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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#203H

OH

Design: OH

Final PVA Report

16 September, 2019



Final PVA Report

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Yarrow 32 State Well: #203H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well #203H KB = 25 @ 3697.0usft KB = 25 @ 3697.0usft Grid Minimum Curvature 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 Yarrow 32 State																	
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 457,304.00 usft Easting: 771,862.00 usft Slot Radius: 13-3/16 "		Latitude: 32° 15' 18.011 N Longitude: 103° 35' 15.414 W Grid Convergence: 0.40 °													
Well #203H																	
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 457,360.00 usft Easting: 770,815.00 usft Wellhead Elevation: usft		Latitude: 32° 15' 18.637 N Longitude: 103° 35' 27.602 W Ground Level: 3,672.0 usft													
Wellbore OH																	
<table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2015</td> <td>7/25/2019</td> <td>6.74</td> <td>60.06</td> <td>47,736.35574593</td> </tr> </tbody> </table>						Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2015	7/25/2019	6.74	60.06	47,736.35574593
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	IGRF2015	7/25/2019	6.74	60.06	47,736.35574593												
Design OH																	
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0																	
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Survey Program Date 8/18/2019																	
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Final PVA Report

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	MD Reference:	KB = 25 @ 3697.0usft
Well:	#203H	North Reference:	Grid
Wellbore:	.OH	Survey Calculation Method:	Minimum Curvature
Design:	.OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (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
189.0	0.62	52.25	189.0	0.6	0.8	0.33	0.33	0.00	-1.0	0.0
328.0	1.14	62.27	328.0	1.7	2.6	0.39	0.37	7.21	-3.1	0.3
513.0	2.29	64.21	512.9	4.2	7.6	0.62	0.62	1.05	-8.7	0.5
698.0	1.41	83.54	697.8	8.1	13.2	0.58	-0.48	10.45	-13.8	4.5
889.0	1.49	92.86	888.7	8.2	18.0	0.13	0.04	4.88	-17.7	7.1
1,081.0	0.44	332.27	1,080.7	8.7	20.1	0.91	-0.55	-62.81	3.4	-21.0
1,273.0	1.76	319.97	1,272.7	9.6	17.9	0.69	0.69	-6.41	4.1	-18.9
1,342.0	1.93	321.20	1,341.6	11.4	16.5	0.25	0.25	1.78	1.5	-20.0
1,447.0	2.02	324.89	1,446.6	14.2	14.3	0.15	0.09	3.51	-3.4	-18.9
1,635.0	2.64	252.65	1,634.5	15.7	8.3	1.48	0.33	-38.43	15.5	-13.7
1,823.0	5.19	221.53	1,822.0	8.0	-1.5	1.72	1.36	-16.55	22.0	-3.9
2,011.0	4.92	222.41	2,009.3	-4.3	-12.6	0.15	-0.14	0.47	21.6	-2.0
2,200.0	5.89	218.54	2,197.4	-17.9	-24.1	0.55	0.51	-2.05	20.0	2.2
2,389.0	5.28	217.31	2,385.6	-32.4	-35.4	0.33	-0.32	-0.65	17.6	6.1
2,577.0	4.57	217.66	2,572.9	-45.2	-45.2	0.38	-0.38	0.19	17.5	9.5
2,766.0	6.51	223.47	2,761.0	-58.9	-57.2	1.07	1.03	3.07	16.6	10.3
2,954.0	6.07	222.06	2,947.8	-74.0	-71.2	0.25	-0.23	-0.75	11.9	12.7
3,143.0	5.36	218.37	3,135.9	-88.4	-83.3	0.42	-0.38	-1.95	7.9	12.7
3,331.0	5.28	196.75	3,323.1	-103.6	-91.3	1.06	-0.04	-11.50	2.2	10.2
3,520.0	4.48	187.96	3,511.4	-119.2	-94.8	0.58	-0.42	-4.65	1.1	10.2
3,709.0	4.48	192.53	3,699.8	-133.7	-97.4	0.19	0.00	2.42	3.6	10.5
3,897.0	5.01	193.08	3,887.2	-148.9	-100.9	0.28	0.28	0.28	4.5	10.2
4,086.0	4.22	198.68	4,075.6	-163.5	-105.0	0.48	-0.42	2.97	6.7	8.5
4,275.0	6.16	190.24	4,263.8	-180.1	-109.0	1.10	1.03	-4.47	4.8	8.9
4,463.0	5.19	180.58	4,450.9	-198.5	-110.9	0.72	-0.52	-5.14	0.8	11.1
4,652.0	5.10	194.46	4,639.1	-215.2	-113.1	0.68	-0.05	7.34	3.2	11.8



