



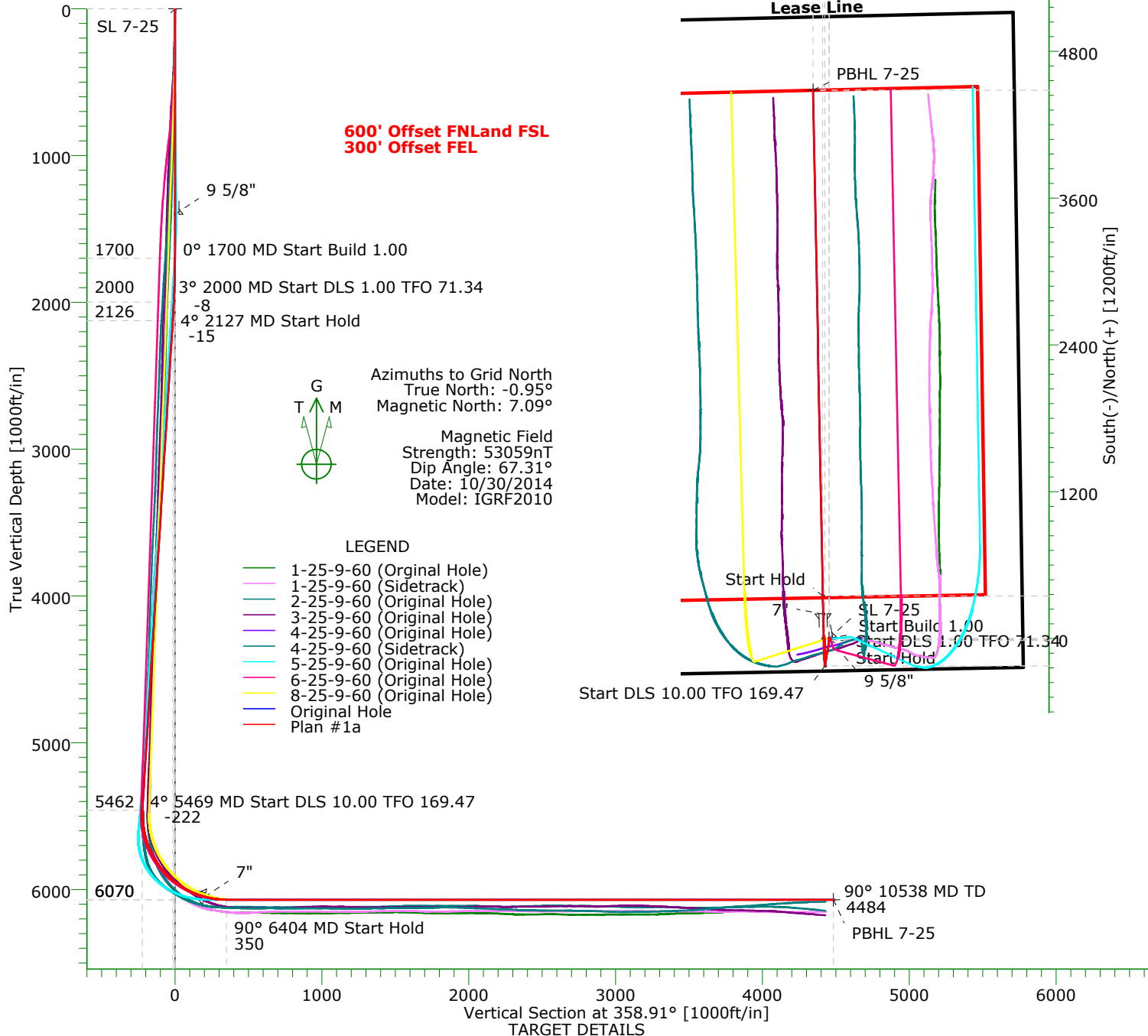
CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83
Site: Shull 1-25-9-60 Pad
Well: 7-25-9-60
Wellpath: Original Hole
Plan: Plan #1a



