



HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#502H

OH

25-45524

Design: OH

Final PVA Report

22 April, 2019



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3451.0usft
Well:	#502H	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	Gem 36 State Com		
Site Position:		Northing:	393,686.00 usft
From:	Map	Easting:	759,213.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 49.331 N
		Longitude:	103° 37' 47.552 W
		Grid Convergence:	0.37 °

Well	#502H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 33.553 N
		Longitude:	103° 37' 25.742 W
		Ground Level:	3,426.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
	IGRF2015	1/15/2019	8.80
			59.91
			47,692.29858020

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			178.44

Survey Program	Date	4/22/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
250.0	15,707.0	Learn MWD #1 (OH)	MWD	OWSG MWD - Standard



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Well:	#502H	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	0.0
250.0	1.00	261.40	250.0	-0.3	-2.2	0.40	0.40	0.00	-2.2	0.0	
438.0	1.60	261.70	437.8	-1.0	-6.4	0.32	0.32	0.16	-6.4	0.0	
612.0	1.70	259.80	611.9	-1.8	-11.3	0.07	0.06	-1.09	-11.5	-0.3	
799.0	1.60	255.90	798.8	-2.9	-16.6	0.08	-0.05	-2.09	-16.8	-1.2	
973.0	0.90	242.00	972.7	-4.1	-20.1	0.44	-0.40	-7.99	-19.7	-5.8	
1,164.0	0.20	208.80	1,163.7	-5.1	-21.6	0.39	-0.37	-17.38	-14.9	-16.5	
1,353.0	1.50	322.70	1,352.7	-3.4	-23.3	0.84	0.69	60.26	-11.4	20.6	
1,541.0	1.30	307.80	1,540.7	-0.2	-26.5	0.22	-0.11	-7.93	-20.8	16.4	
1,730.0	2.20	338.90	1,729.6	4.5	-28.5	0.68	0.48	16.46	-14.8	25.9	
1,919.0	3.10	9.50	1,918.4	13.0	-29.9	0.87	0.48	16.19	-7.8	31.7	
2,108.0	2.90	2.30	2,107.1	22.8	-28.9	0.23	-0.11	-3.81	-21.6	29.8	
2,298.0	3.50	2.80	2,296.8	33.4	-28.4	0.32	0.32	0.26	-31.5	30.0	
2,487.0	5.40	1.40	2,485.2	48.0	-27.9	1.01	1.01	-0.74	-37.5	28.7	
2,677.0	6.40	1.20	2,674.2	67.5	-27.5	0.53	0.53	-0.11	-36.9	27.7	
2,865.0	7.00	2.60	2,861.0	89.5	-26.7	0.33	0.32	0.74	-36.9	27.5	
3,055.0	6.60	5.80	3,049.6	111.9	-25.1	0.29	-0.21	1.68	-36.5	27.6	
3,244.0	6.20	6.80	3,237.4	132.8	-22.8	0.22	-0.21	0.53	-35.8	25.5	
3,430.0	5.50	7.00	3,422.5	151.7	-20.5	0.38	-0.38	0.11	-33.8	22.7	
3,619.0	5.90	5.80	3,610.5	170.3	-18.4	0.22	0.21	-0.63	-31.8	19.2	
3,808.0	6.50	1.60	3,798.4	190.7	-17.2	0.40	0.32	-2.22	-32.1	15.2	
3,997.0	5.50	5.10	3,986.4	210.4	-16.1	0.56	-0.53	1.85	-29.6	15.4	
4,185.0	6.40	12.80	4,173.4	229.6	-12.9	0.64	0.48	4.10	-26.0	15.4	
4,374.0	5.50	20.50	4,361.4	248.3	-7.4	0.64	-0.48	4.07	-23.3	12.2	
4,562.0	5.10	19.30	4,548.6	264.7	-1.5	0.22	-0.21	-0.64	-20.9	4.2	
4,680.0	4.10	21.60	4,666.2	273.5	1.8	0.86	-0.85	1.95	-17.8	0.1	
4,843.0	5.50	354.50	4,826.6	286.7	3.2	1.61	0.86	-16.63	-10.5	-9.2	



