



June 28, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 10 2018

RECEIVED

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

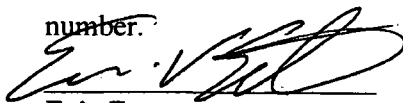
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Rock Spur 27 W0AP State Com #002H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44093

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
David Calabrese	Original Hole	512ft. to 14,311ft.	05-02-18 to 05-18-18	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Rock Spur 27 W0AP State Com #2H\M181054

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



June 28, 2018

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 May 2, 2018, through May 18, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 512feet to a depth of 14,311feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Rock Spur 27 W0AP State Com#002H well, API # **30-015-44093** 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.

Eric Estes

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**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
Project: Eddy County, N.M. Nad (83)
Site: Section 27-24S-28E Rock Spur 27 W0AP St Cor
Well: Rock Spur 27 W0AP State Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 W0AP State Com 2H
TVD Reference: 2963 +27 @ 2990.0usft (Patterson 250)
MD Reference: 2963 +27 @ 2990.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 27-24S-28E Rock Spur 27 W0AP St Com 2H		
Site Position:		Northing:	434,898.50 usft
From:	Map	Eastng:	622,882.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 43.219 N
		Longitude:	104° 4' 10.973 W
		Grid Convergence:	0.14 °

Well	Rock Spur 27 W0AP State Com 2H		
Well Position	+N/-S 0.0 usft	Northing:	434,898.50 usft
	+E/-W 0.0 usft	Eastng:	622,882.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 11' 43.219 N
		Longitude:	104° 4' 10.973 W
		Ground Level:	2,963.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	4/18/2018	(°) 7.09
			Dip Angle (°) 59.95
			Field Strength (nT) 47,785.42752684

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	Tie On Depth: 0.0
	0.0	0.0	+E/-W (usft) 0.0
			Direction (°) 253.53

Survey Program	Date 5/18/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
512.0	14,360.0	MWD Survey (Original Hole)	MWD
			Description MWD v3:standard declination



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
379.0	0.49	197.73	379.0	0.8	-1.8	2.0	294.11 Tie-In
379.0 MD Phoenix Gyro							
512.0	0.40	187.00	512.0	-0.2	-2.0	2.0	264.61
573.0	0.40	184.70	573.0	-0.6	-2.1	2.2	253.53
634.0	0.60	156.30	634.0	-1.1	-2.0	2.3	240.39
756.0	0.80	142.40	756.0	-2.4	-1.2	2.7	206.67
879.0	1.10	179.50	879.0	-4.2	-0.7	4.3	188.87
1,000.0	1.50	180.00	999.9	-7.0	-0.7	7.0	185.33
1,126.0	0.30	44.10	1,125.9	-8.4	-0.4	8.4	182.88
1,219.0	0.70	1.90	1,218.9	-7.7	-0.2	7.7	181.75
1,313.0	1.10	349.90	1,312.9	-6.2	-0.4	6.2	183.44
1,406.0	1.10	351.10	1,405.9	-4.4	-0.7	4.5	188.56
1,499.0	1.80	19.90	1,498.9	-2.2	-0.3	2.2	188.06
1,593.0	0.70	350.40	1,592.8	-0.2	0.1	0.2	156.24
1,686.0	1.10	274.90	1,685.8	0.4	-0.9	1.0	294.99
1,780.0	1.90	266.40	1,779.8	0.4	-3.3	3.4	276.70
1,873.0	1.60	252.00	1,872.7	-0.1	-6.1	6.1	269.01
1,967.0	1.10	105.50	1,966.7	-0.8	-6.5	6.5	263.39
2,060.0	2.90	90.10	2,059.7	-1.0	-3.3	3.4	253.12
2,154.0	1.70	99.40	2,153.6	-1.2	0.5	1.3	158.86
2,247.0	0.90	130.90	2,246.6	-1.9	2.4	3.1	128.96
2,339.0	1.40	134.60	2,338.6	-3.2	3.7	4.9	130.53
2,433.0	0.90	111.80	2,432.5	-4.3	5.2	6.8	129.21
2,446.0	0.70	104.50	2,445.5	-4.3	5.4	6.9	128.69
2,524.0	0.70	86.10	2,523.5	-4.4	6.3	7.7	124.85
2,618.0	2.70	49.50	2,617.5	-2.9	8.6	9.1	108.88
2,711.0	5.20	46.00	2,710.3	1.4	13.3	13.4	83.95



