

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

As Drilled

*API Number X 30-045-34213	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN, DAKOTA
*Property Code 17033	*Property Name ROSA UNIT COM	*Well Number 60C
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6451'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	4	31N	6W		255	SOUTH	1870	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

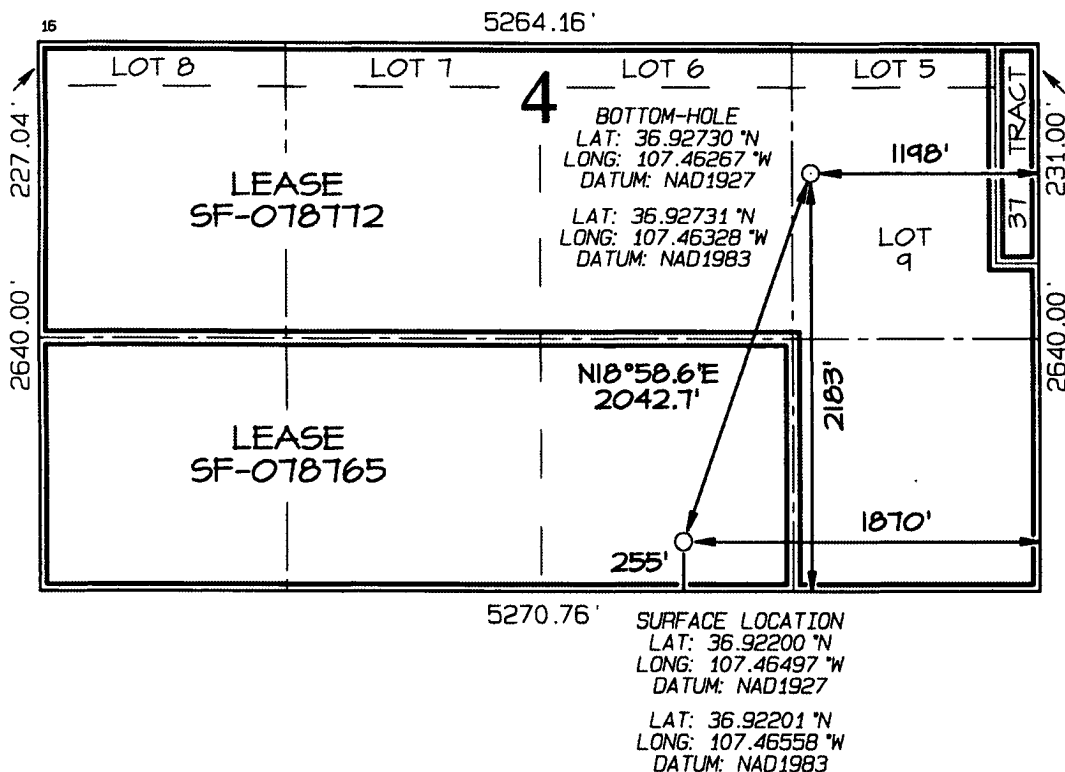
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	4	31N	6W		2183	SOUTH	1198	EAST	SAN JUAN

¹² Dedicated Acres ~ SEE NOTE BELOW ~	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No RCVD JUL 19 '11 OIL CONS. DIV.
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346.29 Acres (MV) - Entire Section
343.23 Acres (DK) - Entire Section except Tract 37

DIST. 3

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

x Ben Mitchell 7/18/2011
Signature Date
Ben Mitchell
Printed Name

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JULY 13, 2011
Date of Survey: MAY 2, 2006

