



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State

#310H

OH

Design: OH

Midland PVA

20 June, 2018



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #310H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3345.0usft (H&P 424)	
Site: Condor 32 State		MD Reference: KB = 25 @ 3345.0usft (H&P 424)	
Well: #310H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		Database: EDM 5000.14	

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

Site Condor 32 State			
Site Position:	From: Map	Northing: 398,890.00 usft	Latitude: 32° 5' 37.669 N
		Easting: 803,604.00 usft	Longitude: 103° 29' 11.148 W
Position Uncertainty: 0.0 usft		Slot Radius: 13-3/16 "	Grid Convergence: 0.45 °

Well #310H			
Well Position	+N-S 0.0 usft	Northing: 398,193.00 usft	Latitude: 32° 5' 30.916 N
	+E-W 0.0 usft	Easting: 801,748.00 usft	Longitude: 103° 29' 32.785 W
Position Uncertainty 0.0 usft		Wellhead Elevation: usft	Ground Level: 3,320.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/25/2018	6.81	59.94	47,780.85550859

Design OH				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.0	0.0	0.0	172.58



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Design:	OH	Database:	EDM 5000.14

Survey Program		Date 6/20/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
167.0	958.0	Invicta MWD (OH)	MWD	OWSG MWD - Standard
1,002.0	15,324.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Flight to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
167.0	1.00	122.10	167.0	-0.8	1.2	0.60	0.60	0.00	0.0	0.0
287.0	1.20	125.80	287.0	-2.1	3.1	0.18	0.17	3.08	0.0	0.0
413.0	1.30	115.10	412.9	-3.4	5.5	0.20	0.08	-8.49	0.0	0.0
540.0	1.20	106.40	539.9	-4.4	8.1	0.17	-0.08	-6.85	0.0	0.0
791.0	1.00	104.80	790.9	-5.7	12.7	0.08	-0.08	-0.64	0.0	0.0
958.0	0.70	87.80	957.8	-6.1	15.2	0.23	-0.18	-10.18	0.0	0.0
1,002.0	0.60	94.40	1,001.8	-6.1	15.7	0.28	-0.23	15.00	-0.3	0.0
1,092.0	0.90	310.60	1,091.8	-5.6	15.6	1.59	0.33	-159.78	-0.1	-0.5
1,242.0	1.00	312.90	1,241.8	-4.0	13.7	0.07	0.07	1.53	-2.6	-0.4
1,424.0	0.90	287.40	1,423.8	-2.5	11.2	0.24	-0.05	-14.01	-5.0	-2.2
1,608.0	1.20	283.20	1,607.8	-1.6	7.9	0.17	0.16	-2.28	-8.2	-2.6
1,797.0	0.70	269.00	1,796.7	-1.2	4.9	0.29	-0.26	-7.51	-10.4	-5.1
1,985.0	0.40	161.80	1,984.7	-1.8	3.9	0.48	-0.16	-57.02	7.6	-9.5
2,175.0	0.60	131.60	2,174.7	-3.1	4.9	0.17	0.11	-15.89	9.8	-4.8
2,362.0	0.60	136.80	2,361.7	-4.5	6.3	0.03	0.00	2.78	7.4	-5.5
2,550.0	0.70	131.40	2,549.7	-6.0	7.8	0.06	0.05	-2.87	5.7	-4.9
2,739.0	0.90	122.00	2,738.7	-7.5	9.9	0.13	0.11	-4.97	3.8	-4.1
2,928.0	1.40	112.60	2,927.6	-9.2	13.3	0.28	0.26	-4.97	0.7	-3.7
3,117.0	4.50	42.60	3,116.4	-4.6	20.5	2.24	1.64	-37.04	-2.2	-3.3
3,305.0	6.10	34.60	3,303.6	9.0	31.1	0.94	0.85	-4.26	-5.3	-6.0



