

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL COMPANY
FOR A COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.

Case No. 20300

VERIFIED STATEMENT OF TYLER HILL

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Tyler Hill, being duly sworn upon his oath, deposes and states:

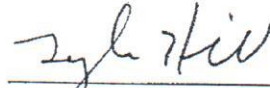
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The following geological plats are attached hereto:
 - (a) Attachment A is a structure map of the Wolfcamp formation, mapped on the top of the correlative Wolfcamp marker. It shows that structure dips to the east, and that the planned wellbores would drill perpendicular to strike. It also shows a line of cross-section, A-A'.
 - (b) Attachment B is a west-east cross section. The well logs on the cross-section give a representative sample of the Wolfcamp formation in this area. The target zone for the wells is the Upper Wolfcamp Sand, and that zone is continuous across the well unit.
4. I conclude from the maps that:
 - (a) The horizontal spacing unit is justified from a geologic standpoint.
 - (b) Each quarter section in the unit will contribute more or less equally to production.
 - (c) There is no faulting or other geologic impediment in the area which will affect the drilling of the subject wells.

EXHIBIT

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5. Attachment C contains information from other wells drilled in the immediate area. There are numerous upper Wolfcamp sand wells, and the preferred orientation is for laydown units. The completed wells in the area are commercial.

6. Attachment D is the Survey Calculation Report for wells: Sundown 31/32 W0DA Fee #1H, Sundown 31/32 W0EH Fee #2H, and Sundown 31/32 W0EH Fee #3H. The producing interval of the proposed well will be orthodox. The Pool code is Purple Sage Wolfcamp (98220).



Tyler Hill

VERIFICATION

STATE OF TEXAS

COUNTY OF MIDLAND

)
) ss.
)

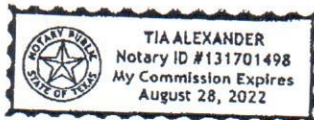
Tyler Hill, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

Tyler Hill
Tyler Hill

SUBSCRIBED AND SWORN TO before me this 13 day of March, 2019 by Tyler Hill.

My Commission Expires: 8-28-22

Tia Alexander
Notary Public



Sundown Area Wolfcamp Production Table										
API	Well Name	Well Number	Operator	Location	Field	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	First Prod Date	WFMP Zone
300154437400	CYPRESS FEE 23 27 9	2H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	29	0.31	162	5/1/2018	WFMP C Shale
300154404600	CYPRESS	1H	MARATHON	9M-9P/23S/27E	PURPLE SAGE	178	0.41	666	5/1/2017	WFMP Y Sand
300154408200	MICHAEL COLLINS 11 23S 27E RB	208H	MATADOR	11P-11M/23S/27E	PURPLE SAGE	160	0.41	540	9/1/2017	WFMP Y Sand
300154437600	CYPRESS FEE 23 27 9	4H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	33	0.10	156	5/1/2018	WFMP Y Sand
300154437700	CYPRESS FEE 23 27 9	5H	MARATHON	9L-9I/23S/27E	PURPLE SAGE	82	0.26	330	3/1/2018	WFMP Y Sand
300154437800	CYPRESS FEE 23 27 9	6H	MARATHON	9L-9I/23S/27E	PURPLE SAGE	24	0.70	594	6/1/2018	WFMP Y Sand
300154438000	CYPRESS FEE 23 27 9	8H	MARATHON	9L-9I/23S/27E	PURPLE SAGE	44	0.24	251	3/1/2018	WFMP Y Sand
300154444300	MICHAEL COLLINS 11 23S 27E RB	203H	MATADOR	11I-11L/23S/27E	PURPLE SAGE	123	0.35	421	2/1/2018	WFMP Y Sand
300154447200	MICHAEL COLLINS 11 23S 27E RB	206H	MATADOR	11I-11E/23S/27E	PURPLE SAGE	114	0.25	405	2/1/2018	WFMP Y Sand
300154454400	WOLFMAN 5 4 WOLI FEDERAL COM	1H	MEWBOURNE	5L-4I/23S/27E	PURPLE SAGE	242	0.46	475	4/1/2018	WFMP Y Sand

ATTACHMENT C

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Sundown 31/32 W0DA Fee 1H
KOP 8399.5

Target KBTV D:	8877.0	Feet	8877.0
Target Angle:	89.3	Degrees	89.3
Section Plane:	83.9	Degrees	
Declination to True N:	6.6	Degrees	
Bit to Survey Offset:	44.0	Feet	