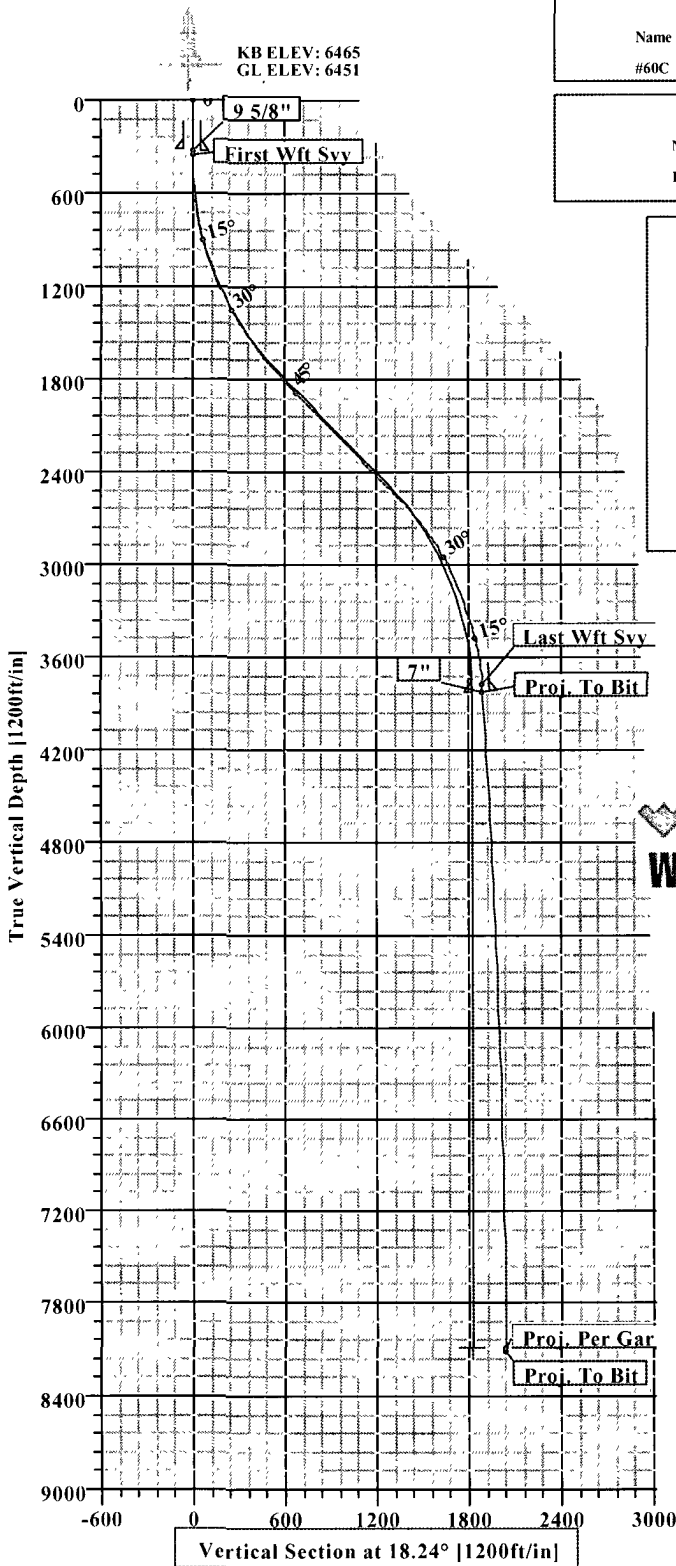
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Rosa Unit Com #60C
SAN JUAN CO. NM



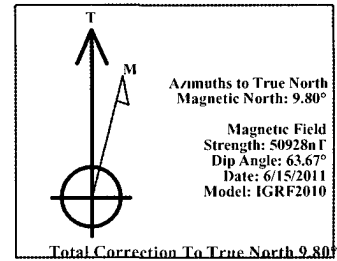
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	18.24	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	18.24	400.00	0.00	0.00	0.00	0.00	0.00	
3	1884.15	44.52	18.24	1739.22	520.67	171.61	3.00	18.24	548.23	
4	2917.21	44.52	18.24	2475.74	1208.66	398.36	0.00	0.00	1272.62	
5	4401.36	0.00	18.24	3814.96	1729.34	569.97	3.00	180.00	1820.84	
6	8672.40	0.00	18.24	8086.00	1729.34	569.97	0.00	0.00	1820.84	Pbhl

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#60C	0.00	0.00	2155150.88	2830594.07	36°55'19.236N	107°27'56.088W	N/A

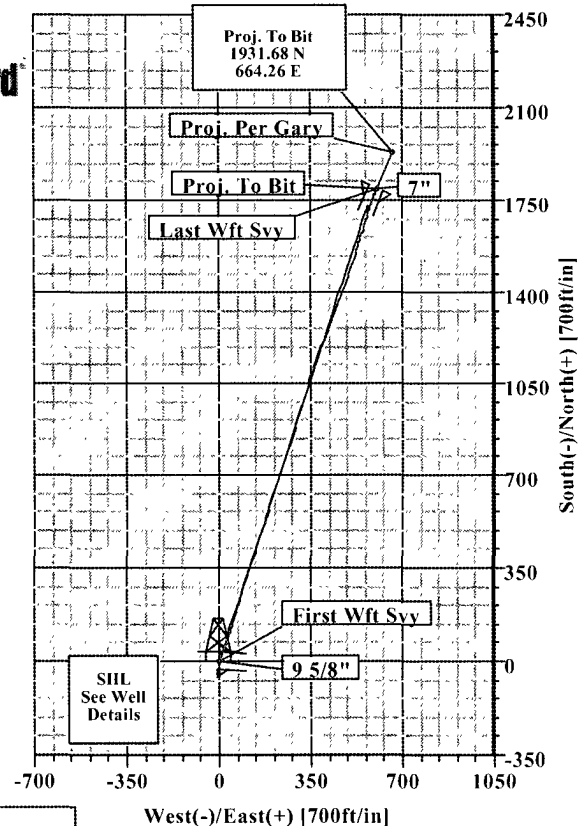
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Pbhl	8086.00	1729.34	569.97	36°55'36.336N	107°27'49.068W	Point

