6812
872.0	2.052	323.6060
874.0	2.064	324.0959
876.0	2.099	323.9609
878.0	2.122	324.0709
880.0	2.148	323.6214
882.0	2.164	323.1155
884.0	2.196	322.6877
886.0	2.231	322.7343
888.0	2.259	322.4432
890.0	2.291	322.2733
892.0	2.319	322.3454
894.0	2.330	321.9136
896.0	2.343	321.8708
898.0	2.339	322.6536
900.0	2.336	322.7605
902.0	2.346	323.3107
904.0	2.335	323.5255
906.0	2.346	323.9941
908.0	2.338	323.4634
910.0	2.358	323.7878
912.0	2.347	324.1829
914.0	2.375	323.8692
916.0	2.368	323.6974
918.0	2.381	323.7907
920.0	2.390	324.3030
922.0	2.397	323.3651
924.0	2.403	323.6277
926.0	2.387	323.8876
928.0	2.370	323.9821
930.0	2.361	323.7271
932.0	2.347	323.9624

934.0	2.362	324.4517
936.0	2.368	323.7068
938.0	2.367	324.1699
940.0	2.372	324.1698
942.0	2.378	323.9547
944.0	2.368	323.8354
946.0	2.362	324.2845
948.0	2.364	323.9243
950.0	2.363	323.5098
952.0	2.373	323.4205
954.0	2.404	323.0374
956.0	2.403	323.0018
958.0	2.405	323.0907
960.0	2.417	323.3196
962.0	2.400	323.1750
964.0	2.396	323.5375
966.0	2.385	323.9225
968.0	2.375	323.2991
970.0	2.390	323.5250
972.0	2.389	323.5964
974.0	2.391	323.0224
976.0	2.391	323.4745
978.0	2.367	323.4817
980.0	2.359	323.5271
982.0	2.330	323.4250
984.0	2.337	323.0888
986.0	2.342	323.4130
988.0	2.345	323.1375
990.0	2.348	323.1582
992.0	2.344	323.2118
994.0	2.333	323.3597
996.0	2.343	323.1203
998.0	2.330	323.3100
1000.0	2.334	323.1072
1002.0	2.351	322.8680
1004.0	2.345	323.0579
1006.0	2.346	322.7599
1008.0	2.345	323.0966
1010.0	2.333	322.9527
1012.0	2.323	323.1770
1014.0	2.317	322.8628
1016.0	2.332	322.5149
1018.0	2.336	322.5775
1020.0	2.340	322.3273
1022.0	2.348	322.7303
1024.0	2.335	322.6599
1026.0	2.325	322.7759
1028.0	2.331	323.0663
1030.0	2.325	322.6060
1032.0	2.332	322.5307
1034.0	2.338	322.5758
1036.0	2.327	322.4332
1038.0	2.328	322.4756
1040.0	2.318	322.5981
1042.0	2.321	322.5482
1044.0	2.318	322.5441
1046.0	2.326	322.3156
1048.0	2.330	322.3875
1050.0	2.345	322.4789
1052.0	2.357	322.4166
1054.0	2.358	322.7286

1056.0	2.369	322.7157
1058.0	2.375	322.6340
1060.0	2.365	322.6803
1062.0	2.360	322.3374
1064.0	2.358	322.4630
1066.0	2.358	322.2758
1068.0	2.363	322.1748
1070.0	2.359	322.3057
1072.0	2.349	322.3073
1074.0	2.336	322.4756
1076.0	2.329	322.2285
1078.0	2.329	322.7384
1080.0	2.336	322.6898
1082.0	2.337	322.6279
1084.0	2.339	322.5211
1086.0	2.341	322.4742
1088.0	2.347	322.3932
1090.0	2.350	322.2809
1092.0	2.345	322.5225
1094.0	2.350	322.0299
1096.0	2.356	321.8491
1098.0	2.355	321.9196
1100.0	2.344	321.8148
1102.0	2.347	321.9651
1104.0	2.334	321.9441
1106.0	2.325	321.2219
1108.0	2.320	321.8991
1110.0	2.324	321.8863
1112.0	2.322	321.9177
1114.0	2.325	321.7168
1116.0	2.319	321.8918
1118.0	2.327	321.6887
1120.0	2.328	321.7711
1122.0	2.329	321.7156
1124.0	2.329	321.6406
1126.0	2.328	321.6057
1128.0	2.329	321.6299
1130.0	2.327	321.1712
1132.0	2.322	321.1471
1134.0	2.314	321.5502
1136.0	2.301	320.9753
1138.0	2.307	321.0369
1140.0	2.293	321.3101
1142.0	2.290	321.1148
1144.0	2.292	321.2613
1146.0	2.295	321.3083
1148.0	2.294	321.4730
1150.0	2.302	321.5351
1152.0	2.302	321.7083
1154.0	2.298	321.6291
1156.0	2.311	321.4338
1158.0	2.299	321.3357
1160.0	2.297	321.3972
1162.0	2.296	321.3442
1164.0	2.289	321.1201
1166.0	2.279	320.9377
1168.0	2.265	320.9066
1170.0	2.256	320.9552
1172.0	2.256	320.9111
1174.0	2.261	320.9280
1176.0	2.267	320.9540

1178.0	2.272	320.8282
1180.0	2.269	320.8095
1182.0	2.276	320.7251
1184.0	2.286	320.8418
1186.0	2.292	320.6117
1188.0	2.297	320.1932
1190.0	2.295	319.8971
1192.0	2.295	319.9083
1194.0	2.294	319.5485
1196.0	2.282	319.5249
1198.0	2.277	319.2511
1200.0	2.276	319.1558
1202.0	2.269	318.7649
1204.0	2.265	318.8904
1206.0	2.267	319.0100
1208.0	2.270	319.0304
1210.0	2.272	319.1009
1212.0	2.290	319.2403
1214.0	2.293	318.8746
1216.0	2.293	318.8734
1218.0	2.297	319.0502
1220.0	2.305	318.9370
1222.0	2.300	318.8736
1224.0	2.309	319.0781
1226.0	2.306	318.9988
1228.0	2.312	319.0645
1230.0	2.309	319.3797
1232.0	2.312	319.2551
1234.0	2.308	319.1341
1236.0	2.306	318.8748
1238.0	2.308	319.2133
1240.0	2.313	319.1076
1242.0	2.313	319.2490
1244.0	2.319	319.5065
1246.0	2.310	319.6809
1248.0	2.309	319.8089
1250.0	2.300	319.6650
1252.0	2.295	319.6151
1254.0	2.295	319.5253
1256.0	2.295	319.5149
1258.0	2.296	319.3801
1260.0	2.293	319.5941
1262.0	2.289	319.7085
1264.0	2.276	319.8675
1266.0	2.277	319.7583
1268.0	2.282	319.7603
1270.0	2.281	319.7852
1272.0	2.291	319.9088
1274.0	2.292	319.8532
1276.0	2.289	319.9909
1278.0	2.287	319.7765
1280.0	2.277	319.8815
1282.0	2.265	319.6817
1284.0	2.256	319.8834
1286.0	2.255	319.5193
1288.0	2.249	319.5579
1290.0	2.245	319.6265
1292.0	2.242	319.5956
1294.0	2.231	319.3660
1296.0	2.231	319.4210
1298.0	2.233	319.5035

1300.0	2.227	319.6453
1302.0	2.230	319.5732
1304.0	2.236	319.5767
1306.0	2.238	319.6234
1308.0	2.245	319.6995
1310.0	2.244	319.4446
1312.0	2.238	319.7117
1314.0	2.240	319.4331
1316.0	2.238	319.5855
1318.0	2.233	319.4809
1320.0	2.227	319.5692
1322.0	2.210	319.5443
1324.0	2.192	319.3137
1326.0	2.194	319.4506
1328.0	2.186	319.3039
1330.0	2.192	319.0915
1332.0	2.187	319.3811
1334.0	2.189	319.2077
1336.0	2.185	319.5186
1338.0	2.194	319.8431
1340.0	2.196	319.5497
1342.0	2.200	319.4986
1344.0	2.205	319.6346
1346.0	2.201	319.7400
1348.0	2.196	319.8728
1350.0	2.189	319.9405
1352.0	2.181	319.9190
1354.0	2.176	319.8197
1356.0	2.164	319.7512
1358.0	2.164	319.7575
1360.0	2.167	319.7148
1362.0	2.173	319.6872
1364.0	2.181	319.7486
1366.0	2.179	319.4265
1368.0	2.178	319.8051
1370.0	2.173	319.6519
1372.0	2.167	319.1490
1374.0	2.167	319.1138
1376.0	2.172	319.0215
1378.0	2.154	318.8513
1380.0	2.158	318.8233
1382.0	2.133	319.2167
1384.0	2.141	318.8844
1386.0	2.145	318.8671
1388.0	2.148	318.5282
1390.0	2.159	318.4661
1392.0	2.167	318.3432
1394.0	2.162	318.6241
1396.0	2.172	318.2400
1398.0	2.175	318.5268
1400.0	2.165	318.3323
1402.0	2.156	318.3090
1404.0	2.144	318.3005
1406.0	2.128	318.1387
1408.0	2.135	317.8649
1410.0	2.136	317.9496
1412.0	2.129	317.5029
1414.0	2.140	317.7234
1416.0	2.121	317.9878
1418.0	2.108	317.8902
1420.0	2.109	317.9727



1422.0	2.106	318.0813
1424.0	2.098	317.5973
1426.0	2.103	317.7848
1428.0	2.096	317.7430
1430.0	2.096	317.6923
1432.0	2.092	317.8724
1434.0	2.075	317.7422
1436.0	2.083	317.5103
1438.0	2.081	317.2644
1440.0	2.084	317.6279
1442.0	2.089	317.4486
1444.0	2.094	317.6652
1446.0	2.098	317.7366
1448.0	2.081	317.5135
1450.0	2.074	317.6655
1452.0	2.078	317.4958
1454.0	2.055	317.7235
1456.0	2.060	317.5809
1458.0	2.061	317.6855
1460.0	2.046	317.6344
1462.0	2.045	317.4078
1464.0	2.037	317.3624
1466.0	2.034	316.8952
1468.0	2.032	317.0112
1470.0	2.038	316.8569
1472.0	2.050	316.9025
1474.0	2.042	317.0276
1476.0	2.046	317.1588
1478.0	2.041	316.9238
1480.0	2.045	316.5608
1482.0	2.033	316.6580
1484.0	2.032	316.7783
1486.0	2.031	316.6822
1488.0	2.030	316.6192
1490.0	2.026	316.8309
1492.0	2.029	316.8791
1494.0	2.018	317.1385
1496.0	2.021	317.0936
1498.0	2.023	316.8171
1500.0	2.016	316.7410
1502.0	2.021	317.0277
1504.0	2.014	317.3610
1506.0	2.010	317.4539
1508.0	2.018	317.6991
1510.0	2.010	317.9839
1512.0	2.006	317.6404
1514.0	2.013	317.5708
1516.0	2.007	317.2301
1518.0	2.019	316.4017
1520.0	2.030	315.5709
1522.0	2.036	315.3011
1524.0	2.036	315.0367
1526.0	2.030	314.4453
1528.0	2.027	314.5107
1530.0	2.024	314.4200
1532.0	2.013	313.8180
1534.0	2.007	313.6755
1536.0	1.998	313.3506
1538.0	1.992	313.4170
1540.0	1.953	313.2098
1542.0	1.971	313.5203
1544.0	1.922	312.8221