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)
=	=	=	=	=	=	=	=	=
T/I	8399.5	0.0	83.9	N/A	8399.5	0.0	0.0	0.0
1.0	8474.0	8.9	83.9	74.5	8473.7	5.8	0.6	5.8
2.0	8548.4	17.9	83.9	74.5	8546.0	23.0	2.4	22.9
3.0	8622.9	26.8	83.9	74.5	8614.8	51.3	5.4	51.0
4.0	8697.4	35.7	83.9	74.5	8678.4	89.9	9.5	89.4
5.0	8771.8	44.7	83.9	74.5	8735.2	137.9	14.6	137.2
6.0	8846.3	53.6	83.9	74.5	8783.9	194.2	20.5	193.1
7.0	8920.7	62.5	83.9	74.5	8823.2	257.3	27.2	255.9
8.0	8995.2	71.5	83.9	74.5	8852.3	325.8	34.4	324.0
9.0	9069.6	80.4	83.9	74.5	8870.3	397.9	42.1	395.7
10.0	9144.1	89.3	83.9	74.5	8877.0	472.0	49.9	469.4
11.0	9200.0	89.3	83.9	55.9	8877.6	527.9	55.8	525.0
12.0	9300.0	89.3	83.9	100.0	8878.7	627.9	66.4	624.4
13.0	9400.0	89.3	83.9	100.0	8879.9	727.9	77.0	723.8
14.0	9500.0	89.3	83.9	100.0	8881.0	827.9	87.5	823.3
15.0	9600.0	89.3	83.9	100.0	8882.2	927.9	98.1	922.7
16.0	9700.0	89.3	83.9	100.0	8883.3	1027.9	108.7	1022.1
17.0	9800.0	89.3	83.9	100.0	8884.4	1127.9	119.2	1121.6
18.0	9900.0	89.3	83.9	100.0	8885.6	1227.9	129.8	1221.0
19.0	10000.0	89.3	83.9	100.0	8886.7	1327.9	140.4	1320.4
20.0	10100.0	89.3	83.9	100.0	8887.9	1427.9	151.0	1419.9
21.0	10200.0	89.3	83.9	100.0	8889.0	1527.9	161.5	1519.3
22.0	10300.0	89.3	83.9	100.0	8890.1	1627.9	172.1	1618.7
23.0	10400.0	89.3	83.9	100.0	8891.3	1727.8	182.7	1718.2
24.0	10500.0	89.3	83.9	100.0	8892.4	1827.8	193.2	1817.6
25.0	10600.0	89.3	83.9	100.0	8893.6	1927.8	203.8	1917.0
26.0	10700.0	89.3	83.9	100.0	8894.7	2027.8	214.4	2016.5
27.0	10800.0	89.3	83.9	100.0	8895.8	2127.8	225.0	2115.9
28.0	10900.0	89.3	83.9	100.0	8897.0	2227.8	235.5	2215.3
29.0	11000.0	89.3	83.9	100.0	8898.1	2327.8	246.1	2314.8
30.0	11100.0	89.3	83.9	100.0	8899.2	2427.8	256.7	2414.2
31.0	11200.0	89.3	83.9	100.0	8900.4	2527.8	267.3	2513.6
32.0	11300.0	89.3	83.9	100.0	8901.5	2627.8	277.8	2613.1
33.0	11400.0	89.3	83.9	100.0	8902.7	2727.8	288.4	2712.5
34.0	11500.0	89.3	83.9	100.0	8903.8	2827.8	299.0	2811.9
35.0	11600.0	89.3	83.9	100.0	8904.9	2927.8	309.5	2911.4
36.0	11700.0	89.3	83.9	100.0	8906.1	3027.8	320.1	3010.8
37.0	11800.0	89.3	83.9	100.0	8907.2	3127.8	330.7	3110.2
38.0	11900.0	89.3	83.9	100.0	8908.4	3227.8	341.3	3209.7

