



January 24, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 3, 2018, through December 22, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 570feet to a depth of 16,975feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Fleetwood 36 25 W0NK State Com #1H, well API # 30-015-44965 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fleetwood 36-25 W0NK St Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Site:	Section 36-24-24S-28E Fleetwood 36-25 W0NK	MD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Well:	Fleetwood 36-25 W0NK St Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project:	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Section 36-24-24S-28E Fleetwood 36-25 W0NK St Com
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Site Position:		Northing:	424,689.50 usft	Latitude:	32° 10' 1.985 N
From:	Map	Easting:	630,951.80 usft	Longitude:	104° 2' 37.383 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well		Fleetwood 36-25 W0NK St Com 1H				
Well Position	+N/-S	0.0 usft	Northing:	424,689.50 usft	Latitude:	32° 10' 1.985 N
	+E/-W	0.0 usft	Easting:	630,951.80 usft	Longitude:	104° 2' 37.383 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,945.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/21/18	7.03	59.92	47,727.96344773

Design:	Original Hole
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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	177.53

Survey Program		Date 12/27/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
402.0	17,020.0	MWD Survey #1 (Original Hole)	MWD	MWD v3:standard declination

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Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
402.0	0.82	192.80	402.0	2,570.0	-3.9	0.2	3.9	177.53	Tie-In	
Phoenix Gryo Survey										
570.0	1.10	141.40	569.9	2,402.1	-6.4	0.9	6.4	171.88		
755.0	3.10	88.00	754.8	2,217.2	-7.6	7.0	10.3	137.23		
949.0	0.90	351.40	948.7	2,023.3	-5.9	12.0	13.4	116.10		
1,140.0	0.90	327.60	1,139.7	1,832.3	-3.1	11.0	11.4	105.95		
1,330.0	0.20	263.50	1,329.7	1,642.3	-1.9	9.9	10.1	101.02		
1,520.0	0.40	254.10	1,519.7	1,452.3	-2.1	8.9	9.2	103.53		
1,711.0	0.70	270.60	1,710.7	1,261.3	-2.3	7.1	7.5	108.04		
1,901.0	0.30	317.60	1,900.7	1,071.3	-1.9	5.6	5.9	109.04		
2,091.0	0.80	84.90	2,090.7	881.3	-1.4	6.6	6.7	102.40		
2,281.0	1.40	87.90	2,280.6	691.4	-1.2	10.2	10.3	96.94		
2,472.0	2.20	94.30	2,471.5	500.5	-1.4	16.2	16.3	95.06		
2,568.0	1.80	98.80	2,567.5	404.5	-1.8	19.5	19.6	95.27		
2,693.0	1.60	96.50	2,692.4	279.6	-2.3	23.2	23.3	95.66		
2,883.0	4.60	107.10	2,882.1	89.9	-4.8	33.1	33.5	98.31		
3,074.0	4.60	105.00	3,072.5	-100.5	-9.1	47.9	48.7	100.74		
3,263.0	4.40	101.50	3,260.9	-288.9	-12.5	62.3	63.5	101.33		
3,454.0	4.00	99.60	3,451.4	-479.4	-15.1	76.0	77.5	101.20		
3,644.0	5.10	100.40	3,640.8	-668.8	-17.7	90.9	92.6	101.01		
3,834.0	6.80	111.30	3,829.8	-857.8	-23.3	109.7	112.1	101.99		
4,024.0	6.60	110.40	4,018.5	-1,046.5	-31.2	130.4	134.1	103.45		
4,214.0	5.80	110.20	4,207.4	-1,235.4	-38.3	149.6	154.4	104.36		
4,405.0	5.90	112.00	4,397.4	-1,425.4	-45.3	167.8	173.8	105.12		
4,596.0	6.10	102.10	4,587.3	-1,615.3	-51.1	186.8	193.7	105.31		
4,786.0	5.60	102.50	4,776.4	-1,804.4	-55.2	205.7	213.0	105.03		
4,977.0	5.10	101.50	4,966.5	-1,994.5	-59.0	223.1	230.8	104.80		

