

HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hearns 34 State

#405H

OH

Design: OH

Final PVA Report

02 May, 2019



Final PVA Report

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Hearn 34 State Well: #405H Wellbore: OH Design: OH		Local Co-ordinate Reference: Well #405H TVD Reference: KB = 25 @ 3510.0usft MD Reference: KB = 25 @ 3510.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14	
Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level	
Site Hearn 34 State			
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 425,605.00 usft Easting: 782,931.00 usft Slot Radius: 13-3/16 "	
		Latitude: 32° 10' 3.565 N Longitude: 103° 33' 9.201 W Grid Convergence: 0.42 "	
Well #405H			
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 425,605.00 usft Easting: 782,931.00 usft Wellhead Elevation: usft	
		Latitude: 32° 10' 3.565 N Longitude: 103° 33' 9.201 W Ground Level: 3,485.0 usft	
Wellbore OH			
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	2/5/2019	6.76
			Dip Angle (°) 59.99
			Field Strength (nT) 47,737.82231817
Design OH			
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0			
Vertical Section: Depth From (TVD) (usft) 0.0 +N/-S (usft) 0.0 +E/-W (usft) 0.0 Direction (°) 347.32			
Survey Program Date 5/2/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
144.0	15,402.0	Intrepid MWD #1 (OH)	MWD
			Description OWSG MWD - Standard



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Site:	Hearns 34 State	MD Reference:	KB = 25 @ 3510.0usft
Well:	#405H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right 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	
144.0	0.90	255.10	144.0	-0.3	-1.1	0.62	0.62	0.00	-1.1	0.0	
332.0	1.00	257.70	332.0	-1.0	-4.1	0.06	0.05	1.38	-4.2	0.1	
511.0	1.10	256.30	510.9	-1.8	-7.3	0.06	0.06	-0.78	-7.5	0.0	
700.0	1.20	266.50	699.9	-2.3	-11.1	0.12	0.05	5.40	-11.2	1.6	
889.0	1.50	304.60	888.9	-1.0	-15.1	0.49	0.16	20.16	-11.8	9.4	
1,077.0	1.00	311.40	1,076.8	1.5	-18.3	0.28	-0.27	3.62	-14.7	11.0	
1,242.0	1.00	284.30	1,241.8	2.8	-20.8	0.28	0.00	-16.42	-20.8	2.5	
1,442.0	0.60	238.80	1,441.8	2.7	-23.4	0.36	-0.20	-22.75	-18.6	-14.4	
1,631.0	0.60	200.30	1,630.8	1.2	-24.6	0.21	0.00	-20.37	-7.4	-23.5	
1,819.0	0.40	218.30	1,818.7	-0.2	-25.3	0.13	-0.11	9.57	-15.9	-19.7	
2,008.0	0.40	223.10	2,007.7	-1.2	-26.2	0.02	0.00	2.54	-18.8	-18.3	
2,186.0	5.20	254.00	2,195.5	-4.1	-34.8	2.59	2.55	16.44	-33.0	-5.5	
2,384.0	10.30	262.40	2,381.7	-8.6	-59.7	2.77	2.71	4.47	-46.2	0.1	
2,573.0	10.10	263.80	2,567.7	-12.7	-92.9	0.17	-0.11	0.74	-54.8	-0.1	
2,761.0	10.10	267.00	2,752.8	-15.3	-125.8	0.30	0.00	1.70	-58.5	0.3	
2,950.0	9.80	267.10	2,939.0	-17.0	-158.4	0.16	-0.16	0.05	-61.8	-3.2	
3,138.0	9.50	263.20	3,124.3	-19.6	-189.8	0.38	-0.16	-2.07	-63.6	-10.1	
3,327.0	8.70	262.40	3,310.9	-23.4	-219.4	0.43	-0.42	-0.42	-63.8	-12.4	
3,516.0	8.70	248.20	3,497.8	-31.0	-246.7	1.29	0.00	-8.57	-57.2	-26.4	
3,705.0	8.70	246.10	3,684.6	-42.6	-272.8	0.01	0.00	-0.05	-57.0	-19.4	
3,893.0	8.70	252.50	3,870.4	-52.6	-299.4	0.51	0.00	3.40	-58.0	-7.6	
4,082.0	8.00	254.10	4,057.4	-60.5	-325.7	0.39	-0.37	0.85	-56.2	-2.6	
4,271.0	7.10	256.60	4,244.8	-66.8	-349.7	0.51	-0.48	1.32	-51.5	2.2	
4,459.0	6.20	258.20	4,431.5	-71.6	-370.9	0.49	-0.48	0.85	-43.7	4.9	
4,648.0	6.00	254.10	4,619.5	-78.4	-390.4	0.25	-0.11	-2.17	-34.5	4.1	
4,836.0	6.90	259.50	4,806.3	-81.1	-411.0	0.58	0.48	2.87	-25.5	8.5	