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	1124.00	1142.57	Nacimiento Fm.
2	2420.00	2839.03	Ojo Alamo SS.
3	2535.00	2998.65	Kirtland Sh.
4	2960.00	3514.91	Frutland Fm.
5	3240.00	3817.34	Pictured Cliffs SS.
6	3545.00	4130.49	Lewis Sh.
7	5130.00	5716.40	Chff House SS. Trans.
8	5445.00	6031.40	Chff House SS.
9	5490.00	6076.40	Menefee Fm.
10	5730.00	6316.40	Point Lookout SS.
11	6065.00	6651.40	Mancos Sh.
12	7055.00	7641.40	Gallup SS.
13	7770.00	8356.40	Greenhorn Ls.
14	7810.00	8396.40	Graneros Sh.
15	7946.00	8532.40	Dakota SS.
16	8166.00	8752.40	Morrison Fm.

SITE DETAILS	
Rosa Unit Com #60C	
Site Centre Latitude: 36°55'19.236N	
Longitude: 107°27'56.088W	
Ground Level: 6451.00	
Positional Uncertainty: 0.00	
Convergence: 0.22	



LEGEND	
9 5/8"	#60C, Plan #2
1	Wft Svy



Survey: Wft Svy (#60C/1)									
No	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
134	8732.00	0.50	23.46	8116.73	1931.68	664.26	0.00	0.00	2042.53



Weatherford International Ltd.

WFT Survey Report Lat, Long



Weatherford

Company: Williams Production	Date: 7/6/2011	Time: 08:58.02	Page: 1
Field: SAN JUAN CO. NM (NAD83)	Co-ordinate(NE) Reference: Well: #60C, True North.		
Site: Rosa Unit Com #60C	Vertical (TVD) Reference: SITE 6465 0		
Well: #60C	Section (VS) Reference: Well (0 00N,0 00E,18 24Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 6/1/2011
Company: Weatherford International Ltd	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: From Surface

Field: SAN JUAN CO NM (NAD83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Western Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Rosa Unit Com #60C

Site Position:	Northing: 2155150.88 ft	Latitude: 36 55 19 236 N
From: Geographic	Easting: 2830594.07 ft	Longitude: 107 27 56 088 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6451 00 ft		Grid Convergence: 0.22 deg

Well: #60C

Well Position: +N/-S 0.00 ft	Northing: 2155150 88 ft	Latitude: 36 55 19.236 N
+E/-W 0 00 ft	Easting : 2830594 07 ft	Longitude: 107 27 56 088 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 6465.00 ft	Drilled From: Surface
Magnetic Data: 6/15/2011		Tie-on Depth: 0 00 ft
Field Strength: 50928 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)		Declination: 9.80 deg
ft	+N/-S ft	Mag Dip Angle: 63 67 deg
		+E/-W ft
0 00	0.00	Direction deg
		18 24