1544.0	1.963	313.8321
1546.0	1.941	313.8124
1548.0	1.965	314.0806
1550.0	1.967	314.2443
1552.0	1.944	314.5085
1554.0	1.941	315.0657
1556.0	1.949	315.2204
1558.0	1.956	316.3390
1560.0	1.968	316.9836
1562.0	1.977	317.3291
1564.0	1.990	318.1097
1566.0	2.009	318.0267
1568.0	2.026	319.2289
1570.0	2.028	319.6711
1572.0	2.033	319.7337
1574.0	2.043	319.8127
1576.0	2.047	319.7308
1578.0	2.060	319.7559
1580.0	2.071	319.8193
1582.0	2.065	320.1884
1584.0	2.068	319.9356
1586.0	2.075	320.1865
1588.0	2.065	319.3952
1590.0	2.062	319.3206
1592.0	2.055	318.9768
1594.0	2.064	318.9159
1596.0	2.065	318.6807
1598.0	2.064	318.9973
1600.0	2.071	319.0469
1602.0	2.062	318.8202
1604.0	2.065	318.6259
1606.0	2.047	318.4030
1608.0	2.022	318.8850
1610.0	2.025	318.6580
1612.0	2.013	318.7901
1614.0	2.007	319.0990
1616.0	2.018	318.8042
1618.0	2.007	319.4161
1620.0	2.007	319.2411
1622.0	2.018	319.4086
1624.0	1.992	319.4989
1626.0	2.010	319.2631
1628.0	2.013	319.3513
1630.0	2.003	319.3230
1632.0	2.012	319.5270
1634.0	1.995	319.5614
1636.0	1.997	319.1352
1638.0	2.004	319.3521
1640.0	1.977	319.8310
1642.0	1.970	319.9608
1644.0	1.977	320.1071
1646.0	1.932	320.4583
1648.0	1.954	319.8092
1650.0	1.950	320.4909
1652.0	1.962	320.4067
1654.0	1.955	319.9376
1656.0	1.940	320.2957
1658.0	1.951	320.0327
1660.0	1.936	320.2191
1662.0	1.944	320.3057
1664.0	1.947	319.5629
1666.0	1.946	319.2242

1666.0	1.946	319.3342
1668.0	1.959	318.5373
1670.0	1.942	318.9189
1672.0	1.922	319.8802
1674.0	1.926	319.6297
1676.0	1.927	318.7640
1678.0	1.929	318.4507
1680.0	1.936	318.1360
1682.0	1.929	318.5476
1684.0	1.938	319.1295
1686.0	1.921	319.2706
1688.0	1.928	319.2389
1690.0	1.943	319.1924
1692.0	1.948	319.9223
1694.0	1.967	320.1125
1696.0	2.008	320.4413
1698.0	2.046	322.5531
1700.0	2.025	323.3400
1702.0	2.032	326.2086
1704.0	2.032	327.0881
1706.0	1.999	327.5133
1708.0	1.972	328.1029
1710.0	1.990	327.1174
1712.0	1.956	327.8221
1714.0	1.938	327.3792
1716.0	1.929	327.4803
1718.0	1.915	327.8568
1720.0	1.895	327.7210
1722.0	1.899	327.6997
1724.0	1.863	327.2625
1726.0	1.849	326.1711
1728.0	1.851	325.5836
1730.0	1.847	325.3963
1732.0	1.840	324.8243
1734.0	1.803	324.7499
1736.0	1.783	324.8907
1738.0	1.791	324.2220
1740.0	1.777	324.1549
1742.0	1.773	323.4305
1744.0	1.769	323.4665
1746.0	1.771	323.6754
1748.0	1.766	323.5385
1750.0	1.763	323.5854
1752.0	1.762	323.6914
1754.0	1.762	323.8689
1756.0	1.735	324.0198
1758.0	1.785	323.3786
1760.0	1.783	323.2195
1762.0	1.772	322.0086
1764.0	1.778	320.4240
1766.0	1.785	319.5572
1768.0	1.832	318.4228
1770.0	1.861	317.5185
1772.0	1.898	317.1056
1774.0	1.947	316.0189
1776.0	1.989	314.2451
1778.0	2.015	313.5732
1780.0	2.016	312.4720
1782.0	2.015	312.4454
1784.0	1.994	311.0675
1786.0	2.007	310.9698
1788.0	2.013	310.7645

1788.0	2.013	310.7643
1790.0	2.042	310.6181
1792.0	2.065	310.5243
1794.0	2.087	310.0710
1796.0	2.112	310.0190
1798.0	2.147	310.2319
1800.0	2.177	309.6936
1802.0	2.219	309.6019
1804.0	2.250	309.5255
1806.0	2.300	309.2727
1808.0	2.342	309.0329
1810.0	2.373	308.5766
1812.0	2.384	308.1310
1814.0	2.421	307.6090
1816.0	2.451	306.9097
1818.0	2.514	307.0604
1820.0	2.574	306.9387
1822.0	2.623	306.7487
1824.0	2.683	306.6942
1826.0	2.743	306.7354
1828.0	2.803	306.8262
1830.0	2.894	306.9949
1832.0	2.941	306.6874
1834.0	2.993	306.5170
1836.0	3.051	306.4844
1838.0	3.099	305.9819
1840.0	3.166	306.1234
1842.0	3.231	306.2121
1844.0	3.300	306.0625
1846.0	3.362	306.1669
1848.0	3.417	306.1240
1850.0	3.464	306.1225
1852.0	3.514	306.4003
1854.0	3.592	306.4117
1856.0	3.635	306.7232
1858.0	3.713	306.7950
1860.0	3.771	306.8515
1862.0	3.814	306.7143
1864.0	3.906	306.7520
1866.0	3.958	306.8109
1868.0	4.011	306.9106
1870.0	4.068	306.9082
1872.0	4.124	307.0427
1874.0	4.178	307.2080
1876.0	4.227	307.1237
1878.0	4.294	307.3731
1880.0	4.351	307.4769
1882.0	4.386	307.5916
1884.0	4.463	307.4405
1886.0	4.480	307.6115
1888.0	4.540	307.7624
1890.0	4.577	307.5026
1892.0	4.624	307.5649
1894.0	4.660	307.4205
1896.0	4.701	307.3028
1898.0	4.741	307.3849
1900.0	4.764	307.5211
1902.0	4.792	307.4165
1904.0	4.833	307.5060
1906.0	4.865	307.3887
1908.0	4.884	307.3747
1910.0	4.870	307.1840

1910.0	4.878	307.1848
1912.0	4.911	307.3291
1914.0	4.909	307.1890
1916.0	4.954	307.3853
1918.0	5.008	307.2318
1920.0	5.070	307.3571
1922.0	5.086	307.2437
1924.0	5.131	307.3873
1926.0	5.142	307.3394
1928.0	5.166	307.4001
1930.0	5.211	307.5068
1932.0	5.225	307.5174
1934.0	5.184	307.3365
1936.0	5.293	307.4849
1938.0	5.312	307.4249
1940.0	5.335	307.4802
1942.0	5.331	307.5195
1944.0	5.348	307.3432
1946.0	5.383	307.2999
1948.0	5.403	307.2701
1950.0	5.413	307.0296
1952.0	5.470	307.1028
1954.0	5.525	307.2188
1956.0	5.575	307.2932
1958.0	5.631	307.2058
1960.0	5.632	307.0006
1962.0	5.629	306.5641
1964.0	5.614	306.2586
1966.0	5.585	306.2194
1968.0	5.573	305.8483
1970.0	5.573	305.9004
1972.0	5.562	305.8641
1974.0	5.560	305.7271
1976.0	5.574	305.6870
1978.0	5.580	305.4968
1980.0	5.620	305.5809
1982.0	5.664	305.5278
1984.0	5.718	305.6700
1986.0	5.762	305.7345
1988.0	5.809	305.8602
1990.0	5.852	306.0429
1992.0	5.891	306.2658
1994.0	5.943	306.3460
1996.0	5.998	306.3081
1998.0	6.058	306.3696
2000.0	6.105	306.3553
2002.0	6.135	306.3964
2004.0	6.130	306.2044
2006.0	6.110	305.7724
2008.0	6.106	305.2760
2010.0	6.112	304.7402
2012.0	6.130	304.3669
2014.0	6.128	304.3109
2016.0	6.093	304.2195
2018.0	6.043	303.9610
2020.0	6.018	303.9312
2022.0	5.983	303.8697
2024.0	5.956	303.6782
2026.0	5.912	303.2589
2028.0	5.888	303.0490
2030.0	5.847	302.6481
2032.0	5.836	302.3549

2032.0	5.888	302.0049
2034.0	5.826	302.1002
2036.0	5.807	301.8633
2038.0	5.788	301.7975
2040.0	5.792	302.1204
2042.0	5.769	302.4155
2044.0	5.753	303.1172
2046.0	5.745	303.5621
2048.0	5.746	303.9456
2050.0	5.747	304.3251
2052.0	5.744	304.6485
2054.0	5.747	304.8149
2056.0	5.759	304.9148
2058.0	5.744	305.0848
2060.0	5.749	305.1400
2062.0	5.754	304.9962
2064.0	5.753	304.9818
2066.0	5.732	304.8076
2068.0	5.712	304.7337
2070.0	5.694	304.8153
2072.0	5.681	305.3092
2074.0	5.663	305.7676
2076.0	5.648	306.1327
2078.0	5.646	306.4363
2080.0	5.632	306.7960
2082.0	5.604	307.1378
2084.0	5.589	307.7497
2086.0	5.578	308.2321
2088.0	5.551	308.7315
2090.0	5.546	309.2585
2092.0	5.549	309.7696
2094.0	5.555	310.2129
2096.0	5.547	310.9255
2098.0	5.570	311.8328
2100.0	5.583	312.8145
2102.0	5.585	313.7466
2104.0	5.609	314.6234
2106.0	5.628	315.4414
2108.0	5.653	316.0637
2110.0	5.681	316.8544
2112.0	5.740	317.5789
2114.0	5.782	318.3001
2116.0	5.839	318.9648
2118.0	5.890	319.7037
2120.0	5.939	320.3062
2122.0	5.979	320.7733
2124.0	5.999	321.2077
2126.0	6.045	321.7560
2128.0	6.089	321.5971
2130.0	6.110	321.9274
2132.0	6.145	322.1148
2134.0	6.165	322.0502
2136.0	6.199	322.0712
2138.0	6.240	322.0846
2140.0	6.275	321.9873
2142.0	6.332	321.9034
2144.0	6.385	321.8165
2146.0	6.424	321.5430
2148.0	6.460	321.3584
2150.0	6.512	321.3084
2152.0	6.554	321.2887
2154.0	6.586	321.1206

2156.0	6.608	320.9857
2158.0	6.621	321.0045
2160.0	6.664	321.0993
2162.0	6.677	321.0369
2164.0	6.681	320.9002
2166.0	6.688	320.5587
2168.0	6.678	320.2809
2170.0	6.682	320.2567
2172.0	6.668	320.0482
2174.0	6.676	319.8010
2176.0	6.668	319.5923
2178.0	6.645	319.2379
2180.0	6.643	318.9720
2182.0	6.629	318.6693
2184.0	6.595	318.3707
2186.0	6.601	318.1193
2188.0	6.621	317.9341
2190.0	6.610	317.7483
2192.0	6.598	317.7126
2194.0	6.615	317.5255
2196.0	6.641	317.3213
2198.0	6.680	317.0146
2200.0	6.718	316.7146
2202.0	6.756	316.4398
2204.0	6.847	316.4549
2206.0	6.851	316.2862
2208.0	6.886	316.5231
2210.0	6.953	316.5098
2212.0	6.985	316.5988
2214.0	7.012	316.7596
2216.0	7.069	316.8583
2218.0	7.096	316.9433
2220.0	7.106	316.8340
2222.0	7.143	316.9548
2224.0	7.141	316.9468
2226.0	7.163	316.7538
2228.0	7.192	316.3887
2230.0	7.266	316.1849
2232.0	7.307	315.6104
2234.0	7.343	315.3163
2236.0	7.413	315.6246
2238.0	7.426	315.4249
2240.0	7.487	315.5481
2242.0	7.511	315.4006
2244.0	7.529	315.2215
2246.0	7.533	315.0275
2248.0	7.536	314.8253
2250.0	7.554	314.6958
2252.0	7.544	314.4379
2254.0	7.543	314.3079
2256.0	7.548	314.4532
2258.0	7.541	314.4289
2260.0	7.531	314.4175
2262.0	7.513	314.4614
2264.0	7.491	314.3640
2266.0	7.498	314.3334
2268.0	7.477	314.3422
2270.0	7.503	314.3402
2272.0	7.523	314.3082
2274.0	7.537	314.2149
2276.0	7.540	314.0315

