

30-015-43444



July 17, 2017

BOPCO, LP
(XTO Energy)
Well: Big Eddy Unit DI 5 24H (OH)
County/Parish: Eddy County, NM

LEAM MWD: (OH) from 8,736' MD – 21,254' MD
Projection: 21,406'

This Borehole Survey taken between 06/15/2017 and 07/13/2017 had been conducted and calculated according to the highest professional standards and complies with all known State and Federal requirements.

Reviewed and Approved:

Date: July 17, 2017



Survey Certification Form

State of New Mexico
Eddy County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Services, that I did on the day(s) of 06/15/2017 through 07/13/2017, conduct or supervise the taking of MWD Survey from a depth of 8,736' MD to 21,406' MD; that the data is true, correct, complete and within the limitations of the tools as set forth by LEAM Drilling Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of BOPCO, LP (XTO Energy) for the Big Eddy Unit DI5 24H (OH) in Eddy County, New Mexico; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Services.

A handwritten signature in black ink, appearing to read 'Randy W. Rakowitz', is written over a solid horizontal line.

Randy W. Rakowitz
MWD Operations Coordinator

LEAM Drilling Systems LLC

Survey Report

Company:	XTO Energy, Inc.	Local Co-ordinate Reference:	Well #24H
Project:	Eddy County, NM (NAD 27)	TVD Reference:	GE 3523' + 25.5' RKB @ 3548.50usft (NoRam #25)
Site:	Big Eddy Unit Drilling Island 5	MD Reference:	GE 3523' + 25.5' RKB @ 3548.50usft (NoRam #25)
Well:	#24H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 MULTI User DB

Project	Eddy County, NM (NAD 27)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Big Eddy Unit Drilling Island 5				
Site Position:		Northing:	562,648.55 usft	Latitude:	32° 32' 45.296 N
From:	Map	Easting:	647,698.32 usft	Longitude:	103° 51' 14.471 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.26 °

Well	#24H					
Well Position	+N/-S	0.00 usft	Northing:	562,648.55 usft	Latitude:	32° 32' 45.296 N
	+E/-W	0.00 usft	Easting:	647,698.32 usft	Longitude:	103° 51' 14.471 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,523.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/16/2017	7.32	60.45	48,342

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	8,699.50
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	89.57	

Survey Program	Date	7/18/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	1,440.00	Survey #1 (Pilot Hole)	LEAM MWD+HDGM	MWD+HDGM	
1,500.00	2,761.00	Survey #2 (Pilot Hole)	VES GyroFlex V2		
2,887.00	9,812.00	Survey #3 (Pilot Hole)	LEAM MWD+HDGM	MWD+HDGM	
8,736.0	21,254.00	Survey #1 (OH)	LEAM MWD+HDGM	MWD+HDGM	
21,406.00	21,406.00	Survey #2 (OH)	Project	Projection	

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)
8,704.00	0.90	324.00	8,701.46	0.82	-26.42	-26.41	0.00	0.00	0.00
8,736.00	2.10	64.00	8,733.45	1.28	-26.04	-26.03	7.58	3.75	312.50
8,766.00	5.50	74.60	8,763.38	1.90	-24.16	-24.14	11.52	11.33	35.33
8,797.00	8.70	79.30	8,794.14	2.73	-20.42	-20.40	10.48	10.32	15.16
8,829.00	11.70	75.30	8,825.63	4.01	-14.90	-14.87	9.63	9.38	-12.50

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Well: #24H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #24H
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MD Reference: GE 3523' + 25.5' RKB @ 3548.50usft (NoRam #25)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 MULTI User DB

