



Mewbourne Oil Company .

Eddy County, New Mexico

Section 27-23S-28E Speedwagon 27 W2DM Fee #1H

Speedwagon 27 W2DM Fee #1H

Original Hole

Plan: Plan#1

Standard Planning Report

25 August, 2015

Oil Conservation Division
Case No. 13
Exhibit No.





Stryker Directional Planning Report



Database: Stryker_EDM
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 27-23S-28E Speedwagon 27 W2DM Fee #1H
Well: Speedwagon 27 W2DM Fee #1H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Speedwagon 27 W2DM Fee #1H
TVD Reference: 3038 + 20 @ 3058.0usft (Patterson)
MD Reference: 3038 + 20 @ 3058.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 27-23S-28E Speedwagon 27 W2DM Fee #1H		
Site Position:	Northings:	466,685.90 usft	Latitude: 32° 16' 58.024 N
From: Map	Easting:	577,949.80 usft	Longitude: 104° 4' 51.964 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.13 "

Well	Speedwagon 27 W2DM Fee #1H		
Well Position	+N/-S	0.0 usft	Northings: 466,685.90 usft
	+E/-W	0.0 usft	Easting: 577,949.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 3,038.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/24/2015	7.39
			Dip Angle (°)
			60.06
			Field Strength (nT)
			48,107

Design	Plan#1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			179.47

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,875.0	0.00	0.00	9,875.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,775.0	90.00	179.47	10,448.0	-572.9	5.3	10.00	10.00	19.94	179.47	
14,987.5	90.00	179.47	10,448.0	-4,785.2	44.3	0.00	0.00	0.00	0.00	PBHL Speedwagon 2



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00



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5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,875.0	0.00	0.00	9,875.0	0.0	0.0	0.0	0.00	0.00	0.00
9875' MD KOP									
9,900.0	2.50	179.47	9,900.0	-0.5	0.0	0.5	9.98	9.98	0.00
9,950.0	7.50	179.47	9,949.8	-4.9	0.0	4.9	10.00	10.00	0.00
10,000.0	12.50	179.47	9,999.0	-13.6	0.1	13.6	10.00	10.00	0.00
10,050.0	17.50	179.47	10,047.3	-26.5	0.2	26.5	10.00	10.00	0.00
10,100.0	22.50	179.47	10,094.3	-43.6	0.4	43.6	10.00	10.00	0.00