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Site:	Gem 38 State Com	MD Reference:	KB = 25 @ 3451.0usft
Well:	#502H	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)	Buile (°/100usft)	Tum (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,031.0	9.10	356.60	5,015.1	310.5	1.4	1.92	1.91	1.12	-13.4	-7.7	
5,220.0	9.20	357.00	5,201.7	340.5	-0.3	0.06	0.05	0.21	-22.2	-6.7	
5,410.0	9.50	357.30	5,389.1	371.4	-1.8	0.16	0.16	0.16	-31.7	-5.9	
5,598.0	9.70	356.60	5,574.5	402.7	-3.5	0.12	0.11	-0.37	-41.8	-5.6	
5,787.0	9.80	357.00	5,760.8	434.6	-5.2	0.06	0.05	0.21	-52.6	-4.5	
5,975.0	5.60	341.20	5,947.1	459.3	-9.0	2.48	-2.23	-8.40	-53.7	-16.4	
6,163.0	2.30	342.40	6,134.6	471.6	-13.1	1.78	-1.78	0.64	-46.5	-9.1	
6,349.0	2.30	335.70	6,320.4	478.6	-15.8	0.14	0.00	-3.60	-33.2	-6.5	
6,537.0	4.90	2.10	6,508.1	490.0	-17.1	1.61	1.38	14.04	-22.8	9.4	
6,724.0	4.30	2.30	6,694.5	505.0	-16.5	0.32	-0.32	0.11	-16.6	6.2	
6,911.0	3.80	358.90	6,881.0	518.2	-16.3	0.30	-0.27	-1.82	-9.0	6.8	
7,101.0	3.90	359.80	7,070.6	531.0	-16.5	0.06	0.05	0.47	-0.2	6.8	
7,289.0	2.10	48.50	7,258.3	539.6	-13.9	1.56	-0.96	25.90	6.3	-1.1	
7,478.0	2.50	85.10	7,447.2	542.3	-7.2	0.79	0.21	19.37	-2.4	-4.9	
7,665.0	1.80	59.20	7,634.0	544.1	-0.6	0.63	-0.37	-13.85	-6.6	-7.3	
7,853.0	1.70	142.90	7,822.0	543.4	3.6	1.24	-0.05	44.52	-11.0	8.7	
8,041.0	1.60	143.80	8,009.9	539.1	6.8	0.05	-0.05	0.48	-16.3	8.9	
8,228.0	1.10	150.80	8,196.9	535.4	9.2	0.28	-0.27	3.74	-19.5	11.2	
8,416.0	1.10	173.80	8,384.8	532.0	10.3	0.23	0.00	12.23	-17.1	18.6	
8,604.0	1.10	181.90	8,572.8	528.4	10.5	0.08	0.00	4.31	-17.9	21.1	
8,792.0	1.00	171.00	8,760.8	525.0	10.7	0.12	-0.05	-5.80	-24.9	17.0	
8,980.0	1.00	168.90	8,948.7	521.8	11.2	0.02	0.00	-1.12	-28.8	16.0	
9,169.0	0.30	183.10	9,137.7	519.7	11.5	0.38	-0.37	7.51	-28.1	23.0	
9,358.0	0.70	338.50	9,326.7	520.3	11.1	0.52	0.21	82.22	32.6	-8.8	
9,547.0	1.10	306.50	9,515.7	522.4	9.2	0.33	0.21	-16.93	30.0	8.3	
9,736.0	0.40	273.30	9,704.7	523.5	7.1	0.42	-0.37	-17.57	18.4	22.4	
9,924.0	0.40	158.90	9,892.7	523.0	6.7	0.36	0.00	-60.85	-28.4	6.9	



