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NM OIL CONSERVATION
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Mewbourne Oil Company .

Eddy County, New Mexico

Section 34-23S-28E Yardbird 34 PA Fee #1H

Yardbird 34 PA Fee #1H

Original Hole

Design: Original Hole

Standard Survey Report

07 October, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Yardbird 34 PA Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	3020 + 20 @ 3040.0usft (Patterson # 187)
Site:	Section 34-23S-28E Yardbird 34 PA Fee #1H	MD Reference:	3020 + 20 @ 3040.0usft (Patterson # 187)
Well:	Yardbird 34 PA Fee #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 34-23S-28E Yardbird 34 PA Fee #1H		
Site Position:	Map	Northing:	456,421.70 usft
From:		Easting:	581,995.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 16.350 N
		Longitude:	104° 4' 5.129 W
		Grid Convergence:	0.14 °

Well	Yardbird 34 PA Fee #1H					
Well Position	+N/-S	0.0 usft	Northing:	456,421.70 usft	Latitude:	32° 15' 16.350 N
	+E/-W	0.0 usft	Easting:	581,995.80 usft	Longitude:	104° 4' 5.129 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	20.0 usft	Ground Level:	3,020.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	9/21/2015	7.23	60.03	48,084

Design	Original Hole				
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	1.75	

Survey Program	Date 10/7/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,400.0	Stryker Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
7,500.0	12,825.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.75	131.41	100.0	-0.4	0.5	-0.4	0.75	0.75	0.00
	200.0	1.40	122.08	200.0	-1.5	2.0	-1.5	0.67	0.65	-9.33
	300.0	3.72	171.69	299.9	-5.4	3.5	-5.3	3.01	2.32	49.61
	400.0	2.34	61.84	399.8	-7.6	5.8	-7.4	5.02	-1.38	-109.85
	500.0	2.41	209.56	499.8	-8.5	6.6	-8.3	4.56	0.07	147.72
	600.0	1.08	189.63	599.7	-11.2	5.4	-11.1	1.44	-1.33	-19.93
	700.0	0.63	72.95	699.7	-12.0	5.7	-11.8	1.47	-0.45	-116.68
	800.0	1.63	79.43	799.7	-11.6	7.7	-11.4	1.01	1.00	6.48
	900.0	2.34	9.91	899.6	-9.3	9.4	-9.0	2.34	0.71	-69.52



