



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State

#511H

OH

Design: OH

Midland PVA

06 June, 2018





Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #511H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3346.0usft (H&P 465)
Site:	Condor 32 State	MD Reference:	KB = 25 @ 3346.0usft (H&P 465)
Well:	#511H	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:		Northing:	398,890.00 usft
From:	Map	Easting:	803,604.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 37.669 N
		Longitude:	103° 29' 11.148 W
		Grid Convergence:	0.45 °

Well	#511H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Ground Level:

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

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
			(°)



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Survey Program		Date 6/6/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
223.0	975.0	Cartel #41 MWD 8' + 17' (OH)	MWD	OWSG MWD - Standard	
1,063.0	15,915.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Asd (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLog ("/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	0.00	1.0
223.0	0.80	150.30	223.0	-1.5	0.9	0.40	0.40	0.00	0.0	0.0
343.0	0.60	84.00	343.0	-2.3	2.0	0.71	-0.25	-55.25	0.0	0.0
469.0	1.50	100.80	469.0	-2.5	4.2	0.75	0.71	13.33	0.0	0.0
596.0	1.70	82.10	595.9	-2.6	7.7	0.44	0.16	-14.72	0.0	0.0
848.0	1.80	60.90	847.8	-0.1	14.9	0.26	0.04	-8.41	0.0	0.0
975.0	1.90	134.60	974.7	-0.6	18.1	1.75	0.08	58.03	0.0	0.0
1,063.0	1.41	61.50	1,062.7	-1.1	20.1	2.28	-0.56	-83.07	-0.7	1.4
1,244.0	0.70	285.30	1,243.7	0.2	21.0	1.09	-0.39	-75.25	-1.7	-4.0
1,425.0	0.80	277.10	1,424.7	0.7	18.7	0.08	0.06	-4.53	-3.5	-4.3
1,610.0	1.10	188.90	1,609.7	-0.9	17.1	0.72	0.16	-47.68	2.4	-4.9
1,798.0	1.00	79.10	1,797.6	-2.4	18.5	0.91	-0.05	-58.40	2.8	2.2
1,987.0	1.00	90.30	1,986.6	-2.1	21.7	0.10	0.00	5.93	-0.1	2.0
2,174.0	1.00	89.50	2,173.6	-2.1	25.0	0.01	0.00	-0.43	-3.4	1.9
2,363.0	0.40	81.40	2,362.6	-2.0	27.3	0.32	-0.32	-4.29	-5.9	1.2
2,551.0	0.30	60.50	2,550.6	-1.6	28.4	0.09	-0.05	-11.12	-7.1	-1.2
2,740.0	3.90	29.80	2,739.4	4.2	32.0	1.93	1.90	-16.24	-9.0	-4.7
2,929.0	6.30	32.50	2,927.7	18.5	40.8	1.28	1.27	1.43	-10.6	-3.9
3,118.0	9.40	35.60	3,114.9	39.8	55.3	1.65	1.64	1.64	-8.7	-4.0
3,306.0	10.90	37.10	3,299.9	66.5	75.0	0.81	0.80	0.80	-6.0	-6.0
3,495.0	11.10	34.00	3,485.4	95.8	96.0	0.33	0.11	-1.64	-5.2	-7.9