2278.0	7.518	314.0436
2280.0	7.498	314.0281
2282.0	7.467	314.0472
2284.0	7.419	314.3211
2286.0	7.417	314.4800
2288.0	7.397	314.6340
2290.0	7.361	314.7877
2292.0	7.330	314.7958
2294.0	7.332	314.7012
2296.0	7.320	314.8254
2298.0	7.340	314.6885
2300.0	7.351	314.5179
2302.0	7.356	314.6247
2304.0	7.369	314.6895
2306.0	7.396	314.6945
2308.0	7.410	314.6655
2310.0	7.414	314.8066
2312.0	7.427	314.7239
2314.0	7.398	314.7313
2316.0	7.375	314.8015
2318.0	7.377	314.6419
2320.0	7.368	314.4148
2322.0	7.384	314.1853
2324.0	7.397	313.9579
2326.0	7.427	313.5916
2328.0	7.482	313.5030
2330.0	7.529	313.4937
2332.0	7.569	313.2573
2334.0	7.623	313.1564
2336.0	7.666	313.1253
2338.0	7.688	312.9176
2340.0	7.733	312.8819
2342.0	7.769	312.9267
2344.0	7.750	312.7714
2346.0	7.746	312.7262
2348.0	7.752	312.7966
2350.0	7.757	312.7083
2352.0	7.742	312.6604
2354.0	7.740	312.7077
2356.0	7.741	312.5202
2358.0	7.747	312.2369
2360.0	7.749	312.1243
2362.0	7.786	311.7231
2364.0	7.780	311.5707
2366.0	7.777	311.5178
2368.0	7.785	311.4618
2370.0	7.800	311.4387
2372.0	7.815	311.4030
2374.0	7.798	311.3127
2376.0	7.796	311.1437
2378.0	7.781	311.1321
2380.0	7.752	310.9442
2382.0	7.755	310.7699
2384.0	7.768	310.8231
2386.0	7.782	310.9401
2388.0	7.813	311.0712
2390.0	7.840	311.2095
2392.0	7.840	311.3595
2394.0	7.883	311.5580
2396.0	7.904	311.7399
2398.0	7.933	311.9663



2400.0	7.936	312.0552
2402.0	7.976	311.9505
2404.0	8.019	311.9132
2406.0	8.018	311.8190
2408.0	8.044	311.7549
2410.0	8.019	311.7076
2412.0	7.982	311.6743
2414.0	7.947	311.6200
2416.0	7.927	311.6530
2418.0	7.917	311.7141
2420.0	7.904	311.9067
2422.0	7.896	312.0212
2424.0	7.884	312.2008
2426.0	7.853	312.2868
2428.0	7.840	312.3328
2430.0	7.852	312.2413
2432.0	7.860	312.2443
2434.0	7.873	312.3238
2436.0	7.872	312.3767
2438.0	7.850	312.3750
2440.0	7.832	312.4888
2442.0	7.829	312.6307
2444.0	7.819	312.7242
2446.0	7.825	312.9594
2448.0	7.819	313.2733
2450.0	7.829	313.6071
2452.0	7.848	313.8868
2454.0	7.847	314.0937
2456.0	7.870	314.4031
2458.0	7.899	314.5565
2460.0	7.929	314.7903
2462.0	7.948	315.1295
2464.0	7.946	315.2293
2466.0	7.994	315.2660
2468.0	8.018	315.3381
2470.0	8.029	315.4936
2472.0	8.039	315.6467
2474.0	8.050	315.9162
2476.0	8.065	316.3123
2478.0	8.101	316.5555
2480.0	8.118	316.7664
2482.0	8.166	317.1243
2484.0	8.193	317.3420
2486.0	8.240	317.6192
2488.0	8.260	317.8461
2490.0	8.283	318.0552
2492.0	8.310	318.2279
2494.0	8.334	318.4952
2496.0	8.372	318.7795
2498.0	8.389	318.8978
2500.0	8.397	318.9869
2502.0	8.411	319.1705
2504.0	8.431	319.2672
2506.0	8.449	319.3958
2508.0	8.478	319.6678
2510.0	8.494	319.7556
2512.0	8.509	319.8823
2514.0	8.534	319.8724
2516.0	8.558	319.9994
2518.0	8.582	320.0862
2520.0	8.598	320.1550

2522.0	8.637	320.3006
2524.0	8.668	320.3699
2526.0	8.691	320.3575
2528.0	8.734	320.2867
2530.0	8.744	320.2598
2532.0	8.739	320.3447
2534.0	8.752	320.4596
2536.0	8.778	320.6338
2538.0	8.843	320.8682
2540.0	8.892	320.7447
2542.0	8.964	320.8877
2544.0	9.016	320.8663
2546.0	9.059	320.8733
2548.0	9.133	321.0196
2550.0	9.160	320.9891
2552.0	9.235	321.0193
2554.0	9.266	320.9516
2556.0	9.344	320.9939
2558.0	9.433	321.0040
2560.0	9.465	321.0788
2562.0	9.501	321.0918
2564.0	9.541	321.1334
2566.0	9.560	321.1531
2568.0	9.573	321.1723
2570.0	9.591	321.2175
2572.0	9.618	321.2446
2574.0	9.637	321.2875
2576.0	9.655	321.3871
2578.0	9.698	321.4999
2580.0	9.721	321.6292
2582.0	9.732	321.7104
2584.0	9.752	321.7496
2586.0	9.772	321.7495
2588.0	9.774	321.7576
2590.0	9.778	321.7634
2592.0	9.800	321.8475
2594.0	9.817	321.8980
2596.0	9.830	321.9980
2598.0	9.826	321.8893
2600.0	9.860	321.8369
2602.0	9.913	321.8725
2604.0	9.964	321.8690
2606.0	10.036	321.8760
2608.0	10.068	321.8813
2610.0	10.135	321.8747
2612.0	10.180	321.8162
2614.0	10.216	321.7912
2616.0	10.281	321.7785
2618.0	10.333	321.6913
2620.0	10.377	321.6486
2622.0	10.400	321.5179
2624.0	10.407	321.4886
2626.0	10.410	321.4560
2628.0	10.424	321.4174
2630.0	10.459	321.4411
2632.0	10.480	321.4392
2634.0	10.508	321.4473
2636.0	10.493	321.3422
2638.0	10.487	321.3367
2640.0	10.477	321.3279
2642.0	10.489	321.3625
2644.0	10.500	321.4000

2644.0	10.509	321.4994
2646.0	10.509	321.4720
2648.0	10.541	321.6245
2650.0	10.519	321.6492
2652.0	10.516	321.5974
2654.0	10.513	321.5947
2656.0	10.503	321.6492
2658.0	10.507	321.5611
2660.0	10.483	321.4148
2662.0	10.451	321.4013
2664.0	10.440	321.4632
2666.0	10.420	321.4598
2668.0	10.401	321.5047
2670.0	10.374	321.5463
2672.0	10.352	321.4779
2674.0	10.336	321.3830
2676.0	10.306	321.4469
2678.0	10.287	321.4938
2680.0	10.287	321.4673
2682.0	10.266	321.4625
2684.0	10.257	321.4924
2686.0	10.262	321.3893
2688.0	10.250	321.3699
2690.0	10.234	321.2711
2692.0	10.249	321.2055
2694.0	10.244	321.1518
2696.0	10.205	320.9784
2698.0	10.138	320.7712
2700.0	10.040	320.5879
2702.0	9.967	320.5792
2704.0	9.881	320.4049
2706.0	9.806	320.3514
2708.0	9.733	320.3215
2710.0	9.652	320.2485
2712.0	9.597	320.1128
2714.0	9.548	320.1007
2716.0	9.511	320.0601
2718.0	9.488	319.9113
2720.0	9.446	319.7349
2722.0	9.415	319.6536
2724.0	9.395	319.6139
2726.0	9.358	319.3650
2728.0	9.324	319.2319
2730.0	9.299	319.1151
2732.0	9.257	318.9112
2734.0	9.227	318.8141
2736.0	9.196	318.7152
2738.0	9.172	318.5750
2740.0	9.167	318.4716
2742.0	9.139	318.4877
2744.0	9.106	318.6245
2746.0	9.088	318.9942
2748.0	9.042	319.2360
2750.0	9.016	319.4946
2752.0	9.001	319.7032
2754.0	8.994	320.1967
2756.0	8.957	320.6011
2758.0	8.939	320.9063
2760.0	8.899	320.9614
2762.0	8.904	321.0238
2764.0	8.890	320.8246
2766.0	8.874	320.4644

2766.0	8.874	320.4644
2768.0	8.872	320.2203
2770.0	8.846	320.0259
2772.0	8.850	319.6623
2774.0	8.836	319.3111
2776.0	8.812	319.1254
2778.0	8.784	318.8000
2780.0	8.773	318.6134
2782.0	8.741	318.5422
2784.0	8.737	318.4014
2786.0	8.740	318.1320
2788.0	8.771	317.8269
2790.0	8.824	317.6688
2792.0	8.894	317.4660
2794.0	8.941	317.3013
2796.0	8.973	317.1231
2798.0	9.024	317.0410
2800.0	9.067	316.8467
2802.0	9.135	316.7624
2804.0	9.196	316.8759
2806.0	9.227	316.8766
2808.0	9.275	316.9109
2810.0	9.277	316.7968
2812.0	9.273	316.4987
2814.0	9.286	316.1768
2816.0	9.318	315.9335
2818.0	9.352	315.7236
2820.0	9.413	315.6196
2822.0	9.482	315.5400
2824.0	9.543	315.5124
2826.0	9.606	315.4889
2828.0	9.691	315.3835
2830.0	9.776	315.3387
2832.0	9.841	315.2290
2834.0	9.888	315.0780
2836.0	9.921	314.8901
2838.0	9.974	315.0215
2840.0	9.983	315.0669
2842.0	10.002	315.1439
2844.0	10.016	315.3618
2846.0	10.031	315.4956
2848.0	10.052	315.4941
2850.0	10.113	315.6315
2852.0	10.168	315.8010
2854.0	10.209	315.9465
2856.0	10.272	316.1537
2858.0	10.305	316.2589
2860.0	10.351	316.3840
2862.0	10.385	316.4141
2864.0	10.438	316.4681
2866.0	10.468	316.4020
2868.0	10.509	316.3432
2870.0	10.513	316.1109
2872.0	10.503	315.8707
2874.0	10.511	315.7901
2876.0	10.532	315.7059
2878.0	10.549	315.6401
2880.0	10.591	315.5471
2882.0	10.622	315.4564
2884.0	10.655	315.3605
2886.0	10.686	315.3353
2888.0	10.712	315.2303