Midland PVA

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 Site: Condor 32 State
 Well: #310H
 Wellbore: OH
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Local Co-ordinate Reference: Well #310H
 TVD Reference: KB = 25 @ 3345.0usft (H&P 424)
 MD Reference: KB = 25 @ 3345.0usft (H&P 424)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,493.0	6.90	14.70	3,490.4	28.2	39.7	1.26	0.43	-10.59	1.7	-4.4	
3,682.0	5.90	46.70	3,678.3	45.8	49.6	1.93	-0.53	16.93	15.1	-9.9	
3,870.0	6.20	34.30	3,865.2	60.9	62.4	0.71	0.16	-6.60	35.6	-12.1	
4,059.0	6.90	34.70	4,053.0	78.6	74.6	0.37	0.37	0.21	52.5	-16.1	
4,248.0	6.80	33.40	4,240.7	97.3	87.2	0.10	-0.05	-0.69	68.9	-18.1	
4,436.0	5.30	20.40	4,427.6	114.7	96.4	1.08	-0.80	-6.91	89.7	0.7	
4,624.0	5.10	28.00	4,614.8	130.2	103.3	0.38	-0.11	4.04	110.6	-9.2	
4,812.0	5.40	29.00	4,802.1	145.4	111.5	0.17	0.16	0.53	131.7	-10.9	
5,001.0	6.00	26.90	4,990.1	161.9	120.3	0.34	0.32	-1.11	151.9	-5.1	
5,145.0	5.90	19.90	5,133.3	175.6	126.3	0.51	-0.07	-4.86	165.7	16.9	
5,269.0	6.90	12.30	5,256.6	188.9	130.0	1.06	0.81	-6.13	172.6	44.6	
5,458.0	10.10	30.50	5,443.5	214.3	140.8	2.19	1.69	9.63	189.3	-8.0	
5,646.0	14.00	25.80	5,627.3	249.0	159.1	2.14	2.07	-2.50	188.3	8.0	
5,835.0	18.90	32.20	5,808.6	295.5	185.4	2.76	2.59	3.39	172.7	-12.3	
6,023.0	18.40	30.30	5,986.7	346.9	216.6	0.42	-0.27	-1.01	150.4	-8.6	
6,212.0	17.30	28.10	6,166.6	397.4	244.9	0.68	-0.58	-1.16	130.6	-3.4	
6,401.0	20.00	34.40	6,345.7	448.9	276.4	1.78	1.43	3.33	106.7	-18.1	
6,589.0	19.50	34.20	6,522.6	501.4	312.2	0.27	-0.27	-0.11	80.4	-21.3	
6,777.0	19.80	31.50	6,699.7	554.5	346.5	0.51	0.16	-1.44	55.5	-20.7	
6,966.0	18.30	24.80	6,878.3	608.7	375.6	1.40	-0.79	-3.54	33.6	-15.1	
7,154.0	17.30	23.30	7,057.3	661.2	399.1	0.59	-0.53	-0.80	14.0	-11.2	
7,342.0	15.60	21.40	7,237.6	710.4	419.4	0.95	-0.90	-1.01	-1.3	-6.6	
7,531.0	13.80	22.40	7,420.4	754.9	437.2	0.96	-0.95	0.53	-11.4	-1.8	
7,719.0	9.80	14.60	7,604.4	791.1	449.8	2.29	-2.13	-4.15	-16.4	1.6	
7,908.0	5.40	11.00	7,791.7	815.4	455.6	2.34	-2.33	-1.90	-24.5	5.5	
8,096.0	1.00	204.80	7,979.5	822.6	456.6	3.39	-2.34	-88.40	21.9	-13.9	
8,285.0	1.20	199.10	8,168.5	819.3	455.2	0.12	0.11	-3.02	19.5	-11.8	