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi/(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,167.0	4.10	101.50	5,155.9	-2,183.9	-62.0	238.1	246.0	104.60	
5,358.0	4.00	102.00	5,346.4	-2,374.4	-64.7	251.3	259.5	104.45	
5,548.0	3.60	100.60	5,536.0	-2,564.0	-67.2	263.6	272.1	104.30	
5,739.0	3.50	104.10	5,726.6	-2,754.6	-69.7	275.2	283.9	104.22	
5,928.0	3.40	101.30	5,915.3	-2,943.3	-72.2	286.3	295.2	104.16	
6,118.0	4.70	96.40	6,104.8	-3,132.8	-74.2	299.5	308.6	103.92	
6,308.0	4.50	97.80	6,294.2	-3,322.2	-76.1	314.6	323.7	103.60	
6,498.0	4.70	98.30	6,483.6	-3,511.6	-78.2	329.7	338.9	103.35	
6,687.0	4.80	112.60	6,672.0	-3,700.0	-82.4	344.7	354.4	103.44	
6,874.0	3.50	119.60	6,858.5	-3,886.5	-88.2	356.9	367.6	103.88	
7,065.0	0.80	91.50	7,049.3	-4,077.3	-91.1	363.3	374.5	104.08	
7,256.0	2.50	86.60	7,240.2	-4,268.2	-90.9	368.8	379.8	103.85	
7,444.0	4.30	97.90	7,427.9	-4,455.9	-91.6	379.9	390.8	103.56	
7,633.0	2.80	90.10	7,616.5	-4,644.5	-92.6	391.5	402.3	103.31	
7,822.0	2.90	124.00	7,805.3	-4,833.3	-95.3	400.1	411.3	103.40	
8,013.0	3.60	110.60	7,996.0	-5,024.0	-100.1	409.7	421.7	103.73	
8,203.0	4.30	109.20	8,185.6	-5,213.6	-104.6	422.0	434.8	103.92	
8,393.0	4.30	110.80	8,375.0	-5,403.0	-109.4	435.4	448.9	104.11	
8,583.0	2.00	205.10	8,564.8	-5,592.8	-115.0	440.6	455.4	104.62	
8,774.0	1.10	324.70	8,755.8	-5,783.8	-116.5	438.2	453.4	104.89	
8,964.0	0.50	230.20	8,945.8	-5,973.8	-115.5	436.5	451.5	104.83	
9,118.2	0.98	214.71	9,099.9	-6,127.9	-117.0	435.2	450.7	105.05	
B.B. Fleetwood 36-25 W0NK St Com 1H									
9,156.0	1.10	213.00	9,137.7	-6,165.7	-117.6	434.8	450.5	105.14	
9,180.0	1.00	207.50	9,161.7	-6,189.7	-118.0	434.6	450.3	105.19	
9,249.0	2.10	336.30	9,230.7	-6,258.7	-117.4	433.8	449.4	105.14	
9,280.0	6.30	349.80	9,261.6	-6,289.6	-115.2	433.3	448.3	104.89	

