

Plan: Plan 1 Draft 1 (16 State Conv/OH)
Cottontail

Created By: Heber Claros Date: 10:03, September 23 2013

Date: _____

Approved: _____ Date: _____

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 16 State Com
Company:	DEVON ENERGY	TVD Reference:	GE 2969' + GE 26' @ 2995.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 2969' + GE 26' @ 2995.00usft (Cactus 126)
Site:	Cottontail	North Reference:	Grid
Well:	16 State Com	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 Draft 1		

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

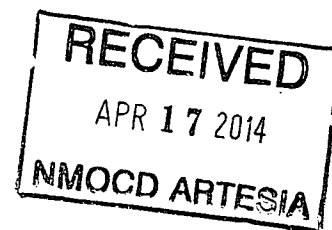
Site	Cottontail		
Site Position:	Map	Northing:	408,708.11 usft
From:		Easting:	648,504.91 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 23.320 N
		Longitude:	103° 59' 13.762 W
		Grid Convergence:	0.18 °

Well	16 State Com		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			2,969.00 usft
			Latitude:
			Longitude:
			32° 7' 23.320 N
			103° 59' 13.762 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2013	09/23/13	7.60
			Dip Angle
			(°)
			59.95
			Field Strength
			(nT)
			48,268

Design	Plan 1 Draft 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.27

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,194.00	0.00	0.00	8,194.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,012.17	90.00	359.27	8,714.87	520.81	-6.66	11.00	11.00	-0.09	359.27	
13,321.42	90.00	359.27	8,715.00	4,829.71	-61.75	0.00	0.00	0.00	0.00	0.00 PBHL (CSC 1H)



Leam Drilling Systems LLC

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Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 2969' + GE 26' @ 2995.00usft (Cactus 126)
Site:	Cottontail	North Reference:	Grid
Well:	16 State Com	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 Draft 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,194.00	0.00	0.00	8,194.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 11.00 TFO 359.27									
8,200.00	0.66	359.27	8,200.00	0.03	0.00	0.03	11.00	11.00	0.00
8,250.00	6.16	359.27	8,249.89	3.01	-0.04	3.01	11.00	11.00	0.00
8,300.00	11.66	359.27	8,299.27	10.75	-0.14	10.75	11.00	11.00	0.00
8,350.00	17.16	359.27	8,347.68	23.18	-0.30	23.19	11.00	11.00	0.00
8,400.00	22.66	359.27	8,394.67	40.20	-0.51	40.21	11.00	11.00	0.00
8,450.00	28.16	359.27	8,439.82	61.65	-0.79	61.65	11.00	11.00	0.00
8,500.00	33.66	359.27	8,482.70	87.32	-1.12	87.33	11.00	11.00	0.00
8,505.00	34.21	359.27	8,486.85	90.11	-1.15	90.12	11.00	11.00	0.00
Second Bone Spring									
8,550.00	39.16	359.27	8,522.92	116.99	-1.50	117.00	11.00	11.00	0.00
8,600.00	44.66	359.27	8,560.12	150.37	-1.92	150.38	11.00	11.00	0.00
Heel Tgt (CSC 1H)									
8,650.00	50.16	359.27	8,593.94	187.16	-2.39	187.18	11.00	11.00	0.00
8,700.00	55.66	359.27	8,624.09	227.03	-2.90	227.05	11.00	11.00	0.00
8,750.00	61.16	359.27	8,650.27	269.60	-3.45	269.62	11.00	11.00	0.00
8,800.00	66.66	359.27	8,672.25	314.48	-4.02	314.51	11.00	11.00	0.00
8,850.00	72.16	359.27	8,689.83	361.27	-4.62	361.30	11.00	11.00	0.00
8,900.00	77.66	359.27	8,702.84	409.52	-5.24	409.55	11.00	11.00	0.00
8,950.00	83.16	359.27	8,711.16	458.80	-5.87	458.84	11.00	11.00	0.00
9,000.00	88.66	359.27	8,714.73	508.65	-6.50	508.69	11.00	11.00	0.00
9,012.17	90.00	359.27	8,714.87	520.81	-6.66	520.86	11.00	11.00	0.00
EOC: Start 4309.25 hold at 9012.17 MD									
9,100.00	90.00	359.27	8,714.87	608.64	-7.78	608.69	0.00	0.00	0.00
9,200.00	90.00	359.27	8,714.88	708.63	-9.06	708.69	0.00	0.00	0.00
9,300.00	90.00	359.27	8,714.88	808.62	-10.34	808.69	0.00	0.00	0.00
9,400.00	90.00	359.27	8,714.88	908.61	-11.62	908.69	0.00	0.00	0.00
9,500.00	90.00	359.27	8,714.89	1,008.61	-12.90	1,008.69	0.00	0.00	0.00
9,600.00	90.00	359.27	8,714.89	1,108.60	-14.17	1,108.69	0.00	0.00	0.00
9,700.00	90.00	359.27	8,714.89	1,208.59	-15.45	1,208.69	0.00	0.00	0.00
9,800.00	90.00	359.27	8,714.89	1,308.58	-16.73	1,308.69	0.00	0.00	0.00
9,900.00	90.00	359.27	8,714.90	1,408.57	-18.01	1,408.69	0.00	0.00	0.00
10,000.00	90.00	359.27	8,714.90	1,508.57	-19.29	1,508.69	0.00	0.00	0.00
10,100.00	90.00	359.27	8,714.90	1,608.56	-20.57	1,608.69	0.00	0.00	0.00
10,200.00	90.00	359.27	8,714.91	1,708.55	-21.85	1,708.69	0.00	0.00	0.00
10,300.00	90.00	359.27	8,714.91	1,808.54	-23.12	1,808.69	0.00	0.00	0.00
10,400.00	90.00	359.27	8,714.91	1,908.53	-24.40	1,908.69	0.00	0.00	0.00
10,500.00	90.00	359.27	8,714.92	2,008.52	-25.68	2,008.69	0.00	0.00	0.00
10,600.00	90.00	359.27	8,714.92	2,108.52	-26.96	2,108.69	0.00	0.00	0.00
10,700.00	90.00	359.27	8,714.92	2,208.51	-28.24	2,208.69	0.00	0.00	0.00
10,800.00	90.00	359.27	8,714.92	2,308.50	-29.52	2,308.69	0.00	0.00	0.00
10,900.00	90.00	359.27	8,714.93	2,408.49	-30.79	2,408.69	0.00	0.00	0.00
11,000.00	90.00	359.27	8,714.93	2,508.48	-32.07	2,508.69	0.00	0.00	0.00
11,100.00	90.00	359.27	8,714.93	2,608.48	-33.35	2,608.69	0.00	0.00	0.00
11,200.00	90.00	359.27	8,714.94	2,708.47	-34.63	2,708.69	0.00	0.00	0.00
11,300.00	90.00	359.27	8,714.94	2,808.46	-35.91	2,808.69	0.00	0.00	0.00
11,400.00	90.00	359.27	8,714.94	2,908.45	-37.19	2,908.69	0.00	0.00	0.00
11,500.00	90.00	359.27	8,714.95	3,008.44	-38.47	3,008.69	0.00	0.00	0.00
11,600.00	90.00	359.27	8,714.95	3,108.43	-39.74	3,108.69	0.00	0.00	0.00
11,700.00	90.00	359.27	8,714.95	3,208.43	-41.02	3,208.69	0.00	0.00	0.00
11,800.00	90.00	359.27	8,714.95	3,308.42	-42.30	3,308.69	0.00	0.00	0.00