2888.0	10.712	315.3393
2890.0	10.739	315.3277
2892.0	10.782	315.3120
2894.0	10.813	315.2369
2896.0	10.858	315.1870
2898.0	10.897	315.1990
2900.0	10.913	315.2044
2902.0	10.916	315.2664
2904.0	10.906	315.4619
2906.0	10.893	315.6877
2908.0	10.889	315.8276
2910.0	10.876	315.9870
2912.0	10.873	316.0302
2914.0	10.852	316.0597
2916.0	10.834	316.0109
2918.0	10.832	316.1316
2920.0	10.789	316.1133
2922.0	10.794	316.0822
2924.0	10.791	316.1718
2926.0	10.776	316.2533
2928.0	10.761	316.3456
2930.0	10.736	316.3053
2932.0	10.694	316.2291
2934.0	10.675	316.1354
2936.0	10.669	315.8550
2938.0	10.657	315.5897
2940.0	10.658	315.3748
2942.0	10.644	315.0531
2944.0	10.638	314.8081
2946.0	10.599	314.5943
2948.0	10.611	314.4074
2950.0	10.602	314.2558
2952.0	10.607	314.1013
2954.0	10.628	313.8389
2956.0	10.634	313.6235
2958.0	10.659	313.2797
2960.0	10.642	312.8902
2962.0	10.650	312.5667
2964.0	10.660	312.2625
2966.0	10.677	311.9648
2968.0	10.714	311.7764
2970.0	10.772	311.6859
2972.0	10.805	311.5660
2974.0	10.877	311.4516
2976.0	10.925	311.3829
2978.0	10.935	311.2364
2980.0	11.012	311.1787
2982.0	11.083	311.1938
2984.0	11.135	311.1135
2986.0	11.181	311.0857
2988.0	11.192	310.8821
2990.0	11.193	310.7852
2992.0	11.184	310.6385
2994.0	11.167	310.6362
2996.0	11.190	310.6646
2998.0	11.211	310.6124
3000.0	11.216	310.5823
3002.0	11.256	310.5847
3004.0	11.284	310.4414
3006.0	11.306	310.4185
3008.0	11.336	310.4592
3010.0	11.364	310.4358

3010.0	11.384	310.4338
3012.0	11.368	310.3980
3014.0	11.385	310.4638
3016.0	11.383	310.5216
3018.0	11.399	310.5401
3020.0	11.387	310.4770
3022.0	11.363	310.5381
3024.0	11.342	310.5164
3026.0	11.315	310.4414
3028.0	11.307	310.4771
3030.0	11.305	310.4751
3032.0	11.300	310.4055
3034.0	11.295	310.3551
3036.0	11.289	310.2423
3038.0	11.280	310.1753
3040.0	11.272	310.0724
3042.0	11.272	310.0081
3044.0	11.280	309.9704
3046.0	11.274	309.9885
3048.0	11.268	309.8917
3050.0	11.264	309.8791
3052.0	11.248	309.7639
3054.0	11.245	309.6893
3056.0	11.233	309.6342
3058.0	11.247	309.5713
3060.0	11.271	309.6145
3062.0	11.292	309.6829
3064.0	11.312	309.6507
3066.0	11.341	309.6838
3068.0	11.354	309.6472
3070.0	11.418	309.7208
3072.0	11.455	309.7462
3074.0	11.492	309.7514
3076.0	11.534	309.8476
3078.0	11.567	309.9352
3080.0	11.567	309.9796
3082.0	11.549	309.9766
3084.0	11.555	309.9842
3086.0	11.555	309.8892
3088.0	11.533	309.7910
3090.0	11.566	309.9757
3092.0	11.606	310.1290
3094.0	11.643	310.2540
3096.0	11.673	310.4305
3098.0	11.723	310.4588
3100.0	11.744	310.4090
3102.0	11.778	310.3904
3104.0	11.803	310.4442
3106.0	11.834	310.3667
3108.0	11.867	310.3677
3110.0	11.891	310.3107
3112.0	11.894	310.2299
3114.0	11.918	310.3260
3116.0	11.906	310.5083
3118.0	11.904	310.7996
3120.0	11.890	310.9709
3122.0	11.888	311.1518
3124.0	11.918	311.4994
3126.0	11.965	311.7591
3128.0	11.989	311.9019
3130.0	12.005	312.0081
3132.0	12.018	312.0528

3132.0	12.033	311.9739
3134.0	12.040	312.0025
3136.0	11.999	312.0605
3138.0	11.973	312.0218
3140.0	11.940	312.0379
3142.0	11.899	312.0584
3144.0	11.919	312.2570
3146.0	11.895	312.2808
3150.0	11.881	312.3542
3152.0	11.870	312.4471
3154.0	11.859	312.4455
3156.0	11.865	312.4049
3158.0	11.868	312.4733
3160.0	11.856	312.5657
3162.0	11.857	312.6252
3164.0	11.833	312.6426
3166.0	11.814	312.6082
3168.0	11.798	312.5491
3170.0	11.797	312.4528
3172.0	11.806	312.3652
3174.0	11.775	312.3091
3176.0	11.785	312.3708
3178.0	11.758	312.3398
3180.0	11.760	312.4765
3182.0	11.746	312.4543
3184.0	11.752	312.4040
3186.0	11.779	312.5174
3188.0	11.794	312.4623
3190.0	11.790	312.4861
3192.0	11.781	312.5508
3194.0	11.761	312.5410
3196.0	11.761	312.5320
3198.0	11.763	312.5452
3200.0	11.747	312.6097
3202.0	11.772	312.7487
3204.0	11.709	312.7402
3206.0	11.694	312.8500
3208.0	11.666	312.8506
3210.0	11.651	312.8467
3212.0	11.658	312.9212
3214.0	11.654	313.0079
3216.0	11.664	313.1102
3218.0	11.689	313.2119
3220.0	11.708	313.2451
3222.0	11.711	313.2798
3224.0	11.701	313.2696
3226.0	11.730	313.2219
3228.0	11.730	313.0968
3230.0	11.757	313.0204
3232.0	11.746	312.8867
3234.0	11.749	312.8265
3236.0	11.729	312.8847
3238.0	11.705	312.9256
3240.0	11.695	312.9306
3242.0	11.669	312.8596
3244.0	11.686	312.8295
3246.0	11.725	312.8752
3248.0	11.769	312.8998
3250.0	11.806	312.7769
3252.0	11.833	312.7331
3254.0	11.851	312.7043

3256.0	11.902	312.6360
3258.0	11.925	312.4653
3260.0	11.963	312.1829
3262.0	12.027	312.0380
3264.0	12.064	311.8603
3266.0	12.061	311.7640
3268.0	12.030	311.7278
3270.0	12.010	311.6661
3272.0	11.995	311.6150
3274.0	11.984	311.5128
3276.0	12.008	311.4654
3278.0	12.004	311.3651
3280.0	12.041	311.2889
3282.0	12.056	311.2526
3284.0	12.078	311.1793
3286.0	12.086	311.0797
3288.0	12.147	311.1188
3290.0	12.182	311.2033
3292.0	12.181	311.1940
3294.0	12.207	311.4125
3296.0	12.176	311.5937
3298.0	12.168	311.7721
3300.0	12.156	312.0593
3302.0	12.152	312.1635
3304.0	12.156	312.2983
3306.0	12.131	312.1968
3308.0	12.158	312.2891
3310.0	12.174	312.3714
3312.0	12.193	312.3910
3314.0	12.197	312.5222
3316.0	12.220	312.7125
3318.0	12.240	312.9292
3320.0	12.229	313.0140
3322.0	12.237	313.1640
3324.0	12.184	313.0619
3326.0	12.171	313.1884
3328.0	12.114	313.2017
3330.0	12.122	313.4613
3332.0	12.090	313.6112
3334.0	12.057	313.6540
3336.0	12.049	313.8017
3338.0	12.005	313.8439
3340.0	12.023	314.0426
3342.0	11.985	314.1942
3344.0	11.940	314.3098
3346.0	11.918	314.5216
3348.0	11.857	314.6739
3350.0	11.806	314.7468
3352.0	11.727	314.8463
3354.0	11.702	314.9154
3356.0	11.663	315.0181
3358.0	11.639	315.1065
3360.0	11.619	315.2380
3362.0	11.574	315.2679
3364.0	11.586	315.3550
3366.0	11.583	315.4274
3368.0	11.559	315.2581
3370.0	11.573	315.2533
3372.0	11.542	315.2732
3374.0	11.522	315.2750
3376.0	11.474	315.3203



3378.0	11.398	315.3926
3380.0	11.323	315.4275
3382.0	11.268	315.5228
3384.0	11.223	315.5262
3386.0	11.218	315.4948
3388.0	11.219	315.3282
3390.0	11.212	315.2646
3392.0	11.200	315.3917
3394.0	11.175	315.5361
3396.0	11.191	315.7837
3398.0	11.174	315.9192
3400.0	11.187	315.9751
3402.0	11.201	316.0639
3404.0	11.194	316.1255
3406.0	11.232	316.2714
3408.0	11.204	316.2688
3410.0	11.211	316.3404
3412.0	11.185	316.1752
3414.0	11.227	316.0597
3416.0	11.234	315.8269
3418.0	11.236	315.7172
3420.0	11.210	315.5530
3422.0	11.179	315.5408
3424.0	11.164	315.7065
3426.0	11.158	315.7473
3428.0	11.143	315.7105
3430.0	11.161	315.7475
3432.0	11.186	315.7436
3434.0	11.187	315.6476
3436.0	11.290	315.7757
3438.0	11.312	315.7284
3440.0	11.324	315.6366
3442.0	11.353	315.5009
3444.0	11.340	315.3587
3446.0	11.399	315.3425
3448.0	11.405	315.1868
3450.0	11.372	314.9684
3452.0	11.345	314.8147
3454.0	11.309	314.6991
3456.0	11.301	314.5676
3458.0	11.306	314.4687
3460.0	11.322	314.3494
3462.0	11.324	314.2745
3464.0	11.337	314.1977
3466.0	11.389	314.3144
3468.0	11.402	314.2848
3470.0	11.423	314.3014
3472.0	11.451	314.2686
3474.0	11.481	314.3488
3476.0	11.499	314.2761
3478.0	11.502	314.2626
3480.0	11.475	314.2097
3482.0	11.441	314.2111
3484.0	11.412	314.1947
3486.0	11.379	314.2440
3488.0	11.365	314.2603
3490.0	11.381	314.3589
3492.0	11.383	314.3263
3494.0	11.394	314.3420
3496.0	11.411	314.2576
3498.0	11.432	314.2375

3500.0	11.442	314.2799
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3504.0	11.456	314.1393
3506.0	11.490	314.2073
3508.0	11.497	314.2000
3510.0	11.484	314.1674
3512.0	11.449	314.2226
3514.0	11.392	314.1816
3516.0	11.383	314.1544
3518.0	11.364	314.1587
3520.0	11.355	314.1484
3522.0	11.375	314.2344
3524.0	11.375	314.2888
3526.0	11.415	314.3713
3528.0	11.432	314.5034
3530.0	11.439	314.5226
3532.0	11.466	314.4482
3534.0	11.513	314.5290
3536.0	11.555	314.7263
3538.0	11.615	314.7680
3540.0	11.635	314.8208
3542.0	11.595	314.7836
3544.0	11.602	314.7857
3546.0	11.607	314.6515
3548.0	11.616	314.8213
3550.0	11.619	314.8117
3552.0	11.627	314.8357
3554.0	11.610	314.7300
3556.0	11.605	314.7578
3558.0	11.596	314.7495
3560.0	11.599	314.6785
3562.0	11.588	314.6658
3564.0	11.596	314.6600
3566.0	11.607	314.6481
3568.0	11.600	314.6000
3570.0	11.597	314.6551
3572.0	11.592	314.7055
3574.0	11.584	314.5793
3576.0	11.603	314.5871
3578.0	11.622	314.6382
3580.0	11.642	314.6473
3582.0	11.637	314.6471
3584.0	11.630	314.5926
3586.0	11.648	314.6082
3588.0	11.660	314.4745
3590.0	11.666	314.3862
3592.0	11.664	314.3994
3594.0	11.687	314.4147
3596.0	11.688	314.3540
3598.0	11.723	314.4025
3600.0	11.730	314.4466
3602.0	11.741	314.4179
3604.0	11.742	314.3779
3606.0	11.743	314.4443
3608.0	11.758	314.4548
3610.0	11.746	314.3946
3612.0	11.750	314.4504
3614.0	11.739	314.4424
3616.0	11.763	314.4354
3618.0	11.768	314.4500
3620.0	11.779	314.5307