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Well:	#310H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EAW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,473.0	0.90	150.40	8,356.4	816.1	455.3	0.48	-0.16	-25.90	18.9	5.4	
8,662.0	1.00	286.50	8,545.4	815.3	454.5	0.93	0.05	72.01	-10.5	-16.0	
8,850.0	1.20	280.30	8,733.4	816.1	450.9	0.12	0.11	-3.30	-12.3	-17.2	
9,039.0	1.20	168.80	8,922.4	814.5	449.4	1.05	0.00	-58.99	19.3	-7.0	
9,228.0	0.80	173.00	9,111.3	811.3	449.9	0.22	-0.21	2.22	15.4	-8.3	
9,416.0	0.50	179.30	9,299.3	809.2	450.1	0.16	-0.16	3.35	12.3	-9.8	
9,605.0	0.50	13.80	9,488.3	809.1	450.3	0.52	0.00	-87.57	-9.5	12.3	
9,793.0	1.60	347.20	9,676.3	812.5	449.9	0.62	0.59	-14.15	-17.3	6.4	
9,823.0	1.70	338.90	9,706.3	813.3	449.7	0.88	0.33	-27.67	-18.9	3.8	
9,901.0	0.40	294.50	9,784.2	814.5	449.0	1.85	-1.67	-56.92	-17.3	-11.4	
9,995.0	6.70	173.90	9,878.0	809.2	449.3	7.35	6.70	-128.30	13.7	-9.4	
10,089.0	15.10	170.40	9,970.3	791.6	451.9	8.98	8.94	-3.72	7.6	-8.9	
10,183.0	25.50	170.80	10,058.3	759.5	457.2	11.06	11.06	0.43	0.4	-8.0	
10,277.0	32.60	170.40	10,140.4	714.5	464.7	7.56	7.55	-0.43	-5.7	-9.1	
10,371.0	44.40	172.80	10,213.9	656.7	473.0	12.65	12.55	2.55	-12.3	-10.1	
10,465.0	54.20	182.10	10,275.2	585.7	475.8	12.82	10.43	9.89	-22.3	-15.5	
10,559.0	66.30	179.40	10,321.7	504.3	474.8	13.11	12.87	-2.87	-32.6	-25.7	
10,579.5	68.72	177.58	10,329.6	485.3	475.3	14.34	11.77	-8.86	-35.1	-27.4	
FTP Crossing 10579.5' MD; 10329.6' TVD; 485.3'; 475.3'; 68.72											
10,653.0	77.50	171.50	10,350.9	415.4	482.1	14.34	11.96	-8.28	-45.3	-27.3	
10,747.0	77.70	170.60	10,371.1	324.8	496.4	0.96	0.21	-0.96	-53.2	-16.7	
10,842.0	78.60	176.90	10,390.6	232.4	506.5	6.56	0.95	6.63	-45.0	-7.4	
10,936.0	80.60	178.60	10,407.6	140.0	510.1	2.77	2.13	1.81	-28.9	-4.4	
11,030.0	82.40	178.30	10,421.5	47.1	512.6	1.94	1.91	-0.32	-15.7	-2.5	
11,124.0	85.20	178.60	10,431.7	-46.3	515.2	3.00	2.98	0.32	-6.2	-0.7	
11,218.0	88.90	179.40	10,436.5	-140.2	516.8	4.03	3.94	0.85	-2.1	0.3	
11,312.0	89.70	179.40	10,437.6	-234.2	517.8	0.85	0.85	0.00	-1.6	0.5	