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Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	1.32	292.84	999.6	-6.9	8.7	-6.6	2.42	-1.02	-77.07
1,100.0	2.00	23.25	1,099.6	-4.8	8.3	-4.6	2.40	0.68	90.41
1,200.0	2.48	22.61	1,199.5	-1.2	9.8	-0.9	0.48	0.48	-0.64
1,300.0	1.20	308.60	1,299.5	1.4	9.9	1.7	2.44	-1.28	-74.01
1,400.0	1.67	219.83	1,399.4	1.0	8.1	1.2	2.04	0.47	-88.77
1,500.0	1.81	113.88	1,499.4	-0.8	8.6	-0.5	2.78	0.14	-105.95
1,600.0	0.39	141.78	1,599.4	-1.7	10.3	-1.4	1.48	-1.42	27.90
1,700.0	1.06	60.19	1,699.4	-1.5	11.3	-1.2	1.07	0.67	-81.59
1,800.0	1.72	19.36	1,799.4	0.4	12.6	0.8	1.15	0.66	-40.83
1,900.0	1.70	71.33	1,899.3	2.3	14.5	2.7	1.50	-0.02	51.97
2,000.0	1.29	25.40	1,999.3	3.8	16.4	4.3	1.23	-0.41	-45.93
2,100.0	1.77	167.51	2,099.3	3.3	17.2	3.8	2.90	0.48	142.11
2,200.0	2.43	203.15	2,199.2	-0.2	16.7	0.3	1.43	0.66	35.64
2,300.0	0.30	147.25	2,299.2	-2.4	16.0	-1.9	2.28	-2.13	-55.90
2,400.0	0.49	233.36	2,399.2	-2.8	15.8	-2.3	0.56	0.19	86.11
2,500.0	0.70	137.42	2,499.2	-3.5	15.9	-3.1	0.90	0.21	-95.94
2,600.0	0.62	329.49	2,599.2	-3.5	16.0	-3.0	1.31	-0.08	-167.93
2,700.0	1.00	253.82	2,699.2	-3.3	14.9	-2.8	1.04	0.38	-75.67
2,800.0	0.92	170.07	2,799.1	-4.3	14.2	-3.9	1.28	-0.08	-83.75
2,900.0	0.96	251.64	2,899.1	-5.4	13.5	-5.0	1.23	0.04	81.57
3,000.0	0.90	250.59	2,999.1	-5.9	12.0	-5.5	0.06	-0.06	-1.05
3,100.0	0.84	264.26	3,099.1	-6.2	10.5	-5.9	0.22	-0.06	13.67
3,200.0	0.73	177.26	3,199.1	-7.0	9.8	-6.7	1.08	-0.11	-87.00
3,300.0	1.06	248.07	3,299.1	-7.9	9.0	-7.7	1.07	0.33	70.81
3,400.0	1.01	277.27	3,399.1	-8.2	7.3	-7.9	0.52	-0.05	29.20
3,500.0	0.95	189.65	3,499.1	-8.9	6.3	-8.7	1.36	-0.06	-87.62
3,600.0	0.49	6.15	3,599.1	-9.3	6.2	-9.1	1.44	-0.46	176.50
3,700.0	0.29	349.32	3,699.1	-8.6	6.2	-8.4	0.23	-0.20	-16.83
3,800.0	0.49	285.24	3,799.1	-8.2	5.7	-8.1	0.45	0.20	-64.08
3,900.0	0.61	336.45	3,899.1	-7.6	5.1	-7.5	0.49	0.12	51.21
4,000.0	0.28	8.37	3,999.1	-6.9	4.9	-6.8	0.40	-0.33	31.92
4,100.0	1.05	265.51	4,099.0	-6.7	4.0	-6.6	1.15	0.77	-102.86
4,200.0	0.94	33.55	4,199.0	-6.1	3.6	-6.0	1.79	-0.11	128.04
4,300.0	0.91	275.04	4,299.0	-5.4	3.2	-5.3	1.59	-0.03	-118.51
4,400.0	0.88	349.25	4,399.0	-4.5	2.3	-4.5	1.08	-0.03	74.21
4,500.0	0.33	319.28	4,499.0	-3.6	2.0	-3.5	0.62	-0.55	-29.97
4,600.0	0.84	272.88	4,599.0	-3.3	1.0	-3.3	0.66	0.51	-46.40
4,700.0	0.91	10.58	4,699.0	-2.5	0.5	-2.5	1.32	0.07	97.70
4,800.0	1.12	259.91	4,799.0	-1.9	-0.4	-1.9	1.67	0.21	-110.67
4,900.0	1.26	290.02	4,899.0	-1.7	-2.4	-1.8	0.63	0.14	30.11
5,000.0	1.07	309.74	4,999.0	-0.7	-4.1	-0.8	0.44	-0.19	19.72
5,100.0	0.70	293.65	5,098.9	0.1	-5.4	0.0	0.44	-0.37	-16.09
5,200.0	0.42	25.09	5,198.9	0.7	-5.8	0.5	0.83	-0.28	91.44



