

CASE NOS. 22161-22164

**APPLICATIONS OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO**

EXHIBIT LIST

1. Application and Proposed Notice
2. Landman's Affidavit
3. Geologist's Affidavit
4. Affidavits of Mailing
5. Publication Affidavit
6. Pooling Checklist

PART II

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

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 22161

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 22162

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 22163

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case No. 22164

SELF-AFFIRMED STATEMENT OF JORDAN CARRELL

Jordan Carrell 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 these cases. 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 on the Bone Spring top. It shows that structure is dipping to the southeast across the proration unit. It also shows all the 1st and 2nd Bone Spring horizontal wells in the area, a line of cross-section, and the locations of the proposed wells: The Spanish Bay 18/19 B1DM Fed Com 1H, Spanish Bay 18/19 B2DM Fed Com 1H, Spanish Bay 18/19 B1CN Fed Com 1H, Spanish Bay 18/19 B2CN Fed Com 1H, Spanish Bay 18/19 B1BO Fed Com 1H, Spanish Bay 18/19 B2BO Fed Com 1H, Spanish Bay 18/19 B1AP Fed Com 1H, and Spanish Bay 18/19 B2AP Fed Com 1H.
 - (b) Attachment B is a cross section of the 1st and 2nd Bone Spring intervals and shows the planned target zones within the 1st and 2nd Bone Spring.

EXHIBIT

3

The well logs on the cross-section give a representative sample of the Bone Spring Formation in this area. The sands are continuous and uniformly thick across the well units.

4. I conclude from the maps that:

(a) The horizontal spacing units are justified from a geologic standpoint.

(b) The target zones are continuous and of relatively uniform thickness across the well units.

(c) Each quarter-quarter section in the well units will contribute more or less equally to production from the target zone.

(d) There is no faulting or other geologic impediment in the area which will affect drilling of the subject wells.

(e) Based on the wells in the area (see Attachment A), there is no preference for standup or laydown wells. However, due to existing wells, in order for Mewbourne to drill extended laterals the wells must be standups.

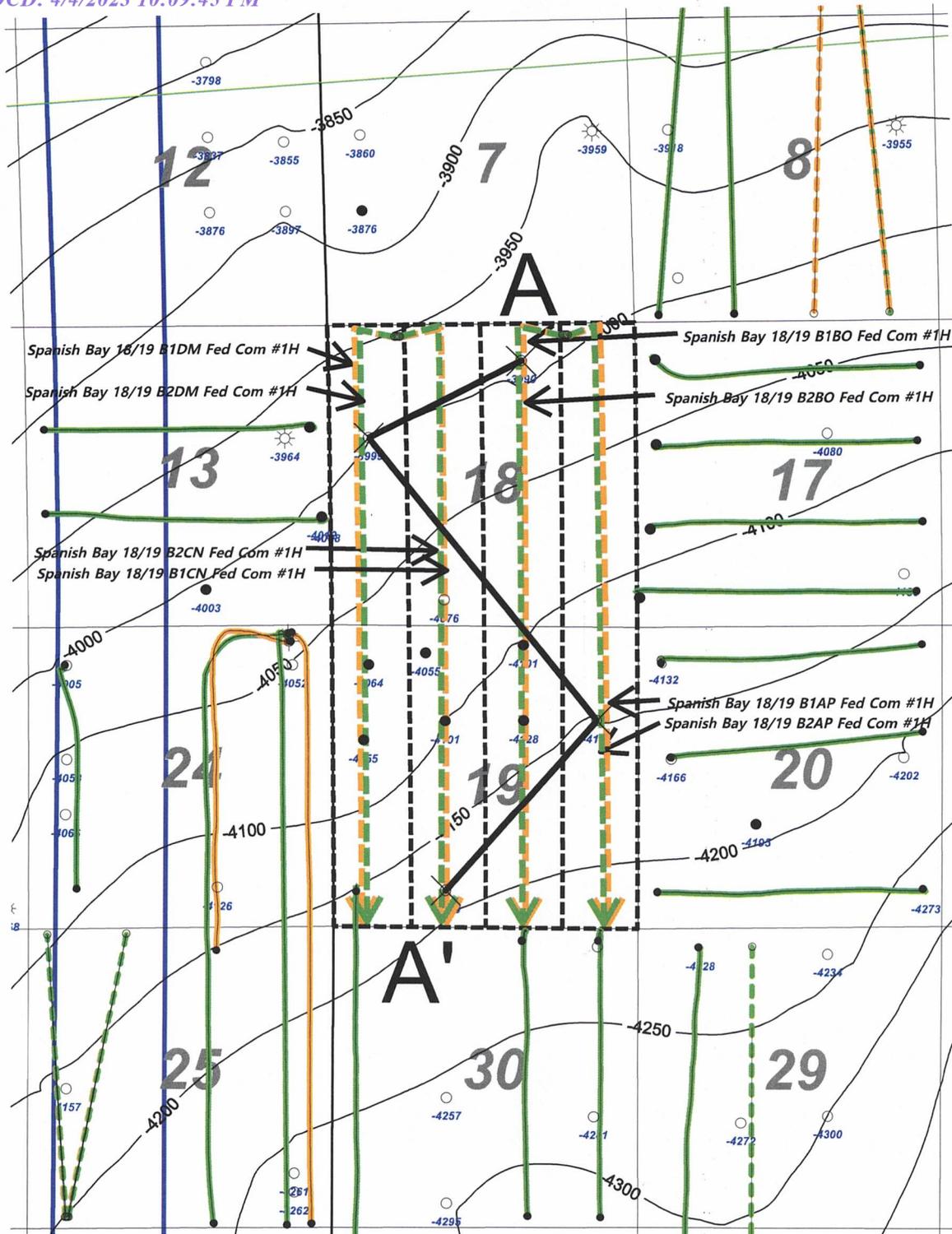
5. Attachments C-1 through C-4 contain the horizontal drilling plans for the proposed wells. The producing intervals of the wells will be orthodox.