Midland PVA



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Site: Condor 32 State
Well: #511H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #511H
TVD Reference: KB = 25 @ 3346.0usft (H&P 465)
MD Reference: KB = 25 @ 3346.0usft (H&P 465)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,683.0	9.70	30.30	3,670.3	124.5	114.1	0.82	-0.74	-1.97	-2.2	-7.7	
3,872.0	11.80	28.70	3,856.1	154.9	131.2	1.02	1.01	-0.85	-0.5	-5.5	
4,060.0	11.70	36.10	4,040.2	186.9	151.5	0.80	0.05	3.94	-2.8	-4.9	
4,249.0	11.20	25.50	4,225.5	218.9	170.7	1.14	-0.26	-5.61	-2.9	-4.1	
4,438.0	9.50	31.10	4,411.4	248.9	188.7	1.04	-0.80	2.86	-0.6	-0.9	
4,626.0	12.10	28.20	4,596.1	279.5	204.0	1.41	1.38	-1.54	0.5	1.4	
4,814.0	11.50	31.20	4,780.1	312.9	223.0	0.46	-0.32	1.60	-1.6	3.5	
5,003.0	10.60	39.90	4,965.6	342.4	243.9	1.00	-0.48	4.60	-0.9	2.1	
5,151.0	8.80	41.30	5,111.5	361.3	260.2	1.23	-1.22	0.85	2.6	-1.7	
5,273.0	10.10	32.40	5,231.8	377.4	272.0	1.60	1.07	-7.30	6.5	-2.5	
5,462.0	12.00	27.10	5,417.3	408.8	289.9	1.14	1.01	-2.80	6.9	0.4	
5,650.0	11.70	26.10	5,601.3	443.4	307.2	0.19	-0.16	-0.53	4.3	4.5	
5,839.0	11.80	30.70	5,786.3	477.2	325.5	0.50	0.05	2.43	2.6	7.1	
6,028.0	12.00	37.10	5,971.3	509.5	347.2	0.71	0.11	3.39	0.9	6.3	
6,216.0	11.20	36.00	6,155.4	539.8	369.7	0.44	-0.43	-0.59	-0.8	4.0	
6,405.0	10.00	33.00	6,341.2	568.4	389.4	0.70	-0.63	-1.59	0.8	3.0	
6,593.0	10.60	35.80	6,526.2	596.2	408.4	0.42	0.32	1.49	3.7	2.0	
6,781.0	10.80	34.80	6,710.9	624.7	428.6	0.15	0.11	-0.53	5.1	0.6	
6,970.0	10.40	32.00	6,896.7	653.7	447.7	0.34	-0.21	-1.48	6.8	0.6	
7,158.0	11.20	37.80	7,081.4	682.5	467.9	0.72	0.43	3.09	7.9	-1.5	
7,347.0	10.20	35.90	7,267.1	710.5	489.0	0.56	-0.53	-1.01	9.3	-3.7	
7,535.0	9.20	35.90	7,452.4	736.2	507.6	0.53	-0.53	0.00	14.0	-5.5	
7,724.0	8.30	33.90	7,639.2	759.8	524.0	0.50	-0.48	-1.06	15.9	-6.1	
7,912.0	7.20	32.70	7,825.5	780.9	538.0	0.59	-0.59	-0.84	8.5	-6.0	
8,100.0	4.00	10.30	8,012.6	797.3	545.5	2.03	-1.70	-11.91	-2.2	-4.6	
8,289.0	1.50	347.30	8,201.3	806.2	546.1	1.42	-1.32	-12.17	-8.7	-7.7	
8,478.0	1.10	11.70	8,390.3	810.4	546.0	0.36	-0.21	12.91	-15.2	-2.3	