CASING DETAILS

No.	TVD	MD	Name	Size
1	1400.00	1400.00	9 5/8"	9.625
2	6050.48	6254.07	7"	7.000



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 7-25	0.00	0.00	0.00	1506554.23	3405814.02	40°42'52.844N	104°02'09.870W	Point
PBHL 7-25	6070.00	4482.05	-129.80	1511036.28	3405684.22	40°43'37.147N	104°02'10.595W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	170.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1700.00	0.00	170.00	1700.00	0.00	0.00	0.00	170.00	0.00	
3	2000.00	3.00	170.00	1999.86	-7.73	1.36	1.00	170.00	-7.76	
4	2126.59	3.61	189.42	2126.25	-14.93	1.29	1.00	71.34	-14.95	
5	5468.59	3.61	189.42	5461.61	-222.51	-33.14	0.00	0.00	-221.84	
6	6404.08	90.00	358.91	6070.00	349.11	-51.04	10.00	169.47	350.02	
7	10537.77	90.00	358.91	6070.00	4482.05	-129.80	0.00	0.00	4483.71	PBHL 7-25

Plan: Plan #1a (7-25-9-60/Original Hole)

Created By: Shane Nelson Date: 10/01/2014

PRECISION DIRECTIONAL SERVICES, INC.

713.435.6250

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Shull 1-25-9-60 Pad
Well: 7-25-9-60
Wellpath: Original Hole

Date: 10/01/2014 **Time:** 09:30:38
Co-ordinate(NE) Reference: Well: 7-25-9-60, Grid North
Vertical (TVD) Reference: 4887'GL+17'KB 4904.0
Section (VS) Reference: Well (0.00N,0.00E,358.91Azi)
Plan: Plan #1a

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Field: Niobrara CONZ'83

Map System:US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: Colorado, Northern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Shull 1-25-9-60 Pad

Weld County, CO

Site Position:
From: Map
Position Uncertainty: 0.00 ft
Ground Level: 4943.00 ft

Northing: 1511404.05 ft
Easting: 3406027.06 ft

Latitude: 40 43 40.724 N
Longitude: 104 2 6.064 W
North Reference: Grid
Grid Convergence: 0.95 deg

Well: 7-25-9-60

Slot Name:

Well Position:	+N/-S -4849.82 ft	Northing:	1506554.23 ft
	+E/-W -213.04 ft	Easting :	3405814.02 ft
Position Uncertainty:	0.00 ft		

Latitude: 40 42 52.844 N
Longitude: 104 2 9.870 W

Wellpath: Original Hole

Drilled From:	Surface
Tie-on Depth:	0.00 ft
Above System Datum:	Mean Sea Level
Declination:	8.04 deg
Mag Dip Angle:	67.31 deg
+E/-W	Direction
ft	deg

Current Datum:	4887'GL+17'KB	Height	4904.00	ft
Magnetic Data:	10/30/2014			
Field Strength:	53059	nT		
Vertical Section:	Depth From (TVD)		+N/-S	
	ft		ft	
	0.00		0.00	

Plan: Plan #1a
adj FSL offset to 600
Principal: Yes

Date Composed: 10/01/2014
Version: 1
Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	170.00	1700.00	0.00	0.00	0.00	0.00	0.00	170.00	
2000.00	3.00	170.00	1999.86	-7.73	1.36	1.00	1.00	0.00	170.00	
2126.59	3.61	189.42	2126.25	-14.93	1.29	1.00	0.48	15.34	71.34	
5468.59	3.61	189.42	5461.61	-222.51	-33.14	0.00	0.00	0.00	0.00	
6404.08	90.00	358.91	6070.00	349.11	-51.04	10.00	9.23	18.12	169.47	
10537.77	90.00	358.91	6070.00	4482.05	-129.80	0.00	0.00	0.00	0.00	PBHL 7-25

Survey

[illegible]

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Shull 1-25-9-60 Pad
Well: 7-25-9-60
Wellpath: Original Hole