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)
8,860.00	15.20	77.00	8,855.77	5.72	-7.90	-7.86	11.36	11.29	5.48
8,891.00	19.10	79.20	8,885.39	7.59	1.04	1.10	12.75	12.58	7.10
8,923.00	23.00	81.60	8,915.25	9.48	12.37	12.45	12.48	12.19	7.50
8,954.00	26.70	86.20	8,943.38	10.83	25.32	25.40	13.46	11.94	14.84
8,985.00	29.80	87.90	8,970.68	11.57	39.97	40.06	10.33	10.00	5.48
9,016.00	32.10	87.20	8,997.27	12.26	55.90	55.99	7.51	7.42	-2.26
9,047.00	34.50	87.40	9,023.18	13.06	72.90	72.99	7.75	7.74	0.65
9,079.00	36.60	88.10	9,049.21	13.78	91.49	91.59	6.68	6.56	2.19
9,110.00	38.30	88.80	9,073.82	14.29	110.33	110.43	5.65	5.48	2.26
9,142.00	40.10	90.60	9,098.62	14.39	130.55	130.66	6.65	5.63	5.63
9,174.00	42.10	91.60	9,122.73	13.98	151.58	151.68	6.58	6.25	3.13
9,205.00	43.40	92.20	9,145.49	13.29	172.61	172.71	4.39	4.19	1.94
9,237.00	44.70	91.60	9,168.49	12.55	194.85	194.94	4.27	4.06	-1.88
9,268.00	46.40	90.90	9,190.20	12.07	216.97	217.06	5.72	5.48	-2.26
9,300.00	48.90	89.90	9,211.76	11.91	240.62	240.70	8.15	7.81	-3.13
9,331.00	50.50	89.20	9,231.81	12.09	264.26	264.34	5.44	5.16	-2.26
9,363.00	52.10	88.60	9,251.81	12.58	289.23	289.31	5.21	5.00	-1.88
9,394.00	53.20	88.60	9,270.62	13.18	313.86	313.95	3.55	3.55	0.00
9,426.00	55.30	89.90	9,289.32	13.51	339.83	339.92	7.34	6.56	4.06
9,458.00	57.40	90.40	9,307.05	13.44	366.47	366.56	6.69	6.56	1.56
9,490.00	59.20	91.10	9,323.86	13.08	393.69	393.78	5.92	5.63	2.19
9,521.00	60.90	90.60	9,339.34	12.69	420.54	420.63	5.66	5.48	-1.61
9,553.00	62.70	90.20	9,354.46	12.49	448.74	448.83	5.73	5.63	-1.25
9,584.00	64.60	89.00	9,368.22	12.69	476.52	476.60	7.04	6.13	-3.87
9,616.00	66.50	88.50	9,381.46	13.32	505.64	505.73	6.11	5.94	-1.56
9,647.00	68.80	87.90	9,393.25	14.23	534.30	534.39	7.63	7.42	-1.94
9,679.00	70.30	89.00	9,404.43	15.03	564.27	564.37	5.69	4.69	3.44
9,710.00	72.20	89.90	9,414.39	15.32	593.62	593.72	6.72	6.13	2.90
9,742.00	72.80	90.00	9,424.02	15.34	624.14	624.24	1.90	1.88	0.31
9,774.00	74.70	89.70	9,432.97	15.42	654.86	654.96	6.01	5.94	-0.94
9,805.00	75.90	90.20	9,440.84	15.45	684.84	684.94	4.17	3.87	1.61
9,837.00	77.80	90.20	9,448.12	15.34	716.00	716.10	5.94	5.94	0.00
9,870.00	79.60	90.00	9,454.58	15.28	748.36	748.46	5.49	5.45	-0.61
9,964.00	85.70	88.80	9,466.60	16.27	841.54	841.64	6.61	6.49	-1.28
10,060.00	89.40	87.60	9,470.71	19.28	937.39	937.50	4.05	3.85	-1.25
10,154.00	90.40	87.20	9,470.87	23.54	1,031.29	1,031.43	1.15	1.06	-0.43
10,249.00	86.40	90.80	9,473.52	25.20	1,126.20	1,126.36	5.66	-4.21	3.79
10,344.00	86.80	90.90	9,479.16	23.80	1,221.02	1,221.17	0.43	0.42	0.11
10,439.00	87.80	90.40	9,483.63	22.72	1,315.91	1,316.04	1.18	1.05	-0.53
10,533.00	88.90	89.90	9,486.34	22.47	1,409.87	1,410.00	1.29	1.17	-0.53
10,628.00	87.70	91.10	9,489.16	21.65	1,504.82	1,504.94	1.79	-1.26	1.26
10,722.00	88.50	91.30	9,492.27	19.68	1,598.75	1,598.85	0.88	0.85	0.21

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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 MULTI User DB