3622.0	11.784	314.4787
3624.0	11.777	314.4394
3626.0	11.829	314.5381
3628.0	11.838	314.5807
3630.0	11.850	314.6020
3632.0	11.859	314.7043
3634.0	11.851	314.8609
3636.0	11.842	314.9444
3638.0	11.856	315.0570
3640.0	11.871	315.1570
3642.0	11.858	315.2414
3644.0	11.860	315.3761
3646.0	11.863	315.4544
3648.0	11.871	315.6226
3650.0	11.889	315.7731
3652.0	11.930	315.9179
3654.0	11.933	315.9402
3656.0	11.951	316.0922
3658.0	11.962	316.1490
3660.0	11.979	316.2068
3662.0	12.031	316.3656
3664.0	12.027	316.3868
3666.0	12.057	316.5063
3668.0	12.036	316.4561
3670.0	12.045	316.4944
3672.0	12.028	316.5713
3674.0	12.036	316.6068
3676.0	12.038	316.6928
3678.0	12.013	316.8922
3680.0	12.013	316.9340
3682.0	11.981	316.8252
3684.0	11.983	316.8111
3686.0	11.996	316.8142
3688.0	12.004	316.7000
3690.0	12.001	316.6402
3692.0	12.012	316.6747
3694.0	11.998	316.6430
3696.0	12.029	316.5850
3698.0	12.006	316.6160
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3702.0	12.012	316.6048
3704.0	12.005	316.4857
3706.0	12.006	316.5579
3708.0	12.000	316.5483
3710.0	12.047	316.5314
3712.0	12.006	316.5475
3714.0	11.997	316.6485
3716.0	11.981	316.6082
3718.0	11.981	316.5919
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3722.0	11.971	316.5920
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3726.0	11.997	316.4905
3728.0	12.025	316.6381
3730.0	12.021	316.5822
3732.0	12.030	316.5491
3734.0	12.023	316.5684
3736.0	12.023	316.5121
3738.0	12.008	316.4656
3740.0	12.014	316.4353
3742.0	12.004	316.5035
3744.0	11.986	316.4881

3744.0	11.988	316.4831
3746.0	11.970	316.4183
3748.0	11.958	316.4735
3750.0	11.991	316.5046
3752.0	11.989	316.5045
3754.0	12.025	316.4952
3756.0	12.020	316.5902
3758.0	12.011	316.6047
3760.0	12.007	316.6082
3762.0	11.982	316.5948
3764.0	11.995	316.6162
3766.0	12.008	316.5972
3768.0	12.027	316.6110
3770.0	12.012	316.6316
3772.0	11.992	316.6375
3774.0	11.984	316.6066
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3780.0	12.021	316.5967
3782.0	12.027	316.6018
3784.0	12.030	316.5652
3786.0	12.018	316.6110
3788.0	12.029	316.5964
3790.0	12.041	316.5912
3792.0	12.041	316.6213
3794.0	12.041	316.6508
3796.0	12.036	316.5938
3798.0	12.053	316.6357
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3804.0	12.072	316.6136
3806.0	12.067	316.5994
3808.0	12.079	316.6359
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3814.0	12.104	316.6327
3816.0	12.121	316.6104
3818.0	12.118	316.5347
3820.0	12.111	316.5062
3822.0	12.096	316.5042
3824.0	12.116	316.4796
3826.0	12.159	316.5258
3828.0	12.194	316.5623
3830.0	12.242	316.4987
3832.0	12.277	316.4789
3834.0	12.316	316.4601
3836.0	12.339	316.3882
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3840.0	12.430	316.1551
3842.0	12.468	316.0706
3844.0	12.500	315.9410
3846.0	12.512	315.8067
3848.0	12.517	315.7069
3850.0	12.501	315.6115
3852.0	12.514	315.5574
3854.0	12.553	315.3989
3856.0	12.582	315.3329
3858.0	12.614	315.3050
3860.0	12.606	315.1578
3862.0	12.620	315.1817
3864.0	12.630	315.2709
3866.0	12.621	315.2774

3866.0	12.621	315.2774
3868.0	12.616	315.2773
3870.0	12.568	315.3333
3872.0	12.538	315.3832
3874.0	12.503	315.4615
3876.0	12.488	315.5408
3878.0	12.500	315.7199
3880.0	12.482	315.7141
3882.0	12.479	315.7155
3884.0	12.468	315.7458
3886.0	12.453	315.7307
3888.0	12.435	315.6522
3890.0	12.438	315.6638
3892.0	12.409	315.6687
3894.0	12.399	315.6038
3896.0	12.401	315.6619
3898.0	12.341	315.6290
3900.0	12.319	315.7521
3902.0	12.264	315.7526
3904.0	12.248	315.8256
3906.0	12.243	315.8929
3908.0	12.240	315.9344
3910.0	12.247	315.9229
3912.0	12.131	315.7647
3914.0	12.181	315.9778
3916.0	12.125	315.9313
3918.0	12.113	316.0219
3920.0	12.128	316.1768
3922.0	12.021	316.0775
3924.0	12.152	316.3355
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3936.0	11.942	316.4760
3938.0	11.952	316.5026
3940.0	11.892	316.4430
3942.0	11.808	316.4130
3944.0	11.787	316.4718
3946.0	11.832	316.7007
3948.0	11.812	316.8436
3950.0	11.746	316.9144
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3954.0	11.767	317.3194
3956.0	11.706	317.3801
3958.0	11.621	317.3459
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3962.0	11.635	317.6596
3964.0	11.605	317.6879
3966.0	11.528	317.6417
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3974.0	11.455	317.8750
3976.0	11.415	317.8422
3978.0	11.423	317.8575
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3988.0	11.406	318.0500

3988.0	11.400	318.0309
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4022.0	11.234	317.6150
4024.0	11.261	317.6528
4026.0	11.246	317.5760
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4034.0	11.128	317.4992
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4056.0	10.992	318.4971
4058.0	10.937	318.2762
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4086.0	11.297	316.4573
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4134.0	11.906	313.3621
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4384.0	12.202	310.4046
4386.0	12.234	310.5478
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4392.0	12.192	310.7806
4394.0	12.160	310.6877
4396.0	12.146	310.6234
4398.0	12.157	310.5006
4400.0	12.088	310.5287
4402.0	12.057	310.6299
4404.0	12.032	310.7014
4406.0	12.018	310.8602
4408.0	12.037	310.9001
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4412.0	12.081	311.0313
4414.0	12.075	311.0293
4416.0	12.074	311.2091
4418.0	12.075	311.2148
4420.0	12.061	311.1312
4422.0	12.074	311.1232
4424.0	12.065	311.0201
4426.0	12.102	310.9895
4428.0	12.112	311.0509
4430.0	12.085	311.0970
4432.0	12.080	311.2301
4434.0	12.053	311.2516
4436.0	12.023	311.4276
4438.0	12.004	311.4500
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4444.0	11.973	311.6867
4446.0	11.925	311.7695
4448.0	11.924	311.8014
4450.0	11.907	311.8604
4452.0	11.900	311.8939
4454.0	11.923	311.9892
4456.0	11.890	311.9347
4458.0	11.883	311.9809
4460.0	11.866	312.1538
4462.0	11.825	312.2105
4464.0	11.825	312.2778
4466.0	11.784	312.4459
4468.0	11.756	312.4657
4470.0	11.764	312.5961
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4476.0	11.673	312.8678

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4482.0	11.630	312.8272
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4486.0	11.648	312.8447
4488.0	11.663	312.9390
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4492.0	11.628	313.0636
4494.0	11.607	312.9727
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4498.0	11.540	312.9283
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4536.0	11.210	312.5350
4538.0	11.176	312.4871
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4542.0	11.136	312.4702
4544.0	11.133	312.4528
4546.0	11.114	312.4234
4548.0	11.112	312.4404
4550.0	11.085	312.3709
4552.0	11.075	312.4050
4554.0	11.058	312.4327
4556.0	11.017	312.5356
4558.0	11.011	312.5693
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4572.0	10.881	312.5732
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5462.0	4.910	316.1329
5464.0	4.858	316.1526
5466.0	4.789	316.2631
5468.0	4.725	316.1251
5470.0	4.687	316.2600
5472.0	4.646	316.4398
5474.0	4.624	316.3554
5476.0	4.586	316.4822
5478.0	4.596	316.3666
5480.0	4.578	316.3028
5482.0	4.576	316.2159
5484.0	4.559	315.8997
5486.0	4.553	316.0760
5488.0	4.525	315.9414
5490.0	4.474	316.0835
5492.0	4.416	316.2072
5494.0	4.332	316.5016
5496.0	4.260	316.4069
5498.0	4.186	316.2905
5500.0	4.092	316.3097
5502.0	4.041	316.4191
5504.0	3.965	316.5215
5506.0	3.875	316.6143
5508.0	3.850	316.6157
5510.0	3.782	316.5770
5512.0	3.745	316.5800
5514.0	3.707	316.5824
5516.0	3.705	316.7402
5518.0	3.706	316.8685
5520.0	3.714	316.8837
5522.0	3.730	317.0834
5524.0	3.724	317.2343
5526.0	3.733	317.2213
5528.0	3.682	317.3359
5530.0	3.643	317.4209
5532.0	3.597	317.4201
5534.0	3.522	317.2462
5536.0	3.452	317.5151
5538.0	3.429	317.4677
5540.0	3.422	317.5627
5542.0	3.345	317.5610
5544.0	3.339	317.6225
5546.0	3.326	317.7179
5548.0	3.281	317.7629
5550.0	3.300	317.9083
5552.0	3.293	317.9368
5554.0	3.301	318.1305
5556.0	3.294	318.1374
5558.0	3.280	318.0843
5560.0	3.266	318.2001
5562.0	3.240	318.1559
5564.0	3.203	318.2020
5566.0	3.200	318.2468
5568.0	3.179	318.1255
5570.0	3.168	318.3835
5572.0	3.142	318.4359
5574.0	3.124	318.5481
5576.0	3.104	318.5032

5578.0	3.074	318.4608
5580.0	3.082	318.4700
5582.0	3.061	318.5493
5584.0	3.057	318.5309
5586.0	3.040	318.7458
5588.0	3.026	318.8922
5590.0	3.025	318.9449
5592.0	3.000	318.8942
5594.0	3.001	318.8677
5596.0	2.989	318.8262
5598.0	2.972	318.6327
5600.0	2.966	318.7229
5602.0	2.956	318.6757
5604.0	2.945	318.7169
5606.0	2.926	318.6365
5608.0	2.917	318.7006
5610.0	2.890	318.8106
5612.0	2.889	318.8910
5614.0	2.848	318.6649
5616.0	2.826	318.6113
5618.0	2.806	318.8802
5620.0	2.792	318.9047
5622.0	2.764	319.0135
5624.0	2.746	319.0962
5626.0	2.724	318.7609
5628.0	2.704	318.3840
5630.0	2.676	318.2893
5632.0	2.662	318.3897
5634.0	2.650	318.6404
5636.0	2.631	318.8141
5638.0	2.615	318.9243
5640.0	2.601	318.7532
5642.0	2.586	318.6434
5644.0	2.562	318.1285
5646.0	2.561	317.9239
5648.0	2.547	317.8791
5650.0	2.538	317.6443
5652.0	2.504	317.5416
5654.0	2.486	317.1893
5656.0	2.454	317.5483
5658.0	2.452	316.9957
5660.0	2.436	317.0462
5662.0	2.444	317.6393
5664.0	2.453	317.7383
5666.0	2.449	317.8951
5668.0	2.444	318.0444
5670.0	2.435	317.8274
5672.0	2.419	317.4672
5674.0	2.415	317.3095
5676.0	2.399	317.1445
5678.0	2.399	317.0458
5680.0	2.395	317.1554
5682.0	2.368	317.2764
5684.0	2.360	317.3704
5686.0	2.338	317.2646
5688.0	2.312	317.0198
5690.0	2.320	316.5822
5692.0	2.319	316.6332
5694.0	2.323	316.3897
5696.0	2.331	316.2066
5698.0	2.314	316.1243