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Site:	Hearns 34 State	MD Reference:	KB = 25 @ 3510.0usft
Well:	#405H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,031.0	4.40	242.10	5,000.3	-88.8	-429.1	1.54	-1.28	-8.92	-16.4	6.4	
5,208.0	7.90	251.40	5,178.3	-93.8	-446.6	2.05	1.98	5.25	-6.6	14.2	
5,301.2	10.46	252.82	5,268.2	-98.4	-460.8	2.78	2.75	1.52	-6.6	16.4	
AC TGT (Hearns 34 State #405H)											
5,397.0	13.10	253.70	5,362.0	-104.0	-479.5	2.78	2.75	0.92	-9.6	17.8	
5,588.0	15.70	252.20	5,545.1	-117.8	-524.4	1.39	1.38	-0.79	-16.1	17.4	
5,774.0	18.20	251.50	5,724.9	-134.9	-576.5	1.33	1.33	-0.37	-23.8	15.8	
5,963.0	18.90	251.50	5,904.1	-154.0	-633.5	0.37	0.37	0.00	-36.5	14.7	
6,151.0	18.90	251.30	6,082.0	-173.4	-691.2	0.03	0.00	-0.11	-50.4	13.6	
6,340.0	18.30	250.60	6,261.1	-193.1	-748.2	0.34	-0.32	-0.37	-63.5	12.3	
6,528.0	15.70	250.60	6,440.9	-211.4	-800.1	1.38	-1.38	0.00	-71.1	12.0	
6,717.0	14.00	254.80	6,623.5	-225.8	-846.2	1.08	-0.90	2.22	-70.8	15.0	
6,906.0	12.00	256.40	6,807.7	-236.5	-887.4	1.08	-1.06	0.85	-65.1	12.4	
7,095.0	9.70	252.30	6,993.3	-245.9	-921.7	1.28	-1.22	-2.17	-53.2	4.7	
7,284.0	7.00	241.60	7,180.3	-256.2	-947.0	1.64	-1.43	-5.68	-39.7	-1.9	
7,473.0	3.40	226.00	7,368.5	-265.6	-961.1	2.03	-1.90	-8.25	-28.1	-3.8	
7,662.0	1.50	107.80	7,557.4	-270.3	-962.8	2.28	-1.01	-62.54	3.7	-17.7	
7,849.0	2.00	96.30	7,744.3	-271.4	-957.3	0.33	0.27	-6.15	-2.4	-15.2	
8,038.0	1.80	97.30	7,933.2	-272.1	-951.0	0.11	-0.11	0.53	-9.0	-15.1	
8,227.0	0.70	107.00	8,122.1	-272.8	-947.0	0.59	-0.58	5.13	-15.5	-12.9	
8,415.0	0.70	110.60	8,310.1	-273.6	-944.8	0.02	0.00	1.91	-18.5	-11.8	
8,604.0	0.40	137.50	8,499.1	-274.5	-943.3	0.21	-0.16	14.23	-23.6	-1.6	
8,793.0	0.40	184.70	8,688.1	-275.6	-942.9	0.17	0.00	24.97	-18.3	16.7	
8,982.0	0.70	188.30	8,877.1	-277.4	-943.1	0.16	0.16	0.85	-19.6	17.2	
9,174.0	0.60	305.70	9,069.1	-278.0	-944.0	0.59	-0.05	62.19	24.2	9.7	
9,358.0	1.10	311.00	9,253.1	-276.3	-946.1	0.27	0.27	2.88	22.3	7.5	
9,547.0	2.00	286.20	9,442.0	-274.2	-950.7	0.58	0.48	-13.12	12.1	15.4	



