

30-015-41828

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Boss Hogg 15 State Com
Well: 1H
Wellbore: OH



Azimuths to Grid North
True North: -0.02°
Magnetic North: 7.72°

Magnetic Field
Strength: 48327.8snT
Dip Angle: 60.07°
Date: 11/04/2013
Model: BGGM2013

devon

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

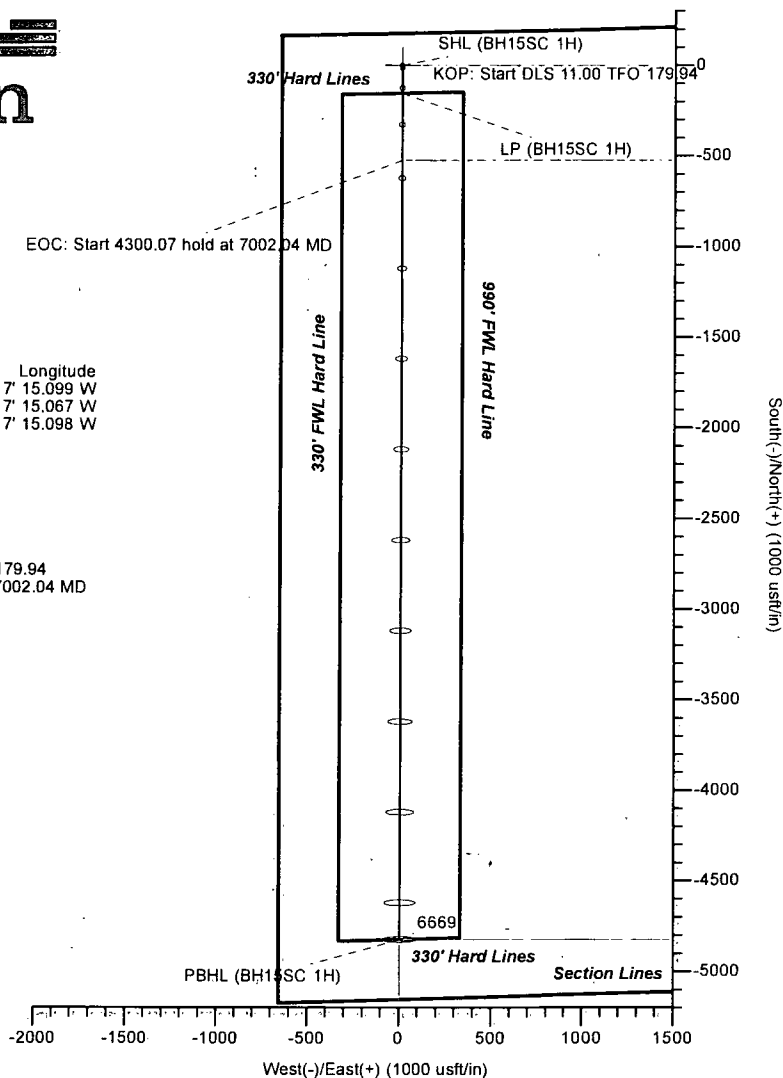
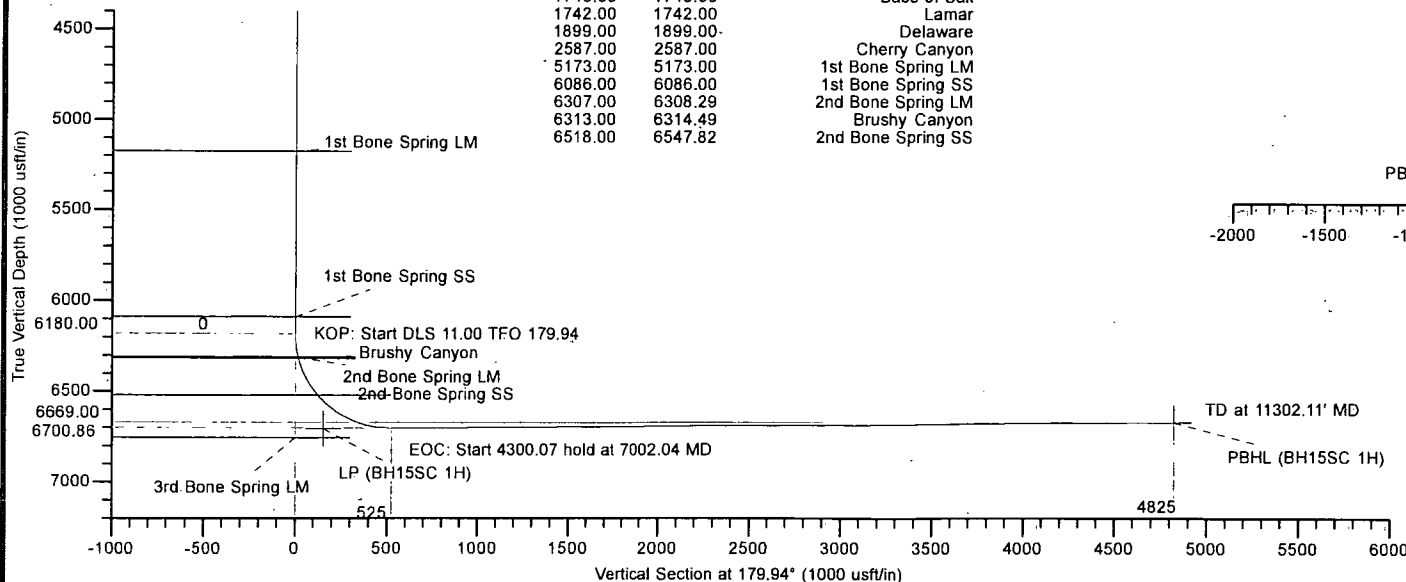
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (BH15SC 1H)	0.00	0.00	0.00	476931.39	555488.56	32° 18' 40.136 N	104° 17' 15.099 W
PBHL (BH15SC 1H)	6669.00	-4824.68	4.86	472106.71	555493.42	32° 17' 52.392 N	104° 17' 15.067 W
LP (BH15SC 1H)	6703.00	-155.07	0.17	476776.32	555488.73	32° 18' 38.602 N	104° 17' 15.098 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6180.00	0.00	0.00	6180.00	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 11.00 TFO 179.94
3	7002.04	90.42	179.94	6700.86	-524.73	0.53	11.00	179.94	524.73	EOC: Start 4300.07 hold at 7002.04 MD
4	11302.11	90.42	179.94	6669.00	-4824.68	4.86	0.00	0.00	4824.68	TD at 11302.11' MD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
210.00	210.00	Rustler
707.00	707.00	Salado
1740.00	1740.00	Base of Salt
1742.00	1742.00	Lamar
1899.00	1899.00	Delaware
2587.00	2587.00	Cherry Canyon
5173.00	5173.00	1st Bone Spring LM
6086.00	6086.00	1st Bone Spring SS
6307.00	6308.29	2nd Bone Spring LM
6313.00	6314.49	Brushy Canyon
6518.00	6547.82	2nd Bone Spring SS