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	V/S ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
0 00	0 00	0 00	0 00	0.00	0 00	0.00	0 00	36	55	19.236	107	27	56 088	9 5/8" First Wft Sv
320 01	0 88	274.52	320 00	0 19	-2 45	-0.58	0 27	36	55	19 238	107	27	56 118	
346.00	0 95	274 52	345 98	0 23	-2 86	-0 68	0 27	36	55	19 238	107	27	56 123	
377 00	1 13	303.21	376.98	0 41	-3 37	-0.66	1.75	36	55	19.240	107	27	56 130	
406 00	1 19	329 30	405 97	0 83	-3 76	-0 39	1 82	36	55	19 244	107	27	56 134	
436.00	1.44	7 68	435 97	1 47	-3.87	0 18	2.99	36	55	19 251	107	27	56 136	
467.00	2 19	36 93	466 95	2 33	-3.47	1.13	3.77	36	55	19 259	107	27	56.131	
499.00	2.94	35 43	498.92	3 49	-2.62	2.49	2 35	36	55	19.270	107	27	56 120	
531.00	3.88	32 68	530.86	5 07	-1.56	4 32	2 98	36	55	19 286	107	27	56 107	
561 00	4 81	28 43	560 78	7.03	-0.41	6 55	3 28	36	55	19 305	107	27	56.093	
591 00	5.56	28.68	590 65	9.41	0.88	9 21	2 50	36	55	19.329	107	27	56 077	
622 00	6.25	28.43	621 49	12 21	2 41	12.35	2.23	36	55	19.357	107	27	56 058	
651 00	6 94	25 55	650.30	15 18	3 91	15.64	2.64	36	55	19.386	107	27	56 040	
681 00	8 19	22 68	680.03	18.79	5 52	19.57	4.35	36	55	19 422	107	27	56 020	
712.00	9 25	22 18	710 68	23.13	7.31	24 26	3 43	36	55	19.465	107	27	55 998	
742 00	10 19	23 18	740.24	27.80	9 27	29 31	3 18	36	55	19 511	107	27	55.974	
772.00	11 33	24 32	769 72	32.93	11.52	34 88	3 87	36	55	19.562	107	27	55 946	
803 00	12 13	25 05	800 07	38.65	14 16	41 14	2 62	36	55	19.618	107	27	55 914	
833.00	13 06	25.05	829.35	44.58	16.93	47.64	3.10	36	55	19.677	107	27	55.880	
863.00	13 94	23.18	858 52	50.97	19 78	54.60	3.27	36	55	19.740	107	27	55.844	
895.00	14.75	23 80	889 52	58 24	22.95	62.50	2.58	36	55	19 812	107	27	55.805	
926 00	15.75	22.30	919 43	65 75	26.13	70.62	3.47	36	55	19 886	107	27	55.766	
958.00	16 69	19 68	950.15	74.09	29 33	79.55	3.72	36	55	19 969	107	27	55 727	
989.00	17 81	17 80	979 76	82.80	32.28	88 74	4.04	36	55	20.055	107	27	55 690	



Weatherford International Ltd.