Date: 10/01/2014
Co-ordinate(NE) Reference: Well: 7-25-9-60, Grid North
Vertical (TVD) Reference: 4887'GL+17'KB 4904.0
Section (VS) Reference: Well (0.00N,0.00E,358.91Azi)
Plan: Plan #1a

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1500.00	0.00	170.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	170.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	170.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	1.00	170.00	1799.99	-0.86	0.15	-0.86	1.00	1.00	0.00	
1900.00	2.00	170.00	1899.96	-3.44	0.61	-3.45	1.00	1.00	0.00	
2000.00	3.00	170.00	1999.86	-7.73	1.36	-7.76	1.00	1.00	0.00	
2100.00	3.45	185.94	2099.71	-13.30	1.51	-13.33	1.00	0.45	15.94	
2126.59	3.61	189.42	2126.25	-14.93	1.29	-14.95	1.00	0.59	13.09	
2200.00	3.61	189.42	2199.51	-19.49	0.53	-19.49	0.00	0.00	0.00	
2300.00	3.61	189.42	2299.31	-25.70	-0.50	-25.68	0.00	0.00	0.00	
2400.00	3.61	189.42	2399.11	-31.91	-1.53	-31.87	0.00	0.00	0.00	
2500.00	3.61	189.42	2498.91	-38.12	-2.56	-38.07	0.00	0.00	0.00	
2600.00	3.61	189.42	2598.72	-44.33	-3.59	-44.26	0.00	0.00	0.00	
2700.00	3.61	189.42	2698.52	-50.54	-4.62	-50.45	0.00	0.00	0.00	
2800.00	3.61	189.42	2798.32	-56.76	-5.65	-56.64	0.00	0.00	0.00	
2900.00	3.61	189.42	2898.12	-62.97	-6.68	-62.83	0.00	0.00	0.00	
3000.00	3.61	189.42	2997.92	-69.18	-7.71	-69.02	0.00	0.00	0.00	
3100.00	3.61	189.42	3097.72	-75.39	-8.74	-75.21	0.00	0.00	0.00	
3200.00	3.61	189.42	3197.53	-81.60	-9.77	-81.40	0.00	0.00	0.00	
3300.00	3.61	189.42	3297.33	-87.81	-10.80	-87.59	0.00	0.00	0.00	
3400.00	3.61	189.42	3397.13	-94.02	-11.83	-93.78	0.00	0.00	0.00	
3500.00	3.61	189.42	3496.93	-100.23	-12.86	-99.97	0.00	0.00	0.00	
3600.00	3.61	189.42	3596.73	-106.45	-13.89	-106.16	0.00	0.00	0.00	
3700.00	3.61	189.42	3696.53	-112.66	-14.92	-112.35	0.00	0.00	0.00	
3800.00	3.61	189.42	3796.34	-118.87	-15.95	-118.54	0.00	0.00	0.00	