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft 1 (1H/OH)
Boss Hogg 15 State Com
Created By: Heber Claros
Date: 10/52, November 04 2013
Approved: _____

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	1H	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	Boss Hogg 15 State Com				
Site Position:		Northing:	476,931.39 usft	Latitude:	32° 18' 40.136 N
From:	Lat/Long	Easting:	555,488.56 usft	Longitude:	104° 17' 15.099 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.02 °

Well	1H				
Well Position	+N/-S	0.00 usft	Northing:	476,931.39 usft	Latitude: 32° 18' 40.136 N
	+E/-W	0.00 usft	Easting:	555,488.56 usft	Longitude: 104° 17' 15.099 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level: 3,327.00 usft

Wellbore	OH				
Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	11/04/13	7.74	60.07	48,328

Design	Plan #1 Draft 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.94

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	
6,180.00	0.00	0.00	6,180.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,002.04	90.42	179.94	6,700.86	-524.73	0.53	11.00	11.00	21.89	179.94	
11,302.11	90.42	179.94	6,669.00	-4,824.68	4.86	0.00	0.00	0.00	0.00	PBHL (BH15SC 1H)

Leam Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	1H	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)
6,180.00	0.00	0.00	6,180.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 11.00 TFO 179.94									
6,200.00	2.20	179.94	6,200.00	-0.38	0.00	0.38	11.00	11.00	0.00
6,250.00	7.70	179.94	6,249.79	-4.70	0.00	4.70	11.00	11.00	0.00
6,300.00	13.20	179.94	6,298.94	-13.76	0.01	13.76	11.00	11.00	0.00
6,308.29	14.11	179.94	6,307.00	-15.72	0.02	15.72	11.00	11.00	0.00
2nd Bone Spring LM									
6,314.49	14.79	179.94	6,313.00	-17.27	0.02	17.27	11.00	11.00	0.00
Brushy Canyon									
6,350.00	18.70	179.94	6,347.00	-27.50	0.03	27.50	11.00	11.00	0.00
6,400.00	24.20	179.94	6,393.52	-45.77	0.05	45.77	11.00	11.00	0.00
6,450.00	29.70	179.94	6,438.07	-68.43	0.07	68.43	11.00	11.00	0.00
6,500.00	35.20	179.94	6,480.25	-95.24	0.10	95.24	11.00	11.00	0.00
6,547.82	40.46	179.94	6,518.00	-124.56	0.13	124.56	11.00	11.00	0.00
2nd Bone Spring SS									
6,550.00	40.70	179.94	6,519.66	-125.98	0.13	125.98	11.00	11.00	0.00
6,600.00	46.20	179.94	6,555.94	-160.35	0.16	160.35	11.00	11.00	0.00
6,650.00	51.70	179.94	6,588.77	-198.05	0.20	198.05	11.00	11.00	0.00
6,681.47	55.16	179.94	6,607.51	-223.31	0.22	223.31	11.00	11.00	0.00
LP (BH15SC 1H)									
6,700.00	57.20	179.94	6,617.83	-238.71	0.24	238.71	11.00	11.00	0.00
6,750.00	62.70	179.94	6,642.85	-281.97	0.28	281.97	11.00	11.00	0.00
6,800.00	68.20	179.94	6,663.62	-327.44	0.33	327.44	11.00	11.00	0.00
6,850.00	73.70	179.94	6,679.93	-374.68	0.38	374.68	11.00	11.00	0.00
6,900.00	79.20	179.94	6,691.64	-423.27	0.43	423.27	11.00	11.00	0.00
6,950.00	84.70	179.94	6,698.64	-472.76	0.48	472.76	11.00	11.00	0.00
7,002.04	90.42	179.94	6,700.86	-524.73	0.53	524.73	11.00	11.00	0.00
EOC: Start 4300.07 hold at 7002.04 MD									
7,100.00	90.42	179.94	6,700.13	-622.69	0.63	622.69	0.00	0.00	0.00
7,200.00	90.42	179.94	6,699.39	-722.68	0.73	722.68	0.00	0.00	0.00
7,300.00	90.42	179.94	6,698.65	-822.68	0.83	822.68	0.00	0.00	0.00
7,400.00	90.42	179.94	6,697.91	-922.68	0.93	922.68	0.00	0.00	0.00
7,500.00	90.42	179.94	6,697.17	-1,022.67	1.03	1,022.68	0.00	0.00	0.00
7,600.00	90.42	179.94	6,696.43	-1,122.67	1.13	1,122.67	0.00	0.00	0.00