ATTACHMENT D

39.0	12000.0	89.3	83.9	100.0	8909.5	3327.7	351.8	3309.1
40.0	12100.0	89.3	83.9	100.0	8910.6	3427.7	362.4	3408.5
41.0	12200.0	89.3	83.9	100.0	8911.8	3527.7	373.0	3508.0
42.0	12300.0	89.3	83.9	100.0	8912.9	3627.7	383.5	3607.4
43.0	12400.0	89.3	83.9	100.0	8914.1	3727.7	394.1	3706.8
44.0	12500.0	89.3	83.9	100.0	8915.2	3827.7	404.7	3806.3
45.0	12600.0	89.3	83.9	100.0	8916.3	3927.7	415.3	3905.7
46.0	12700.0	89.3	83.9	100.0	8917.5	4027.7	425.8	4005.1
47.0	12800.0	89.3	83.9	100.0	8918.6	4127.7	436.4	4104.6
48.0	12900.0	89.3	83.9	100.0	8919.8	4227.7	447.0	4204.0
49.0	13000.0	89.3	83.9	100.0	8920.9	4327.7	457.5	4303.4
50.0	13100.0	89.3	83.9	100.0	8922.0	4427.7	468.1	4402.9
51.0	13200.0	89.3	83.9	100.0	8923.2	4527.7	478.7	4502.3
52.0	13300.0	89.3	83.9	100.0	8924.3	4627.7	489.3	4601.7
53.0	13400.0	89.3	83.9	100.0	8925.4	4727.7	499.8	4701.2
54.0	13500.0	89.3	83.9	100.0	8926.6	4827.6	510.4	4800.6
55.0	13600.0	89.3	83.9	100.0	8927.7	4927.6	521.0	4900.0
56.0	13700.0	89.3	83.9	100.0	8928.9	5027.6	531.5	4999.5
57.0	13800.0	89.3	83.9	100.0	8930.0	5127.6	542.1	5098.9
58.0	13900.0	89.3	83.9	100.0	8931.1	5227.6	552.7	5198.3
59.0	14000.0	89.3	83.9	100.0	8932.3	5327.6	563.3	5297.8
60.0	14100.0	89.3	83.9	100.0	8933.4	5427.6	573.8	5397.2
61.0	14200.0	89.3	83.9	100.0	8934.6	5527.6	584.4	5496.6
62.0	14300.0	89.3	83.9	100.0	8935.7	5627.6	595.0	5596.1
63.0	14400.0	89.3	83.9	100.0	8936.8	5727.6	605.6	5695.5
64.0	14500.0	89.3	83.9	100.0	8938.0	5827.6	616.1	5794.9
65.0	14600.0	89.3	83.9	100.0	8939.1	5927.6	626.7	5894.4
66.0	14700.0	89.3	83.9	100.0	8940.3	6027.6	637.3	5993.8
67.0	14800.0	89.3	83.9	100.0	8941.4	6127.6	647.8	6093.2
68.0	14900.0	89.3	83.9	100.0	8942.5	6227.6	658.4	6192.7
69.0	15000.0	89.3	83.9	100.0	8943.7	6327.5	669.0	6292.1
70.0	15100.0	89.3	83.9	100.0	8944.8	6427.5	679.6	6391.5
71.0	15200.0	89.3	83.9	100.0	8945.9	6527.5	690.1	6491.0
72.0	15300.0	89.3	83.9	100.0	8947.1	6627.5	700.7	6590.4
73.0	15400.0	89.3	83.9	100.0	8948.2	6727.5	711.3	6689.8
74.0	15500.0	89.3	83.9	100.0	8949.4	6827.5	721.8	6789.3
75.0	15600.0	89.3	83.9	100.0	8950.5	6927.5	732.4	6888.7
76.0	15700.0	89.3	83.9	100.0	8951.6	7027.5	743.0	6988.1
77.0	15800.0	89.3	83.9	100.0	8952.8	7127.5	753.6	7087.6
78.0	15900.0	89.3	83.9	100.0	8953.9	7227.5	764.1	7187.0
79.0	16000.0	89.3	83.9	100.0	8955.1	7327.5	774.7	7286.4
80.0	16100.0	89.3	83.9	100.0	8956.2	7427.5	785.3	7385.9
81.0	16200.0	89.3	83.9	100.0	8957.3	7527.5	795.8	7485.3
82.0	16300.0	89.3	83.9	100.0	8958.5	7627.5	806.4	7584.7
83.0	16400.0	89.3	83.9	100.0	8959.6	7727.5	817.0	7684.1
84.0	16500.0	89.3	83.9	100.0	8960.8	7827.5	827.6	7783.6
85.0	16600.0	89.3	83.9	100.0	8961.9	7927.4	838.1	7883.0
86.0	16700.0	89.3	83.9	100.0	8963.0	8027.4	848.7	7982.4
87.0	16800.0	89.3	83.9	100.0	8964.2	8127.4	859.3	8081.9
88.0	16900.0	89.3	83.9	100.0	8965.3	8227.4	869.8	8181.3
89.0	17000.0	89.3	83.9	100.0	8966.5	8327.4	880.4	8280.7
90.0	17100.0	89.3	83.9	100.0	8967.6	8427.4	891.0	8380.2
91.0	17200.0	89.3	83.9	100.0	8968.7	8527.4	901.6	8479.6
92.0	17300.0	89.3	83.9	100.0	8969.9	8627.4	912.1	8579.0
93.0	17400.0	89.3	83.9	100.0	8971.0	8727.4	922.7	8678.5