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Well:	#502H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asd (grid_north_xzdm)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,113.0	0.10	92.60	10,081.7	522.3	7.1	0.20	-0.16	-35.08	-18.2	-23.9
10,193.0	1.00	27.20	10,161.7	523.0	7.4	1.20	1.12	-81.75	13.4	-26.5
10,219.0	1.20	20.40	10,187.7	523.4	7.6	0.92	0.77	-26.15	16.0	-24.8
10,302.2	4.69	149.21	10,270.8	521.3	9.7	6.64	4.20	154.82	-32.2	3.8
KOP (Gem 36 State Com #502H)										
10,313.0	5.40	150.50	10,281.5	520.5	10.2	6.64	6.56	11.96	-32.9	4.5
10,408.0	16.10	169.10	10,374.8	503.6	14.9	11.70	11.26	19.58	-37.5	18.0
10,429.2	17.98	170.54	10,395.0	497.5	16.0	9.09	8.87	6.78	-36.9	19.6
HL Crossing, MD:10429.2, TVD:10395.0, N/S:497.5, EW:16.0, INC:17.98										
10,501.0	24.40	173.80	10,461.8	471.8	19.4	9.09	8.94	4.54	-42.9	24.0
10,548.0	27.30	175.60	10,504.2	451.4	21.3	8.39	8.17	3.83	-44.1	26.5
10,595.0	31.50	180.70	10,545.2	428.3	21.9	10.40	8.94	10.85	-42.6	29.8
10,688.0	39.70	183.70	10,620.7	374.3	19.7	9.01	8.82	3.23	-40.9	27.3
10,761.7	47.45	180.97	10,674.1	323.6	17.8	10.82	10.52	-3.71	-40.1	22.0
FTP (Gem 36 State Com #502H)										
10,783.0	49.70	180.30	10,688.2	307.6	17.6	10.82	10.56	-3.12	-39.7	20.9
10,877.0	57.70	183.10	10,743.8	232.0	15.2	8.84	8.51	2.98	-35.0	16.7
10,971.0	67.10	177.90	10,787.3	148.8	14.7	11.13	10.00	-5.53	-29.1	12.1
11,065.0	72.60	174.20	10,819.7	60.8	20.8	6.92	5.85	-3.94	-18.8	15.2
11,159.0	76.20	175.80	10,845.0	-29.3	28.7	4.17	3.83	1.70	-0.4	20.5
11,253.0	77.70	179.30	10,868.2	-120.8	32.8	3.96	1.60	3.72	19.9	23.5
11,347.0	83.70	183.10	10,881.4	-213.5	30.6	7.53	6.38	4.04	34.4	20.6
11,442.0	90.40	183.80	10,888.3	-308.1	24.9	7.09	7.05	0.74	38.3	14.1
11,538.0	90.90	179.60	10,885.2	-402.1	22.1	4.50	0.53	-4.47	36.3	10.6
11,631.0	88.20	180.00	10,886.0	-497.1	22.4	2.87	-2.84	0.42	36.1	10.1
11,724.0	86.70	180.20	10,890.1	-590.0	22.3	1.63	-1.61	0.22	39.3	9.2
11,818.0	86.80	179.80	10,895.6	-683.8	22.3	0.44	-0.11	-0.43	43.8	8.5