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Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLog (°/100usft)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,666.0	1.00	211.90	8,578.3	810.8	545.5	1.10	-0.05	-85.00	15.1	-3.7	
8,854.0	1.00	205.30	8,766.3	807.9	543.9	0.06	0.00	-3.51	12.2	-2.1	
9,043.0	0.10	266.40	8,955.2	806.4	543.0	0.51	-0.48	32.33	3.1	-10.2	
9,232.0	0.10	247.10	9,144.2	806.3	542.7	0.02	0.00	-10.21	6.0	-8.7	
9,421.0	0.10	55.80	9,333.2	806.3	542.7	0.11	0.00	89.26	-7.6	7.4	
9,609.0	0.70	34.40	9,521.2	807.4	543.5	0.32	0.32	-11.38	-11.0	4.1	
9,797.0	1.50	29.30	9,709.2	810.5	545.3	0.43	0.43	-2.71	-15.0	3.0	
9,986.0	0.90	330.40	9,898.2	813.9	545.8	0.68	-0.32	-31.16	-13.0	-13.4	
10,175.0	1.20	17.80	10,087.1	817.1	545.7	0.47	0.16	25.08	-21.7	1.6	
10,372.0	0.80	331.40	10,284.1	820.3	545.7	0.44	-0.20	-23.55	-18.9	-16.1	
10,467.0	0.40	15.50	10,379.1	821.2	545.4	0.61	-0.42	46.42	-25.6	2.1	
10,561.0	1.80	167.60	10,473.1	820.1	545.8	2.30	1.49	161.81	22.4	10.3	
10,655.0	7.00	188.00	10,566.8	812.9	545.4	5.89	5.53	21.70	20.3	2.5	
10,749.0	10.70	191.40	10,659.7	798.7	542.8	3.97	3.94	3.62	22.6	1.7	
10,844.0	20.50	194.90	10,751.1	773.9	538.8	10.36	10.32	3.68	28.6	-1.0	
10,891.0	30.40	194.50	10,793.4	754.4	531.7	21.07	21.06	-0.85	29.1	-1.9	
10,938.0	38.40	193.80	10,832.2	728.7	525.2	17.04	17.02	-1.49	25.9	-2.7	
10,985.0	47.20	193.80	10,866.6	697.7	517.6	18.72	18.72	0.00	19.5	-3.8	
11,032.0	54.80	192.10	10,896.2	662.1	509.5	16.41	16.17	-3.62	10.1	-4.3	
11,079.0	63.80	188.20	10,920.2	622.4	502.4	20.43	19.15	-8.30	-2.0	-3.3	
11,126.0	70.60	184.80	10,938.4	579.4	497.5	15.93	14.47	-7.23	-17.2	-1.6	
11,192.8	73.44	183.01	10,959.0	516.0	493.2	4.95	4.25	-2.68	-38.3	2.1	
FTP Crossing 11192.8' MD; 10959.0' TVD; 516.0'; 493.2'; 73.44											
11,220.0	74.60	182.30	10,966.5	488.9	492.0	4.95	4.27	-2.62	-45.7	3.6	
11,314.0	77.30	182.20	10,989.3	398.7	488.4	2.87	2.87	-0.11	-64.2	8.1	
11,408.0	79.20	181.60	11,008.5	306.8	485.4	2.12	2.02	-0.64	-69.8	9.2	
11,502.0	81.40	181.80	11,024.3	214.2	482.6	2.35	2.34	0.21	-61.7	7.1	



Midland PVA



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11,596.0	82.70	182.20	11,037.3	121.1	479.4	1.45	1.38	0.43	-48.7	3.0	
11,661.0	86.50	180.20	11,043.4	56.4	478.0	6.60	5.85	-3.08	-42.6	1.1	
11,691.0	88.00	179.00	11,044.8	26.5	478.2	6.40	5.00	-4.00	-41.1	1.0	
11,785.0	90.60	178.10	11,046.0	-67.5	480.6	2.93	2.77	-0.98	-40.0	2.6	
11,879.0	90.20	178.50	11,045.3	-161.4	483.4	0.60	-0.43	0.43	-40.7	4.5	
11,974.0	88.90	179.50	11,046.1	-256.4	485.1	1.73	-1.37	1.05	-38.9	5.4	
12,068.0	89.40	179.90	11,047.5	-350.4	485.6	0.68	0.53	0.43	-38.5	5.0	
12,162.0	87.90	180.20	11,049.7	-444.4	485.5	1.63	-1.60	0.32	-36.3	4.1	
12,257.0	88.00	180.30	11,053.1	-539.3	485.1	0.15	0.11	0.11	-32.9	2.9	
12,351.0	89.90	180.80	11,054.8	-633.3	484.2	2.09	2.02	0.53	-31.2	1.2	
12,445.0	90.90	180.90	11,054.2	-727.3	482.8	1.07	1.06	0.11	-31.8	-1.0	
12,539.0	91.90	181.30	11,051.9	-821.2	481.0	1.15	1.08	0.43	-34.5	-3.7	
12,634.0	90.80	179.70	11,049.6	-916.2	480.1	2.04	-1.16	-1.68	-37.6	-5.3	
12,728.0	90.70	177.20	11,048.4	-1,010.1	482.7	2.66	-0.11	-2.66	-39.7	-3.6	
12,822.0	92.00	177.50	11,046.2	-1,104.0	487.0	1.42	1.38	0.32	-42.7	-0.1	
12,916.0	92.60	177.00	11,042.4	-1,197.8	491.5	0.83	0.64	-0.53	-47.3	3.6	
13,010.0	90.50	178.40	11,039.9	-1,291.7	495.3	2.68	-2.23	1.49	-50.7	6.6	
13,105.0	90.80	178.40	11,038.8	-1,386.7	497.9	0.32	0.32	0.00	-52.6	8.4	
13,199.0	91.80	178.30	11,036.7	-1,480.6	500.7	1.07	1.06	-0.11	-55.5	10.3	
13,293.0	92.40	178.60	11,033.2	-1,574.5	503.2	0.71	0.64	0.32	-59.3	12.0	
13,387.0	89.80	178.70	11,031.4	-1,668.5	505.4	2.77	-2.77	0.11	-61.5	13.4	
13,481.0	90.70	179.00	11,031.0	-1,762.4	507.3	1.01	0.96	0.32	-62.3	14.5	
13,575.0	91.80	178.70	11,028.9	-1,856.4	509.2	1.21	1.17	-0.32	-64.7	15.6	
13,670.0	90.40	180.40	11,027.1	-1,951.3	509.9	2.32	-1.47	1.79	-66.9	15.5	
13,764.0	89.30	180.70	11,027.4	-2,045.3	509.0	1.21	-1.17	0.32	-67.0	13.8	
13,858.0	88.20	181.70	11,029.4	-2,139.3	507.1	1.58	-1.17	1.06	-65.3	11.0	
13,952.0	88.80	182.20	11,031.9	-2,233.2	503.9	0.83	0.64	0.53	-63.2	7.0	