7,700.00	90.42	179.94	6,695.69	-1,222.67	1.23	1,222.67	0.00	0.00	0.00
7,800.00	90.42	179.94	6,694.95	-1,322.67	1.33	1,322.67	0.00	0.00	0.00
7,900.00	90.42	179.94	6,694.20	-1,422.66	1.43	1,422.66	0.00	0.00	0.00
8,000.00	90.42	179.94	6,693.46	-1,522.66	1.53	1,522.66	0.00	0.00	0.00
8,100.00	90.42	179.94	6,692.72	-1,622.66	1.63	1,622.66	0.00	0.00	0.00
8,200.00	90.42	179.94	6,691.98	-1,722.66	1.73	1,722.66	0.00	0.00	0.00
8,300.00	90.42	179.94	6,691.24	-1,822.65	1.83	1,822.65	0.00	0.00	0.00
8,400.00	90.42	179.94	6,690.50	-1,922.65	1.93	1,922.65	0.00	0.00	0.00
8,500.00	90.42	179.94	6,689.76	-2,022.65	2.04	2,022.65	0.00	0.00	0.00
8,600.00	90.42	179.94	6,689.02	-2,122.64	2.14	2,122.65	0.00	0.00	0.00
8,700.00	90.42	179.94	6,688.28	-2,222.64	2.24	2,222.64	0.00	0.00	0.00
8,800.00	90.42	179.94	6,687.54	-2,322.64	2.34	2,322.64	0.00	0.00	0.00
8,900.00	90.42	179.94	6,686.80	-2,422.64	2.44	2,422.64	0.00	0.00	0.00
9,000.00	90.42	179.94	6,686.05	-2,522.63	2.54	2,522.63	0.00	0.00	0.00
9,100.00	90.42	179.94	6,685.31	-2,622.63	2.64	2,622.63	0.00	0.00	0.00
9,200.00	90.42	179.94	6,684.57	-2,722.63	2.74	2,722.63	0.00	0.00	0.00
9,300.00	90.42	179.94	6,683.83	-2,822.62	2.84	2,822.63	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	1H	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)	
9,400.00	90.42	179.94	6,683.09	-2,922.62	2.94	2,922.62	0.00	0.00	0.00	
9,500.00	90.42	179.94	6,682.35	-3,022.62	3.04	3,022.62	0.00	0.00	0.00	
9,600.00	90.42	179.94	6,681.61	-3,122.62	3.14	3,122.62	0.00	0.00	0.00	
9,700.00	90.42	179.94	6,680.87	-3,222.61	3.24	3,222.61	0.00	0.00	0.00	
9,800.00	90.42	179.94	6,680.13	-3,322.61	3.34	3,322.61	0.00	0.00	0.00	
9,900.00	90.42	179.94	6,679.39	-3,422.61	3.44	3,422.61	0.00	0.00	0.00	
10,000.00	90.42	179.94	6,678.65	-3,522.60	3.55	3,522.61	0.00	0.00	0.00	
10,100.00	90.42	179.94	6,677.91	-3,622.60	3.65	3,622.60	0.00	0.00	0.00	
10,200.00	90.42	179.94	6,677.16	-3,722.60	3.75	3,722.60	0.00	0.00	0.00	
10,300.00	90.42	179.94	6,676.42	-3,822.60	3.85	3,822.60	0.00	0.00	0.00	
10,400.00	90.42	179.94	6,675.68	-3,922.59	3.95	3,922.60	0.00	0.00	0.00	
10,500.00	90.42	179.94	6,674.94	-4,022.59	4.05	4,022.59	0.00	0.00	0.00	
10,600.00	90.42	179.94	6,674.20	-4,122.59	4.15	4,122.59	0.00	0.00	0.00	
10,700.00	90.42	179.94	6,673.46	-4,222.59	4.25	4,222.59	0.00	0.00	0.00	
10,800.00	90.42	179.94	6,672.72	-4,322.58	4.35	4,322.58	0.00	0.00	0.00	
10,900.00	90.42	179.94	6,671.98	-4,422.58	4.45	4,422.58	0.00	0.00	0.00	
11,000.00	90.42	179.94	6,671.24	-4,522.58	4.55	4,522.58	0.00	0.00	0.00	
11,100.00	90.42	179.94	6,670.50	-4,622.57	4.65	4,622.58	0.00	0.00	0.00	
11,200.00	90.42	179.94	6,669.76	-4,722.57	4.75	4,722.57	0.00	0.00	0.00	
11,302.11	90.42	179.94	6,669.00	-4,824.68	4.86	4,824.68	0.00	0.00	0.00	
TD at 11302.11' MD - PBHL (BH15SC 1H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL (BH15SC 1H)	0.00	0.00	0.00	0.00	0.00	476,931.39	555,488.56	32° 18' 40.136 N	104° 17' 15.099 W	
- plan misses target center by 6180.00usft at 6180.00usft MD (6180.00 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL (BH15SC 1H)	0.00	0.00	6,669.00	-4,824.68	4.86	472,106.71	555,493.42	32° 17' 52.391 N	104° 17' 15.067 W	
- plan hits target center										
- Point										
LP (BH15SC 1H)	0.00	0.00	6,703.00	-155.07	0.17	476,776.32	555,488.73	32° 18' 38.602 N	104° 17' 15.098 W	
- plan misses target center by 117.37usft at 6681.47usft MD (6607.51 TVD, -223.31 N, 0.22 E)										
- Point										