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Site:	Condor 32 State	MD Reference:	KB = 25 @ 3345.0usft (H&P 424)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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11,406.0	90.40	180.20	10,437.6	-328.2	518.1	1.13	0.74	0.85	-2.4		0.2
11,500.0	88.80	178.90	10,438.2	-422.1	518.8	2.19	-1.70	-1.38	-2.4		0.2
11,594.0	88.60	178.80	10,440.3	-516.1	520.7	0.24	-0.21	-0.11	-1.0		1.4
11,689.0	89.00	179.10	10,442.3	-611.1	522.5	0.53	0.42	0.32	0.3		2.4
11,783.0	89.40	179.60	10,443.6	-705.1	523.5	0.68	0.43	0.53	1.0		2.8
11,877.0	90.10	180.10	10,444.1	-799.1	523.8	0.92	0.74	0.53	0.7		2.3
11,972.0	91.00	180.10	10,443.1	-894.0	523.6	0.95	0.95	0.00	-0.9		1.4
12,066.0	89.80	179.60	10,442.5	-988.0	523.9	1.38	-1.28	-0.53	-2.3		1.0
12,160.0	90.30	179.40	10,442.4	-1,082.0	524.7	0.57	0.53	-0.21	-3.1		1.1
12,255.0	91.10	180.70	10,441.2	-1,177.0	524.6	1.61	0.84	1.37	-5.1		0.3
12,349.0	89.20	179.90	10,441.0	-1,271.0	524.1	2.19	-2.02	-0.85	-6.2		-0.9
12,443.0	89.30	180.30	10,442.2	-1,365.0	523.9	0.44	0.11	0.43	-5.7		-1.8
12,537.0	87.70	179.90	10,444.7	-1,459.0	523.8	1.75	-1.70	-0.43	-4.1		-2.7
12,631.0	88.20	179.90	10,448.1	-1,552.9	523.9	0.53	0.53	0.00	-1.5		-3.2
12,725.0	88.30	179.80	10,450.9	-1,646.9	524.2	0.15	0.11	-0.11	0.5		-3.7
12,820.0	87.70	179.30	10,454.2	-1,741.8	524.9	0.82	-0.63	-0.53	3.0		-3.6
12,914.0	89.10	179.00	10,456.9	-1,835.8	526.3	1.52	1.49	-0.32	4.8		-2.8
13,008.0	89.50	179.00	10,458.0	-1,929.7	528.0	0.43	0.43	0.00	5.2		-2.0
13,102.0	89.90	179.00	10,458.5	-2,023.7	529.6	0.43	0.43	0.00	5.0		-1.1
13,197.0	90.20	179.10	10,458.4	-2,118.7	531.2	0.33	0.32	0.11	4.2		-0.2
13,291.0	90.00	178.70	10,458.3	-2,212.7	533.0	0.48	-0.21	-0.43	3.4		0.9
13,385.0	90.00	177.90	10,458.3	-2,306.6	535.8	0.85	0.00	-0.85	2.8		3.0
13,479.0	90.20	177.20	10,458.1	-2,400.6	539.8	0.77	0.21	-0.74	1.9		6.3
13,573.0	90.60	177.40	10,457.4	-2,494.5	544.2	0.48	0.43	0.21	0.6		10.0
13,667.0	89.70	178.50	10,457.2	-2,588.4	547.6	1.51	-0.96	1.17	-0.3		12.7
13,761.0	89.80	178.50	10,457.6	-2,682.4	550.0	0.11	0.11	0.00	-0.5		14.4
13,856.0	90.10	179.70	10,457.7	-2,777.3	551.5	1.30	0.32	1.26	-1.1		15.2



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13,950.0	88.20	180.80	10,459.1	-2,871.3	551.1	2.34	-2.02	1.17	-0.3	14.1	
14,044.0	88.30	180.60	10,461.9	-2,965.3	550.0	0.24	0.11	-0.21	1.9	12.2	
14,138.0	88.70	180.60	10,464.4	-3,059.2	549.0	0.43	0.43	0.00	3.6	10.5	
14,232.0	89.00	181.10	10,466.3	-3,153.2	547.6	0.62	0.32	0.53	4.7	8.4	
14,327.0	89.20	181.20	10,467.8	-3,248.2	545.7	0.24	0.21	0.11	5.5	5.8	
14,421.0	89.40	181.30	10,468.9	-3,342.1	543.6	0.24	0.21	0.11	5.9	3.1	
14,515.0	89.60	181.40	10,469.8	-3,436.1	541.4	0.24	0.21	0.11	5.9	0.2	
14,609.0	88.70	180.20	10,471.1	-3,530.1	540.1	1.60	-0.96	-1.28	6.6	-1.9	
14,703.0	88.90	180.40	10,473.1	-3,624.1	539.6	0.30	0.21	0.21	7.8	-3.1	
14,798.0	89.00	180.40	10,474.9	-3,719.1	539.0	0.11	0.11	0.00	8.8	-4.4	
14,891.0	89.20	181.10	10,476.3	-3,812.0	537.7	0.78	0.22	0.75	9.5	-6.4	
14,986.0	88.90	180.80	10,477.9	-3,907.0	536.2	0.45	-0.32	-0.32	10.3	-8.6	
15,080.0	88.90	180.00	10,479.7	-4,001.0	535.5	0.85	0.00	-0.85	11.1	-10.0	
15,174.0	89.40	180.60	10,481.1	-4,095.0	535.0	0.83	0.53	0.64	10.0	-11.2	
15,178.3	89.42	180.61	10,481.1	-4,099.3	535.0	0.50	0.44	0.22	9.9	-11.3	
LTP Crossing 15178.3' MD; 10481.1' TVD; -4099.3'; 535.0'; 89.42											
15,264.0	89.80	180.80	10,481.7	-4,185.0	533.9	0.50	0.44	0.22	8.1	-13.0	
Last MWD Survey (MD = 15264.0)											
15,324.0	89.80	180.80	10,481.9	-4,245.0	533.1	0.00	0.00	0.00	24.6	-42.0	
Projection to Bit (MD = 15324.0)											