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Site:	Cottontail	North Reference:	Grid
Well:	16 State Com	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 Draft 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,900.00	90.00	359.27	8,714.96	3,408.41	-43.58	3,408.69	0.00	0.00	0.00	
12,000.00	90.00	359.27	8,714.96	3,508.40	-44.86	3,508.69	0.00	0.00	0.00	
12,100.00	90.00	359.27	8,714.96	3,608.39	-46.14	3,608.69	0.00	0.00	0.00	
12,200.00	90.00	359.27	8,714.97	3,708.39	-47.41	3,708.69	0.00	0.00	0.00	
12,300.00	90.00	359.27	8,714.97	3,808.38	-48.69	3,808.69	0.00	0.00	0.00	
12,400.00	90.00	359.27	8,714.97	3,908.37	-49.97	3,908.69	0.00	0.00	0.00	
12,500.00	90.00	359.27	8,714.98	4,008.36	-51.25	4,008.69	0.00	0.00	0.00	
12,600.00	90.00	359.27	8,714.98	4,108.35	-52.53	4,108.69	0.00	0.00	0.00	
12,700.00	90.00	359.27	8,714.98	4,208.35	-53.81	4,208.69	0.00	0.00	0.00	
12,800.00	90.00	359.27	8,714.98	4,308.34	-55.09	4,308.69	0.00	0.00	0.00	
12,900.00	90.00	359.27	8,714.99	4,408.33	-56.36	4,408.69	0.00	0.00	0.00	
13,000.00	90.00	359.27	8,714.99	4,508.32	-57.64	4,508.69	0.00	0.00	0.00	
13,100.00	90.00	359.27	8,714.99	4,608.31	-58.92	4,608.69	0.00	0.00	0.00	
13,200.00	90.00	359.27	8,715.00	4,708.30	-60.20	4,708.69	0.00	0.00	0.00	
13,300.00	90.00	359.27	8,715.00	4,808.30	-61.48	4,808.69	0.00	0.00	0.00	
13,321.42	90.00	359.27	8,715.00	4,829.71	-61.75	4,830.11	0.00	0.00	0.00	
TD at 13321.42' MD - PBHL (CSC 1H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL (CSC 1H)	0.00	0.00	0.00	0.00	0.00	408,708.11	648,504.91	32° 7' 23.320 N	103° 59' 13.762 W	
- hit/miss target										
- Shape										
- plan misses target center by 8194.00usft at 8194.00usft MD (8194.00 TVD, 0.00 N, 0.00 E)										
- Point										
Heel Tgt (CSC 1H)	0.00	0.00	8,715.00	-0.10	-30.40	408,708.01	648,474.51	32° 7' 23.320 N	103° 59' 14.116 W	
- hit/miss target										
- Shape										
- plan misses target center by 217.80usft at 8600.00usft MD (8560.12 TVD, 150.37 N, -1.92 E)										
- Point										
PBHL (CSC 1H)	0.00	0.00	8,715.00	4,829.71	-61.75	413,537.82	648,443.16	32° 8' 11.117 N	103° 59' 14.300 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 16 State Com
Company:	DEVON ENERGY	TVD Reference:	GE 2969' + GE 26' @ 2995.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 2969' + GE 26' @ 2995.00usft (Cactus 126)
Site:	Cottontail	North Reference:	Grid
Well:	16 State Com	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 Draft 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	Quaternary		0.00		
65.00	65.00	Rustler		0.00		
289.00	289.00	Salado		0.00		
2,785.00	2,785.00	Base Salt		0.00		
2,976.00	2,976.00	Delaware		0.00		
3,012.00	3,012.00	Bell Canyon		0.00		
3,861.00	3,861.00	Cherry Canyon		0.00		
5,162.00	5,162.00	Brushy Canyon		0.00		
6,762.00	6,762.00	Bone Spring		0.00		
7,640.00	7,640.00	First Bone Spring		0.00		
8,505.00	8,486.85	Second Bone Spring		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,194.00	8,194.00	0.00	0.00	KOP: Start DLS 11.00 TFO 359.27	
9,012.17	8,714.87	520.81	-6.66	EOC: Start 4309.25 hold at 9012.17 MD	
13,321.42	8,715.00	4,829.71	-61.75	TD at 13321.42' MD	