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3327' + KB 25' @ 3352.00usft (Cactus 126)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
210.00	210.00	Rustler		0.01	
707.00	707.00	Salado		0.01	
1,740.00	1,740.00	Base of Salt		0.01	
1,742.00	1,742.00	Lamar		0.01	
1,899.00	1,899.00	Delaware		0.01	
2,587.00	2,587.00	Cherry Canyon		0.01	
5,173.00	5,173.00	1st Bone Spring LM		0.01	
6,086.00	6,086.00	1st Bone Spring SS		0.01	
6,308.29	6,307.00	2nd Bone Spring LM		0.01	
6,314.49	6,313.00	Brushy Canyon		0.01	
6,547.82	6,518.00	2nd Bone Spring SS		0.01	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
6,180.00	6,180.00	0.00	0.00	KOP: Start DLS 11.00 TFO 179.94	
7,002.04	6,700.86	-524.73	0.53	EOC: Start 4300.07 hold at 7002.04 MD	
11,302.11	6,669.00	-4,824.68	4.86	TD at 11302.11' 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
6180.00	0.00	0.00	6180.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	2.20	179.94	6200.00	-0.38	0.00	11.00	11.00	0.00	0.38
6250.00	7.70	179.94	6249.79	-4.70	0.00	11.00	11.00	0.00	4.70
6300.00	13.20	179.94	6298.94	-13.76	0.01	11.00	11.00	0.00	13.76
6350.00	18.70	179.94	6347.00	-27.50	0.03	11.00	11.00	0.00	27.50
6400.00	24.20	179.94	6393.52	-45.77	0.05	11.00	11.00	0.00	45.77
6450.00	29.70	179.94	6438.07	-68.43	0.07	11.00	11.00	0.00	68.43
6500.00	35.20	179.94	6480.25	-95.24	0.10	11.00	11.00	0.00	95.24
6550.00	40.70	179.94	6519.66	-125.98	0.13	11.00	11.00	0.00	125.98
6600.00	46.20	179.94	6555.94	-160.35	0.16	11.00	11.00	0.00	160.35
6650.00	51.70	179.94	6588.77	-198.05	0.20	11.00	11.00	0.00	198.05
6700.00	57.20	179.94	6617.83	-238.71	0.24	11.00	11.00	0.00	238.71
6750.00	62.70	179.94	6642.85	-281.97	0.28	11.00	11.00	0.00	281.97
6800.00	68.20	179.94	6663.62	-327.44	0.33	11.00	11.00	0.00	327.44
6850.00	73.70	179.94	6679.93	-374.68	0.38	11.00	11.00	0.00	374.68
6900.00	79.20	179.94	6691.64	-423.27	0.43	11.00	11.00	0.00	423.27
6950.00	84.70	179.94	6698.64	-472.76	0.48	11.00	11.00	0.00	472.76
7002.04	90.42	179.94	6700.86	-524.73	0.53	11.00	11.00	0.00	524.73
7100.00	90.42	179.94	6700.13	-622.69	0.63	0.00	0.00	0.00	622.69
7200.00	90.42	179.94	6699.39	-722.68	0.73	0.00	0.00	0.00	722.68
7300.00	90.42	179.94	6698.65	-822.68	0.83	0.00	0.00	0.00	822.68
7400.00	90.42	179.94	6697.91	-922.68	0.93	0.00	0.00	0.00	922.68
7500.00	90.42	179.94	6697.17	-1022.67	1.03	0.00	0.00	0.00	1022.68
7600.00	90.42	179.94	6696.43	-1122.67	1.13	0.00	0.00	0.00	1122.67
7700.00	90.42	179.94	6695.69	-1222.67	1.23	0.00	0.00	0.00	1222.67
7800.00	90.42	179.94	6694.94	-1322.67	1.33	0.00	0.00	0.00	1322.67
7900.00	90.42	179.94	6694.20	-1422.66	1.43	0.00	0.00	0.00	1422.66
8000.00	90.42	179.94	6693.46	-1522.66	1.53	0.00	0.00	0.00	1522.66
8100.00	90.42	179.94	6692.72	-1622.66	1.63	0.00	0.00	0.00	1622.66
8200.00	90.42	179.94	6691.98	-1722.66	1.73	0.00	0.00	0.00	1722.66
8300.00	90.42	179.94	6691.24	-1822.65	1.83	0.00	0.00	0.00	1822.65