5700.0	2.308	315.9099
5702.0	2.300	315.5587
5704.0	2.297	314.9699
5706.0	2.303	314.6468
5708.0	2.311	314.5693
5710.0	2.318	314.2932
5712.0	2.320	314.1676
5714.0	2.310	314.1928
5716.0	2.313	313.6766
5718.0	2.314	313.5216
5720.0	2.315	312.9456
5722.0	2.325	312.8038
5724.0	2.322	312.7495
5726.0	2.334	312.6421
5728.0	2.338	312.4405
5730.0	2.331	312.2320
5732.0	2.329	311.9251
5734.0	2.309	311.5650
5736.0	2.295	311.5547
5738.0	2.285	311.3657
5740.0	2.271	310.7447
5742.0	2.257	310.2857
5744.0	2.243	309.9471
5746.0	2.223	309.5090
5748.0	2.202	309.1228
5750.0	2.185	308.3996
5752.0	2.176	308.0779
5754.0	2.167	307.6876
5756.0	2.150	307.7769
5758.0	2.146	307.5746
5760.0	2.126	307.2186
5762.0	2.109	307.0585
5764.0	2.118	306.7290
5766.0	2.097	306.3392
5768.0	2.074	306.3375
5770.0	2.051	305.8115
5772.0	2.044	305.5341
5774.0	1.999	304.4601
5776.0	1.964	303.7777
5778.0	1.933	303.0602
5780.0	1.902	302.2457
5782.0	1.874	301.7947
5784.0	1.840	301.0597
5786.0	1.819	300.5271
5788.0	1.795	299.8661
5790.0	1.774	299.5226
5792.0	1.760	299.4193
5794.0	1.764	299.6509
5796.0	1.748	299.7124
5798.0	1.753	299.8475
5800.0	1.746	300.2821
5802.0	1.732	300.6492
5804.0	1.707	300.7384
5806.0	1.697	301.0539
5808.0	1.678	300.7857
5810.0	1.662	300.0340
5812.0	1.653	299.2564
5814.0	1.634	298.8570
5816.0	1.626	298.3611
5818.0	1.614	298.7200
5820.0	1.613	298.5948

5822.0	1.611	298.6077
5824.0	1.611	298.7693
5826.0	1.613	298.6286
5828.0	1.616	298.7377
5830.0	1.605	299.3398
5832.0	1.585	299.5236
5834.0	1.541	299.4842
5836.0	1.495	300.0953
5838.0	1.421	300.3745
5840.0	1.363	300.4166
5842.0	1.313	301.4358
5844.0	1.252	301.5811
5846.0	1.205	301.9424
5848.0	1.172	302.1759
5850.0	1.148	302.7172
5852.0	1.127	303.1438
5854.0	1.105	303.7348
5856.0	1.080	304.3956
5858.0	1.064	304.9397
5860.0	1.052	305.1579
5862.0	1.066	306.0109
5864.0	1.104	305.7652
5866.0	1.156	306.1662
5868.0	1.203	306.9645
5870.0	1.223	306.6933
5872.0	1.229	306.1612
5874.0	1.218	305.7316
5876.0	1.191	305.4896
5878.0	1.178	305.2190
5880.0	1.167	304.7391
5882.0	1.162	304.5788
5884.0	1.147	303.6201
5886.0	1.151	302.7182
5888.0	1.146	302.2578
5890.0	1.124	302.0880
5892.0	1.134	301.9608
5894.0	1.123	301.3543
5896.0	1.114	301.4286
5898.0	1.113	301.2573
5900.0	1.106	301.0855
5902.0	1.091	300.7561
5904.0	1.080	300.8308
5906.0	1.066	300.8513
5908.0	1.061	301.0208
5910.0	1.052	301.0596
5912.0	1.036	301.1992
5914.0	1.025	300.8793
5916.0	1.023	301.0087
5918.0	1.021	300.7334
5920.0	1.011	300.8281
5922.0	1.019	300.8655
5924.0	1.002	300.4248
5926.0	0.995	300.2104
5928.0	0.992	300.0524
5930.0	0.995	299.8673
5932.0	0.990	299.5465
5934.0	0.986	299.0889
5936.0	0.975	299.1659
5938.0	0.974	298.9454
5940.0	0.974	298.5786
5942.0	0.975	298.0835
5944.0	0.972	297.8842

5944.0	0.972	297.9642
5946.0	0.988	297.8768
5948.0	0.985	297.2770
5950.0	0.979	296.8590
5952.0	0.975	296.3786
5954.0	0.956	295.4540
5956.0	0.939	294.6398
5958.0	0.936	294.2932
5960.0	0.928	294.3257
5962.0	0.933	294.9713
5964.0	0.936	295.2258
5966.0	0.929	294.4920
5968.0	0.925	294.3569
5970.0	0.917	294.3426
5972.0	0.916	293.8468
5974.0	0.916	293.7600
5976.0	0.908	293.9608
5978.0	0.915	293.7127
5980.0	0.926	293.3474
5982.0	0.931	293.3583
5984.0	0.935	293.0839
5986.0	0.933	292.3930
5988.0	0.932	292.0655
5990.0	0.927	291.8486
5992.0	0.920	291.9887
5994.0	0.908	291.7978
5996.0	0.910	291.7259
5998.0	0.900	292.1612
6000.0	0.898	291.9922
6002.0	0.897	291.3215
6004.0	0.893	291.2969
6006.0	0.890	291.1846
6008.0	0.888	290.8180
6010.0	0.894	290.0153
6012.0	0.893	289.6014
6014.0	0.897	289.2569
6016.0	0.886	288.5760
6018.0	0.897	288.3706
6020.0	0.892	288.6889
6022.0	0.890	288.4979
6024.0	0.894	288.0823
6026.0	0.904	288.1309
6028.0	0.905	288.6458
6030.0	0.906	288.1805
6032.0	0.919	287.8156
6034.0	0.921	288.2335
6036.0	0.928	287.7537
6038.0	0.929	287.3269
6040.0	0.951	287.1030
6042.0	0.958	287.3145
6044.0	0.966	286.9522
6046.0	0.979	286.5448
6048.0	0.984	286.9403
6050.0	0.997	287.1371
6052.0	0.999	287.5218
6054.0	1.011	287.4072
6056.0	1.023	287.8735
6058.0	1.036	287.8552
6060.0	1.038	287.8192
6062.0	1.047	287.9115
6064.0	1.037	288.8720
6066.0	1.044	288.5474

6066.0	1.044	288.5474
6068.0	1.032	288.6344
6070.0	1.028	288.7365
6072.0	1.019	289.7560
6074.0	1.007	289.7080
6076.0	0.999	289.8781
6078.0	0.995	291.1898
6080.0	0.991	292.1528
6082.0	0.984	292.4789
6084.0	0.981	293.1446
6086.0	0.981	294.3614
6088.0	0.992	294.6158
6090.0	0.983	295.5659
6092.0	0.985	296.2865
6094.0	0.990	298.0757
6096.0	1.008	299.1566
6098.0	1.026	299.2782
6100.0	1.046	299.8611
6102.0	1.073	300.2327
6104.0	1.072	300.2073
6106.0	1.075	300.4463
6108.0	1.081	301.2371
6110.0	1.090	301.7323
6112.0	1.091	302.1034
6114.0	1.096	302.2525
6116.0	1.101	302.6702
6118.0	1.101	302.7360
6120.0	1.098	302.9856
6122.0	1.101	303.1758
6124.0	1.102	304.0564
6126.0	1.110	304.5102
6128.0	1.096	304.9202
6130.0	1.099	305.3745
6132.0	1.099	306.2292
6134.0	1.102	306.4508
6136.0	1.104	306.8588
6138.0	1.112	307.3950
6140.0	1.119	307.8578
6142.0	1.123	308.1160
6144.0	1.136	308.3333
6146.0	1.140	309.1080
6148.0	1.140	309.5237
6150.0	1.146	309.8188
6152.0	1.151	309.6820
6154.0	1.157	310.8494
6156.0	1.165	311.1123
6158.0	1.161	311.3973
6160.0	1.167	311.5143
6162.0	1.165	311.9090
6164.0	1.181	312.0363
6166.0	1.176	312.2694
6168.0	1.182	312.6793
6170.0	1.180	313.3083
6172.0	1.180	313.4597
6174.0	1.191	313.7123
6176.0	1.188	314.0112
6178.0	1.196	314.4033
6180.0	1.194	314.4054
6182.0	1.201	314.6111
6184.0	1.196	315.1030
6186.0	1.191	315.4245
6188.0	1.197	315.3257

6188.0	1.197	315.3257
6190.0	1.206	315.4447
6192.0	1.204	315.6978
6194.0	1.206	315.8781
6196.0	1.208	315.8831
6198.0	1.207	316.2831
6200.0	1.204	316.6651
6202.0	1.204	316.7554
6204.0	1.205	317.0846
6206.0	1.200	317.4083
6208.0	1.188	317.6158
6210.0	1.186	317.1303
6212.0	1.188	317.3410
6214.0	1.175	317.4478
6216.0	1.163	317.3524
6218.0	1.157	317.0409
6220.0	1.150	317.2579
6222.0	1.134	317.2719
6224.0	1.123	316.8755
6226.0	1.122	316.9447
6228.0	1.114	316.9178
6230.0	1.100	316.8492
6232.0	1.100	316.4526
6234.0	1.107	316.5797
6236.0	1.100	316.8476
6238.0	1.093	316.6880
6240.0	1.097	316.3079
6242.0	1.103	316.6239
6244.0	1.100	316.5951
6246.0	1.104	316.5948
6248.0	1.107	316.6523
6250.0	1.106	316.7062
6252.0	1.100	316.7356
6254.0	1.107	316.5135
6256.0	1.113	316.7224
6258.0	1.114	316.8499
6260.0	1.118	317.0319
6262.0	1.124	317.2597
6264.0	1.115	317.6318
6266.0	1.115	317.7948
6268.0	1.122	317.9680
6270.0	1.139	318.2540
6272.0	1.150	318.1369
6274.0	1.156	318.5371
6276.0	1.161	318.4106
6278.0	1.165	318.6840
6280.0	1.168	319.0506
6282.0	1.163	319.4940
6284.0	1.161	319.6592
6286.0	1.165	319.8002
6288.0	1.162	320.0927
6290.0	1.172	320.1634
6292.0	1.177	320.0040
6294.0	1.175	320.1325
6296.0	1.178	320.4587
6298.0	1.172	320.5953
6300.0	1.174	320.9652
6302.0	1.170	321.4182
6304.0	1.166	321.6158
6306.0	1.158	321.5132
6308.0	1.155	321.6208
6310.0	1.162	321.8714