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2,805.0	5.50	46.70	2,803.8	7.5	19.6	21.0	69.21
2,898.0	4.10	65.10	2,896.5	11.9	25.9	28.5	65.30
2,991.0	4.00	65.10	2,989.3	14.7	31.9	35.1	65.26
3,085.0	3.90	69.90	3,083.1	17.2	37.8	41.5	65.60
3,178.0	4.10	47.40	3,175.8	20.5	43.3	47.9	64.64
3,272.0	3.60	42.50	3,269.6	24.9	47.7	53.8	62.40
3,365.0	4.00	33.80	3,362.4	29.8	51.5	59.5	59.95
3,459.0	3.40	65.60	3,456.2	33.7	55.9	65.2	58.92
3,552.0	5.20	65.00	3,549.0	36.6	62.2	72.2	59.53
3,645.0	5.20	64.10	3,641.6	40.2	69.8	80.6	60.05
3,739.0	5.40	62.40	3,735.2	44.1	77.6	89.2	60.36
3,832.0	5.40	57.30	3,827.8	48.5	85.1	98.0	60.32
3,926.0	3.30	63.80	3,921.5	52.1	91.3	105.1	60.28
4,018.0	2.90	65.90	4,014.4	54.2	95.8	110.1	60.48
4,113.0	3.80	55.60	4,108.2	57.0	100.6	115.6	60.46
4,206.0	4.00	52.50	4,201.0	60.7	105.7	121.9	60.13
4,300.0	3.50	52.50	4,294.8	64.4	110.5	128.0	59.76
4,393.0	3.50	54.10	4,387.6	67.8	115.1	133.6	59.49
4,487.0	3.50	57.50	4,481.4	71.0	119.8	139.3	59.34
4,580.0	3.30	55.60	4,574.3	74.1	124.4	144.8	59.23
4,673.0	2.90	53.10	4,667.1	77.0	128.5	149.8	59.07
4,767.0	4.50	59.90	4,760.9	80.3	133.6	155.9	59.00
4,860.0	4.40	65.50	4,853.7	83.6	140.0	163.1	59.16
4,954.0	3.20	62.80	4,947.5	86.3	145.6	169.3	59.35
5,047.0	2.00	65.20	5,040.4	88.2	149.4	173.5	59.46
5,140.0	3.10	46.70	5,133.3	90.6	152.7	177.6	59.33
5,234.0	4.00	65.00	5,227.1	93.7	157.6	183.3	59.26