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)
10,817.00	87.70	90.90	9,495.42	17.86	1,693.68	1,693.76	0.94	-0.84	-0.42
10,911.00	88.50	90.90	9,498.54	16.38	1,787.61	1,787.68	0.85	0.85	0.00
11,006.00	85.90	90.60	9,503.18	15.14	1,882.48	1,882.54	2.75	-2.74	-0.32
11,101.00	86.40	89.70	9,509.56	14.89	1,977.27	1,977.32	1.08	0.53	-0.95
11,196.00	88.50	87.90	9,513.79	16.88	2,072.14	2,072.21	2.91	2.21	-1.89
11,291.00	90.40	87.60	9,514.70	20.61	2,167.06	2,167.15	2.02	2.00	-0.32
11,386.00	89.70	87.20	9,514.62	24.92	2,261.96	2,262.08	0.85	-0.74	-0.42
11,480.00	87.80	86.50	9,516.67	30.08	2,355.79	2,355.95	2.15	-2.02	-0.74
11,575.00	88.00	85.50	9,520.15	36.70	2,450.50	2,450.70	1.07	0.21	-1.05
11,670.00	89.20	86.40	9,522.47	43.41	2,545.23	2,545.48	1.58	1.26	0.95
11,765.00	90.80	87.60	9,522.47	48.38	2,640.09	2,640.38	2.11	1.68	1.26
11,860.00	92.40	89.90	9,519.82	50.45	2,735.02	2,735.32	2.95	1.68	2.42
11,954.00	91.80	91.50	9,516.37	49.31	2,828.95	2,829.24	1.82	-0.64	1.70
12,049.00	89.80	90.80	9,515.04	47.40	2,923.92	2,924.19	2.23	-2.11	-0.74
12,144.00	88.20	90.60	9,516.70	46.24	3,018.89	3,019.15	1.70	-1.68	-0.21
12,238.00	89.10	89.90	9,518.92	45.83	3,112.86	3,113.12	1.21	0.96	-0.74
12,333.00	89.90	89.00	9,519.75	46.74	3,207.85	3,208.11	1.27	0.84	-0.95
12,428.00	88.90	89.20	9,520.74	48.23	3,302.83	3,303.10	1.07	-1.05	0.21
12,524.00	90.00	89.20	9,521.66	49.57	3,398.82	3,399.10	1.15	1.15	0.00
12,641.00	90.00	90.40	9,521.66	49.98	3,515.82	3,516.09	1.03	0.00	1.03
12,737.00	88.50	90.60	9,522.92	49.14	3,611.80	3,612.07	1.58	-1.56	0.21
12,832.00	89.70	90.00	9,524.41	48.65	3,706.79	3,707.05	1.41	1.26	-0.63
12,926.00	88.60	90.60	9,525.81	48.16	3,800.77	3,801.03	1.33	-1.17	0.64
13,021.00	89.30	89.90	9,527.55	47.74	3,895.76	3,896.00	1.04	0.74	-0.74
13,116.00	88.30	90.00	9,529.54	47.82	3,990.73	3,990.98	1.06	-1.05	0.11
13,210.00	86.80	89.90	9,533.55	47.91	4,084.64	4,084.89	1.60	-1.60	-0.11
13,305.00	86.30	88.80	9,539.27	48.98	4,179.46	4,179.71	1.27	-0.53	-1.16
13,400.00	87.00	87.90	9,544.82	51.71	4,274.26	4,274.53	1.20	0.74	-0.95
13,495.00	87.80	87.60	9,549.13	55.44	4,369.09	4,369.38	0.90	0.84	-0.32
13,590.00	89.20	88.60	9,551.62	58.59	4,464.00	4,464.31	1.81	1.47	1.05
13,684.00	88.50	90.40	9,553.51	59.41	4,557.97	4,558.29	2.05	-0.74	1.91
13,779.00	89.40	90.60	9,555.25	58.58	4,652.95	4,653.26	0.97	0.95	0.21
13,875.00	90.70	90.40	9,555.16	57.74	4,748.95	4,749.25	1.37	1.35	-0.21
13,970.00	92.90	89.50	9,552.18	57.82	4,843.89	4,844.19	2.50	2.32	-0.95
14,065.00	90.90	89.70	9,549.03	58.49	4,938.83	4,939.13	2.12	-2.11	0.21
14,160.00	89.50	90.60	9,548.70	58.24	5,033.83	5,034.13	1.75	-1.47	0.95
14,255.00	90.80	89.70	9,548.45	57.99	5,128.83	5,129.12	1.66	1.37	-0.95
14,350.00	90.50	90.00	9,547.37	58.24	5,223.82	5,224.11	0.45	-0.32	0.32
14,445.00	89.20	90.90	9,547.62	57.49	5,318.81	5,319.10	1.66	-1.37	0.95
14,540.00	88.60	90.60	9,549.44	56.25	5,413.79	5,414.06	0.71	-0.63	-0.32
14,634.00	89.40	89.50	9,551.08	56.17	5,507.77	5,508.04	1.45	0.85	-1.17
14,729.00	88.50	89.30	9,552.82	57.16	5,602.75	5,603.02	0.97	-0.95	-0.21