94.0	17500.0	89.3	83.9	100.0	8972.1	8827.4	933.3	8777.9
95.0	17600.0	89.3	83.9	100.0	8973.3	8927.4	943.9	8877.3
96.0	17700.0	89.3	83.9	100.0	8974.4	9027.4	954.4	8976.8
97.0	17800.0	89.3	83.9	100.0	8975.6	9127.4	965.0	9076.2
98.0	17900.0	89.3	83.9	100.0	8976.7	9227.4	975.6	9175.6
99.0	18000.0	89.3	83.9	100.0	8977.8	9327.4	986.1	9275.1
100.0	18100.0	89.3	83.9	100.0	8979.0	9427.3	996.7	9374.5
101.0	18200.0	89.3	83.9	100.0	8980.1	9527.3	1007.3	9473.9
102.0	18300.0	89.3	83.9	100.0	8981.3	9627.3	1017.9	9573.4
103.0	18400.0	89.3	83.9	100.0	8982.4	9727.3	1028.4	9672.8
104.0	18500.0	89.3	83.9	100.0	8983.5	9827.3	1039.0	9772.2
105.0	18600.0	89.3	83.9	100.0	8984.7	9927.3	1049.6	9871.7
106.0	18700.0	89.3	83.9	100.0	8985.8	10027.3	1060.1	9971.1
107.0	18800.0	89.3	83.9	100.0	8987.0	10127.3	1070.7	10070.5
108.0	18806.0	89.3	83.9	100.0	8987.0	10077.2	1071.4	10076.5

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Sundown 31/32 W0EH Fee 2H
KOP 8399.5

Target KBTVD: 8877.0 Feet 8877.0
Target Angle: 89.3 Degrees 89.3
Section Plane: 88.9 Degrees
Declination to True North: 6.6 Degrees
Bit to Survey Offset: 44.0 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)
=	=	=	=	=	=	=	=	=
T/I	8399.5	0.0	88.9	N/A	8399.5	0.0	0.0	0.0
1.0	8474.0	8.9	88.9	74.5	8473.7	5.8	0.1	5.8
2.0	8548.4	17.9	88.9	74.5	8546.0	23.0	0.5	23.0
3.0	8622.9	26.8	88.9	74.5	8614.8	51.3	1.0	51.3
4.0	8697.3	35.7	88.9	74.5	8678.4	89.9	1.8	89.9
5.0	8771.8	44.7	88.9	74.5	8735.2	137.9	2.8	137.9
6.0	8846.2	53.6	88.9	74.5	8783.9	194.2	3.9	194.1
7.0	8920.7	62.5	88.9	74.5	8823.2	257.3	5.2	257.2
8.0	8995.1	71.5	88.9	74.5	8852.3	325.8	6.5	325.7
9.0	9069.6	80.4	88.9	74.5	8870.3	397.9	8.0	397.8
10.0	9144.0	89.3	88.9	74.5	8877.0	472.0	9.5	471.9
11.0	9200.0	89.3	88.9	56.0	8877.6	527.9	10.6	527.8
12.0	9300.0	89.3	88.9	100.0	8878.8	627.9	12.6	627.8
13.0	9400.0	89.3	88.9	100.0	8879.9	727.9	14.6	727.8
14.0	9500.0	89.3	88.9	100.0	8881.1	827.9	16.6	827.7
15.0	9600.0	89.3	88.9	100.0	8882.2	927.9	18.6	927.7
16.0	9700.0	89.3	88.9	100.0	8883.4	1027.9	20.6	1027.7
17.0	9800.0	89.3	88.9	100.0	8884.5	1127.9	22.6	1127.7
18.0	9900.0	89.3	88.9	100.0	8885.7	1227.9	24.6	1227.6
19.0	10000.0	89.3	88.9	100.0	8886.8	1327.9	26.6	1327.6
20.0	10100.0	89.3	88.9	100.0	8888.0	1427.9	28.6	1427.6
21.0	10200.0	89.3	88.9	100.0	8889.1	1527.9	30.6	1527.6
22.0	10300.0	89.3	88.9	100.0	8890.3	1627.9	32.6	1627.5
23.0	10400.0	89.3	88.9	100.0	8891.4	1727.8	34.7	1727.5
24.0	10500.0	89.3	88.9	100.0	8892.6	1827.8	36.7	1827.5
25.0	10600.0	89.3	88.9	100.0	8893.7	1927.8	38.7	1927.4
26.0	10700.0	89.3	88.9	100.0	8894.8	2027.8	40.7	2027.4
27.0	10800.0	89.3	88.9	100.0	8896.0	2127.8	42.7	2127.4
28.0	10900.0	89.3	88.9	100.0	8897.1	2227.8	44.7	2227.4
29.0	11000.0	89.3	88.9	100.0	8898.3	2327.8	46.7	2327.3
30.0	11100.0	89.3	88.9	100.0	8899.4	2427.8	48.7	2427.3
31.0	11200.0	89.3	88.9	100.0	8900.6	2527.8	50.7	2527.3
32.0	11300.0	89.3	88.9	100.0	8901.7	2627.8	52.7	2627.3
33.0	11400.0	89.3	88.9	100.0	8902.9	2727.8	54.7	2727.2
34.0	11500.0	89.3	88.9	100.0	8904.0	2827.8	56.7	2827.2
35.0	11600.0	89.3	88.9	100.0	8905.2	2927.8	58.7	2927.2