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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)	EAW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,841.0	4.92	182.16	4,827.4	-231.4	-115.5	0.58	-0.10	-6.51	0.5	13.2	
5,029.0	5.98	186.20	5,014.8	-249.2	-116.8	0.60	0.56	2.15	-0.1	15.4	
5,147.0	5.10	200.79	5,132.0	-260.2	-119.4	1.40	-0.75	12.36	2.7	14.9	
5,313.0	4.84	211.69	5,297.4	-273.1	-125.7	0.59	-0.16	6.57	4.8	10.6	
5,502.0	4.84	212.39	5,485.7	-286.6	-134.1	0.03	0.00	0.37	4.4	4.8	
5,692.0	6.95	193.93	5,674.7	-304.5	-141.2	1.48	1.11	-9.72	0.1	2.8	
5,881.0	6.86	194.99	5,862.3	-326.5	-146.9	0.08	-0.05	0.56	-6.2	2.2	
6,070.0	6.24	193.41	6,050.1	-347.4	-152.2	0.34	-0.33	-0.84	-11.4	1.2	
6,260.0	6.24	189.72	6,239.0	-367.6	-156.3	0.21	0.00	-1.94	-15.6	0.5	
6,449.0	4.04	193.23	6,427.2	-384.3	-159.6	1.18	-1.16	1.86	-16.0	1.6	
6,637.0	1.23	65.44	6,615.1	-389.9	-159.2	2.60	-1.49	-67.97	0.8	-5.7	
6,826.0	1.23	56.12	6,804.0	-387.9	-155.7	0.11	0.00	-4.93	-13.2	4.8	
7,014.0	1.14	75.46	6,992.0	-386.3	-152.2	0.22	-0.05	10.29	-16.8	13.9	
7,203.0	0.97	135.58	7,181.0	-387.0	-149.3	0.56	-0.09	31.81	1.2	23.1	
7,391.0	1.23	158.95	7,368.9	-390.0	-147.4	0.27	0.14	12.43	6.8	21.4	
7,580.0	1.32	155.44	7,557.9	-393.9	-145.8	0.06	0.05	-1.86	1.2	21.7	
7,768.0	1.14	161.59	7,745.8	-397.6	-144.3	0.12	-0.10	3.27	-0.5	21.6	
7,956.0	1.14	153.68	7,933.8	-401.1	-142.9	0.08	0.00	-4.21	-7.2	21.1	
8,145.0	1.06	154.74	8,122.8	-404.3	-141.3	0.04	-0.04	0.56	-10.4	21.3	
8,334.0	1.23	153.68	8,311.7	-407.7	-139.7	0.09	0.09	-0.56	-14.6	21.1	
8,522.0	1.32	159.31	8,499.7	-411.6	-138.0	0.08	0.05	2.99	-16.6	22.6	
8,711.0	1.23	159.48	8,688.6	-415.5	-136.5	0.05	-0.05	0.09	-20.7	22.6	
8,899.0	1.23	171.26	8,876.6	-419.4	-135.5	0.13	0.00	6.27	-19.7	26.8	
9,088.0	1.49	256.69	9,065.6	-421.9	-137.6	0.98	0.14	45.20	22.5	23.8	
9,233.0	1.49	257.04	9,210.5	-422.8	-141.3	0.01	0.00	0.24	18.9	23.6	
9,284.0	1.23	266.18	9,261.5	-423.0	-142.5	0.66	-0.51	17.92	21.2	20.4	
9,331.0	5.36	350.38	9,308.4	-420.9	-143.3	11.44	8.79	179.15	20.2	-18.6	