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Design: OH

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14,825.00	88.40	88.50	9,555.42	59.00	5,698.70	5,698.98	0.84	-0.10	-0.83
14,919.00	89.90	88.80	9,556.82	61.22	5,792.66	5,792.95	1.63	1.60	0.32
15,014.00	90.30	90.60	9,556.65	61.71	5,887.65	5,887.95	1.94	0.42	1.89
15,109.00	87.30	92.00	9,558.64	59.56	5,982.59	5,982.87	3.48	-3.16	1.47
15,204.00	89.00	92.00	9,561.71	56.25	6,077.48	6,077.73	1.79	1.79	0.00
15,299.00	89.00	90.90	9,563.36	53.84	6,172.43	6,172.66	1.16	0.00	-1.16
15,394.00	90.50	90.20	9,563.78	52.93	6,267.43	6,267.65	1.74	1.58	-0.74
15,489.00	89.00	90.40	9,564.19	52.43	6,362.42	6,362.64	1.59	-1.58	0.21
15,584.00	88.20	89.50	9,566.51	52.52	6,457.39	6,457.60	1.27	-0.84	-0.95
15,678.00	88.90	88.50	9,568.89	54.16	6,551.34	6,551.57	1.30	0.74	-1.06
15,774.00	90.40	87.90	9,569.48	57.17	6,647.29	6,647.53	1.68	1.56	-0.63
15,880.00	89.70	89.20	9,569.39	59.85	6,753.26	6,753.51	1.39	-0.66	1.23
15,975.00	89.80	87.90	9,569.80	62.26	6,848.22	6,848.50	1.37	0.11	-1.37
16,070.00	90.00	87.80	9,569.97	65.82	6,943.16	6,943.45	0.24	0.21	-0.11
16,165.00	89.50	87.90	9,570.38	69.39	7,038.09	7,038.41	0.54	-0.53	0.11
16,260.00	88.50	89.50	9,572.04	71.54	7,133.04	7,133.38	1.99	-1.05	1.68
16,355.00	89.40	93.00	9,573.78	69.47	7,227.99	7,228.31	3.80	0.95	3.68
16,450.00	88.90	93.20	9,575.19	64.33	7,322.84	7,323.12	0.57	-0.53	0.21
16,544.00	89.30	91.60	9,576.67	60.40	7,416.74	7,416.99	1.75	0.43	-1.70
16,639.00	89.50	89.50	9,577.66	59.48	7,511.73	7,511.96	2.22	0.21	-2.21
16,733.00	90.70	87.90	9,577.50	61.62	7,605.70	7,605.95	2.13	1.28	-1.70
16,828.00	90.80	89.50	9,576.25	63.77	7,700.66	7,700.92	1.69	0.11	1.68
16,923.00	89.70	91.50	9,575.84	62.94	7,795.65	7,795.90	2.40	-1.16	2.11
17,017.00	89.60	90.40	9,576.41	61.38	7,889.64	7,889.87	1.18	-0.11	-1.17
17,112.00	89.60	90.40	9,577.08	60.72	7,984.63	7,984.86	0.00	0.00	0.00
17,207.00	89.60	90.60	9,577.74	59.89	8,079.63	8,079.85	0.21	0.00	0.21
17,302.00	88.50	91.60	9,579.32	58.07	8,174.59	8,174.80	1.56	-1.16	1.05
17,396.00	86.80	92.30	9,583.17	54.87	8,268.45	8,268.63	1.96	-1.81	0.74
17,491.00	89.90	90.60	9,585.91	52.47	8,363.37	8,363.53	3.72	3.26	-1.79
17,586.00	91.80	89.90	9,584.50	52.06	8,458.35	8,458.51	2.13	2.00	-0.74
17,680.00	91.20	89.70	9,582.04	52.39	8,552.32	8,552.47	0.67	-0.64	-0.21
17,775.00	92.20	88.80	9,579.22	53.63	8,647.27	8,647.43	1.42	1.05	-0.95
17,870.00	91.30	88.60	9,576.32	55.78	8,742.20	8,742.37	0.97	-0.95	-0.21
17,964.00	89.40	87.90	9,575.74	58.65	8,836.15	8,836.34	2.15	-2.02	-0.74
18,059.00	88.20	87.60	9,577.73	62.38	8,931.05	8,931.27	1.30	-1.26	-0.32
18,153.00	89.30	87.10	9,579.78	66.73	9,024.93	9,025.17	1.29	1.17	-0.53
18,247.00	89.90	87.60	9,580.44	71.07	9,118.82	9,119.10	0.83	0.64	0.53
18,342.00	89.60	87.90	9,580.85	74.80	9,213.75	9,214.05	0.45	-0.32	0.32
18,437.00	89.50	88.30	9,581.60	77.95	9,308.69	9,309.02	0.43	-0.11	0.42
18,531.00	88.80	88.80	9,582.99	80.33	9,402.65	9,402.99	0.92	-0.74	0.53
18,626.00	90.00	89.00	9,583.99	82.15	9,497.63	9,497.98	1.28	1.26	0.21
18,720.00	90.40	90.00	9,583.66	82.97	9,591.62	9,591.98	1.15	0.43	1.06