6310.0	1.102	321.8714
6312.0	1.161	321.6970
6314.0	1.158	321.4407
6316.0	1.176	322.3141
6318.0	1.170	322.2952
6320.0	1.167	322.0642
6322.0	1.168	322.0370
6324.0	1.178	322.5272
6326.0	1.181	322.7534
6328.0	1.191	322.7439
6330.0	1.216	323.8515
6332.0	1.218	324.6581
6334.0	1.216	324.5048
6336.0	1.216	324.4405
6338.0	1.218	324.6354
6340.0	1.214	324.5444
6342.0	1.220	324.5226
6344.0	1.222	324.5172
6346.0	1.225	324.6672
6348.0	1.217	324.5891
6350.0	1.220	324.3517
6352.0	1.216	324.4183
6354.0	1.219	324.1752
6356.0	1.214	323.9182
6358.0	1.215	323.7038
6360.0	1.212	323.6180
6362.0	1.207	323.4592
6364.0	1.200	322.9539
6366.0	1.194	322.6197
6368.0	1.193	322.5175
6370.0	1.183	321.9840
6372.0	1.171	321.8167
6374.0	1.167	321.6465
6376.0	1.153	321.3192
6378.0	1.137	320.9203
6380.0	1.129	320.9111
6382.0	1.125	321.0940
6384.0	1.114	321.0410
6386.0	1.097	321.2756
6388.0	1.091	321.4505
6390.0	1.084	321.5936
6392.0	1.070	322.0261
6394.0	1.058	322.7155
6396.0	1.049	323.4040
6398.0	1.035	324.0935
6400.0	1.019	325.2571
6402.0	1.006	326.1003
6404.0	0.998	327.2189
6406.0	0.981	329.6983
6408.0	0.962	332.7903
6410.0	0.954	336.7477
6412.0	0.983	341.1130
6414.0	1.012	345.2084
6416.0	1.067	346.6855
6418.0	1.145	347.0616
6420.0	1.206	346.5686
6422.0	1.251	344.6916
6424.0	1.310	343.3907
6426.0	1.345	342.0869
6428.0	1.364	340.7374
6430.0	1.380	339.5747
6432.0	1.405	338.7679

6432.0	1.427	337.4751
6434.0	1.427	336.3196
6436.0	1.432	334.9994
6438.0	1.449	334.0133
6440.0	1.449	333.2650
6442.0	1.447	332.1307
6444.0	1.455	331.2062
6446.0	1.457	330.2611
6448.0	1.451	329.2129
6450.0	1.446	328.2296
6452.0	1.455	327.3206
6454.0	1.457	326.5131
6456.0	1.456	325.6426
6458.0	1.467	324.7625
6460.0	1.470	323.5560
6462.0	1.465	322.6043
6464.0	1.461	321.4274
6466.0	1.464	320.3225
6468.0	1.462	319.8918
6470.0	1.455	319.1570
6472.0	1.456	318.3560
6474.0	1.460	318.1160
6476.0	1.466	317.6716
6478.0	1.467	317.2039
6480.0	1.465	316.9355
6482.0	1.457	316.4421
6484.0	1.425	315.5621
6486.0	1.392	315.0178
6488.0	1.362	314.5240
6490.0	1.336	314.0314
6492.0	1.313	313.6240
6494.0	1.284	313.6090
6496.0	1.254	312.5382
6498.0	1.220	311.7072
6500.0	1.179	311.1141
6502.0	1.133	309.5213
6504.0	1.103	308.1953
6506.0	1.072	307.2118
6508.0	1.040	306.3129
6510.0	1.017	305.3926
6512.0	0.989	305.4860
6514.0	0.962	305.6330
6516.0	0.946	305.7167
6518.0	0.940	305.9298
6520.0	0.924	306.0141
6522.0	0.899	306.0491
6524.0	0.877	306.1248
6526.0	0.855	306.4995
6528.0	0.822	307.0003
6530.0	0.793	308.5634
6532.0	0.764	310.1592
6534.0	0.732	312.7688
6536.0	0.707	316.3212
6538.0	0.689	320.1153
6540.0	0.700	324.0375
6542.0	0.728	328.1281
6544.0	0.765	330.9576
6546.0	0.814	331.3064
6548.0	0.867	330.9063
6550.0	0.902	329.2444
6552.0	0.927	327.5846

6556.0	0.957	326.0009
6558.0	0.976	324.6630
6560.0	0.992	323.6482
6562.0	1.009	322.5981
6564.0	1.038	321.3892
6566.0	1.058	320.4841
6568.0	1.074	319.7311
6570.0	1.099	318.8282
6572.0	1.110	317.6378
6574.0	1.123	316.6525
6576.0	1.129	315.6346
6578.0	1.131	314.3073
6580.0	1.136	313.2593
6582.0	1.136	312.5126
6584.0	1.128	311.5146
6586.0	1.127	310.2464
6588.0	1.127	309.1291
6590.0	1.123	308.6313
6592.0	1.114	307.3543
6594.0	1.113	306.4339
6596.0	1.104	305.8408
6598.0	1.088	305.2064
6600.0	1.075	303.8625
6602.0	1.065	303.0545
6604.0	1.043	302.7322
6606.0	1.016	301.5560
6608.0	1.002	300.5754
6610.0	0.979	300.2868
6612.0	0.951	299.6620
6614.0	0.923	298.3835
6616.0	0.906	297.6844
6618.0	0.881	297.2067
6620.0	0.853	295.7448
6622.0	0.836	294.0875
6624.0	0.820	293.0801
6626.0	0.795	291.7365
6628.0	0.772	289.8281
6630.0	0.764	288.6161
6632.0	0.739	287.5801
6634.0	0.717	285.7971
6636.0	0.710	284.0471
6638.0	0.703	282.9345
6640.0	0.683	282.1748
6642.0	0.672	280.6591
6644.0	0.667	279.7311
6646.0	0.657	279.4871
6648.0	0.635	278.3907
6650.0	0.626	277.1629
6652.0	0.615	276.8536
6654.0	0.587	277.2753
6656.0	0.566	276.9753
6658.0	0.547	277.7173
6660.0	0.518	280.6880
6662.0	0.482	282.7066
6664.0	0.459	285.4177
6666.0	0.438	289.2978
6668.0	0.415	294.7434
6670.0	0.399	300.0384
6672.0	0.399	306.1898
6674.0	0.416	315.2368
6676.0	0.443	321.5754

6678.0	0.481	325.8865
6680.0	0.537	329.3849
6682.0	0.599	330.6267
6684.0	0.647	330.0118
6686.0	0.702	328.4367
6688.0	0.755	325.6259
6690.0	0.794	322.2700
6692.0	0.829	319.1478
6694.0	0.861	314.8828
6696.0	0.885	310.8615
6698.0	0.888	307.3156
6700.0	0.889	302.9948
6702.0	0.892	299.6647
6704.0	0.877	296.9470
6706.0	0.866	294.0959
6708.0	0.860	292.2328
6710.0	0.856	291.7440
6712.0	0.851	290.6969
6714.0	0.852	289.9714
6716.0	0.860	289.6522
6718.0	0.864	289.1096
6720.0	0.864	287.6166
6722.0	0.872	286.0053
6724.0	0.878	285.1394
6726.0	0.880	283.9927
6728.0	0.875	282.5461
6730.0	0.882	281.9064
6732.0	0.876	281.9187
6734.0	0.875	281.5093
6736.0	0.865	281.6701
6738.0	0.859	282.3186
6740.0	0.852	283.8069
6742.0	0.853	284.1915
6744.0	0.845	284.7558
6746.0	0.847	285.6185
6748.0	0.836	286.8372
6750.0	0.824	287.2850
6752.0	0.810	287.8302
6754.0	0.798	289.2492
6756.0	0.785	290.1053
6758.0	0.768	289.8000
6760.0	0.759	290.4495
6762.0	0.744	290.9614
6764.0	0.723	291.4559
6766.0	0.698	291.9997
6768.0	0.672	293.8153
6770.0	0.646	296.3532
6772.0	0.617	297.7732
6774.0	0.587	300.2132
6776.0	0.566	304.0715
6778.0	0.543	308.1968
6780.0	0.522	312.0154
6782.0	0.524	317.3126
6784.0	0.528	323.1792
6786.0	0.525	328.2168
6788.0	0.550	332.8131
6790.0	0.582	337.7968
6792.0	0.615	341.0063
6794.0	0.662	342.9100
6796.0	0.723	344.1508
6798.0	0.771	344.6477

6800.0	0.810	344.5186
6802.0	0.853	344.0296
6804.0	0.898	343.3648
6806.0	0.928	342.6221
6808.0	0.956	341.7544
6810.0	0.991	340.8869
6812.0	1.017	340.0530
6814.0	1.033	339.4934
6816.0	1.063	338.6825
6818.0	1.087	337.7093
6820.0	1.104	337.2314
6822.0	1.122	336.6304
6824.0	1.145	335.7371
6826.0	1.167	334.8489
6828.0	1.189	334.0912
6830.0	1.213	333.0007
6832.0	1.232	331.6444
6834.0	1.248	330.7539
6836.0	1.257	330.1954
6838.0	1.266	329.2612
6840.0	1.273	328.5561
6842.0	1.283	328.3362
6844.0	1.290	327.7880
6846.0	1.295	327.1631
6848.0	1.308	326.8305
6850.0	1.306	326.7221
6852.0	1.312	326.1152
6854.0	1.313	325.5782
6856.0	1.321	325.2857
6858.0	1.325	325.0799
6860.0	1.329	324.4839
6862.0	1.337	324.1578
6864.0	1.342	323.9474
6866.0	1.342	323.4662
6868.0	1.342	323.1343
6870.0	1.352	322.9591
6872.0	1.356	322.9083
6874.0	1.361	322.4893
6876.0	1.369	321.8420
6878.0	1.382	321.4288
6880.0	1.389	320.8741
6882.0	1.395	319.9573
6884.0	1.406	319.3160
6886.0	1.422	318.7961
6888.0	1.428	318.1592
6890.0	1.431	317.4975
6892.0	1.445	317.0871
6894.0	1.447	316.6139
6896.0	1.447	315.9861
6898.0	1.447	315.5308
6900.0	1.456	315.3057
6902.0	1.455	315.0235
6904.0	1.448	314.6969
6906.0	1.449	314.5698
6908.0	1.454	314.5515
6910.0	1.450	314.2183
6912.0	1.448	313.8664
6914.0	1.451	313.6199
6916.0	1.453	313.6019
6918.0	1.446	313.4416
6920.0	1.439	313.4958

6922.0	1.437	313.6270
6924.0	1.432	313.6453
6926.0	1.417	313.7298
6928.0	1.409	314.0565
6930.0	1.408	314.5756
6932.0	1.396	314.9836
6934.0	1.396	315.2123
6936.0	1.403	315.3192
6938.0	1.410	315.3438
6940.0	1.405	315.2522
6942.0	1.404	315.0495
6944.0	1.413	314.9878
6946.0	1.410	315.0285
6948.0	1.405	314.8557
6950.0	1.408	314.7785
6952.0	1.411	314.8863
6954.0	1.410	314.9759
6956.0	1.409	314.9604
6958.0	1.419	315.0373
6960.0	1.427	315.1543
6962.0	1.427	315.2774
6964.0	1.429	315.4493
6966.0	1.439	315.6186
6968.0	1.449	315.7228
6970.0	1.444	315.9704
6972.0	1.451	316.0430
6974.0	1.461	316.2492
6976.0	1.461	316.5967
6978.0	1.460	316.8002
6980.0	1.469	316.8633
6982.0	1.473	316.9923
6984.0	1.472	317.2213
6986.0	1.475	317.3403
6988.0	1.482	317.1873
6990.0	1.482	317.2564
6992.0	1.482	317.4868
6994.0	1.489	317.4753
6996.0	1.495	317.4098
6998.0	1.494	317.4556
7000.0	1.492	317.6351
7002.0	1.494	317.2908
7004.0	1.496	317.2486
7006.0	1.496	317.2453
7008.0	1.495	316.8302
7010.0	1.496	316.0714
7012.0	1.495	316.0301
7014.0	1.492	315.6908
7016.0	1.488	315.1374
7018.0	1.490	314.9703
7020.0	1.482	314.5763
7022.0	1.478	314.3958
7024.0	1.478	314.0562
7026.0	1.474	313.9954
7028.0	1.468	313.8378
7030.0	1.466	313.6057
7032.0	1.462	313.2203
7034.0	1.456	312.9573
7036.0	1.452	312.8489
7038.0	1.447	312.5623
7040.0	1.446	312.3657
7042.0	1.443	312.1613
7044.0	1.437	312.1878