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00

4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	0.00	0.00
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	0.00	0.00
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	0.00
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	0.00	0.00
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	0.00	0.00
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	0.00	0.00
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	0.00	0.00
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	0.00	0.00
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	0.00	0.00
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	0.00	0.00
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	0.00	0.00
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	0.00	0.00
8194.00	0.00	0.00	8194.00	0.00	0.00	0.00	0.00	0.00	0.00
8200.00	0.66	359.27	8200.00	0.03	0.00	11.00	11.00	0.00	0.03
8250.00	6.16	359.27	8249.89	3.01	-0.04	11.00	11.00	0.00	3.01
8300.00	11.66	359.27	8299.27	10.75	-0.14	11.00	11.00	0.00	10.75
8350.00	17.16	359.27	8347.68	23.18	-0.30	11.00	11.00	0.00	23.19
8400.00	22.66	359.27	8394.67	40.20	-0.51	11.00	11.00	0.00	40.21
8450.00	28.16	359.27	8439.82	61.65	-0.79	11.00	11.00	0.00	61.65
8500.00	33.66	359.27	8482.70	87.32	-1.12	11.00	11.00	0.00	87.33
8550.00	39.16	359.27	8522.92	116.99	-1.50	11.00	11.00	0.00	117.00
8600.00	44.66	359.27	8560.12	150.37	-1.92	11.00	11.00	0.00	150.38
8650.00	50.16	359.27	8593.94	187.16	-2.39	11.00	11.00	0.00	187.18