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MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
9,357.0	8.40	354.61	9,334.3	-417.8	-143.7	11.85	11.69	16.25	15.6	-20.0
KOP (Yarrow 32 State #203H)										
9,379.0	10.99	356.36	9,355.9	-414.1	-144.0	11.85	11.77	7.96	11.8	-20.3
9,426.0	15.56	2.86	9,401.7	-403.3	-144.0	10.21	9.72	13.83	2.5	-20.9
9,473.0	18.64	1.81	9,448.6	-389.5	-143.4	6.59	6.55	-2.23	-3.5	-20.8
9,520.0	25.32	357.94	9,490.1	-371.9	-143.5	14.54	14.21	-8.23	-8.8	-20.5
9,559.2	29.57	354.48	9,524.9	-353.9	-144.8	11.59	10.85	-8.82	-14.0	-19.5
HL Crossing, MD:9559.2', TVD:9524.9', N/S:-353.9', E/W:-144.8', INC:29.57'										
9,567.0	30.43	353.80	9,531.7	-350.0	-145.2	11.59	10.97	-7.45	-15.1	-19.2
9,661.0	40.54	356.36	9,608.1	-295.7	-149.7	10.88	10.76	2.62	-31.9	-12.6
9,755.0	43.79	357.06	9,677.8	-232.7	-153.3	3.49	3.46	0.74	-42.9	-5.5
9,810.6	50.18	356.07	9,715.7	-192.2	-155.7	11.58	11.51	-1.79	-48.2	-1.1
FTP (Yarrow 32 State #203H)										
9,849.0	54.61	355.48	9,739.1	-161.8	-158.0	11.58	11.52	-1.52	-48.8	2.6
9,944.0	59.38	358.99	9,790.9	-82.3	-161.7	5.88	5.00	3.69	-50.2	13.3
10,037.0	62.08	4.27	9,836.4	-1.3	-159.4	5.75	2.92	5.68	-40.3	17.9
10,131.0	70.61	9.19	9,874.1	84.1	-149.2	10.26	9.07	5.23	-24.0	12.7
10,225.0	78.52	6.73	9,899.1	173.8	-136.7	8.78	8.41	-2.82	-5.8	4.9
10,320.0	83.01	1.28	9,914.3	267.2	-130.2	7.37	4.73	-5.74	9.5	0.3
10,414.0	87.93	359.52	9,921.7	360.9	-129.5	5.58	5.23	-1.87	17.0	-1.1
10,508.0	87.93	359.52	9,925.1	454.8	-130.3	0.00	0.00	0.00	20.5	-0.9
10,606.0	86.35	358.82	9,930.0	552.7	-131.7	1.78	-1.61	-0.71	25.6	-0.2
10,701.0	90.66	358.47	9,932.5	647.6	-134.0	4.55	4.54	-0.37	28.1	1.3
10,795.0	91.45	358.47	9,930.8	741.6	-136.5	0.84	0.84	0.00	28.5	3.2
10,889.0	91.80	358.47	9,928.1	835.5	-139.0	0.37	0.37	0.00	24.0	5.0
10,984.0	89.34	359.70	9,927.2	930.5	-140.5	2.90	-2.58	1.29	23.2	5.8
11,078.0	89.34	359.52	9,928.3	1,024.5	-141.1	0.19	0.00	-0.19	24.4	5.8