LEAM Drilling Systems LLC

Survey Report

Company: XTO Energy, Inc.
Project: Eddy County, NM (NAD 27)
Site: Big Eddy Unit Drilling Island 5
Well: #24H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #24H
TVD Reference: GE 3523' + 25.5' RKB @ 3548.50usft (NoRam #25)
MD Reference: GE 3523' + 25.5' RKB @ 3548.50usft (NoRam #25)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 MULTI User DB

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)
18,814.00	91.40	90.80	9,582.18	82.32	9,685.61	9,685.95	1.36	1.06	0.85
18,908.00	91.70	91.80	9,579.64	80.19	9,779.55	9,779.87	1.11	0.32	1.06
19,009.00	91.80	91.50	9,576.56	77.28	9,880.46	9,880.76	0.31	0.10	-0.30
19,103.00	92.50	91.30	9,573.03	74.98	9,974.36	9,974.64	0.77	0.74	-0.21
19,192.00	93.50	91.50	9,568.37	72.81	10,063.21	10,063.48	1.15	1.12	0.22
19,286.00	94.40	90.90	9,561.90	70.85	10,156.97	10,157.21	1.15	0.96	-0.64
19,368.00	92.10	90.40	9,557.25	69.92	10,238.83	10,239.06	2.87	-2.80	-0.61
19,462.00	89.20	90.00	9,556.18	69.59	10,332.81	10,333.04	3.11	-3.09	-0.43
19,557.00	89.20	89.50	9,557.51	70.01	10,427.80	10,428.03	0.53	0.00	-0.53
19,652.00	89.80	89.70	9,558.34	70.67	10,522.79	10,523.03	0.67	0.63	0.21
19,746.00	89.30	90.00	9,559.08	70.92	10,616.79	10,617.02	0.62	-0.53	0.32
19,840.00	89.30	90.00	9,560.22	70.92	10,710.78	10,711.01	0.00	0.00	0.00
19,935.00	89.30	89.00	9,561.38	71.75	10,805.77	10,806.00	1.05	0.00	-1.05
20,029.00	89.80	88.80	9,562.12	73.55	10,899.75	10,899.99	0.57	0.53	-0.21
20,123.00	89.00	89.30	9,563.11	75.11	10,993.73	10,993.98	1.00	-0.85	0.53
20,217.00	89.60	89.50	9,564.26	76.09	11,087.72	11,087.98	0.67	0.64	0.21
20,310.00	88.40	89.30	9,565.88	77.07	11,180.70	11,180.96	1.31	-1.29	-0.22
20,405.00	89.00	88.80	9,568.03	78.64	11,275.66	11,275.93	0.82	0.63	-0.53
20,498.00	89.90	89.00	9,568.93	80.43	11,368.63	11,368.92	0.99	0.97	0.22
20,593.00	88.90	88.50	9,569.92	82.50	11,463.61	11,463.90	1.18	-1.05	-0.53
20,687.00	89.60	88.60	9,571.15	84.88	11,557.57	11,557.88	0.75	0.74	0.11
20,781.00	88.50	88.50	9,572.71	87.26	11,651.52	11,651.85	1.18	-1.17	-0.11
20,876.00	89.00	88.80	9,574.78	89.49	11,746.47	11,746.81	0.61	0.53	0.32
20,971.00	89.90	89.00	9,575.69	91.32	11,841.45	11,841.80	0.97	0.95	0.21
21,065.00	90.70	89.00	9,575.20	92.96	11,935.43	11,935.80	0.85	0.85	0.00
21,159.00	91.40	89.00	9,573.48	94.60	12,029.40	12,029.77	0.74	0.74	0.00
21,254.00	92.80	89.00	9,570.00	96.25	12,124.32	12,124.70	1.47	1.47	0.00
21,406.00	92.80	89.00	9,562.57	98.90	12,276.12	12,276.51	0.00	0.00	0.00

Projection