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Survey											
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11,911.0	87.60	179.80	10,900.3	-776.7	22.6	1.08	1.08	0.00	47.6	8.0	
12,005.0	88.30	179.60	10,903.7	-870.6	23.1	0.77	0.74	-0.21	50.0	7.8	
12,098.0	89.70	179.60	10,905.3	-963.8	23.8	1.51	1.51	0.00	50.7	7.7	
12,136.1	88.81	179.60	10,905.8	-1,001.7	24.0	2.34	-2.34	0.00	50.8	7.6	
TGT 1 (Gem 36 State Com #502H)											
12,192.0	87.50	179.60	10,907.6	-1,057.6	24.4	2.34	-2.34	0.00	52.0	7.8	
12,285.0	88.00	179.80	10,911.2	-1,150.5	24.9	0.58	0.54	0.22	54.8	7.3	
12,380.0	87.40	180.20	10,915.0	-1,245.4	24.9	0.76	-0.63	0.42	57.6	6.5	
12,475.0	86.60	179.80	10,920.0	-1,340.3	24.9	0.94	-0.84	-0.42	61.6	5.8	
12,569.0	86.90	180.00	10,925.3	-1,434.1	25.1	0.38	0.32	0.21	66.0	5.2	
12,664.0	86.90	180.00	10,930.5	-1,528.0	25.1	0.00	0.00	0.00	70.2	4.4	
12,758.0	86.40	179.60	10,936.0	-1,622.8	25.4	0.68	-0.53	-0.43	74.8	4.0	
12,851.0	86.80	179.60	10,941.5	-1,715.7	26.0	0.43	0.43	0.00	79.4	3.9	
12,945.0	87.30	179.50	10,946.3	-1,808.5	26.8	0.54	0.53	-0.11	83.3	3.9	
13,039.0	86.20	179.60	10,951.7	-1,903.4	27.5	1.18	-1.17	0.11	87.7	3.9	
13,133.0	86.40	180.20	10,957.7	-1,997.2	27.7	0.67	0.21	0.64	92.8	3.3	
13,138.2	86.49	180.14	10,958.0	-2,002.3	27.7	2.08	1.70	-1.17	93.1	3.2	
TGT 2 (Gem 36 State Com #502H)											
13,227.0	88.00	179.10	10,962.3	-2,091.1	28.2	2.08	1.70	-1.17	96.5	3.1	
13,321.0	90.00	178.60	10,963.9	-2,185.0	30.1	2.19	2.13	-0.53	97.2	4.3	
13,416.0	90.30	178.80	10,963.7	-2,280.0	32.3	0.38	0.32	0.21	98.0	5.7	
13,510.0	90.00	179.30	10,963.5	-2,374.0	33.8	0.62	-0.32	0.53	94.8	6.5	
13,604.0	89.30	179.80	10,964.0	-2,468.0	34.6	0.92	-0.74	0.53	94.4	6.4	
13,697.0	88.50	180.50	10,965.8	-2,561.0	34.3	1.14	-0.86	0.75	95.3	5.4	
13,791.0	88.10	181.20	10,966.8	-2,654.9	32.9	0.86	-0.43	0.74	97.1	3.3	
13,886.0	88.80	179.80	10,971.2	-2,749.9	32.1	1.65	0.74	-1.47	98.8	1.7	
13,979.0	90.80	179.10	10,971.5	-2,842.9	33.0	2.28	2.15	-0.75	98.2	1.9	



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Survey											
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14,073.0	80.10	180.00	10,970.8	-2,936.9	33.8	1.21	-0.74	0.86	96.5	1.8	
14,146.8	89.86	180.00	10,970.8	-3,010.6	33.8	0.32	-0.32	0.00	95.8	1.2	
TGT 3 (Gem 38 State Com #502H)											
14,167.0	89.80	180.00	10,970.8	-3,030.9	33.8	0.32	-0.32	0.00	95.6	1.1	
14,261.0	88.50	180.00	10,972.2	-3,124.8	33.8	1.38	-1.38	0.00	96.1	0.3	
14,355.0	87.40	179.50	10,975.6	-3,218.8	34.2	1.29	-1.17	-0.53	98.5	0.0	
14,449.0	90.30	178.40	10,977.5	-3,312.7	35.9	3.30	3.09	-1.17	99.5	1.0	
14,542.0	89.80	178.40	10,977.3	-3,405.7	38.5	0.43	-0.43	0.00	98.4	2.8	
14,636.0	89.30	178.40	10,978.0	-3,499.7	41.1	0.84	-0.64	0.00	98.1	4.7	
14,730.0	87.80	177.90	10,980.3	-3,593.6	44.1	1.58	-1.49	-0.53	99.5	7.0	
14,824.0	88.80	178.60	10,982.9	-3,687.5	47.0	1.30	1.06	0.74	101.2	9.1	
14,918.0	89.30	179.50	10,984.4	-3,782.5	48.6	1.04	0.42	0.85	101.7	8.9	
15,014.0	89.10	179.30	10,985.7	-3,877.5	49.6	0.30	-0.21	-0.21	102.1	10.1	
15,108.0	88.10	179.60	10,988.0	-3,971.4	50.5	1.11	-1.06	0.32	103.4	10.3	
15,147.2	87.83	179.30	10,989.4	-4,010.6	50.9	0.88	-0.43	-0.76	104.4	10.4	
TGT 4 (Gem 38 State Com #502H)											
15,200.0	87.70	178.90	10,991.4	-4,063.4	51.7	0.88	-0.43	-0.76	105.6	10.8	
15,293.0	89.90	178.90	10,993.3	-4,156.3	53.5	2.37	2.37	0.00	105.8	11.8	
15,388.0	90.10	178.90	10,993.3	-4,251.3	55.3	0.21	0.21	0.00	104.1	12.9	
15,482.0	89.60	178.60	10,993.6	-4,345.3	57.3	0.62	-0.53	-0.32	102.7	14.2	
15,577.0	87.70	178.20	10,995.8	-4,440.2	60.0	2.04	-2.00	-0.42	103.2	16.1	
15,651.0	86.90	178.00	10,999.3	-4,514.1	62.4	1.11	-1.08	-0.27	105.3	18.0	
Final MWD Survey (MD=15651.0')											
15,701.6	86.90	178.00	11,002.0	-4,564.5	64.2	0.00	0.00	0.00	107.1	19.3	
PBHL (Gem 38 State Com #502H)											
15,707.0	86.90	178.00	11,002.3	-4,570.0	64.4	0.00	0.00	0.00	107.3	19.5	
Final Projection to Bit (MD=15707.0')											