7044.0	1.437	312.1978
7046.0	1.429	311.7820
7048.0	1.426	311.4671
7050.0	1.418	311.2438
7052.0	1.413	311.1280
7054.0	1.414	310.9135
7056.0	1.410	311.0199
7058.0	1.406	311.2119
7060.0	1.399	311.0417
7062.0	1.402	310.5281
7064.0	1.403	310.1333
7066.0	1.404	309.7053
7068.0	1.411	309.0231
7070.0	1.421	308.6389
7072.0	1.427	308.4522
7074.0	1.431	308.4217
7076.0	1.436	308.1683
7078.0	1.441	307.9676
7080.0	1.437	308.0145
7082.0	1.438	307.7495
7084.0	1.441	307.4971
7086.0	1.456	307.3311
7088.0	1.444	307.3734
7090.0	1.453	307.0330
7092.0	1.460	307.2028
7094.0	1.453	307.3846
7096.0	1.467	307.5411
7098.0	1.472	307.6260
7100.0	1.478	307.5497
7102.0	1.480	307.6860
7104.0	1.489	307.7402
7106.0	1.497	307.5736
7108.0	1.500	307.6688
7110.0	1.503	307.6519
7112.0	1.504	307.4978
7114.0	1.510	307.4763
7116.0	1.514	307.2204
7118.0	1.508	307.4532
7120.0	1.512	307.2906
7122.0	1.514	307.2708
7124.0	1.511	307.4585
7126.0	1.513	307.4817
7128.0	1.513	307.4313
7130.0	1.515	307.3441
7132.0	1.510	307.4901
7134.0	1.504	307.6735
7136.0	1.506	307.5928
7138.0	1.499	307.2825
7140.0	1.492	307.2966
7142.0	1.485	307.0438
7144.0	1.485	306.9173
7146.0	1.481	306.8363
7148.0	1.475	306.9176
7150.0	1.471	306.9070
7152.0	1.467	306.7197
7154.0	1.464	306.8133
7156.0	1.458	306.9784
7158.0	1.456	306.7101
7160.0	1.451	306.5982
7162.0	1.448	306.5411
7164.0	1.441	306.3604
7166.0	1.439	306.1550

7166.0	1.439	306.1550
7168.0	1.434	306.0605
7170.0	1.425	306.2397
7172.0	1.414	306.0557
7174.0	1.409	305.7553
7176.0	1.400	305.4949
7178.0	1.392	305.3467
7180.0	1.388	304.9652
7182.0	1.390	304.9437
7184.0	1.390	304.6512
7186.0	1.387	304.5351
7188.0	1.388	304.2589
7190.0	1.386	303.9649
7192.0	1.380	303.7957
7194.0	1.376	303.6653
7196.0	1.375	303.1691
7198.0	1.381	302.7712
7200.0	1.380	302.4984
7202.0	1.373	302.0316
7204.0	1.377	301.5193
7206.0	1.370	301.0920
7208.0	1.360	300.7299
7210.0	1.356	300.3352
7212.0	1.356	299.8876
7214.0	1.353	299.5597
7216.0	1.345	299.3875
7218.0	1.348	299.0427
7220.0	1.353	298.7124
7222.0	1.353	298.5757
7224.0	1.357	298.3260
7226.0	1.355	298.0965
7228.0	1.355	298.0393
7230.0	1.355	298.0399
7232.0	1.359	297.8932
7234.0	1.367	297.4297
7236.0	1.374	297.0963
7238.0	1.375	296.7397
7240.0	1.367	296.5435
7242.0	1.378	296.4252
7244.0	1.375	296.4782
7246.0	1.371	296.8307
7248.0	1.377	296.8012
7250.0	1.381	296.9068
7252.0	1.380	297.1978
7254.0	1.383	297.7292
7256.0	1.385	297.3708
7258.0	1.382	297.6645
7260.0	1.377	298.0218
7262.0	1.373	297.8850
7264.0	1.375	297.5485
7266.0	1.369	297.3048
7268.0	1.361	297.1894
7270.0	1.360	296.8553
7272.0	1.355	296.6315
7274.0	1.345	296.3686
7276.0	1.336	296.3551
7278.0	1.328	295.9370
7280.0	1.323	295.9167
7282.0	1.316	296.2563
7284.0	1.310	296.2523
7286.0	1.307	296.0814
7288.0	1.307	296.0502



7288.0	1.307	296.0393
7290.0	1.307	296.4244
7292.0	1.313	296.7455
7294.0	1.320	296.9776
7296.0	1.319	297.1981
7298.0	1.320	297.9603
7300.0	1.315	297.9895
7302.0	1.312	298.0447
7304.0	1.311	298.8305
7306.0	1.307	299.1745
7308.0	1.308	298.9276
7310.0	1.305	299.0735
7312.0	1.302	299.4554
7314.0	1.303	299.6747
7316.0	1.304	299.7968
7318.0	1.301	300.0011
7320.0	1.297	300.1363
7322.0	1.285	299.7652
7324.0	1.286	299.8818
7326.0	1.279	299.6990
7328.0	1.279	299.2694
7330.0	1.274	298.4266
7332.0	1.264	297.8816
7334.0	1.263	297.2972
7336.0	1.248	296.3737
7338.0	1.255	296.4867
7340.0	1.249	296.1709
7342.0	1.239	296.3043
7344.0	1.233	296.4242
7346.0	1.226	296.2532
7348.0	1.209	295.8079
7350.0	1.201	294.9927
7352.0	1.192	293.7180
7354.0	1.183	293.0274
7356.0	1.178	292.3691
7358.0	1.163	291.8217
7360.0	1.155	291.1786
7362.0	1.151	290.5615
7364.0	1.151	289.5384
7366.0	1.168	288.7285
7368.0	1.182	288.2645
7370.0	1.191	287.6140
7372.0	1.199	287.4169
7374.0	1.191	287.2312
7376.0	1.193	287.1743
7378.0	1.190	286.5358
7380.0	1.194	286.6744
7382.0	1.193	285.7238
7384.0	1.198	285.7892
7386.0	1.194	285.8635
7388.0	1.191	285.8260
7390.0	1.186	286.0524
7392.0	1.175	285.3880
7394.0	1.174	284.9779
7396.0	1.178	284.9909
7398.0	1.187	284.2162
7400.0	1.181	283.5996
7402.0	1.187	283.7439
7404.0	1.187	283.6865
7406.0	1.187	283.5276
7408.0	1.182	283.2859
7410.0	1.181	282.5929

7410.0	1.181	282.5529
7412.0	1.181	281.8814
7414.0	1.184	281.0400
7416.0	1.184	280.9846
7418.0	1.177	280.8286
7420.0	1.170	280.7378
7422.0	1.163	280.5386
7424.0	1.150	280.2666
7426.0	1.146	280.1130
7428.0	1.142	279.6970
7430.0	1.140	279.7786
7432.0	1.134	279.7410
7434.0	1.127	279.5657
7436.0	1.121	278.9664
7438.0	1.115	278.4464
7440.0	1.111	277.1698
7442.0	1.116	275.6183
7444.0	1.113	274.0538
7446.0	1.108	272.9001
7448.0	1.093	271.4064
7450.0	1.076	270.0269
7452.0	1.062	269.2841
7454.0	1.047	268.2318
7456.0	1.033	267.7721
7458.0	1.020	267.2689
7460.0	1.016	266.9614
7462.0	1.012	266.2625
7464.0	1.016	266.3812
7466.0	1.022	266.2432
7468.0	1.041	266.4420
7470.0	1.057	266.4634
7472.0	1.071	266.1611
7474.0	1.084	264.9867
7476.0	1.100	263.9230
7478.0	1.109	263.4766
7480.0	1.124	262.6938
7482.0	1.148	262.3837
7484.0	1.166	261.9687
7486.0	1.177	261.5412
7488.0	1.191	261.5889
7490.0	1.192	261.3352
7492.0	1.194	260.9618
7494.0	1.192	260.6335
7496.0	1.191	259.6548
7498.0	1.192	258.9999
7500.0	1.191	258.2776
7502.0	1.192	257.5198
7504.0	1.190	256.5536
7506.0	1.183	256.1122
7508.0	1.180	255.4734
7510.0	1.181	255.3513
7512.0	1.186	254.7895
7514.0	1.188	254.5308
7516.0	1.188	254.1312
7518.0	1.186	253.8668
7520.0	1.179	253.4526
7522.0	1.177	253.2267
7524.0	1.166	253.0821
7526.0	1.166	252.7805
7528.0	1.172	252.1767
7530.0	1.170	251.7691
7532.0	1.175	251.2011

7532.0	1.177	251.2077
7534.0	1.185	251.3644
7536.0	1.198	251.1405
7538.0	1.205	251.0296
7540.0	1.217	250.7943
7542.0	1.223	250.4561
7544.0	1.231	250.2360
7546.0	1.221	250.3777
7548.0	1.220	250.4364
7550.0	1.218	250.2409
7552.0	1.205	249.9312
7554.0	1.200	249.8231
7556.0	1.204	249.5814
7558.0	1.207	249.4424
7560.0	1.199	249.5077
7562.0	1.200	249.2464
7564.0	1.197	249.0097
7566.0	1.190	248.7364
7568.0	1.182	248.8005
7570.0	1.183	248.8603
7572.0	1.182	248.5906
7574.0	1.180	248.6095
7576.0	1.172	248.5176
7578.0	1.176	248.1257
7580.0	1.174	247.9080
7582.0	1.164	248.0562
7584.0	1.159	248.1180
7586.0	1.160	247.8451
7588.0	1.155	247.9460
7590.0	1.146	247.9418
7592.0	1.146	247.8974
7594.0	1.140	247.5901
7596.0	1.128	247.5975
7598.0	1.113	247.5172
7600.0	1.103	247.2581
7602.0	1.090	247.2108
7604.0	1.080	247.3670
7606.0	1.076	247.1829
7608.0	1.079	246.8316
7610.0	1.070	246.6803
7612.0	1.067	246.5997
7614.0	1.061	246.3819
7616.0	1.056	246.2130
7618.0	1.050	246.2218
7620.0	1.041	246.4501
7622.0	1.036	246.3764
7624.0	1.031	246.4439
7626.0	1.026	246.6987
7628.0	1.017	247.0293
7630.0	1.018	247.0105
7632.0	1.013	247.2750
7634.0	1.011	247.5283
7636.0	0.998	247.9604
7638.0	0.991	247.7999
7640.0	0.978	248.2154
7642.0	0.964	248.7731
7644.0	0.955	249.1014
7646.0	0.943	249.2115
7648.0	0.931	250.1618
7650.0	0.916	251.1530
7652.0	0.904	251.7825
7654.0	0.893	252.6977

7656.0	0.883	253.2072
7658.0	0.873	254.5087
7660.0	0.859	255.3750
7662.0	0.842	256.3481
7664.0	0.832	258.2518
7666.0	0.828	260.4359
7668.0	0.824	261.7627
7670.0	0.821	263.7397
7672.0	0.817	265.9949
7674.0	0.850	267.0159
7676.0	0.903	264.5742
7678.0	0.939	261.2992
7680.0	0.970	257.8918
7682.0	0.977	254.3309
7684.0	0.943	252.2221
7686.0	0.929	252.5631
7688.0	0.929	252.5631
7690.0	0.929	252.5631
7692.0	0.929	252.5631
7694.0	0.929	252.5631
7696.0	0.929	252.5631
7698.0	0.929	252.5631
7700.0	0.929	252.5631
7702.0	0.929	252.5631
7704.0	0.929	252.5631
7706.0	0.929	252.5631
7708.0	0.929	252.5631
7710.0	0.929	252.5631
7712.0	0.929	252.5631
7714.0	0.929	252.5631
7716.0	0.929	252.5631
7718.0	0.929	252.5631
7720.0	0.929	252.5631
7722.0	0.929	252.5631
7724.0	0.929	252.5631
7726.0	0.929	252.5631

Company: **Orr Energy LLC**

**Schlumberger**

Well: **South 6-22D**

Field: **Wattenburg**

County: **Weld**

State: **Colorado**

Platform Express  
Directional Survey