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,312.0	10.20	359.80	9,293.3	-6,321.3	-110.6	433.0	446.9	104.33	
9,343.0	13.60	4.20	9,323.6	-6,351.6	-104.2	433.2	445.6	103.53	
9,375.0	15.80	2.90	9,354.6	-6,382.6	-96.1	433.7	444.2	102.50	
9,407.0	21.00	2.00	9,384.9	-6,412.9	-86.0	434.1	442.6	101.21	
9,439.0	26.00	2.10	9,414.3	-6,442.3	-73.3	434.6	440.7	99.57	
9,471.0	30.50	3.70	9,442.4	-6,470.4	-58.2	435.4	439.3	97.61	
9,503.0	34.30	5.80	9,469.5	-6,497.5	-41.1	436.8	438.7	95.37	
9,535.0	38.20	7.30	9,495.3	-6,523.3	-22.3	439.0	439.6	92.91	
9,566.0	41.40	6.70	9,519.1	-6,547.1	-2.6	441.4	441.4	90.34	
9,598.0	45.80	5.40	9,542.2	-6,570.2	19.3	443.7	444.1	87.50	
9,629.0	48.30	3.00	9,563.4	-6,591.4	42.0	445.4	447.3	84.62	
9,660.0	50.10	1.50	9,583.6	-6,611.6	65.4	446.3	451.1	81.66	
9,692.0	53.80	0.70	9,603.3	-6,631.3	90.6	446.8	455.9	78.54	
9,724.0	56.90	359.70	9,621.5	-6,649.5	116.9	446.9	461.9	75.34	
9,756.0	59.20	358.20	9,638.5	-6,666.5	144.1	446.4	469.0	72.11	
9,788.0	61.80	356.90	9,654.2	-6,682.2	171.9	445.2	477.2	68.89	
9,820.0	64.80	356.10	9,668.6	-6,696.6	200.4	443.4	486.6	65.68	
9,852.0	68.30	356.00	9,681.3	-6,709.3	229.7	441.4	497.6	62.51	
9,883.0	72.00	356.20	9,691.9	-6,719.9	258.8	439.4	510.0	59.50	
9,915.0	75.80	356.90	9,700.7	-6,728.7	289.5	437.6	524.6	56.51	
9,947.0	78.60	357.50	9,707.8	-6,735.8	320.6	436.0	541.2	53.67	
9,970.0	80.60	358.20	9,712.0	-6,740.0	343.2	435.2	554.3	51.74	
10,020.0	83.80	0.20	9,718.8	-6,746.8	392.8	434.5	585.7	47.89	
10,084.0	87.80	0.50	9,723.4	-6,751.4	456.6	434.9	630.5	43.61	
10,104.6	88.47	0.67	9,724.1	-6,752.1	477.2	435.1	645.8	42.36	
LP Fleetwood 36-25 W0NK St Com 1H									
10,180.0	90.90	1.30	9,724.5	-6,752.5	552.5	436.4	704.1	38.30	

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10,275.0	89.80	0.60	9,723.9	-6,751.9	647.5	438.0	781.7	34.07
10,371.0	91.50	2.80	9,722.9	-6,750.9	743.5	440.8	864.3	30.66
10,466.0	87.10	359.10	9,724.0	-6,752.0	838.4	442.4	948.0	27.82
10,561.0	86.30	359.30	9,729.5	-6,757.5	933.2	441.1	1,032.2	25.30
10,656.0	87.10	359.10	9,735.0	-6,763.0	1,028.1	439.7	1,118.2	23.16
10,751.0	91.30	0.80	9,736.3	-6,764.3	1,123.0	439.7	1,206.0	21.38
10,846.0	90.30	359.90	9,735.0	-6,763.0	1,218.0	440.2	1,295.2	19.87
10,940.0	93.90	359.30	9,731.5	-6,759.5	1,311.9	439.6	1,383.6	18.52
11,035.0	94.20	359.20	9,724.8	-6,752.8	1,406.7	438.3	1,473.4	17.31
11,130.0	90.40	359.30	9,721.0	-6,749.0	1,501.6	437.1	1,563.9	16.23
11,226.0	90.20	359.30	9,720.5	-6,748.5	1,597.6	435.9	1,656.0	15.26
11,321.0	87.50	357.90	9,722.4	-6,750.4	1,692.5	433.6	1,747.2	14.37
11,416.0	93.90	0.60	9,721.2	-6,749.2	1,787.5	432.4	1,839.0	13.60
11,511.0	88.50	359.40	9,719.2	-6,747.2	1,882.4	432.4	1,931.4	12.94
11,606.0	88.40	359.10	9,721.8	-6,749.8	1,977.4	431.1	2,023.8	12.30
11,701.0	90.00	355.20	9,723.1	-6,751.1	2,072.2	426.4	2,115.6	11.63
11,797.0	93.00	354.90	9,720.6	-6,748.6	2,167.8	418.1	2,207.8	10.92
11,892.0	90.60	354.40	9,717.6	-6,745.6	2,262.3	409.3	2,299.1	10.25
11,987.0	88.20	358.70	9,718.6	-6,746.6	2,357.1	403.6	2,391.4	9.72
12,082.0	90.00	1.40	9,720.1	-6,748.1	2,452.1	403.6	2,485.1	9.35
12,176.0	90.40	1.50	9,719.8	-6,747.8	2,546.1	406.0	2,578.3	9.06
12,270.0	93.90	4.50	9,716.3	-6,744.3	2,639.9	410.9	2,671.7	8.85
12,365.0	90.30	3.90	9,712.8	-6,740.8	2,734.5	417.9	2,766.3	8.69
12,460.0	88.50	3.70	9,713.8	-6,741.8	2,829.3	424.2	2,860.9	8.53
12,555.0	92.60	3.60	9,712.9	-6,740.9	2,924.1	430.2	2,955.6	8.37
12,650.0	89.30	1.90	9,711.3	-6,739.3	3,019.0	434.8	3,050.1	8.20
12,745.0	90.60	2.00	9,711.4	-6,739.4	3,113.9	438.0	3,144.6	8.01