3900.00	3.61	189.42	3896.14	-125.08	-16.98	-124.73	0.00	0.00	0.00	
4000.00	3.61	189.42	3995.94	-131.29	-18.01	-130.93	0.00	0.00	0.00	
4100.00	3.61	189.42	4095.74	-137.50	-19.04	-137.12	0.00	0.00	0.00	
4200.00	3.61	189.42	4195.54	-143.71	-20.08	-143.31	0.00	0.00	0.00	
4300.00	3.61	189.42	4295.34	-149.93	-21.11	-149.50	0.00	0.00	0.00	
4400.00	3.61	189.42	4395.15	-156.14	-22.14	-155.69	0.00	0.00	0.00	
4500.00	3.61	189.42	4494.95	-162.35	-23.17	-161.88	0.00	0.00	0.00	
4600.00	3.61	189.42	4594.75	-168.56	-24.20	-168.07	0.00	0.00	0.00	
4700.00	3.61	189.42	4694.55	-174.77	-25.23	-174.26	0.00	0.00	0.00	
4800.00	3.61	189.42	4794.35	-180.98	-26.26	-180.45	0.00	0.00	0.00	
4900.00	3.61	189.42	4894.15	-187.19	-27.29	-186.64	0.00	0.00	0.00	
5000.00	3.61	189.42	4993.95	-193.41	-28.32	-192.83	0.00	0.00	0.00	
5100.00	3.61	189.42	5093.76	-199.62	-29.35	-199.02	0.00	0.00	0.00	
5200.00	3.61	189.42	5193.56	-205.83	-30.38	-205.21	0.00	0.00	0.00	
5300.00	3.61	189.42	5293.36	-212.04	-31.41	-211.40	0.00	0.00	0.00	
5400.00	3.61	189.42	5393.16	-218.25	-32.44	-217.59	0.00	0.00	0.00	
5468.59	3.61	189.42	5461.61	-222.51	-33.14	-221.84	0.00	0.00	0.00	
5500.00	0.78	237.15	5493.00	-223.60	-33.49	-222.93	10.00	-9.02	151.97	
5600.00	9.61	355.01	5592.55	-215.63	-34.78	-214.93	10.00	8.84	117.86	
5700.00	19.60	357.06	5689.19	-190.49	-36.37	-189.77	10.00	9.99	2.04	
5800.00	29.60	357.75	5780.00	-148.96	-38.21	-148.21	10.00	10.00	0.69	
5900.00	39.60	358.11	5862.21	-92.29	-40.24	-91.50	10.00	10.00	0.36	
6000.00	49.60	358.35	5933.33	-22.20	-42.39	-21.39	10.00	10.00	0.24	
6100.00	59.59	358.52	5991.19	59.17	-44.61	60.01	10.00	10.00	0.17	
6200.00	69.59	358.66	6034.04	149.36	-46.82	150.23	10.00	10.00	0.14	
6254.07	75.00	358.73	6050.48	200.84	-47.99	201.72	10.00	10.00	0.13	7"
6300.00	79.59	358.79	6060.57	245.62	-48.96	246.51	10.00	10.00	0.12	
6400.00	89.59	358.90	6069.99	345.03	-50.96	345.94	10.00	10.00	0.12	