Midland PVA



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Design: OH		Database: EDM 5000.14	

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14,047.0	89.00	180.40	11,033.7	-2,328.1	501.7	1.91	0.21	-1.89	-61.8	4.0	
14,141.0	90.20	180.40	11,034.4	-2,422.1	501.0	1.28	1.28	0.00	-61.5	2.5	
14,235.0	88.80	180.00	11,035.2	-2,516.1	500.7	1.55	-1.49	-0.43	-60.7	1.4	
14,329.0	89.30	179.80	11,036.7	-2,610.1	500.9	0.57	0.53	-0.21	-58.7	0.7	
14,423.0	90.50	179.90	11,036.9	-2,704.1	501.1	1.28	1.28	0.11	-58.2	0.1	
14,518.0	89.00	179.70	11,037.3	-2,799.1	501.5	1.59	-1.58	-0.21	-57.4	-0.4	
14,612.0	87.60	178.70	11,040.1	-2,893.1	502.8	1.83	-1.49	-1.06	-54.2	0.1	
14,706.0	88.40	178.90	11,043.4	-2,987.0	504.7	0.88	0.85	0.21	-50.6	1.3	
14,800.0	89.80	179.00	11,044.9	-3,081.0	506.5	1.49	1.49	0.11	-49.4	2.2	
14,894.0	90.90	178.70	11,044.3	-3,174.9	508.3	1.21	1.17	-0.32	-50.1	3.3	
14,988.0	92.00	179.40	11,041.8	-3,268.9	509.9	1.39	1.17	0.74	-52.7	4.0	
15,082.0	89.40	179.90	11,040.8	-3,362.9	510.5	2.82	-2.77	0.53	-54.1	3.8	
15,176.0	88.00	181.10	11,042.9	-3,456.8	509.7	1.96	-1.49	1.28	-52.2	2.1	
15,270.0	88.50	181.50	11,045.8	-3,550.8	507.5	0.68	0.53	0.43	-49.5	-0.8	
15,364.0	89.70	181.70	11,047.2	-3,644.7	504.9	1.29	1.28	0.21	-48.3	-4.3	
15,459.0	90.80	182.20	11,046.8	-3,739.7	501.7	1.27	1.16	0.53	-48.9	-8.3	
15,553.0	90.60	181.70	11,045.7	-3,833.6	498.5	0.57	-0.21	-0.53	-50.2	-12.3	
15,647.0	89.70	180.80	11,045.4	-3,927.6	496.4	1.35	-0.96	-0.96	-51.2	-15.2	
15,741.0	90.60	181.20	11,045.2	-4,021.6	494.8	1.05	0.96	0.43	-52.6	-17.6	
15,820.4	91.01	181.41	11,044.1	-4,101.0	493.0	0.58	0.52	0.26	-54.7	-20.1	
LTP Crossing 15820.4' MD; 11044.1' TVD; -4101.0'; 493.0'; 91.01											
15,856.0	91.20	181.50	11,043.4	-4,136.5	492.1	0.58	0.52	0.26	-55.8	-21.4	
Last MWD Survey (MD = 15856.0)											
15,915.0	91.20	181.50	11,042.1	-4,195.5	490.5	0.00	0.00	0.00	-57.8	-23.4	
Projection to Bit (MD = 15915.0)											