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9,736.0	2.50	288.70	9,830.9	-271.3	-957.5	0.37	0.28	6.61	7.8	13.1	
9,925.0	1.50	260.60	9,819.8	-269.7	-963.5	0.85	-0.53	-20.16	-7.7	12.6	
10,044.0	2.20	241.30	9,838.7	-271.0	-967.0	0.78	0.59	-16.22	-15.2	8.8	
10,138.0	2.30	235.60	10,032.6	-273.0	-970.2	0.28	0.11	-6.06	-19.6	7.1	
10,179.9	3.24	321.47	10,074.5	-272.5	-971.6	9.15	2.24	204.90	4.4	20.9	
KOP (Hearns 34 State #405H)											
10,233.0	7.70	343.70	10,127.3	-267.9	-973.6	9.15	8.40	41.87	9.5	18.7	
10,328.0	14.70	343.00	10,220.5	-250.3	-978.9	7.37	7.37	-0.74	6.8	22.2	
10,375.0	18.50	344.40	10,265.5	-237.4	-982.6	8.13	8.09	2.98	7.3	24.7	
10,422.0	22.80	345.10	10,309.5	-221.3	-987.0	9.38	9.38	1.49	8.1	27.7	
10,460.2	27.78	346.20	10,344.0	-205.5	-991.0	12.82	12.76	2.87	8.7	30.3	
HL Crossing, MD:10460.2, TVD:10344.0, N/S:-205.5, E/W:-991.0, INC:27.78											
10,469.0	28.90	346.40	10,351.7	-201.5	-992.0	12.82	12.76	2.31	8.7	30.9	
10,517.0	33.80	347.10	10,392.7	-177.2	-997.7	10.24	10.21	1.46	8.5	34.4	
10,564.0	38.70	347.60	10,430.6	-150.0	-1,003.8	10.44	10.43	1.06	7.9	38.0	
10,590.0	41.34	349.97	10,450.5	-133.6	-1,007.0	11.71	10.14	9.10	8.7	39.5	
FTP (Hearns 34 State #405H)											
10,611.0	43.50	351.70	10,466.0	-119.7	-1,009.3	11.71	10.30	8.26	9.1	40.4	
10,658.0	46.80	356.80	10,499.2	-86.5	-1,012.6	10.41	7.02	10.85	11.2	40.3	
10,706.0	51.60	357.90	10,530.5	-50.2	-1,014.2	10.15	10.00	2.29	11.5	38.9	
10,753.0	56.80	359.80	10,558.0	-12.1	-1,015.1	11.45	11.06	3.62	11.6	36.4	
10,800.0	61.00	1.80	10,582.3	28.1	-1,014.6	9.65	8.94	4.26	11.6	32.6	
10,847.0	67.60	2.30	10,602.6	70.4	-1,013.2	14.11	14.04	1.49	10.2	27.8	
10,895.0	74.20	2.30	10,618.3	115.7	-1,011.4	13.75	13.75	0.00	7.0	22.5	
10,942.0	79.50	1.10	10,629.0	161.4	-1,010.0	11.55	11.28	-2.55	2.9	17.6	
10,990.0	84.20	0.70	10,635.8	208.9	-1,009.3	9.83	9.79	-0.83	-1.3	13.0	
11,037.0	87.90	0.40	10,639.1	255.8	-1,008.8	7.90	7.87	-0.64	-4.9	8.7	