Precision Directional Services, Inc.

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Site: Shull 1-25-9-60 Pad
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Wellpath: Original Hole

Date: 10/01/2014
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Plan: Plan #1a

Page: 3

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6404.08	90.00	358.91	6070.00	349.11	-51.04	350.02	10.00	10.00	0.12	
6500.00	90.00	358.91	6070.00	445.01	-52.87	445.94	0.00	0.00	0.00	
6600.00	90.00	358.91	6070.00	544.99	-54.77	545.94	0.00	0.00	0.00	
6700.00	90.00	358.91	6070.00	644.98	-56.68	645.94	0.00	0.00	0.00	
6800.00	90.00	358.91	6070.00	744.96	-58.58	745.94	0.00	0.00	0.00	
6900.00	90.00	358.91	6070.00	844.94	-60.49	845.94	0.00	0.00	0.00	
7000.00	90.00	358.91	6070.00	944.92	-62.39	945.94	0.00	0.00	0.00	
7100.00	90.00	358.91	6070.00	1044.90	-64.30	1045.94	0.00	0.00	0.00	
7200.00	90.00	358.91	6070.00	1144.89	-66.20	1145.94	0.00	0.00	0.00	
7300.00	90.00	358.91	6070.00	1244.87	-68.11	1245.94	0.00	0.00	0.00	
7400.00	90.00	358.91	6070.00	1344.85	-70.02	1345.94	0.00	0.00	0.00	
7500.00	90.00	358.91	6070.00	1444.83	-71.92	1445.94	0.00	0.00	0.00	
7600.00	90.00	358.91	6070.00	1544.81	-73.83	1545.94	0.00	0.00	0.00	
7700.00	90.00	358.91	6070.00	1644.79	-75.73	1645.94	0.00	0.00	0.00	
7800.00	90.00	358.91	6070.00	1744.78	-77.64	1745.94	0.00	0.00	0.00	
7900.00	90.00	358.91	6070.00	1844.76	-79.54	1845.94	0.00	0.00	0.00	
8000.00	90.00	358.91	6070.00	1944.74	-81.45	1945.94	0.00	0.00	0.00	
8100.00	90.00	358.91	6070.00	2044.72	-83.35	2045.94	0.00	0.00	0.00	
8200.00	90.00	358.91	6070.00	2144.70	-85.26	2145.94	0.00	0.00	0.00	
8300.00	90.00	358.91	6070.00	2244.69	-87.16	2245.94	0.00	0.00	0.00	
8400.00	90.00	358.91	6070.00	2344.67	-89.07	2345.94	0.00	0.00	0.00	
8500.00	90.00	358.91	6070.00	2444.65	-90.97	2445.94	0.00	0.00	0.00	
8600.00	90.00	358.91	6070.00	2544.63	-92.88	2545.94	0.00	0.00	0.00	
8700.00	90.00	358.91	6070.00	2644.61	-94.78	2645.94	0.00	0.00	0.00	
8800.00	90.00	358.91	6070.00	2744.59	-96.69	2745.94	0.00	0.00	0.00	
8900.00	90.00	358.91	6070.00	2844.58	-98.59	2845.94	0.00	0.00	0.00	
9000.00	90.00	358.91	6070.00	2944.56	-100.50	2945.94	0.00	0.00	0.00	
9100.00	90.00	358.91	6070.00	3044.54	-102.40	3045.94	0.00	0.00	0.00	
9200.00	90.00	358.91	6070.00	3144.52	-104.31	3145.94	0.00	0.00	0.00	
9300.00	90.00	358.91	6070.00	3244.50	-106.22	3245.94	0.00	0.00	0.00	
9400.00	90.00	358.91	6070.00	3344.49	-108.12	3345.94	0.00	0.00	0.00	
9500.00	90.00	358.91	6070.00	3444.47	-110.03	3445.94	0.00	0.00	0.00	
9600.00	90.00	358.91	6070.00	3544.45	-111.93	3545.94	0.00	0.00	0.00	
9700.00	90.00	358.91	6070.00	3644.43	-113.84	3645.94	0.00	0.00	0.00	
9800.00	90.00	358.91	6070.00	3744.41	-115.74	3745.94	0.00	0.00	0.00	
9900.00	90.00	358.91	6070.00	3844.40	-117.65	3845.94	0.00	0.00	0.00	
10000.00	90.00	358.91	6070.00	3944.38	-119.55	3945.94	0.00	0.00	0.00	
10100.00	90.00	358.91	6070.00	4044.36	-121.46	4045.94	0.00	0.00	0.00	
10200.00	90.00	358.91	6070.00	4144.34	-123.36	4145.94	0.00	0.00	0.00	
10300.00	90.00	358.91	6070.00	4244.32	-125.27	4245.94	0.00	0.00	0.00	
10400.00	90.00	358.91	6070.00	4344.30	-127.17	4345.94	0.00	0.00	0.00	
10500.00	90.00	358.91	6070.00	4444.29	-129.08	4445.94	0.00	0.00	0.00	
10537.77	90.00	358.91	6070.00	4482.05	-129.80	4483.71	0.00	0.00	0.00	PBHL 7-25

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
SL 7-25			0.00	0.00	0.00	1506554.23	3405814.02	40 42 52.844 N	104 2 9.870 W
PBHL 7-25			6070.00	4482.05	-129.80	1511036.28	3405684.22	40 43 37.147 N	104 2 10.595 W

Precision Directional Services, Inc.

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Site: Shull 1-25-9-60 Pad

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Wellpath: Original Hole

Date: 10/01/2014

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Page: 4

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Vertical (TVD) Reference: 4887'GL+17'KB 4904.0

Section (VS) Reference: Well (0.00N,0.00E,358.91Azi)

Plan: Plan #1a

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1400.00	1400.00	9.625	12.250	9 5/8"
6254.07	6050.48	7.000	8.500	7"