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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	0.14	14.04	5,298.9	1.2	-5.6	1.0	0.28	-0.28	-11.05	
5,400.0	0.32	59.20	5,398.9	1.4	-5.3	1.3	0.24	0.18	45.16	
5,500.0	0.58	46.90	5,498.9	1.9	-4.7	1.8	0.28	0.26	-12.30	
5,600.0	0.92	280.22	5,598.9	2.4	-5.1	2.2	1.35	0.34	-126.68	
5,700.0	0.93	280.19	5,698.9	2.7	-6.7	2.5	0.01	0.01	-0.03	
5,800.0	0.84	288.38	5,798.9	3.1	-8.2	2.8	0.16	-0.09	8.19	
5,900.0	1.08	295.79	5,898.9	3.7	-9.8	3.4	0.27	0.24	7.41	
6,000.0	1.09	314.48	5,998.9	4.8	-11.3	4.4	0.35	0.01	18.69	
6,100.0	1.29	315.70	6,098.9	6.2	-12.8	5.9	0.20	0.20	1.22	
6,200.0	1.32	325.20	6,198.8	8.0	-14.2	7.6	0.22	0.03	9.50	
6,300.0	1.26	271.47	6,298.8	9.0	-16.0	8.5	1.17	-0.06	-53.73	
6,400.0	1.25	299.44	6,398.8	9.5	-18.0	9.0	0.61	-0.01	27.97	
6,500.0	1.22	305.93	6,498.8	10.7	-19.8	10.1	0.14	-0.03	6.49	
6,600.0	1.43	292.83	6,598.7	11.8	-21.8	11.1	0.37	0.21	-13.10	
6,700.0	2.49	326.58	6,698.7	14.1	-24.2	13.4	1.52	1.06	33.75	
6,800.0	2.16	321.02	6,798.6	17.4	-26.6	16.6	0.40	-0.33	-5.56	
6,900.0	3.10	359.93	6,898.5	21.6	-27.8	20.7	1.96	0.94	38.91	
7,000.0	2.24	358.28	6,998.4	26.2	-27.8	25.3	0.86	-0.86	-1.65	
7,100.0	1.88	18.01	7,098.3	29.7	-27.4	28.9	0.79	-0.36	19.73	
7,200.0	1.42	356.31	7,198.3	32.5	-26.9	31.7	0.77	-0.46	-21.70	
7,300.0	2.45	0.89	7,298.2	35.9	-27.0	35.1	1.04	1.03	4.58	
7,400.0	2.48	18.18	7,398.1	40.1	-26.3	39.3	0.74	0.03	17.29	
7400' MD Stryker Gyro										
7,500.0	1.80	191.20	7,498.1	40.6	-25.9	39.8	4.27	-0.68	173.02	
7,594.0	1.80	189.10	7,592.1	37.7	-26.4	36.9	0.07	0.00	-2.23	
7,625.0	4.80	161.90	7,623.0	36.0	-26.1	35.2	10.65	9.68	-87.74	
7,657.0	5.50	157.30	7,654.9	33.3	-25.1	32.5	2.54	2.19	-14.38	
7,689.0	2.30	136.40	7,686.8	31.4	-24.1	30.7	10.78	-10.00	-65.31	
7,720.0	2.90	141.10	7,717.8	30.4	-23.1	29.6	2.05	1.94	15.16	
7,752.0	3.20	110.50	7,749.7	29.4	-21.8	28.7	5.11	0.94	-95.63	
7,784.0	4.00	34.00	7,781.7	30.0	-20.3	29.4	14.06	2.50	-239.06	
7,815.0	7.60	10.70	7,812.5	32.9	-19.4	32.3	13.65	11.61	-75.16	
7,847.0	11.10	0.70	7,844.1	38.1	-18.9	37.5	12.02	10.94	-31.25	
7,879.0	15.10	356.90	7,875.3	45.3	-19.1	44.7	12.78	12.50	-11.88	
7,911.0	19.00	354.30	7,905.8	54.7	-19.9	54.1	12.42	12.19	-8.13	
7,943.0	22.50	352.60	7,935.8	65.9	-21.2	65.3	11.10	10.94	-5.31	
7,974.0	26.20	353.40	7,964.0	78.6	-22.7	77.9	11.98	11.94	2.58	
8,006.0	30.30	356.20	7,992.2	93.7	-24.1	92.9	13.46	12.81	8.75	
8,037.0	34.50	357.90	8,018.3	110.3	-24.9	109.5	13.86	13.55	5.48	
8,069.0	38.90	357.10	8,044.0	129.4	-25.7	128.5	13.83	13.75	-2.50	
8,101.0	43.30	355.20	8,068.1	150.4	-27.2	149.5	14.29	13.75	-5.94	
8,132.0	47.70	355.50	8,089.8	172.4	-29.0	171.4	14.21	14.19	0.97	
8,164.0	50.80	358.60	8,110.7	196.6	-30.2	195.6	12.15	9.69	9.69	