6. I understand that this Self-Affirmed Statement will be used as written testimony in these cases. I affirm that my testimony in paragraphs 1 through 5 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 2-8-2023



Jordan Carrell
Jordan Carrell



A

ATTACHMENT

Wells deeper than 7000'

Bone Spring Top
(sub sea ft)

BSPG Horizontal Color Code

- 1st BSPG Sand Permit
- 1st BSPG Sand Well
- 2nd BSPG Sand Permit
- 2nd BSPG Sand Well

2500 0 2500 ft

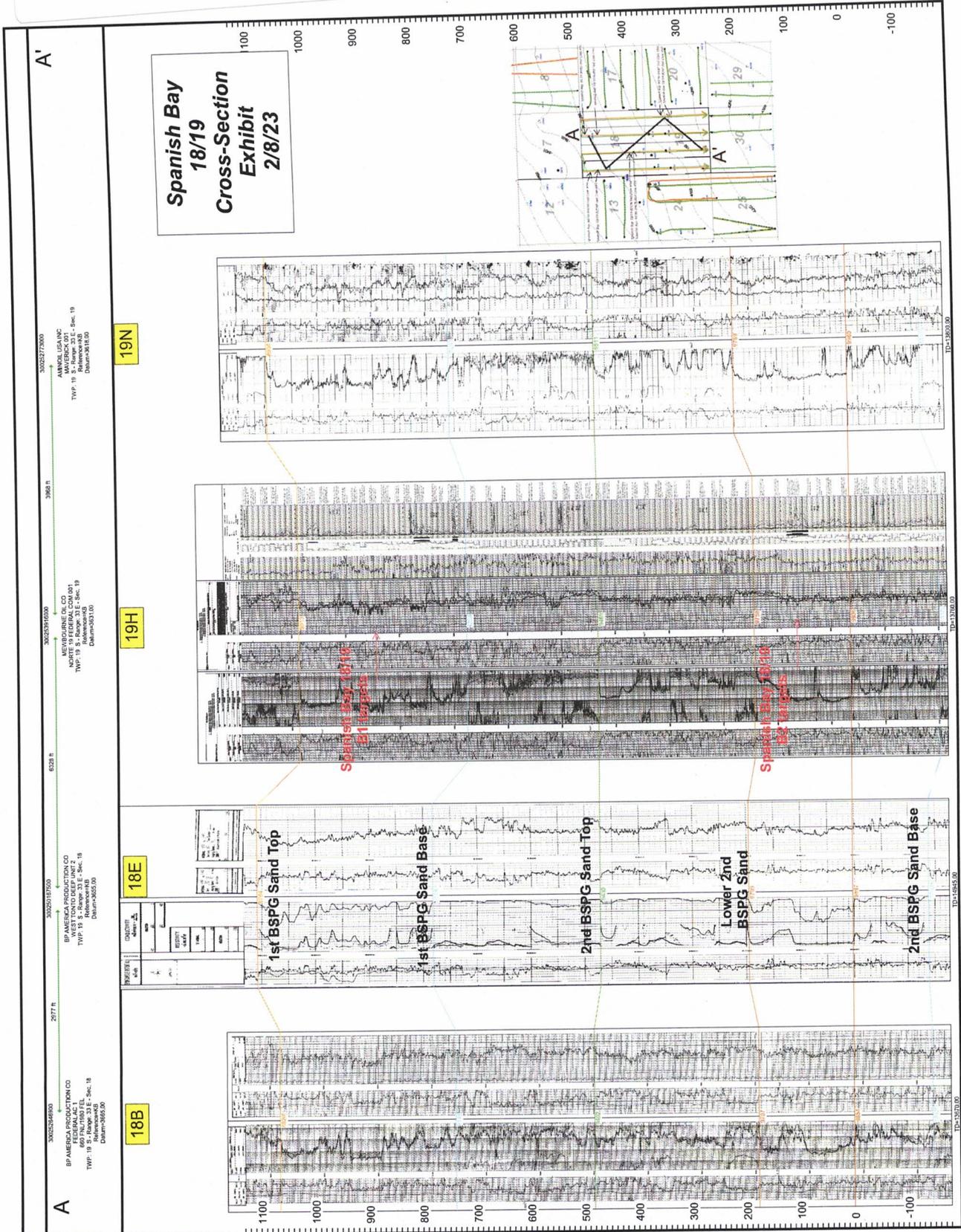
1 inch = 2100 feet



MOC Mewbourne Oil Company		
Spanish Bay 18/19 Bone Spring Top Structure Map C.I. = 50'		
2/8/23	Lea County	New Mexico
Scale: 1" = 2100'		

ATTACHMENT

B



ATTACHMENT

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 BIDM Fed Com 1H
KOP 8470.54

Target KBTVD: 8,948 Feet 8948.00
Target Angle: 88.97 Degrees 88.97
Section Plane: 183.55 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Table with columns: Survey No., Measured Depth-ft, Drift (Deg), Azimuth (Deg), Course Length, TVD (Feet), Vertical Section, +N/-S (Feet), +E/-W (Feet), Closure Distance, Closure Direction, BUR, DLS, KBTVD, +Above/Below Target, DRIFT RADIANS, AZIMUTH (RADIANS). Rows 1-56.