36.0	11700.0	89.3	88.9	100.0	8906.3	3027.8	60.7	3027.2
37.0	11800.0	89.3	88.9	100.0	8907.5	3127.8	62.7	3127.1
38.0	11900.0	89.3	88.9	100.0	8908.6	3227.7	64.7	3227.1
39.0	12000.0	89.3	88.9	100.0	8909.8	3327.7	66.7	3327.1
40.0	12100.0	89.3	88.9	100.0	8910.9	3427.7	68.7	3427.0
41.0	12200.0	89.3	88.9	100.0	8912.1	3527.7	70.8	3527.0
42.0	12300.0	89.3	88.9	100.0	8913.2	3627.7	72.8	3627.0
43.0	12400.0	89.3	88.9	100.0	8914.4	3727.7	74.8	3727.0
44.0	12500.0	89.3	88.9	100.0	8915.5	3827.7	76.8	3826.9
45.0	12600.0	89.3	88.9	100.0	8916.7	3927.7	78.8	3926.9
46.0	12700.0	89.3	88.9	100.0	8917.8	4027.7	80.8	4026.9
47.0	12800.0	89.3	88.9	100.0	8919.0	4127.7	82.8	4126.9
48.0	12900.0	89.3	88.9	100.0	8920.1	4227.7	84.8	4226.8
49.0	13000.0	89.3	88.9	100.0	8921.3	4327.7	86.8	4326.8
50.0	13100.0	89.3	88.9	100.0	8922.4	4427.7	88.8	4426.8
51.0	13200.0	89.3	88.9	100.0	8923.6	4527.7	90.8	4526.8
52.0	13300.0	89.3	88.9	100.0	8924.7	4627.7	92.8	4626.7
53.0	13400.0	89.3	88.9	100.0	8925.9	4727.6	94.8	4726.7
54.0	13500.0	89.3	88.9	100.0	8927.0	4827.6	96.8	4826.7
55.0	13600.0	89.3	88.9	100.0	8928.2	4927.6	98.8	4926.6
56.0	13700.0	89.3	88.9	100.0	8929.3	5027.6	100.8	5026.6
57.0	13800.0	89.3	88.9	100.0	8930.5	5127.6	102.8	5126.6
58.0	13900.0	89.3	88.9	100.0	8931.6	5227.6	104.8	5226.6
59.0	14000.0	89.3	88.9	100.0	8932.8	5327.6	106.9	5326.5
60.0	14100.0	89.3	88.9	100.0	8933.9	5427.6	108.9	5426.5
61.0	14200.0	89.3	88.9	100.0	8935.1	5527.6	110.9	5526.5
62.0	14300.0	89.3	88.9	100.0	8936.2	5627.6	112.9	5626.5
63.0	14400.0	89.3	88.9	100.0	8937.4	5727.6	114.9	5726.4
64.0	14500.0	89.3	88.9	100.0	8938.5	5827.6	116.9	5826.4
65.0	14600.0	89.3	88.9	100.0	8939.7	5927.6	118.9	5926.4
66.0	14700.0	89.3	88.9	100.0	8940.8	6027.6	120.9	6026.4
67.0	14800.0	89.3	88.9	100.0	8942.0	6127.6	122.9	6126.3
68.0	14900.0	89.3	88.9	100.0	8943.1	6227.5	124.9	6226.3
69.0	15000.0	89.3	88.9	100.0	8944.3	6327.5	126.9	6326.3
70.0	15100.0	89.3	88.9	100.0	8945.4	6427.5	128.9	6426.2
71.0	15200.0	89.3	88.9	100.0	8946.6	6527.5	130.9	6526.2
72.0	15300.0	89.3	88.9	100.0	8947.7	6627.5	132.9	6626.2
73.0	15400.0	89.3	88.9	100.0	8948.9	6727.5	134.9	6726.2
74.0	15500.0	89.3	88.9	100.0	8950.0	6827.5	136.9	6826.1
75.0	15600.0	89.3	88.9	100.0	8951.2	6927.5	138.9	6926.1
76.0	15700.0	89.3	88.9	100.0	8952.3	7027.5	140.9	7026.1
77.0	15800.0	89.3	88.9	100.0	8953.5	7127.5	143.0	7126.1
78.0	15900.0	89.3	88.9	100.0	8954.6	7227.5	145.0	7226.0
79.0	16000.0	89.3	88.9	100.0	8955.8	7327.5	147.0	7326.0
80.0	16100.0	89.3	88.9	100.0	8956.9	7427.5	149.0	7426.0
81.0	16200.0	89.3	88.9	100.0	8958.1	7527.5	151.0	7525.9
82.0	16300.0	89.3	88.9	100.0	8959.2	7627.5	153.0	7625.9
83.0	16400.0	89.3	88.9	100.0	8960.3	7727.5	155.0	7725.9
84.0	16500.0	89.3	88.9	100.0	8961.5	7827.4	157.0	7825.9
85.0	16600.0	89.3	88.9	100.0	8962.6	7927.4	159.0	7925.8
86.0	16700.0	89.3	88.9	100.0	8963.8	8027.4	161.0	8025.8
87.0	16800.0	89.3	88.9	100.0	8964.9	8127.4	163.0	8125.8
88.0	16900.0	89.3	88.9	100.0	8966.1	8227.4	165.0	8225.8
89.0	17000.0	89.3	88.9	100.0	8967.2	8327.4	167.0	8325.7
90.0	17100.0	89.3	88.9	100.0	8968.4	8427.4	169.0	8425.7