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Survey									
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8,196.0	54.00	2.70	8,130.2	221.9	-29.9	220.9	14.25	10.00	12.81
8,228.0	57.80	4.30	8,148.2	248.4	-28.3	247.4	12.58	11.88	5.00
8,259.0	60.40	3.60	8,164.1	274.9	-26.4	274.0	8.61	8.39	-2.26
8,291.0	63.20	3.00	8,179.2	303.1	-24.8	302.2	8.90	8.75	-1.88
8,323.0	65.40	2.10	8,193.1	331.9	-23.5	331.0	7.33	6.88	-2.81
8,355.0	68.30	1.00	8,205.7	361.3	-22.7	360.4	9.60	9.06	-3.44
8,386.0	71.90	1.40	8,216.2	390.4	-22.1	389.6	11.68	11.61	1.29
8,418.0	75.40	2.20	8,225.2	421.1	-21.2	420.3	11.20	10.94	2.50
8,450.0	78.30	3.50	8,232.5	452.2	-19.6	451.4	9.89	9.06	4.06
8,481.0	80.30	4.20	8,238.3	482.6	-17.6	481.8	6.82	6.45	2.26
LP Yardbird 34 PA Fee #1H									
8,513.0	82.10	4.10	8,243.2	514.2	-15.3	513.5	5.63	5.63	-0.31
8,545.0	83.00	3.50	8,247.3	545.8	-13.2	545.2	3.37	2.81	-1.88
8,576.0	83.70	3.30	8,250.9	576.6	-11.3	575.9	2.35	2.26	-0.65
8,608.0	86.40	2.60	8,253.7	608.4	-9.7	607.8	8.71	8.44	-2.19
8,632.0	88.40	2.10	8,254.8	632.3	-8.7	631.8	8.59	8.33	-2.08
8,663.0	89.90	2.00	8,255.2	663.3	-7.6	662.8	4.85	4.84	-0.32
8,695.0	90.10	1.80	8,255.2	695.3	-6.5	694.8	0.88	0.63	-0.63
8,727.0	90.10	1.30	8,255.2	727.3	-5.7	726.8	1.56	0.00	-1.56
8,822.0	90.80	1.10	8,254.4	822.3	-3.7	821.8	0.77	0.74	-0.21
8,917.0	89.50	2.70	8,254.2	917.2	-0.5	916.8	2.17	-1.37	1.68
9,012.0	89.80	2.20	8,254.7	1,012.1	3.5	1,011.8	0.61	0.32	-0.53
9,107.0	89.80	3.40	8,255.1	1,107.0	8.2	1,106.7	1.26	0.00	1.26
9,202.0	88.70	3.50	8,256.3	1,201.8	13.9	1,201.7	1.16	-1.16	0.11
9,297.0	88.70	3.10	8,258.5	1,296.6	19.3	1,296.6	0.42	0.00	-0.42
9,392.0	88.60	2.00	8,260.7	1,391.5	23.6	1,391.6	1.16	-0.11	-1.16
9,486.0	89.20	3.20	8,262.5	1,485.4	27.8	1,485.6	1.43	0.64	1.28
9,581.0	89.80	3.50	8,263.3	1,580.2	33.4	1,580.5	0.71	0.63	0.32
9,676.0	89.20	3.50	8,264.2	1,675.1	39.2	1,675.5	0.63	-0.63	0.00
9,770.0	90.20	3.80	8,264.7	1,768.9	45.2	1,769.4	1.11	1.06	0.32
9,866.0	90.50	3.50	8,264.1	1,864.7	51.3	1,865.4	0.44	0.31	-0.31
9,960.0	89.80	2.80	8,263.8	1,958.5	56.4	1,959.3	1.05	-0.74	-0.74
10,055.0	90.20	2.70	8,263.8	2,053.4	61.0	2,054.3	0.43	0.42	-0.11
10,150.0	90.80	2.90	8,263.0	2,148.3	65.6	2,149.3	0.67	0.63	0.21
10,245.0	90.40	2.00	8,262.0	2,243.2	69.7	2,244.3	1.04	-0.42	-0.95
10,339.0	88.90	1.90	8,262.6	2,337.1	72.9	2,338.3	1.60	-1.60	-0.11
10,434.0	91.00	4.00	8,262.7	2,432.0	77.8	2,433.2	3.13	2.21	2.21
10,528.0	90.80	2.70	8,261.2	2,525.8	83.3	2,527.2	1.40	-0.21	-1.38
10,624.0	91.10	2.10	8,259.6	2,621.7	87.3	2,623.2	0.70	0.31	-0.63
10,718.0	89.70	1.30	8,258.9	2,715.7	90.1	2,717.2	1.72	-1.49	-0.85
10,813.0	90.30	1.00	8,258.9	2,810.7	92.0	2,812.2	0.71	0.63	-0.32
10,907.0	89.60	3.20	8,259.0	2,904.6	95.4	2,906.2	2.46	-0.74	2.34
11,002.0	88.50	3.30	8,260.6	2,999.4	100.8	3,001.1	1.16	-1.16	0.11
11,097.0	88.70	2.70	8,262.9	3,094.3	105.8	3,096.1	0.67	0.21	-0.63