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5,327.0	3.30	63.60	5,319.9	96.3	162.9	189.2	59.42
5,421.0	4.00	71.60	5,413.7	98.5	168.4	195.1	59.68
5,514.0	5.20	65.70	5,506.4	101.3	175.3	202.5	60.00
5,607.0	4.80	61.90	5,599.1	104.8	182.6	210.6	60.15
5,701.0	5.40	73.00	5,692.7	108.0	190.3	218.8	60.43
5,794.0	5.20	75.90	5,785.3	110.3	198.6	227.2	60.96
5,887.0	4.50	72.70	5,878.0	112.4	206.2	234.8	61.40
5,981.0	4.90	67.20	5,971.6	115.0	213.4	242.4	61.67
6,074.0	4.40	69.30	6,064.3	117.8	220.4	249.9	61.87
6,168.0	4.90	60.80	6,158.0	121.1	227.3	257.5	61.95
6,261.0	3.70	67.50	6,250.8	124.2	233.5	264.5	62.00
6,355.0	4.90	72.20	6,344.5	126.5	240.1	271.4	62.21
6,449.0	3.40	45.00	6,438.3	129.7	245.9	278.0	62.19
6,542.0	5.10	47.10	6,531.0	134.5	250.9	284.7	61.80
6,635.0	2.20	50.30	6,623.8	138.5	255.3	290.4	61.53
6,729.0	3.90	54.40	6,717.7	141.5	259.3	295.4	61.38
6,822.0	8.20	55.30	6,810.1	147.1	267.3	305.1	61.18
6,916.0	6.00	48.50	6,903.4	154.2	276.5	316.6	60.86
7,009.0	5.90	47.20	6,995.9	160.6	283.7	326.0	60.48
7,103.0	6.00	53.40	7,089.4	166.8	291.1	335.6	60.18
7,196.0	6.30	58.80	7,181.9	172.4	299.4	345.5	60.07
7,290.0	6.70	61.50	7,275.2	177.7	308.6	356.1	60.07
7,383.0	5.30	70.70	7,367.7	181.7	317.5	365.8	60.22
7,477.0	3.40	70.40	7,461.5	184.1	324.2	372.8	60.41
7,570.0	4.30	42.70	7,554.3	187.5	329.1	378.8	60.33
7,664.0	6.90	44.70	7,647.8	194.1	335.5	387.6	59.94
7,757.0	5.80	44.70	7,740.2	201.5	342.7	397.6	59.55



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7,850.0	4.90	43.70	7,832.8	207.7	348.8	405.9	59.23
7,943.0	5.80	66.60	7,925.4	212.4	355.9	414.4	59.17
8,037.0	4.90	72.20	8,019.0	215.5	364.0	423.1	59.37
8,130.0	3.30	70.10	8,111.8	217.6	370.3	429.6	59.56
8,224.0	3.50	53.40	8,205.6	220.3	375.2	435.1	59.58
8,317.0	4.00	57.60	8,298.4	223.7	380.2	441.1	59.53
8,411.0	3.90	62.90	8,392.2	226.9	385.8	447.6	59.54
8,504.0	3.70	69.70	8,485.0	229.4	391.4	453.7	59.63
8,597.0	1.80	82.60	8,577.9	230.6	395.7	458.0	59.76
8,691.0	0.70	96.70	8,671.9	230.8	397.7	459.8	59.88
8,784.0	0.80	167.60	8,764.9	230.1	398.4	460.1	60.00
8,877.0	0.70	172.10	8,857.8	228.9	398.7	459.7	60.14
8,971.0	0.80	188.10	8,951.8	227.6	398.6	459.1	60.27
9,019.0	0.58	196.84	8,999.8	227.1	398.5	458.7	60.33
B.B. Rock Spur 27 W0AP St #2H							
9,064.0	0.40	213.40	9,044.8	226.7	398.4	458.4	60.35
9,136.0	4.80	179.90	9,116.7	223.5	398.2	456.7	60.70
9,187.0	9.70	176.10	9,147.5	219.6	398.4	454.9	61.14
9,198.0	14.70	175.90	9,177.8	213.1	398.9	452.2	61.89
9,229.0	18.70	174.50	9,207.5	204.2	399.6	448.8	62.94
9,261.0	23.40	173.20	9,237.3	192.8	400.9	444.8	64.32
9,292.0	27.50	171.70	9,265.3	179.6	402.7	440.9	65.96
9,323.0	30.20	171.70	9,292.5	164.8	404.8	437.1	67.85
9,354.0	33.40	172.40	9,318.8	148.6	407.1	433.3	69.95
9,385.0	36.10	173.40	9,344.3	131.1	409.2	429.7	72.24
9,416.0	39.30	174.10	9,368.8	112.2	411.3	426.3	74.74
9,448.0	43.30	174.30	9,392.8	91.2	413.4	423.4	77.56