91.0	17200.0	89.3	88.9	100.0	8969.5	8527.4	171.0	8525.7
92.0	17300.0	89.3	88.9	100.0	8970.7	8627.4	173.0	8625.7
93.0	17400.0	89.3	88.9	100.0	8971.8	8727.4	175.0	8725.6
94.0	17500.0	89.3	88.9	100.0	8973.0	8827.4	177.0	8825.6
95.0	17600.0	89.3	88.9	100.0	8974.1	8927.4	179.0	8925.6
96.0	17700.0	89.3	88.9	100.0	8975.3	9027.4	181.1	9025.5
97.0	17800.0	89.3	88.9	100.0	8976.4	9127.4	183.1	9125.5
98.0	17900.0	89.3	88.9	100.0	8977.6	9227.4	185.1	9225.5
99.0	18000.0	89.3	88.9	100.0	8978.7	9327.3	187.1	9325.5
100.0	18100.0	89.3	88.9	100.0	8979.9	9427.3	189.1	9425.4
101.0	18200.0	89.3	88.9	100.0	8981.0	9527.3	191.1	9525.4
102.0	18300.0	89.3	88.9	100.0	8982.2	9627.3	193.1	9625.4
103.0	18400.0	89.3	88.9	100.0	8983.3	9727.3	195.1	9725.4
104.0	18500.0	89.3	88.9	100.0	8984.5	9827.3	197.1	9825.3
105.0	18600.0	89.3	88.9	100.0	8985.6	9927.3	199.1	9925.3
106.0	18700.0	89.3	88.9	100.0	8986.8	10027.3	201.1	10025.3
107.0	18721.3	89.3	88.9	100.0	8987.0	10047.2	201.6	10046.3

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Sundown 31/32 W0EH Fee 3H
KOP 8399.5

Target KBTVD:	8877.0	Feet	8877.0
Target Angle:	89.3	Degrees	89.3
Section Plane:	93.6	Degrees	
Declination to True North:	6.6	Degrees	
Bit to Survey Offset:	44.0	Feet	