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Survey											
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11,084.0	90.30	0.70	10,639.8	302.8	-1,008.4	5.15	5.11	0.64	-7.1	4.4	
11,179.0	92.00	0.60	10,637.9	397.7	-1,007.3	1.79	1.79	-0.11	-7.7	-3.1	
11,270.0	93.30	0.40	10,633.7	488.8	-1,006.5	1.45	1.43	-0.22	-10.1	-5.9	
11,365.0	91.10	359.70	10,630.0	583.8	-1,006.4	2.43	-2.32	-0.74	-11.9	-8.5	
11,460.0	88.90	358.90	10,630.0	678.6	-1,007.8	2.46	-2.32	-0.84	-10.1	-8.0	
11,554.0	89.20	358.60	10,631.6	772.5	-1,009.6	0.45	0.32	-0.32	-6.7	-4.5	
11,648.0	90.80	358.30	10,631.6	866.5	-1,012.2	1.73	1.70	-0.32	-4.9	-2.6	
11,743.0	88.70	358.60	10,632.0	961.4	-1,014.7	2.23	-2.21	0.32	-2.7	-0.6	
11,838.0	88.90	358.00	10,634.0	1,058.4	-1,017.5	0.67	0.21	-0.63	1.2	1.6	
11,932.0	89.70	357.70	10,635.2	1,150.3	-1,021.1	0.91	0.85	-0.32	4.1	4.5	
12,026.0	89.80	358.00	10,635.6	1,244.2	-1,024.6	0.34	0.11	0.32	6.3	7.5	
12,121.0	91.00	357.50	10,634.9	1,339.2	-1,028.3	1.37	1.28	-0.53	7.5	10.6	
12,192.5	88.78	359.40	10,634.4	1,410.7	-1,030.3	3.16	-1.70	2.68	8.4	12.1	
TGT 1 (Hearns 34 State #405H)											
12,215.0	89.40	0.00	10,634.6	1,433.1	-1,030.4	3.16	-1.70	2.68	9.0	12.0	
12,310.0	89.50	359.90	10,635.5	1,528.1	-1,030.5	0.15	0.11	-0.11	11.9	11.5	
12,404.0	90.50	359.70	10,635.5	1,622.1	-1,030.8	1.08	1.06	-0.21	13.8	11.2	
12,499.0	92.10	359.70	10,633.3	1,717.1	-1,031.3	1.68	1.68	0.00	13.5	11.1	
12,593.0	91.00	0.60	10,630.8	1,811.0	-1,031.0	1.51	-1.17	0.96	12.9	10.3	
12,687.0	88.00	358.60	10,631.6	1,905.0	-1,031.7	3.84	-3.19	-2.13	15.6	10.3	
12,782.0	90.40	1.00	10,632.9	2,000.0	-1,032.0	3.57	2.53	2.53	18.9	10.0	
12,876.0	92.10	1.90	10,630.9	2,093.9	-1,029.6	2.05	1.81	0.96	18.8	7.1	
12,971.0	91.00	2.50	10,628.3	2,188.8	-1,026.0	1.32	-1.16	0.63	18.1	2.8	
13,066.0	91.10	1.20	10,626.6	2,283.8	-1,022.9	1.37	0.11	-1.37	18.3	-0.9	
13,160.0	91.50	0.60	10,624.4	2,377.7	-1,021.5	0.77	0.43	-0.64	18.1	-3.0	
13,255.0	94.40	1.70	10,619.5	2,472.6	-1,019.6	3.26	3.05	1.16	15.1	-5.5	
13,349.0	91.20	0.60	10,615.0	2,566.4	-1,017.7	3.60	-3.40	-1.17	12.4	-8.0	



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13,443.0	89.90	1.30	10,614.1	2,680.4	-1,016.1	1.57	-1.38	0.74	13.4	-10.1	
13,472.7	90.12	1.30	10,614.0	2,690.1	-1,015.4	0.74	0.74	0.00	14.0	-11.0	
TGT 2 (Hears 34 State #405H)											
13,538.0	90.60	1.30	10,613.6	2,755.4	-1,014.0	0.74	0.74	0.00	14.6	-12.9	
13,632.0	87.70	358.70	10,615.0	2,849.4	-1,014.0	4.14	-3.09	-2.77	17.2	-13.5	
13,727.0	89.60	358.80	10,617.3	2,944.3	-1,016.0	2.00	2.00	0.11	20.6	-12.0	
13,821.0	89.20	357.60	10,618.3	3,038.3	-1,019.0	1.35	-0.43	-1.28	22.8	-9.7	
13,915.0	88.80	356.20	10,619.9	3,132.1	-1,024.1	1.55	-0.43	-1.49	25.7	-5.2	
14,009.0	90.30	359.20	10,620.6	3,226.0	-1,027.8	3.57	1.60	3.19	27.6	-2.1	
14,103.0	89.80	359.40	10,620.6	3,320.0	-1,029.0	0.57	-0.53	0.21	28.8	-1.5	
14,198.0	92.20	359.50	10,618.9	3,415.0	-1,029.9	2.53	2.53	0.11	28.3	-1.2	
14,292.0	92.10	359.70	10,615.4	3,508.9	-1,030.6	0.24	-0.11	0.21	26.0	-1.2	
14,386.0	93.50	359.10	10,610.8	3,602.8	-1,031.5	1.62	1.49	-0.64	22.7	-0.8	
14,480.0	89.80	357.80	10,608.1	3,696.7	-1,034.1	4.17	-3.94	-1.38	21.2	1.1	
14,574.0	89.50	0.80	10,608.6	3,790.7	-1,035.2	3.21	-0.32	3.19	22.9	1.7	
14,669.0	90.30	1.90	10,608.8	3,885.6	-1,033.0	1.43	0.84	1.16	24.3	-1.1	
14,763.0	90.00	1.40	10,608.6	3,979.6	-1,030.3	0.62	-0.32	-0.53	25.3	-4.5	
14,858.0	92.20	2.30	10,606.7	4,074.5	-1,027.2	2.50	2.32	0.95	24.7	-8.1	
14,952.0	92.00	1.20	10,603.3	4,168.4	-1,024.3	1.19	-0.21	-1.17	22.5	-11.6	
15,047.0	90.40	359.70	10,601.3	4,263.4	-1,023.6	2.31	-1.68	-1.58	21.7	-13.0	
15,141.0	90.90	359.10	10,600.2	4,357.4	-1,024.6	0.83	0.53	-0.64	21.9	-12.6	
15,235.0	91.60	359.50	10,598.2	4,451.4	-1,025.7	0.66	0.74	0.43	21.0	-12.1	
15,329.0	92.60	358.90	10,594.7	4,545.3	-1,027.0	1.24	1.08	-0.64	18.8	-11.4	
Final MWD Survey (MD=15329.0)											
15,402.0	92.60	358.90	10,591.4	4,618.2	-1,028.4	0.00	0.00	0.00	16.4	-10.4	
Final Projection to Bit (MD=15402.0) - PBHL (Hears 34 State #405H)											