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #511H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3346.0usft (H&P 465)
Site:	Conder 32 State	MD Reference:	KB = 25 @ 3346.0usft (H&P 465)
Well:	#511H	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)	
11,192.8	10,959.0	516.0	493.2	FTP Crossing 11192.8' MD; 10959.0' TVD; 516.0'; 493.2'; 73.44
15,820.4	11,044.1	-4,101.0	493.0	LTP Crossing 15820.4' MD; 11044.1' TVD; -4101.0'; 493.0'; 91.01
15,856.0	11,043.4	-4,136.5	492.1	Last MWD Survey (MD = 15856.0)
15,915.0	11,042.1	-4,195.5	490.5	Projection to Bit (MD = 15915.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Condor 32 State #511H

H&P 424

Plan #2

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

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR83 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #511H

KB = 25 @ 3345.0usft (H&P 424)
Northing 398194.00 Easting 801781.00 Longitude 103° 29' 32.402 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
1	974.0	1.80	134.60	973.7	-0.8	18.1	0.00	0.00	2.8	
2	1074.0	1.90	134.60	1073.7	-3.0	20.5	0.00	0.00	5.4	
3	1169.0	0.00	0.00	1168.7	-4.1	21.6	2.00	180.00	6.7	
4	2800.3	0.00	0.00	2800.0	-4.1	21.6	0.00	0.00	6.7	
5	3157.2	11.14	32.97	3153.3	41.2	51.0	2.00	32.97	-34.7	
6	7556.0	11.14	32.97	7449.7	750.7	511.2	0.00	0.00	-683.1	
7	8052.8	0.00	0.00	8053.0	798.0	540.6	2.00	180.00	-724.4	
8	10597.5	0.00	0.00	10507.7	786.0	540.6	0.00	0.00	-724.4	
9	11046.5	44.96	191.39	10912.0	632.0	507.5	10.01	191.39	-655.7	
10	11608.5	90.00	179.50	11085.0	218.3	475.6	10.01	-16.58	-150.9	
11	12488.8	90.00	179.50	11085.0	-761.8	484.1	0.00	0.00	815.0	TGT #1(Condor 32 State #511H)
12	12814.0	89.49	179.50	11085.1	-787.2	484.3	2.00	178.78	840.2	TGT #2(Condor 32 State #511H)
13	13178.1	89.49	179.50	11091.0	-1451.2	490.1	0.00	0.00	1500.0	TGT #3(Condor 32 State #511H)
14	13192.2	89.77	179.50	11091.1	-1465.3	490.2	2.00	-0.01	1514.0	TGT #4(Condor 32 State #511H)
15	14184.6	89.77	179.50	11095.0	-2457.8	498.9	0.00	0.00	2500.0	TGT #5(Condor 32 State #511H)
16	14207.7	90.24	179.50	11095.0	-2480.8	499.1	2.00	0.00	2523.1	TGT #6(Condor 32 State #511H)
17	14687.7	90.24	179.50	11093.0	-2940.8	503.2	0.00	0.00	3000.0	
18	14706.2	89.87	179.50	11093.0	-2979.2	503.4	2.00	-180.00	3018.3	
19	15693.3	89.87	179.50	11095.0	-3866.8	511.1	0.00	0.00	3900.0	
20	15822.6	89.29	179.50	11095.2	-3895.6	511.4	2.00	180.00	3928.9	
21	15927.0	89.29	179.50	11099.0	-4200.0	514.0	0.00	0.00	4231.3	PBHL (Condor 32 State #511H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Condor 32 State #511H)	8003.0	786.0	540.6	398989.99	802231.40
FTP (Condor 32 State #511H)	11085.0	518.0	473.0	398710.00	802254.00
TGT #1(Condor 32 State #511H)	11085.0	-761.8	484.1	397432.20	802255.11
TGT #2(Condor 32 State #511H)	11091.0	-1451.2	490.1	396742.80	802271.10
TGT #3(Condor 32 State #511H)	11093.0	-2860.8	503.2	395233.20	802284.23
TGT #4(Condor 32 State #511H)	11095.0	-2457.8	498.9	395736.40	802279.85
TGT #5(Condor 32 State #511H)	11095.0	-3866.8	511.1	394327.50	802292.10
PBHL (Condor 32 State #511H)	11099.0	-4200.0	514.0	393984.00	802295.00