C-1

57	13000.00	88 07	183 55	100	9032.0	5156.2	-5146.3	-319.5	5156.2	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
58	14000.00	88 07	183 55	100	9033.8	5256.2	-5246.1	-325.7	5256.2	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
59	14100.00	88 07	183 55	100	9035.6	5356.1	-5345.8	-331.9	5356.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
60	14200.00	88 07	183 55	100	9037.4	5456.1	-5445.6	-338.1	5456.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
61	14300.00	88 07	183 55	100	9039.2	5556.1	-5545.4	-344.3	5556.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
62	14400.00	88 07	183 55	100	9041.0	5656.1	-5645.2	-350.5	5656.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
63	14500.00	88 07	183 55	100	9042.8	5756.1	-5745.0	-356.7	5756.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
64	14600.00	88 07	183 55	100	9044.6	5856.1	-5844.8	-362.9	5856.1	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
65	14700.00	88 07	183 55	100	9046.4	5956.0	-5944.6	-369.1	5956.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
66	14800.00	88 07	183 55	100	9048.2	6056.0	-6044.4	-375.3	6056.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
67	14900.00	88 07	183 55	100	9050.0	6156.0	-6144.2	-381.5	6156.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
68	15000.00	88 07	183 55	100	9051.8	6256.0	-6244.0	-387.7	6256.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
69	15100.00	88 07	183 55	100	9053.6	6356.0	-6343.8	-393.9	6356.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
70	15200.00	88 07	183 55	100	9055.4	6456.0	-6443.6	-400.1	6456.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
71	15300.00	88 07	183 55	100	9057.2	6556.0	-6543.4	-406.3	6556.0	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
72	15400.00	88 07	183 55	100	9059.0	6655.9	-6643.1	-412.5	6655.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
73	15500.00	88 07	183 55	100	9060.7	6755.9	-6742.9	-418.6	6755.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
74	15600.00	88 07	183 55	100	9062.5	6855.9	-6842.7	-424.8	6855.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
75	15700.00	88 07	183 55	100	9064.3	6955.9	-6942.5	-431.0	6955.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
76	15800.00	88 07	183 55	100	9066.1	7055.9	-7042.3	-437.2	7055.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
77	15900.00	88 07	183 55	100	9067.9	7155.9	-7142.1	-443.4	7155.9	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
78	16000.00	88 07	183 55	100	9069.7	7255.8	-7241.9	-449.6	7255.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
79	16100.00	88 07	183 55	100	9071.5	7355.8	-7341.7	-455.8	7355.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
80	16200.00	88 07	183 55	100	9073.3	7455.8	-7441.5	-462.0	7455.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
81	16300.00	88 07	183 55	100	9075.1	7555.8	-7541.3	-468.2	7555.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
82	16400.00	88 07	183 55	100	9076.9	7655.8	-7641.1	-474.4	7655.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
83	16500.00	88 07	183 55	100	9078.7	7755.8	-7740.9	-480.6	7755.8	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
84	16600.00	88 07	183 55	100	9080.5	7855.7	-7840.6	-486.8	7855.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
85	16700.00	88 07	183 55	100	9082.3	7955.7	-7940.4	-493.0	7955.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
86	16800.00	88 07	183 55	100	9084.1	8055.7	-8040.2	-499.2	8055.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
87	16900.00	88 07	183 55	100	9085.9	8155.7	-8140.0	-505.4	8155.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
88	17000.00	88 07	183 55	100	9087.7	8255.7	-8239.8	-511.6	8255.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
89	17100.00	88 07	183 55	100	9089.5	8355.7	-8339.6	-517.8	8355.7	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
90	17200.00	88 07	183 55	100	9091.3	8455.6	-8439.4	-524.0	8455.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
91	17300.00	88 07	183 55	100	9093.0	8555.6	-8539.2	-530.2	8555.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
92	17400.00	88 07	183 55	100	9094.8	8655.6	-8639.0	-536.4	8655.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
93	17500.00	88 07	183 55	100	9096.6	8755.6	-8738.8	-542.6	8755.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
94	17600.00	88 07	183 55	100	9098.4	8855.6	-8838.6	-548.8	8855.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
95	17700.00	88 07	183 55	100	9100.2	8955.6	-8938.4	-555.0	8955.6	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
96	17800.00	88 07	183 55	100	9102.0	9055.5	-9038.1	-561.2	9055.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
97	17900.00	88 07	183 55	100	9103.8	9155.5	-9137.9	-567.3	9155.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
98	18000.00	88 07	183 55	100	9105.6	9255.5	-9237.7	-573.5	9255.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
99	18100.00	88 07	183 55	100	9107.4	9355.5	-9337.5	-579.7	9355.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
100	18200.00	88 07	183 55	100	9109.2	9455.5	-9437.3	-585.9	9455.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
101	18300.00	88 07	183 55	100	9111.0	9555.5	-9537.1	-592.1	9555.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
102	18400.00	88 07	183 55	100	9112.8	9655.5	-9636.9	-598.3	9655.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
103	18500.00	88 07	183 55	100	9114.6	9755.4	-9736.7	-604.5	9755.4	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
104	18600.00	88 07	183 55	100	9116.4	9855.4	-9836.5	-610.7	9855.4	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
105	18700.00	88 07	183 55	100	9118.2	9955.4	-9936.3	-616.9	9955.4	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
106	18800.00	88 07	183 55	100	9120.0	10055.4	-10036.1	-623.1	10055.4	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
107	18900.00	88 07	183 55	100	9121.8	10155.4	-10135.9	-629.3	10155.4	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10
108	18972.13	88 07	183 55	72.128	9123.0	10227.5	-10207.8	-633.8	10227.5	183.6	0.0	0.0	8939.5	8.5	1.55285	3.20	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B2DM Fed Com 1H
KOP 9335.54