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12,841.0	90.60	358.30	9,710.4	-6,738.4	3,209.9	438.3	3,239.7	7.77
12,936.0	88.40	354.00	9,711.2	-6,739.2	3,304.6	431.9	3,332.7	7.45
13,031.0	92.10	356.10	9,710.8	-6,738.8	3,399.2	423.7	3,425.6	7.10
13,126.0	91.50	353.10	9,707.8	-6,735.8	3,493.8	414.8	3,518.3	6.77
13,221.0	89.80	355.70	9,706.7	-6,734.7	3,588.3	405.5	3,611.1	6.45
13,315.0	89.10	0.50	9,707.6	-6,735.6	3,682.2	402.4	3,704.1	6.24
13,410.0	91.80	0.80	9,706.9	-6,734.9	3,777.2	403.4	3,798.7	6.10
13,505.0	91.30	4.30	9,704.3	-6,732.3	3,872.1	407.7	3,893.5	6.01
13,600.0	88.70	3.60	9,704.3	-6,732.3	3,966.8	414.2	3,988.4	5.96
13,695.0	92.70	7.50	9,703.2	-6,731.2	4,061.3	423.4	4,083.3	5.95
13,790.0	89.50	9.90	9,701.3	-6,729.3	4,155.2	437.8	4,178.2	6.01
13,885.0	89.80	15.10	9,701.9	-6,729.9	4,247.9	458.3	4,272.6	6.16
13,981.0	88.20	9.10	9,703.6	-6,731.6	4,341.7	478.4	4,368.0	6.29
14,076.0	89.70	1.20	9,705.3	-6,733.3	4,436.2	486.9	4,462.9	6.26
14,171.0	89.40	357.30	9,706.1	-6,734.1	4,531.2	485.7	4,557.2	6.12
14,266.0	96.50	358.30	9,701.2	-6,729.2	4,626.0	482.1	4,651.0	5.95
14,361.0	93.60	356.80	9,692.8	-6,720.8	4,720.5	478.0	4,744.6	5.78
14,456.0	91.30	357.70	9,688.8	-6,716.8	4,815.3	473.5	4,838.5	5.62
14,552.0	90.20	356.90	9,687.5	-6,715.5	4,911.2	468.9	4,933.5	5.45
14,646.0	89.50	356.60	9,687.8	-6,715.8	5,005.0	463.6	5,026.4	5.29
14,741.0	91.60	358.50	9,686.9	-6,714.9	5,099.9	459.6	5,120.6	5.15
14,836.0	90.60	358.00	9,685.0	-6,713.0	5,194.9	456.6	5,214.9	5.02
14,931.0	89.50	357.70	9,684.9	-6,712.9	5,289.8	453.1	5,309.2	4.90
15,026.0	91.00	358.50	9,684.5	-6,712.5	5,384.7	449.9	5,403.5	4.78
15,120.0	89.70	358.40	9,684.0	-6,712.0	5,478.7	447.4	5,496.9	4.67
15,215.0	89.50	358.40	9,684.6	-6,712.6	5,573.6	444.7	5,591.4	4.56
15,310.0	90.70	359.30	9,684.5	-6,712.5	5,668.6	442.8	5,685.9	4.47