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10,150.0	27.50	179.47	10,139.6	-64.7	0.6	64.7	10.00	10.00	0.00
10,200.0	32.50	179.47	10,182.9	-89.7	0.8	89.7	10.00	10.00	0.00
10,250.0	37.50	179.47	10,223.8	-118.4	1.1	118.4	10.00	10.00	0.00
10,300.0	42.50	179.47	10,262.1	-150.5	1.4	150.5	10.00	10.00	0.00
10,350.0	47.50	179.47	10,297.4	-185.8	1.7	185.8	10.00	10.00	0.00
10,400.0	52.50	179.47	10,329.6	-224.1	2.1	224.1	10.00	10.00	0.00
10,450.0	57.50	179.47	10,358.2	-265.1	2.5	265.1	10.00	10.00	0.00
10,500.0	62.50	179.47	10,383.2	-308.3	2.9	308.4	10.00	10.00	0.00
10,550.0	67.50	179.47	10,404.4	-353.6	3.3	353.7	10.00	10.00	0.00
10,600.0	72.50	179.47	10,421.5	-400.6	3.7	400.6	10.00	10.00	0.00
10,650.0	77.50	179.47	10,434.4	-448.9	4.2	448.9	10.00	10.00	0.00
10,700.0	82.50	179.47	10,443.1	-498.1	4.6	498.1	10.00	10.00	0.00
10,750.0	87.50	179.47	10,447.5	-547.9	5.1	547.9	10.00	10.00	0.00
10,775.0	90.00	179.47	10,448.0	-572.9	5.3	572.9	10.00	10.00	0.00
10775.0' MD LP									
10,775.2	90.00	179.47	10,448.0	-573.0	5.3	573.1	0.00	0.00	0.00
LP Speedwagon 27 W2DM Fee #1H									
10,800.0	90.00	179.47	10,448.0	-597.9	5.5	597.9	0.02	0.02	0.00
10,900.0	90.00	179.47	10,448.0	-697.9	6.5	697.9	0.00	0.00	0.00
11,000.0	90.00	179.47	10,448.0	-797.9	7.4	797.9	0.00	0.00	0.00
11,100.0	90.00	179.47	10,448.0	-897.9	8.3	897.9	0.00	0.00	0.00
11,200.0	90.00	179.47	10,448.0	-997.9	9.2	997.9	0.00	0.00	0.00
11,300.0	90.00	179.47	10,448.0	-1,097.9	10.2	1,097.9	0.00	0.00	0.00
11,400.0	90.00	179.47	10,448.0	-1,197.9	11.1	1,197.9	0.00	0.00	0.00
11,500.0	90.00	179.47	10,448.0	-1,297.9	12.0	1,297.9	0.00	0.00	0.00
11,600.0	90.00	179.47	10,448.0	-1,397.9	12.9	1,397.9	0.00	0.00	0.00
11,700.0	90.00	179.47	10,448.0	-1,497.9	13.9	1,497.9	0.00	0.00	0.00
11,800.0	90.00	179.47	10,448.0	-1,597.8	14.8	1,597.9	0.00	0.00	0.00
11,900.0	90.00	179.47	10,448.0	-1,697.8	15.7	1,697.9	0.00	0.00	0.00
12,000.0	90.00	179.47	10,448.0	-1,797.8	16.7	1,797.9	0.00	0.00	0.00
12,100.0	90.00	179.47	10,448.0	-1,897.8	17.6	1,897.9	0.00	0.00	0.00
12,200.0	90.00	179.47	10,448.0	-1,997.8	18.5	1,997.9	0.00	0.00	0.00
12,300.0	90.00	179.47	10,448.0	-2,097.8	19.4	2,097.9	0.00	0.00	0.00
12,400.0	90.00	179.47	10,448.0	-2,197.8	20.4	2,197.9	0.00	0.00	0.00
12,500.0	90.00	179.47	10,448.0	-2,297.8	21.3	2,297.9	0.00	0.00	0.00
12,600.0	90.00	179.47	10,448.0	-2,397.8	22.2	2,397.9	0.00	0.00	0.00
12,700.0	90.00	179.47	10,448.0	-2,497.8	23.1	2,497.9	0.00	0.00	0.00
12,800.0	90.00	179.47	10,448.0	-2,597.8	24.1	2,597.9	0.00	0.00	0.00
12,900.0	90.00	179.47	10,448.0	-2,697.8	25.0	2,697.9	0.00	0.00	0.00
13,000.0	90.00	179.47	10,448.0	-2,797.8	25.9	2,797.9	0.00	0.00	0.00
13,100.0	90.00	179.47	10,448.0	-2,897.8	26.8	2,897.9	0.00	0.00	0.00
13,200.0	90.00	179.47	10,448.0	-2,997.8	27.8	2,997.9	0.00	0.00	0.00
13,300.0	90.00	179.47	10,448.0	-3,097.8	28.7	3,097.9	0.00	0.00	0.00
13,400.0	90.00	179.47	10,448.0	-3,197.8	29.6	3,197.9	0.00	0.00	0.00
13,500.0	90.00	179.47	10,448.0	-3,297.8	30.5	3,297.9	0.00	0.00	0.00
13,600.0	90.00	179.47	10,448.0	-3,397.8	31.5	3,397.9	0.00	0.00	0.00
13,700.0	90.00	179.47	10,448.0	-3,497.8	32.4	3,497.9	0.00	0.00	0.00
13,800.0	90.00	179.47	10,448.0	-3,597.8	33.3	3,597.9	0.00	0.00	0.00
13,900.0	90.00	179.47	10,448.0	-3,697.8	34.3	3,697.9	0.00	0.00	0.00
14,000.0	90.00	179.47	10,448.0	-3,797.8	35.2	3,797.9	0.00	0.00	0.00
14,100.0	90.00	179.47	10,448.0	-3,897.8	36.1	3,897.9	0.00	0.00	0.00
14,200.0	90.00	179.47	10,448.0	-3,997.7	37.0	3,997.9	0.00	0.00	0.00