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9,479.0	47.70	173.80	9,414.5	69.2	415.7	421.5	80.55
9,510.0	52.10	175.40	9,434.5	45.6	418.0	420.4	83.77
9,544.0	56.00	178.70	9,454.5	18.1	419.3	419.7	87.52
9,575.0	58.20	181.00	9,471.3	-7.9	419.4	419.5	91.08
9,608.0	60.50	182.20	9,487.1	-34.5	418.7	420.1	94.72
9,637.0	64.90	181.60	9,501.3	-62.1	417.8	422.3	98.45
9,668.0	67.70	180.10	9,513.8	-90.4	417.3	427.0	102.23
9,699.0	70.10	178.40	9,524.9	-119.4	417.7	434.4	105.95
9,722.0	71.90	177.50	9,532.4	-141.1	418.5	441.6	108.63
9,764.0	73.30	176.00	9,545.0	-181.1	420.8	458.1	113.29
9,795.0	77.10	176.10	9,552.9	-211.0	422.8	472.6	116.52
9,826.0	83.50	176.50	9,558.1	-241.5	424.8	488.6	119.62
9,857.0	86.40	177.00	9,560.9	-272.3	426.6	506.1	122.55
9,888.0	86.80	177.20	9,562.7	-303.2	428.1	524.6	125.31
9,982.0	88.00	175.40	9,567.0	-396.9	434.2	588.3	132.43
10,060.9	87.58	177.78	9,570.0	-475.6	438.9	647.2	137.30
LP Rock Spur 27 W0AP St 2H							
10,075.0	87.50	178.20	9,570.6	-489.7	439.4	657.9	138.10
10,169.0	86.20	180.40	9,575.8	-583.5	440.5	731.1	142.95
10,262.0	88.70	180.30	9,579.9	-676.4	439.9	806.9	146.96
10,356.0	91.40	181.40	9,579.8	-770.4	438.6	886.5	150.35
10,449.0	86.00	180.30	9,581.9	-863.3	437.2	967.7	153.14
10,543.0	87.50	181.60	9,587.3	-957.2	435.6	1,051.6	155.53
10,636.0	86.70	182.20	9,592.0	-1,050.0	432.5	1,135.6	157.61
10,730.0	90.60	181.60	9,594.2	-1,143.9	429.4	1,221.8	159.42
10,823.0	88.10	179.70	9,595.3	-1,236.9	428.4	1,308.9	160.90
10,917.0	90.50	181.80	9,596.4	-1,330.8	427.1	1,397.7	162.21



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11,011.0	91.10	179.90	9,595.1	-1,424.8	425.7	1,487.1	163.36
11,104.0	89.10	180.20	9,594.9	-1,517.8	425.7	1,576.4	164.33
11,197.0	92.40	181.60	9,593.7	-1,610.8	424.2	1,665.7	165.25
11,290.0	89.70	180.70	9,592.0	-1,703.7	422.3	1,755.3	166.08
11,384.0	90.00	181.50	9,592.2	-1,797.7	420.5	1,846.2	166.83
11,477.0	89.50	181.10	9,592.7	-1,890.7	418.4	1,936.4	167.52
11,570.0	89.80	182.50	9,593.2	-1,983.6	415.5	2,026.7	168.17
11,664.0	88.30	179.60	9,594.8	-2,077.6	413.8	2,118.4	168.74
11,757.0	88.90	180.40	9,597.1	-2,170.6	413.8	2,209.7	169.21
11,850.0	86.90	177.50	9,600.5	-2,263.5	415.5	2,301.3	169.60
11,944.0	89.50	178.80	9,603.4	-2,357.4	418.5	2,394.2	169.93
12,037.0	89.20	177.90	9,604.5	-2,450.3	421.2	2,486.3	170.25
12,131.0	89.50	178.30	9,605.5	-2,544.3	424.3	2,579.4	170.53
12,225.0	89.90	178.80	9,606.0	-2,638.2	426.7	2,672.5	170.81
12,318.0	91.60	180.00	9,604.8	-2,731.2	427.7	2,764.5	171.10
12,412.0	88.90	179.60	9,604.4	-2,825.2	428.0	2,857.4	171.39
12,505.0	88.80	176.50	9,607.9	-2,918.1	431.1	2,949.8	171.60
12,600.0	91.60	174.20	9,609.2	-3,012.7	438.8	3,044.5	171.71
12,693.0	89.50	175.40	9,608.3	-3,105.3	447.3	3,137.4	171.80
12,787.0	89.50	178.30	9,609.1	-3,199.2	452.4	3,231.0	171.95
12,880.0	87.60	178.20	9,611.5	-3,292.1	455.3	3,323.4	172.13
12,973.0	90.80	179.20	9,612.8	-3,385.0	457.4	3,415.8	172.30
13,067.0	89.80	178.70	9,612.3	-3,479.0	459.1	3,509.2	172.48
13,160.0	90.60	179.20	9,612.0	-3,572.0	460.8	3,601.6	172.65
13,254.0	89.50	178.30	9,611.9	-3,666.0	462.9	3,695.1	172.80
13,347.0	88.70	177.40	9,613.4	-3,758.9	466.3	3,787.7	172.93
13,440.0	90.70	177.80	9,613.8	-3,851.8	470.2	3,880.4	173.04