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #310H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Site:	Condor 32 State	MD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Well:	#310H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,579.5	10,329.6	485.3	475.3	FTP Crossing 10579.5' MD; 10329.6' TVD; 485.3'; 475.3'; 68.72
15,178.3	10,481.1	-4,099.3	535.0	LTP Crossing 15178.3' MD; 10481.1' TVD; -4099.3'; 535.0'; 89.42
15,264.0	10,481.7	-4,185.0	533.9	Last MWD Survey (MD = 15264.0)
15,324.0	10,481.9	-4,245.0	533.1	Projection to Bit (MD = 15324.0)

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Condor 32 State #310H

H&P 424

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #310H

KB = 25 @ 3345.0usft (H&P 424) 3320.0
Northing 398193.00 Easting 801746.00 Latitude 32° 5' 30.918 N Longitude 103° 29' 32.785 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	958.0	0.70	87.80	957.8	-6.1	15.2	0.00	0.00	8.0	
2	983.0	0.00	0.00	982.8	-6.1	15.4	2.00	180.00	8.0	
3	3000.2	0.00	0.00	3000.0	-6.1	15.4	0.00	0.00	8.0	
4	3587.8	11.75	28.87	3583.5	46.5	44.5	2.00	28.87	-40.3	
5	7504.9	11.75	28.87	7418.5	744.5	430.9	0.00	0.00	-682.6	
6	8092.5	0.00	0.00	8002.0	797.0	460.0	2.00	180.00	-730.9	Brushy Top (Condor 32 State #310H)
7	9945.1	0.00	0.00	9854.6	797.0	460.0	0.00	0.00	-730.9	
8	10352.0	40.31	170.42	10228.8	661.6	482.9	9.91	170.42	-593.7	
9	10855.7	89.58	179.57	10435.9	220.9	513.8	9.91	12.00	-152.7	
10	12097.7	89.58	179.57	10445.0	-1021.0	523.1	0.00	0.00	1080.0	TGT #1 (Condor 32 State #310H)
11	12101.4	89.51	179.57	10445.0	-1024.7	523.2	2.00	180.00	1083.7	TGT #2 (Condor 32 State #310H)
12	13024.5	89.51	179.57	10453.0	-1947.8	530.1	0.00	0.00	2000.0	TGT #3 (Condor 32 State #310H)
13	13029.4	89.60	179.57	10453.0	-1952.6	530.1	2.00	0.00	2004.8	TGT #4 (Condor 32 State #310H)
14	14032.1	89.60	179.57	10460.0	-2955.3	537.7	0.00	0.00	3000.0	
15	14034.9	89.54	179.57	10460.0	-2958.2	537.7	2.00	-180.00	3002.8	
16	15039.6	89.54	179.57	10468.0	-3962.8	545.2	0.00	0.00	4000.0	
17	15096.5	88.41	179.57	10469.0	-4019.6	545.7	2.00	-180.00	4056.4	
18	15275.9	88.41	179.57	10474.0	-4199.0	547.0	0.00	0.00	4234.5	PBHL (Condor 32 State #310H)

To convert a Magnetic Direction to a Grid Direction, Add 6.37°
To convert a Magnetic Direction to a True Direction, Add 6.81° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top (Condor 32 State #310H)	8002.0	797.0	460.0	398990.00	802208.00
TGT #1 (Condor 32 State #310H)	10437.0	517.0	908.0	398710.00	802256.00
TGT #2 (Condor 32 State #310H)	10445.0	-1021.0	823.1	397172.00	802271.16
TGT #3 (Condor 32 State #310H)	10453.0	-1947.8	530.1	396248.20	802276.10
TGT #4 (Condor 32 State #310H)	10460.0	-2955.3	537.7	395237.70	802286.47
PBHL (Condor 32 State #310H)	10468.0	-3962.8	545.2	394230.20	802291.23
	10474.0	-4199.0	547.0	393994.00	802295.00