WFT Survey Report Lat, Long

**Weatherford**

Company: Williams Production	Date: 7/6/2011	Time: 08:58:02	Page: 2
Field: SAN JUAN CO. NM (NAD83)	Co-ordinate(N/E) Reference:	Well: #60C, True North	
Site: Rosa Unit Com #60C	Vertical(TVD) Reference:	SITE 6465.0	
Well: #60C	Section (VS) Reference:	Well (0.00N,0.00E,18.24Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat Min	Sec	Long Min	Sec	Comment
1021.00	18.88	18.55	1010.13	92.37	35.42	98.81	3.42	36	55	20.149	107	27 55.652
1052.00	20.06	19.80	1039.36	102.12	38.82	109.14	4.04	36	55	20.246	107	27 55.610
1083.00	21.06	19.93	1068.38	112.36	42.52	120.03	3.23	36	55	20.347	107	27 55.564
1115.00	21.88	19.30	1098.16	123.40	46.45	131.73	2.66	36	55	20.456	107	27 55.516
1146.00	22.28	17.82	1126.89	134.44	50.16	143.39	2.21	36	55	20.565	107	27 55.470
1178.00	22.38	17.30	1156.49	146.03	53.82	155.54	0.69	36	55	20.680	107	27 55.425
1209.00	23.69	16.68	1185.02	157.63	57.37	167.67	4.30	36	55	20.795	107	27 55.381
1241.00	24.69	16.80	1214.21	170.19	61.14	180.78	3.13	36	55	20.919	107	27 55.335
1272.00	25.69	16.68	1242.26	182.83	64.94	193.97	3.23	36	55	21.044	107	27 55.288
1304.00	26.50	16.18	1271.00	196.33	68.92	208.04	2.62	36	55	21.177	107	27 55.239
1336.00	27.81	15.43	1299.47	210.38	72.90	222.63	4.23	36	55	21.316	107	27 55.190
1367.00	29.25	14.93	1326.71	224.67	76.78	237.41	4.71	36	55	21.458	107	27 55.142
1399.00	30.44	15.18	1354.46	240.05	80.91	253.31	3.74	36	55	21.610	107	27 55.092
1430.00	31.32	16.42	1381.07	255.36	85.25	269.21	3.50	36	55	21.761	107	27 55.038
1461.00	31.81	17.30	1407.48	270.88	89.95	285.43	2.17	36	55	21.915	107	27 54.980
1492.00	32.44	18.43	1433.73	286.57	95.01	301.91	2.81	36	55	22.070	107	27 54.918
1524.00	33.13	18.55	1460.64	303.01	100.51	319.24	2.17	36	55	22.232	107	27 54.850
1556.00	33.81	18.30	1487.33	319.75	106.08	336.89	2.17	36	55	22.398	107	27 54.781
1587.00	34.65	18.43	1512.96	336.30	111.58	354.33	2.72	36	55	22.561	107	27 54.714
1616.00	35.56	18.30	1536.68	352.13	116.83	371.00	3.15	36	55	22.718	107	27 54.649
1648.00	36.81	18.43	1562.51	370.06	122.79	389.89	3.91	36	55	22.895	107	27 54.576
1679.00	37.81	19.18	1587.17	387.84	128.84	408.68	3.54	36	55	23.071	107	27 54.501
1710.00	38.81	18.93	1611.49	406.01	135.12	427.90	3.26	36	55	23.251	107	27 54.424
1741.00	39.31	18.80	1635.56	424.49	141.43	447.43	1.63	36	55	23.433	107	27 54.346
1773.00	40.13	18.43	1660.18	443.87	147.96	467.88	2.67	36	55	23.625	107	27 54.266
1804.00	41.50	17.68	1683.64	463.14	154.24	488.14	4.69	36	55	23.816	107	27 54.188
1836.00	41.75	17.43	1707.56	483.40	160.65	509.40	0.94	36	55	24.016	107	27 54.109
1867.00	41.50	17.80	1730.73	503.03	166.88	529.99	1.13	36	55	24.210	107	27 54.033
1898.00	41.19	17.80	1754.00	522.53	173.14	550.46	1.00	36	55	24.403	107	27 53.956
1929.00	42.13	17.93	1777.16	542.14	179.46	571.07	3.05	36	55	24.597	107	27 53.878
1960.00	43.13	18.05	1799.97	562.11	185.95	592.06	3.24	36	55	24.794	107	27 53.798
1992.00	42.81	18.05	1823.39	582.84	192.71	613.88	1.00	36	55	24.999	107	27 53.715
2023.00	43.50	18.30	1846.00	602.99	199.32	635.08	2.29	36	55	25.198	107	27 53.633
2055.00	44.25	18.68	1869.07	624.02	206.35	657.26	2.48	36	55	25.406	107	27 53.547
2086.00	45.00	18.55	1891.13	644.66	213.30	679.03	2.44	36	55	25.611	107	27 53.461
2116.00	44.94	18.30	1912.36	664.78	220.01	700.23	0.62	36	55	25.809	107	27 53.378
2148.00	45.44	18.18	1934.91	686.34	227.11	722.94	1.58	36	55	26.023	107	27 53.291
2180.00	45.06	18.18	1957.44	707.93	234.20	745.66	1.19	36	55	26.236	107	27 53.204
2211.00	45.00	18.05	1979.34	728.77	241.02	767.59	0.35	36	55	26.442	107	27 53.120
2241.00	44.56	18.43	2000.64	748.84	247.63	788.73	1.72	36	55	26.641	107	27 53.038
2273.00	44.44	18.18	2023.46	770.14	254.68	811.15	0.66	36	55	26.851	107	27 52.951
2305.00	44.94	17.93	2046.21	791.53	261.65	833.66	1.66	36	55	27.063	107	27 52.865
2336.00	44.44	17.43	2068.25	812.30	268.28	855.46	1.97	36	55	27.268	107	27 52.784
2367.00	44.56	17.80	2090.36	833.01	274.85	877.19	0.92	36	55	27.473	107	27 52.703
2399.00	45.41	17.87	2113.00	854.55	281.78	899.81	2.66	36	55	27.686	107	27 52.618
2430.00	45.63	17.55	2134.72	875.62	288.51	921.92	1.02	36	55	27.894	107	27 52.535
2461.00	45.13	17.43	2156.49	896.66	295.14	943.99	1.64	36	55	28.102	107	27 52.453
2492.00	45.06	17.18	2178.37	917.63	301.67	965.94	0.61	36	55	28.310	107	27 52.373
2523.00	44.63	17.30	2200.35	938.50	308.15	987.80	1.41	36	55	28.516	107	27 52.293
2554.00	44.44	16.93	2222.45	959.28	314.55	1009.54	1.04	36	55	28.722	107	27 52.214
2586.00	43.81	17.30	2245.42	980.58	321.10	1031.81	2.13	36	55	28.932	107	27 52.133
2617.00	43.56	16.05	2267.84	1001.09	327.25	1053.21	2.90	36	55	29.135	107	27 52.058