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 27-24S-28E Rock Spur 27 W0AP St Cor
Well: Rock Spur 27 W0AP State Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 W0AP State Com 2H
TVD Reference: 2963 +27 @ 2990.0usft (Patterson 250)
MD Reference: 2963 +27 @ 2990.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,534.0	90.50	177.60	9,612.9	-3,945.7	474.0	3,974.1	173.15
13,627.0	89.00	177.30	9,613.3	-4,038.6	478.2	4,066.8	173.25
13,720.0	88.90	179.10	9,615.0	-4,131.6	481.1	4,159.5	173.36
13,813.0	89.20	179.30	9,616.5	-4,224.6	482.4	4,252.0	173.49
13,907.0	85.00	177.70	9,621.3	-4,318.4	484.8	4,345.5	173.59
13,999.0	93.80	177.00	9,622.2	-4,410.2	489.1	4,437.2	173.67
14,092.0	93.00	177.50	9,616.7	-4,502.9	493.5	4,529.9	173.75
14,185.0	92.70	177.40	9,612.1	-4,595.7	497.7	4,622.6	173.82
14,279.0	89.00	177.70	9,610.7	-4,689.6	501.7	4,716.3	173.89
14,311.0	87.60	176.30	9,611.6	-4,721.5	503.4	4,748.3	173.91
14,360.0	87.60	176.30	9,613.7	-4,770.4	506.5	4,797.2	173.94

14360' MD Projected to Bit - PBHL Rock Spur 27 W0AP St 2H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
379.0	379.0	0.8	-1.8	379.0' MD Phoenix Gyro
14,360.0	9,613.7	-4,770.4	506.5	14360' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Rock Spur 27 W0AP State Corn 2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 250

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction Add 6.95°



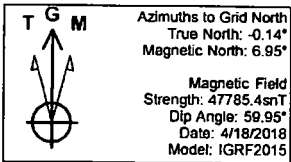
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico Eastern Zone
2963 +27 @ 2990.0usft (Patterson 250)
GROUND ELEVATION: 2963.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	434898.50	622882.50	32° 11' 43.219 N	104° 4' 10.973 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2575.0	0.00	0.00	2575.0	0.0	0.0	0.00	0.00	0.0	
3	2875.0	4.50	60.00	2874.6	5.9	10.2	1.50	60.00	-4.9	
4	8718.7	4.50	60.00	8700.4	235.1	407.2	0.00	0.00	-194.3	
5	9018.6	0.00	0.00	9000.0	241.0	417.4	1.50	180.00	-199.1	B.B. Rock Spur 27 W0AP St #2H
6	9122.2	0.00	0.00	9103.8	241.0	417.4	0.00	0.00	-199.1	
7	9868.2	89.52	179.42	9581.0	-232.4	422.2	12.00	179.42	272.5	
8	14413.7	89.52	179.42	9619.0	-4777.5	468.2	0.00	0.00	4800.4	PBHL Rock Spur 27 W0AP St 2H



SHL: 250' FNL; 920' FEL
Section 27-24S-28E
PBHL: 330' FSL; 500' FEL
Section 27-4S-28E