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3451.0usft
Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3451.0usft
Well:	#502H	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)	
10,429.2	10,395.0	497.5	16.0	HL Crossing, MD:10429.2', TVD:10395.0', N/S:497.5', E/W:16.0', INC:17.98
15,651.0	10,999.3	-4,514.1	62.4	Final MWD Survey (MD=15651.0')
15,707.0	11,002.3	-4,570.0	64.4	Final Projection to Bit (MD=15707.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Gem 36 State Com #502H

Plan #2

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: #502H

KB = 25 @ 3451.0ust
3428.0
Northing 335167.00 Easting 781050.00 Latitude 32° 6' 33.553 N Longitude 103° 37' 25.742 W

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2250.0	0.00	0.00	2250.0	0.0	0.0	0.00	0.00	0.0		
3	2575.2	6.50	358.85	2574.8	18.4	-3.3	2.00	358.85	-18.4		
4	7085.2	8.50	358.85	7085.8	528.8	-9.7	0.00	0.00	-537.1		
5	7425.4	0.00	178.54	7378.0	647.0	-13.0	2.00	180.00	-648.4		
6	10302.6	0.00	178.54	10272.1	847.0	-13.0	0.00	0.00	-548.4		KOP (Gem 36 State Com #502H)
7	11186.7	83.42	178.54	10845.0	-19.3	7.9	10.00	178.19	20.5		
8	11341.8	83.42	178.54	10845.8	-46.7	8.9	3.00	80.05	63.7		
9	12178.8	83.42	178.54	10855.0	-103.0	18.4	0.00	0.00	1000.0		TOT 1 (Gem 36 State Com #502H)
10	12183.0	83.43	178.54	10855.0	-103.8	18.4	2.00	25.37	1000.8		TOT 2 (Gem 36 State Com #502H)
11	13183.9	83.43	178.54	10855.0	-308.9	24.8	0.00	0.00	2000.0		TOT 3 (Gem 36 State Com #502H)
12	14187.8	83.43	178.54	10878.0	-3210.7	32.8	0.00	0.00	3000.0		TOT 4 (Gem 36 State Com #502H)
13	14187.7	83.43	178.54	10855.0	-4014.8	40.5	0.00	0.00	4000.0		
14	15215.3	83.98	178.54	10835.3	-4033.0	40.7	2.00	178.59	4033.4		
15	15748.3	83.98	178.54	10895.0	-4571.0	48.0	0.00	0.00	4584.3		PERL (Gem 36 State Com #502H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVL	+N-S	+E-W	Northing	Easting
KOP (Gem 36 State Com #502H)	10272.1	547.0	-10.0	335714.00	781050.00
TOT 1 (Gem 36 State Com #502H)	10855.0	-1003.0	18.4	337184.00	781076.42
TOT 2 (Gem 36 State Com #502H)	10855.0	-308.9	24.8	336180.10	781084.48
TOT 3 (Gem 36 State Com #502H)	10878.0	-3210.7	32.8	335185.30	781092.50
TOT 4 (Gem 36 State Com #502H)	10855.0	-4014.8	40.5	334182.40	781100.54
PERL (Gem 36 State Com #502H)	10895.0	-4571.0	48.0	333336.00	781105.00
FTT (Gem 36 State Com #502H)	10845.0	-437.0	4.0	335584.00	781084.00