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)
=	=	=	=	=	=	=	=	=
T/I	8399.5	0.0	93.6	N/A	8399.5	0.0	0.0	0.0
1.0	8474.0	8.9	93.6	74.5	8473.7	5.8	-0.4	5.8
2.0	8548.4	17.9	93.6	74.5	8546.0	23.0	-1.4	23.0
3.0	8622.9	26.8	93.6	74.5	8614.8	51.3	-3.2	51.2
4.0	8697.3	35.7	93.6	74.5	8678.4	89.9	-5.6	89.7
5.0	8771.8	44.7	93.6	74.5	8735.2	137.9	-8.6	137.6
6.0	8846.2	53.6	93.6	74.5	8783.9	194.2	-12.2	193.8
7.0	8920.7	62.5	93.6	74.5	8823.2	257.3	-16.1	256.8
8.0	8995.1	71.5	93.6	74.5	8852.3	325.7	-20.4	325.1
9.0	9069.6	80.4	93.6	74.5	8870.3	397.9	-24.9	397.1
10.0	9144.0	89.3	93.6	74.5	8877.0	472.0	-29.6	471.0
11.0	9200.0	89.3	93.6	56.0	8877.6	527.9	-33.1	526.9
12.0	9300.0	89.3	93.6	100.0	8878.8	627.9	-39.3	626.7
13.0	9400.0	89.3	93.6	100.0	8879.9	727.9	-45.6	726.5
14.0	9500.0	89.3	93.6	100.0	8881.1	827.9	-51.8	826.3
15.0	9600.0	89.3	93.6	100.0	8882.2	927.9	-58.1	926.1
16.0	9700.0	89.3	93.6	100.0	8883.4	1027.9	-64.4	1025.9
17.0	9800.0	89.3	93.6	100.0	8884.5	1127.9	-70.6	1125.7
18.0	9900.0	89.3	93.6	100.0	8885.7	1227.9	-76.9	1225.5
19.0	10000.0	89.3	93.6	100.0	8886.8	1327.9	-83.2	1325.3
20.0	10100.0	89.3	93.6	100.0	8888.0	1427.9	-89.4	1425.1
21.0	10200.0	89.3	93.6	100.0	8889.1	1527.9	-95.7	1524.9
22.0	10300.0	89.3	93.6	100.0	8890.3	1627.9	-101.9	1624.7
23.0	10400.0	89.3	93.6	100.0	8891.4	1727.8	-108.2	1724.5
24.0	10500.0	89.3	93.6	100.0	8892.6	1827.8	-114.5	1824.3
25.0	10600.0	89.3	93.6	100.0	8893.7	1927.8	-120.7	1924.0
26.0	10700.0	89.3	93.6	100.0	8894.9	2027.8	-127.0	2023.8
27.0	10800.0	89.3	93.6	100.0	8896.0	2127.8	-133.3	2123.6
28.0	10900.0	89.3	93.6	100.0	8897.2	2227.8	-139.5	2223.4
29.0	11000.0	89.3	93.6	100.0	8898.3	2327.8	-145.8	2323.2
30.0	11100.0	89.3	93.6	100.0	8899.5	2427.8	-152.0	2423.0
31.0	11200.0	89.3	93.6	100.0	8900.6	2527.8	-158.3	2522.8
32.0	11300.0	89.3	93.6	100.0	8901.8	2627.8	-164.6	2622.6
33.0	11400.0	89.3	93.6	100.0	8902.9	2727.8	-170.8	2722.4
34.0	11500.0	89.3	93.6	100.0	8904.1	2827.8	-177.1	2822.2
35.0	11600.0	89.3	93.6	100.0	8905.2	2927.8	-183.4	2922.0