Stryker Directional Planning Report



Database: Stryker_EDM Local Co-ordinate Reference: Well Speedwagon 27 W2DM Fee #1H
Company: Mewbourne Oil Company TVD Reference: 3038 + 20 @ 3058.0usft (Patterson)
Project: Eddy County, New Mexico MD Reference: 3038 + 20 @ 3058.0usft (Patterson)
Site: Section 27-23S-28E Speedwagon 27 W2DM North Reference: Grid
Fee #1H
Well: Speedwagon 27 W2DM Fee #1H Survey Calculation Method: Minimum Curvature
Wellbore: Original Hole
Design: Plan#1

Planned 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)
14,300.0	90.00	179.47	10,448.0	-4,097.7	38.0	4,097.9	0.00	0.00	0.00
14,400.0	90.00	179.47	10,448.0	-4,197.7	38.9	4,197.9	0.00	0.00	0.00
14,500.0	90.00	179.47	10,448.0	-4,297.7	39.8	4,297.9	0.00	0.00	0.00
14,600.0	90.00	179.47	10,448.0	-4,397.7	40.7	4,397.9	0.00	0.00	0.00
14,700.0	90.00	179.47	10,448.0	-4,497.7	41.7	4,497.9	0.00	0.00	0.00
14,800.0	90.00	179.47	10,448.0	-4,597.7	42.6	4,597.9	0.00	0.00	0.00
14,900.0	90.00	179.47	10,448.0	-4,697.7	43.5	4,697.9	0.00	0.00	0.00
14,987.5	90.00	179.47	10,448.0	-4,785.2	44.3	4,785.4	0.00	0.00	0.00

14987.5' MD PBHL - PBHL Speedwagon 27 W2DM Fee #1H

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
LP Speedwagon 27 W2I	0.00	0.00	10,448.0	-573.0	5.4	466,112.85	577,955.17	32° 16' 52.352 N	104° 4' 51.918 W
- plan misses target center by 0.1usft at 10775.2usft MD (10448.0 TVD, -573.0 N, 5.3 E)									
- Point									
PBHL Speedwagon 27 V	0.00	0.00	10,448.0	-4,785.2	44.3	461,900.69	577,994.13	32° 16' 10.667 N	104° 4' 51.579 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
9,875.0	9,875.0	0.0	0.0	9875' MD KOP
10,775.0	10,448.0	-572.9	5.3	10775.0' MD LP
14,987.5	10,448.0	-4,785.2	44.3	14987.5' MD PBHL

GEODETIC ZONE: New Mexico East 3001										
3038 + 20 @ 3058.0usft (Patterson)										
GROUND ELEVATION: 3038.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	466685.90	577949.80	32° 16' 58.024 N	104° 4' 51.964 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9875.0	0.00	0.00	9875.0	0.0	0.0	0.00	0.00	0.0	
3	10775.0	90.00	179.47	10448.0	-572.9	5.3	10.00	179.47	573.0	
4	14987.5	90.00	179.47	10448.0	-4785.2	44.3	0.00	0.00	4785.4	PBHL Speedwagon 27 W2DM Fee #1H

SHL 190° FNL; 660' FWL
Section 27-23S-28E
PBHL 330 FSL; 660' FWL
Section 27-23S-28E