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #405H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3510.0usft
Site:	Hearns 34 State	MD Reference:	KB = 25 @ 3510.0usft
Well:	#405H	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)	
10,460.2	10,344.0	-205.5	-991.0	HL Crossing, MD:10460.2', TVD:10344.0', NS:-205.5', EW:-991.0', INC:27.78
15,329.0	10,594.7	4,545.3	-1,027.0	Final MWD Survey (MD=15329.0')
15,402.0	10,591.4	4,618.2	-1,028.4	Final Projection to Bit (MD=15402.0')

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

Hearns 34 State #405H

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: #405H

KB = 25 @ 3510.0usft 3485.0
Northing 425605.00 Easting 782831.00 Latitude 32° 10' 3.563 N Longitude 103° 33' 9.201 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0
3	2550.1	9.00	260.02	2548.3	-6.1	-34.8	2.00	260.02	1.7
4	5305.2	9.00	260.02	5269.4	-80.8	-459.4	0.00	0.00	22.0
5	5605.3	14.68	250.21	5563.1	-97.8	-518.3	2.00	-24.41	16.4
6	7080.5	14.68	250.21	6990.1	-224.3	-870.0	0.00	0.00	-27.9
7	7814.4	0.00	0.00	7716.0	-256.0	-958.0	2.00	180.00	-39.5
8	10172.5	0.00	0.00	10074.1	-256.0	-958.0	0.00	0.00	-39.5
9	11083.6	91.11	355.30	10647.0	326.1	-1005.9	10.00	355.30	538.9
10	11228.2	91.11	359.64	10644.2	470.4	-1012.2	3.00	90.01	681.1
11	12168.8	91.11	359.64	10626.0	1410.9	-1018.2	0.00	0.00	1600.0
12	12171.8	91.16	359.63	10625.9	1413.8	-1018.2	2.00	-6.71	1602.8
13	13448.5	91.16	359.63	10600.0	2690.3	-1026.4	0.00	0.00	2850.0
14	13469.7	90.74	359.63	10599.6	2711.5	-1026.6	2.00	180.00	2870.7
15	15376.5	90.74	359.63	10575.0	4618.1	-1038.9	0.00	0.00	4733.5

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
AC TOT (Hearns 34 State #405H)	6283.4	-80.8	-459.4	425534.20	782671.83
KCP (Hearns 34 State #405H)	10714.1	-256.0	-958.0	425343.00	781871.00
FTP (Hearns 34 State #405H)	10514.0	-206.0	-898.0	425298.00	781833.00
PDH (Hearns 34 State #405H)	10576.0	-481.1	-1038.9	425223.06	781882.19
TUT 1 (Hearns 34 State #405H)	10650.0	-389.3	-1026.4	425261.30	781864.98
TUT 2 (Hearns 34 State #405H)	10626.0	-1410.9	-1018.2	427015.80	781812.81