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fleetwood 36-25 W0NK St Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Site:	Section 36-24-24S-28E Fleetwood 36-25 W0NK	MD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Well:	Fleetwood 36-25 W0NK St Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,405.0	89.30	359.10	9,684.5	-6,712.5	5,763.6	441.5	5,780.5	4.38
15,500.0	91.00	359.90	9,684.2	-6,712.2	5,858.6	440.7	5,875.2	4.30
15,594.0	89.70	358.50	9,683.6	-6,711.6	5,952.6	439.4	5,968.8	4.22
15,689.0	88.60	358.10	9,685.0	-6,713.0	6,047.5	436.5	6,063.3	4.13
15,784.0	88.30	358.30	9,687.6	-6,715.6	6,142.5	433.6	6,157.7	4.04
15,879.0	90.00	358.80	9,689.0	-6,717.0	6,237.4	431.2	6,252.3	3.95
15,974.0	90.40	359.10	9,688.7	-6,716.7	6,332.4	429.4	6,346.9	3.88
16,070.0	90.30	358.80	9,688.1	-6,716.1	6,428.4	427.7	6,442.6	3.81
16,165.0	90.20	358.40	9,687.7	-6,715.7	6,523.3	425.3	6,537.2	3.73
16,260.0	89.90	358.40	9,687.6	-6,715.6	6,618.3	422.7	6,631.8	3.65
16,355.0	89.90	357.80	9,687.8	-6,715.8	6,713.3	419.5	6,726.4	3.58
16,449.0	90.60	357.70	9,687.4	-6,715.4	6,807.2	415.8	6,819.9	3.50
16,544.0	90.30	357.80	9,686.6	-6,714.6	6,902.1	412.1	6,914.4	3.42
16,639.0	89.00	357.20	9,687.2	-6,715.2	6,997.0	408.0	7,008.9	3.34
16,734.0	88.70	357.20	9,689.1	-6,717.1	7,091.9	403.3	7,103.3	3.26
16,829.0	92.00	359.20	9,688.5	-6,716.5	7,186.8	400.4	7,198.0	3.19
16,924.0	89.00	358.40	9,687.7	-6,715.7	7,281.8	398.4	7,292.7	3.13
16,975.0	88.60	358.30	9,688.8	-6,716.8	7,332.7	396.9	7,343.5	3.10
17,020.0	88.60	358.30	9,689.9	-6,717.9	7,377.7	395.6	7,388.3	3.07
17020.0' MD Projected to Bit - PBHL Fleetwood 36-24 W0NK St Com 1H								

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
402.0	402.0	-3.9	0.2	Phoenix Gryo Survey
17,020.0	9,689.9	7,377.7	395.6	17020.0' MD Projected to Bit

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.88°

GEODETIC ZONE: New Mexico Eastern Zone
2945 + 27 @ 2972.0usft (Patterson 562)
GROUND ELEVATION: 2945.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	424689.50	630951.80	32° 10' 1.985 N	104° 2' 37.383 W	

PLAN SECTIONS

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	2660.0	0.00	0.00	2660.0	0.0	0.0	0.00	0.00	0.0	
3	2949.6	4.34	104.90	2949.3	-2.8	10.6	1.50	104.90	-2.2	
4	8827.9	4.34	104.90	8810.7	-117.3	440.8	0.00	0.00	-92.8	
5	9117.4	0.00	0.00	9100.0	-120.1	451.5	1.50	180.00	-95.0	B.B. Fleetwood 36-25 W0NK St Com 1H
6	9270.0	0.00	0.00	9252.6	-120.1	451.5	0.00	0.00	-95.0	
7	10020.9	90.11	359.67	9730.0	358.3	448.7	12.00	359.67	382.5	
8	17044.1	90.11	359.67	9717.0	7381.3	408.0	0.00	0.00	7392.6	PBHL Fleetwood 36-24 W0NK St Com 1H

SHL: 270' FSL; 1750' FWL
Section 36-24S-28E
PBHL: 2310 FSL; 2200 FWL
Section 25-24S-28E