36.0	11700.0	89.3	93.6	100.0	8906.4	3027.8	-189.6	3021.8
37.0	11800.0	89.3	93.6	100.0	8907.5	3127.8	-195.9	3121.6
38.0	11900.0	89.3	93.6	100.0	8908.7	3227.7	-202.1	3221.4
39.0	12000.0	89.3	93.6	100.0	8909.8	3327.7	-208.4	3321.2
40.0	12100.0	89.3	93.6	100.0	8911.0	3427.7	-214.7	3421.0
41.0	12200.0	89.3	93.6	100.0	8912.1	3527.7	-220.9	3520.8
42.0	12300.0	89.3	93.6	100.0	8913.3	3627.7	-227.2	3620.6
43.0	12400.0	89.3	93.6	100.0	8914.4	3727.7	-233.5	3720.4
44.0	12500.0	89.3	93.6	100.0	8915.6	3827.7	-239.7	3820.2
45.0	12600.0	89.3	93.6	100.0	8916.7	3927.7	-246.0	3920.0
46.0	12700.0	89.3	93.6	100.0	8917.9	4027.7	-252.2	4019.8
47.0	12800.0	89.3	93.6	100.0	8919.0	4127.7	-258.5	4119.6
48.0	12900.0	89.3	93.6	100.0	8920.2	4227.7	-264.8	4219.4
49.0	13000.0	89.3	93.6	100.0	8921.3	4327.7	-271.0	4319.2
50.0	13100.0	89.3	93.6	100.0	8922.5	4427.7	-277.3	4419.0
51.0	13200.0	89.3	93.6	100.0	8923.6	4527.7	-283.6	4518.8
52.0	13300.0	89.3	93.6	100.0	8924.8	4627.7	-289.8	4618.6
53.0	13400.0	89.3	93.6	100.0	8925.9	4727.6	-296.1	4718.4
54.0	13500.0	89.3	93.6	100.0	8927.1	4827.6	-302.3	4818.2
55.0	13600.0	89.3	93.6	100.0	8928.2	4927.6	-308.6	4918.0
56.0	13700.0	89.3	93.6	100.0	8929.4	5027.6	-314.9	5017.8
57.0	13800.0	89.3	93.6	100.0	8930.5	5127.6	-321.1	5117.6
58.0	13900.0	89.3	93.6	100.0	8931.7	5227.6	-327.4	5217.4
59.0	14000.0	89.3	93.6	100.0	8932.8	5327.6	-333.7	5317.2
60.0	14100.0	89.3	93.6	100.0	8934.0	5427.6	-339.9	5416.9
61.0	14200.0	89.3	93.6	100.0	8935.1	5527.6	-346.2	5516.7
62.0	14300.0	89.3	93.6	100.0	8936.3	5627.6	-352.4	5616.5
63.0	14400.0	89.3	93.6	100.0	8937.4	5727.6	-358.7	5716.3
64.0	14500.0	89.3	93.6	100.0	8938.6	5827.6	-365.0	5816.1
65.0	14600.0	89.3	93.6	100.0	8939.7	5927.6	-371.2	5915.9
66.0	14700.0	89.3	93.6	100.0	8940.9	6027.6	-377.5	6015.7
67.0	14800.0	89.3	93.6	100.0	8942.0	6127.6	-383.7	6115.5
68.0	14900.0	89.3	93.6	100.0	8943.2	6227.5	-390.0	6215.3
69.0	15000.0	89.3	93.6	100.0	8944.3	6327.5	-396.3	6315.1
70.0	15100.0	89.3	93.6	100.0	8945.5	6427.5	-402.5	6414.9
71.0	15200.0	89.3	93.6	100.0	8946.6	6527.5	-408.8	6514.7
72.0	15300.0	89.3	93.6	100.0	8947.8	6627.5	-415.1	6614.5
73.0	15400.0	89.3	93.6	100.0	8948.9	6727.5	-421.3	6714.3
74.0	15500.0	89.3	93.6	100.0	8950.1	6827.5	-427.6	6814.1
75.0	15600.0	89.3	93.6	100.0	8951.2	6927.5	-433.8	6913.9
76.0	15700.0	89.3	93.6	100.0	8952.4	7027.5	-440.1	7013.7
77.0	15800.0	89.3	93.6	100.0	8953.5	7127.5	-446.4	7113.5
78.0	15900.0	89.3	93.6	100.0	8954.7	7227.5	-452.6	7213.3
79.0	16000.0	89.3	93.6	100.0	8955.8	7327.5	-458.9	7313.1
80.0	16100.0	89.3	93.6	100.0	8957.0	7427.5	-465.2	7412.9
81.0	16200.0	89.3	93.6	100.0	8958.1	7527.5	-471.4	7512.7
82.0	16300.0	89.3	93.6	100.0	8959.3	7627.5	-477.7	7612.5
83.0	16400.0	89.3	93.6	100.0	8960.4	7727.4	-483.9	7712.3
84.0	16500.0	89.3	93.6	100.0	8961.6	7827.4	-490.2	7812.1
85.0	16600.0	89.3	93.6	100.0	8962.7	7927.4	-496.5	7911.9
86.0	16700.0	89.3	93.6	100.0	8963.9	8027.4	-502.7	8011.7
87.0	16800.0	89.3	93.6	100.0	8965.0	8127.4	-509.0	8111.5
88.0	16900.0	89.3	93.6	100.0	8966.2	8227.4	-515.3	8211.3
89.0	17000.0	89.3	93.6	100.0	8967.3	8327.4	-521.5	8311.1
90.0	17100.0	89.3	93.6	100.0	8968.5	8427.4	-527.8	8410.9

91.0	17200.0	89.3	93.6	100.0	8969.6	8527.4	-534.0	8510.7
92.0	17300.0	89.3	93.6	100.0	8970.8	8627.4	-540.3	8610.5
93.0	17400.0	89.3	93.6	100.0	8972.0	8727.4	-546.6	8710.3
94.0	17500.0	89.3	93.6	100.0	8973.1	8827.4	-552.8	8810.0
95.0	17600.0	89.3	93.6	100.0	8974.3	8927.4	-559.1	8909.8
96.0	17700.0	89.3	93.6	100.0	8975.4	9027.4	-565.4	9009.6
97.0	17800.0	89.3	93.6	100.0	8976.6	9127.4	-571.6	9109.4
98.0	17900.0	89.3	93.6	100.0	8977.7	9227.4	-577.9	9209.2
99.0	18000.0	89.3	93.6	100.0	8978.9	9327.3	-584.1	9309.0
100.0	18100.0	89.3	93.6	100.0	8980.0	9427.3	-590.4	9408.8
101.0	18200.0	89.3	93.6	100.0	8981.2	9527.3	-596.7	9508.6
102.0	18300.0	89.3	93.6	100.0	8982.3	9627.3	-602.9	9608.4
103.0	18400.0	89.3	93.6	100.0	8983.5	9727.3	-609.2	9708.2
104.0	18500.0	89.3	93.6	100.0	8984.6	9827.3	-615.5	9808.0
105.0	18600.0	89.3	93.6	100.0	8985.8	9927.3	-621.7	9907.8
106.0	18700.0	89.3	93.6	100.0	8986.9	10027.3	-628.0	10007.6
107.0	18710.0	89.3	93.6	100.0	8987.0	10018.5	-628.7	10017.6