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Yardbird 34 PA Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	3020 + 20 @ 3040.0usft (Patterson # 187)
Site:	Section 34-23S-28E Yardbird 34 PA Fee #1H	MD Reference:	3020 + 20 @ 3040.0usft (Patterson # 187)
Well:	Yardbird 34 PA Fee #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,192.0	89.50	3.10	8,264.4	3,189.1	110.6	3,191.0	0.94	0.84	0.42
11,286.0	88.00	2.60	8,266.5	3,283.0	115.3	3,285.0	1.68	-1.60	-0.53
11,381.0	87.60	2.10	8,270.1	3,377.8	119.2	3,379.9	0.67	-0.42	-0.53
11,476.0	87.80	1.30	8,273.9	3,472.7	122.0	3,474.8	0.87	0.21	-0.84
11,570.0	88.70	1.10	8,276.8	3,566.7	124.0	3,568.8	0.98	0.96	-0.21
11,665.0	89.00	0.70	8,278.7	3,661.6	125.4	3,663.8	0.53	0.32	-0.42
11,761.0	91.50	1.90	8,278.3	3,757.6	127.6	3,759.7	2.89	2.60	1.25
11,855.0	93.40	2.10	8,274.3	3,851.4	130.9	3,853.7	2.03	2.02	0.21
11,950.0	90.90	2.70	8,270.7	3,946.3	134.9	3,948.6	2.71	-2.63	0.63
12,045.0	91.20	2.30	8,269.0	4,041.2	139.0	4,043.5	0.53	0.32	-0.42
12,140.0	89.60	2.40	8,268.3	4,136.1	142.9	4,138.5	1.69	-1.68	0.11
12,235.0	89.60	2.60	8,269.0	4,231.0	147.1	4,233.5	0.21	0.00	0.21
12,329.0	90.20	2.50	8,269.1	4,324.9	151.2	4,327.5	0.65	0.64	-0.11
12,423.0	89.90	2.00	8,269.0	4,418.8	154.9	4,421.5	0.62	-0.32	-0.53
12,519.0	90.90	2.00	8,268.4	4,514.8	158.3	4,517.5	1.04	1.04	0.00
12,613.0	90.40	0.40	8,267.3	4,608.7	160.2	4,611.5	1.78	-0.53	-1.70
12,708.0	90.00	359.40	8,267.0	4,703.7	160.1	4,706.4	1.13	-0.42	-1.05
12,780.0	91.10	359.80	8,266.3	4,775.7	159.6	4,778.4	1.63	1.53	0.56
12,825.0	91.10	359.80	8,265.4	4,820.7	159.4	4,823.4	0.00	0.00	0.00

12825' MD Projected to Bit - PBHL Yardbird 34 PA Fee #1H

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,400.0	7,398.1	40.1	-26.3	7400' MD Stryker Gyro
12,825.0	8,265.4	4,820.7	159.4	12825' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Yardbird 34 PA Fee #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson # 187



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.09°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001 3020 + 20 @ 3040 0usft (Patterson # 187) GROUND ELEVATION: 3020.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	456421.70	581995.80	32° 15' 16.350 N	104° 4' 5.129 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	7400.0	2.48	18.18	7398.1	40.1	-26.3	0.00	0.00	39.3	
2	7799.7	2.48	18.18	7797.5	56.5	-20.9	0.00	0.00	55.9	
3	8527.6	89.73	1.96	8255.0	530.9	0.8	12.00	-16.24	530.7	
4	12827.0	89.73	1.96	8275.0	4827.7	147.5	0.00	0.00	4830.0	PBHL Yardbird 34 PA Fee #1H

SHL 150' FSL; 610' FEL
 Section 34-23S-28E
 PBHL 330' FNL; 500' FEL
 Section 34-23S-28E