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 Wellbore: OH
 Design: OH

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 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
11,172.0	89.43	359.34	9,929.3	1,118.5	-142.1	0.21	0.10	-0.19	25.5	6.1
11,267.0	89.25	359.34	9,930.4	1,213.5	-143.2	0.19	-0.19	0.00	26.7	6.5
11,361.0	88.90	359.52	9,931.9	1,307.4	-144.1	0.42	-0.37	0.19	26.3	6.7
11,455.0	88.81	359.34	9,933.8	1,401.4	-145.0	0.21	-0.10	-0.19	30.3	7.0
11,549.0	88.55	359.17	9,935.9	1,495.4	-146.3	0.33	-0.28	-0.18	32.6	7.5
11,643.0	88.37	358.99	9,938.4	1,589.3	-147.8	0.27	-0.19	-0.19	35.3	8.4
11,738.0	91.71	359.70	9,938.4	1,684.3	-148.9	3.59	3.52	0.75	35.3	8.8
11,799.0	92.00	359.47	9,938.4	1,745.3	-149.3	0.60	0.47	-0.38	33.4	8.8
TGT 1 (Yarrow 32 State #203H)										
11,832.0	92.15	359.34	9,935.2	1,778.3	-149.7	0.60	0.47	-0.38	32.5	8.9
11,928.0	92.33	359.70	9,931.5	1,872.2	-150.4	0.43	0.19	0.38	29.9	9.0
12,020.0	91.10	1.10	9,928.7	1,966.1	-149.8	1.98	-1.31	1.49	28.3	7.7
12,114.0	90.75	0.40	9,927.2	2,060.1	-148.6	0.83	-0.37	-0.74	27.9	5.8
12,209.0	91.45	0.40	9,925.4	2,155.1	-147.9	0.74	0.74	0.00	27.3	4.4
12,303.0	91.36	0.22	9,923.1	2,249.1	-147.4	0.21	-0.10	-0.19	28.2	3.2
12,397.0	91.89	0.57	9,920.4	2,343.0	-146.7	0.68	0.56	0.37	24.7	1.9
12,491.0	89.43	0.75	9,919.3	2,437.0	-145.7	2.62	-2.62	0.19	24.7	0.1
12,585.0	89.69	0.57	9,920.1	2,531.0	-144.6	0.34	0.28	-0.19	26.6	-1.8
12,619.4	89.85	0.57	9,920.2	2,565.4	-144.2	0.47	0.47	0.00	27.2	-2.2
TGT 2 (Yarrow 32 State #203H)										
12,679.0	90.13	0.57	9,920.2	2,625.0	-143.8	0.47	0.47	0.00	27.8	-3.2
12,773.0	91.28	1.10	9,919.0	2,719.0	-142.3	1.35	1.22	0.56	27.5	-5.3
12,867.0	88.64	0.22	9,919.1	2,813.0	-141.2	2.98	-2.81	-0.94	28.4	-7.1
12,962.0	88.55	0.40	9,921.4	2,907.8	-140.7	0.21	-0.09	0.19	31.6	-8.3
13,056.0	89.43	0.40	9,923.1	3,001.9	-140.0	0.94	0.94	0.00	34.2	-9.6
13,150.0	89.34	0.22	9,924.1	3,095.9	-139.5	0.21	-0.10	-0.19	36.1	-10.8
13,245.0	90.40	1.10	9,924.3	3,190.9	-138.4	1.45	1.12	0.93	37.2	-12.6



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13,338.0	89.52	359.34	9,924.4	3,284.9	-138.0	2.09	-0.94	-1.87	38.1	-13.6	
13,433.0	89.86	359.34	9,924.8	3,378.9	-139.1	0.47	0.47	0.00	39.4	-13.2	
13,527.0	90.13	359.17	9,924.7	3,472.9	-140.4	0.26	0.18	-0.18	40.2	-12.7	
13,621.0	90.04	358.99	9,924.6	3,568.9	-141.9	0.21	-0.10	-0.19	40.9	-11.8	
13,693.6	90.86	359.26	9,924.0	3,639.5	-143.0	1.19	1.13	0.37	41.0	-11.2	
TGT 3 (Yarrow 32 State #203H)											
13,715.0	91.10	359.34	9,923.7	3,660.8	-143.2	1.19	1.13	0.37	40.9	-11.1	
13,809.0	91.28	358.82	9,921.7	3,754.8	-144.7	0.59	0.19	-0.55	39.9	-10.3	
13,903.0	89.25	357.59	9,921.3	3,848.8	-147.7	2.53	-2.16	-1.31	40.4	-8.1	
13,998.0	89.43	357.76	9,922.4	3,943.7	-151.5	0.28	0.19	0.18	42.5	-4.8	
14,092.0	90.13	357.76	9,922.7	4,037.6	-155.2	0.74	0.74	0.00	43.8	-1.9	
14,186.0	90.84	357.76	9,921.9	4,131.5	-158.9	0.76	0.76	0.00	44.0	1.1	
14,281.0	91.63	358.11	9,919.9	4,226.4	-162.3	0.91	0.83	0.37	42.9	3.8	
14,375.0	89.87	358.47	9,918.7	4,320.4	-165.1	1.91	-1.87	0.38	42.8	6.0	
14,469.0	90.40	358.64	9,918.4	4,414.4	-167.5	0.59	0.56	0.18	43.3	7.7	
14,564.0	91.01	358.82	9,917.3	4,509.3	-169.8	0.67	0.64	0.19	43.1	9.1	
14,658.0	92.07	358.82	9,914.7	4,603.3	-171.5	1.13	1.13	0.00	41.6	10.3	
14,713.0	92.51	358.82	9,912.5	4,658.2	-172.7	0.80	0.80	0.00	39.9	11.1	
Final MWD Survey (MD=14713.0)											
14,771.0	92.51	358.82	9,910.0	4,716.1	-173.8	0.00	0.00	0.00	38.0	11.9	
Final Projection to Bit (MD=14771.0) - PSBL (Yarrow 32 State #203H)											