8400.00	90.42	179.94	6690.50	-1922.65	1.93	0.00	0.00	0.00	1922.65
8500.00	90.42	179.94	6689.76	-2022.65	2.04	0.00	0.00	0.00	2022.65
8600.00	90.42	179.94	6689.02	-2122.64	2.14	0.00	0.00	0.00	2122.65
8700.00	90.42	179.94	6688.28	-2222.64	2.24	0.00	0.00	0.00	2222.64
8800.00	90.42	179.94	6687.54	-2322.64	2.34	0.00	0.00	0.00	2322.64
8900.00	90.42	179.94	6686.80	-2422.64	2.44	0.00	0.00	0.00	2422.64
9000.00	90.42	179.94	6686.05	-2522.63	2.54	0.00	0.00	0.00	2522.63
9100.00	90.42	179.94	6685.31	-2622.63	2.64	0.00	0.00	0.00	2622.63
9200.00	90.42	179.94	6684.57	-2722.63	2.74	0.00	0.00	0.00	2722.63
9300.00	90.42	179.94	6683.83	-2822.62	2.84	0.00	0.00	0.00	2822.63
9400.00	90.42	179.94	6683.09	-2922.62	2.94	0.00	0.00	0.00	2922.62
9500.00	90.42	179.94	6682.35	-3022.62	3.04	0.00	0.00	0.00	3022.62
9600.00	90.42	179.94	6681.61	-3122.62	3.14	0.00	0.00	0.00	3122.62
9700.00	90.42	179.94	6680.87	-3222.61	3.24	0.00	0.00	0.00	3222.61
9800.00	90.42	179.94	6680.13	-3322.61	3.34	0.00	0.00	0.00	3322.61
9900.00	90.42	179.94	6679.39	-3422.61	3.44	0.00	0.00	0.00	3422.61
10000.00	90.42	179.94	6678.65	-3522.60	3.55	0.00	0.00	0.00	3522.61
10100.00	90.42	179.94	6677.91	-3622.60	3.65	0.00	0.00	0.00	3622.60
10200.00	90.42	179.94	6677.16	-3722.60	3.75	0.00	0.00	0.00	3722.60
10300.00	90.42	179.94	6676.42	-3822.60	3.85	0.00	0.00	0.00	3822.60
10400.00	90.42	179.94	6675.68	-3922.59	3.95	0.00	0.00	0.00	3922.60
10500.00	90.42	179.94	6674.94	-4022.59	4.05	0.00	0.00	0.00	4022.59
10600.00	90.42	179.94	6674.20	-4122.59	4.15	0.00	0.00	0.00	4122.59
10700.00	90.42	179.94	6673.46	-4222.59	4.25	0.00	0.00	0.00	4222.59
10800.00	90.42	179.94	6672.72	-4322.58	4.35	0.00	0.00	0.00	4322.58
10900.00	90.42	179.94	6671.98	-4422.58	4.45	0.00	0.00	0.00	4422.58
11000.00	90.42	179.94	6671.24	-4522.58	4.55	0.00	0.00	0.00	4522.58
11100.00	90.42	179.94	6670.50	-4622.57	4.65	0.00	0.00	0.00	4622.58
11200.00	90.42	179.94	6669.76	-4722.57	4.75	0.00	0.00	0.00	4722.57
11302.11	90.42	179.94	6669.00	-4824.68	4.86	0.00	0.00	0.00	4824.68