8700.00	55.66	359.27	8624.09	227.03	-2.90	11.00	11.00	0.00	227.05
8750.00	61.16	359.27	8650.27	269.60	-3.45	11.00	11.00	0.00	269.62
8800.00	66.66	359.27	8672.25	314.48	-4.02	11.00	11.00	0.00	314.51
8850.00	72.16	359.27	8689.83	361.27	-4.62	11.00	11.00	0.00	361.30
8900.00	77.66	359.27	8702.84	409.52	-5.24	11.00	11.00	0.00	409.55
8950.00	83.16	359.27	8711.16	458.80	-5.87	11.00	11.00	0.00	458.84
9000.00	88.66	359.27	8714.73	508.65	-6.50	11.00	11.00	0.00	508.69
9012.17	90.00	359.27	8714.87	520.81	-6.66	11.00	11.00	0.00	520.86
9100.00	90.00	359.27	8714.87	608.64	-7.78	0.00	0.00	0.00	608.69
9200.00	90.00	359.27	8714.88	708.63	-9.06	0.00	0.00	0.00	708.69
9300.00	90.00	359.27	8714.88	808.62	-10.34	0.00	0.00	0.00	808.69
9400.00	90.00	359.27	8714.88	908.61	-11.62	0.00	0.00	0.00	908.69
9500.00	90.00	359.27	8714.89	1008.61	-12.90	0.00	0.00	0.00	1008.69
9600.00	90.00	359.27	8714.89	1108.60	-14.17	0.00	0.00	0.00	1108.69
9700.00	90.00	359.27	8714.89	1208.59	-15.45	0.00	0.00	0.00	1208.69
9800.00	90.00	359.27	8714.89	1308.58	-16.73	0.00	0.00	0.00	1308.69
9900.00	90.00	359.27	8714.90	1408.57	-18.01	0.00	0.00	0.00	1408.69
10000.00	90.00	359.27	8714.90	1508.57	-19.29	0.00	0.00	0.00	1508.69
10100.00	90.00	359.27	8714.90	1608.56	-20.57	0.00	0.00	0.00	1608.69
10200.00	90.00	359.27	8714.91	1708.55	-21.85	0.00	0.00	0.00	1708.69
10300.00	90.00	359.27	8714.91	1808.54	-23.12	0.00	0.00	0.00	1808.69
10400.00	90.00	359.27	8714.91	1908.53	-24.40	0.00	0.00	0.00	1908.69
10500.00	90.00	359.27	8714.92	2008.52	-25.68	0.00	0.00	0.00	2008.69
10600.00	90.00	359.27	8714.92	2108.52	-26.96	0.00	0.00	0.00	2108.69
10700.00	90.00	359.27	8714.92	2208.51	-28.24	0.00	0.00	0.00	2208.69
10800.00	90.00	359.27	8714.92	2308.50	-29.52	0.00	0.00	0.00	2308.69
10900.00	90.00	359.27	8714.93	2408.49	-30.79	0.00	0.00	0.00	2408.69
11000.00	90.00	359.27	8714.93	2508.48	-32.07	0.00	0.00	0.00	2508.69
11100.00	90.00	359.27	8714.93	2608.48	-33.35	0.00	0.00	0.00	2608.69
11200.00	90.00	359.27	8714.94	2708.47	-34.63	0.00	0.00	0.00	2708.69
11300.00	90.00	359.27	8714.94	2808.46	-35.91	0.00	0.00	0.00	2808.69
11400.00	90.00	359.27	8714.94	2908.45	-37.19	0.00	0.00	0.00	2908.69
11500.00	90.00	359.27	8714.95	3008.44	-38.47	0.00	0.00	0.00	3008.69
11600.00	90.00	359.27	8714.95	3108.43	-39.74	0.00	0.00	0.00	3108.69
11700.00	90.00	359.27	8714.95	3208.43	-41.02	0.00	0.00	0.00	3208.69
11800.00	90.00	359.27	8714.95	3308.42	-42.30	0.00	0.00	0.00	3308.69
11900.00	90.00	359.27	8714.96	3408.41	-43.58	0.00	0.00	0.00	3408.69
12000.00	90.00	359.27	8714.96	3508.40	-44.86	0.00	0.00	0.00	3508.69
12100.00	90.00	359.27	8714.96	3608.39	-46.14	0.00	0.00	0.00	3608.69
12200.00	90.00	359.27	8714.97	3708.39	-47.41	0.00	0.00	0.00	3708.69
12300.00	90.00	359.27	8714.97	3808.38	-48.69	0.00	0.00	0.00	3808.69
12400.00	90.00	359.27	8714.97	3908.37	-49.97	0.00	0.00	0.00	3908.69
12500.00	90.00	359.27	8714.98	4008.36	-51.25	0.00	0.00	0.00	4008.69
12600.00	90.00	359.27	8714.98	4108.35	-52.53	0.00	0.00	0.00	4108.69
12700.00	90.00	359.27	8714.98	4208.34	-53.81	0.00	0.00	0.00	4208.69
12800.00	90.00	359.27	8714.98	4308.34	-55.09	0.00	0.00	0.00	4308.69
12900.00	90.00	359.27	8714.99	4408.33	-56.36	0.00	0.00	0.00	4408.69

13000.00	90.00	359.27	8714.99	4508.32	-57.64	0.00	0.00	0.00	4508.69
13100.00	90.00	359.27	8714.99	4608.31	-58.92	0.00	0.00	0.00	4608.69
13200.00	90.00	359.27	8715.00	4708.30	-60.20	0.00	0.00	0.00	4708.69
13300.00	90.00	359.27	8715.00	4808.30	-61.48	0.00	0.00	0.00	4808.69
13321.42	90.00	359.27	8715.00	4829.71	-61.75	0.00	0.00	0.00	4830.11