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #203H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #203H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
9,559.2	9,524.9	-353.9	-144.8	HL Crossing, MD:9559.2', TVD:9524.9', N/S:-353.9', E/W:-144.8', INC:29.57
14,713.0	9,912.5	4,858.2	-172.7	Final MWD Survey (MD=14713.0')
14,771.0	9,910.0	4,716.1	-173.8	Final Projection to Bit (MD=14771.0')

Checked By: _____

Approved By: _____

Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 01/08/2020
Signed Date



Lea County, NM (NAD 83 NME)

Yarrow 32 State #203H

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: #203H

KB = 23 @ 3837.0usft 3872.0
Northing 457380.00 Easting 770818.00 Latitude 32° 15' 18.637 N Longitude 103° 35' 27.602 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1750.0	5.00	230.00	1749.7	-7.0	-8.4	2.00	230.00	-8.7	
4	3000.0	5.00	230.00	2994.9	-77.0	-91.8	0.00	0.00	-73.8	
5	3183.1	5.00	191.87	3157.4	-88.8	-98.7	2.00	-109.07	-85.1	
6	6739.8	5.00	191.87	6720.5	-393.4	-162.8	0.00	0.00	-387.5	
7	6989.8	0.00	359.59	6970.0	-404.0	-165.0	2.00	180.00	-398.1	
8	9351.6	0.00	359.59	9332.0	-404.0	-165.0	0.00	0.00	-398.1	
9	10252.3	90.07	3.28	9905.0	168.7	-132.2	10.00	3.28	173.2	
10	10344.5	90.07	359.59	9904.8	261.0	-129.9	4.00	-89.98	265.3	
11	11827.8	90.07	359.59	9903.0	1744.2	-140.5	0.00	0.00	1748.0	TGT 1 (Yarrow 32 State #203H)
12	11859.8	90.71	359.59	9902.8	1776.1	-140.8	2.00	-0.23	1779.9	
13	12649.2	90.71	359.59	9893.0	2565.5	-146.5	0.00	0.00	2569.0	TGT 2 (Yarrow 32 State #203H)
14	12658.1	90.53	359.59	9892.9	2574.3	-146.5	2.00	179.98	2577.9	
15	13722.7	90.53	359.59	9883.0	3638.9	-154.2	0.00	0.00	3642.0	TGT 3 (Yarrow 32 State #203H)
16	13725.3	90.58	359.59	9883.0	3641.5	-154.2	2.00	0.00	3644.8	
17	14800.9	90.58	359.59	9872.0	4717.0	-162.0	0.00	0.00	4719.8	PBHL (Yarrow 32 State #203H)

WELLSBONE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT 1 (Yarrow 32 State #203H)	9903.0	1744.2	-140.5	452704.25	770874.68
TGT 2 (Yarrow 32 State #203H)	9893.0	2565.5	-146.5	452925.50	770955.54
TGT 3 (Yarrow 32 State #203H)	9883.0	3638.9	-154.2	452998.90	770883.79
PBHL (Yarrow 32 State #203H)	9872.0	4717.0	-162.0	452077.00	770833.00
FTP (Yarrow 32 State #203H)	9205.0	-334.0	-125.0	457006.00	770630.00
KOP (Yarrow 32 State #203H)	9332.0	-404.0	-165.0	456958.00	770650.00