Target KBTVD: 9,813 Feet 9813.00
Target Angle: 89.24 Degrees 89.24
Section Plane: 183.72 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below		DRIFT RADIANS	AZIMUTH (RADIAN)
														Target	Target		
T/1	9335.54	0.00	183.72	N/A	9335.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	-9335.5	477.5	1E-12	3.21	#VALUE!
1	9409.90	8.92	183.72	74.364	9409.6	5.8	-5.8	-0.4	5.8	183.7	12.0	12.0	9409.5	403.5	0.15575	3.21	0.155747
2	9484.20	17.85	183.72	74.364	9481.9	23.0	-22.9	-1.5	23.0	183.7	12.0	12.0	9481.6	331.4	0.31149	3.21	0.155747
3	9558.03	26.77	183.72	74.364	9550.6	51.2	-51.1	-3.3	51.2	183.7	12.0	12.0	9549.9	263.1	0.46724	3.21	0.155747
4	9632.90	35.69	183.72	74.364	9614.1	89.7	-89.5	-5.8	89.7	183.7	12.0	12.0	9612.9	200.1	0.62299	3.21	0.155747
5	9707.35	44.62	183.72	74.364	9670.9	137.6	-137.3	-8.9	137.6	183.7	12.0	12.0	9669.1	143.9	0.77873	3.21	0.155747
6	9781.72	53.54	183.72	74.364	9719.6	193.7	-193.3	-12.6	193.7	183.7	12.0	12.0	9717.0	96.0	0.93448	3.21	0.155747
7	9856.08	62.47	183.72	74.364	9758.9	256.7	-256.2	-16.7	256.7	183.7	12.0	12.0	9755.5	57.5	1.09023	3.21	0.155747
8	9930.44	71.39	183.72	74.364	9788.0	325.1	-324.4	-21.1	325.1	183.7	12.0	12.0	9783.7	29.3	1.24597	3.21	0.155747
9	10004.81	80.31	183.72	74.364	9806.2	397.1	-396.3	-25.8	397.1	183.7	12.0	12.0	9800.9	12.1	1.40172	3.21	0.155747
10	10079.17	89.24	183.72	74.364	9813.0	471.1	-470.1	-30.6	471.1	183.7	12.0	12.0	9806.7	6.3	1.55747	3.21	0.155747
11	10100.00	89.24	183.72	20.829	9813.2	491.9	-490.9	-31.9	491.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
12	10200.00	89.24	183.72	100	9814.6	591.9	-590.7	-38.4	591.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
13	10300.00	89.24	183.72	100	9815.9	691.9	-690.5	-44.9	691.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
14	10400.00	89.24	183.72	100	9817.2	791.9	-790.2	-51.4	791.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
15	10500.00	89.24	183.72	100	9818.6	891.9	-890.0	-57.9	891.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
16	10600.00	89.24	183.72	100	9819.9	991.9	-989.8	-64.4	991.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
17	10700.00	89.24	183.72	100	9821.2	1091.9	-1089.6	-70.9	1091.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
18	10800.00	89.24	183.72	100	9822.6	1191.9	-1189.4	-77.4	1191.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
19	10900.00	89.24	183.72	100	9823.9	1291.9	-1289.1	-83.9	1291.9	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
20	11000.00	89.24	183.72	100	9825.2	1391.8	-1388.9	-90.3	1391.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
21	11100.00	89.24	183.72	100	9826.6	1491.8	-1488.7	-96.8	1491.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
22	11200.00	89.24	183.72	100	9827.9	1591.8	-1588.5	-103.3	1591.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
23	11300.00	89.24	183.72	100	9829.2	1691.8	-1688.3	-109.8	1691.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
24	11400.00	89.24	183.72	100	9830.6	1791.8	-1788.0	-116.3	1791.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
25	11500.00	89.24	183.72	100	9831.9	1891.8	-1887.8	-122.8	1891.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
26	11600.00	89.24	183.72	100	9833.2	1991.8	-1987.6	-129.3	1991.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
27	11700.00	89.24	183.72	100	9834.6	2091.8	-2087.4	-135.8	2091.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
28	11800.00	89.24	183.72	100	9835.9	2191.8	-2187.2	-142.3	2191.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
29	11900.00	89.24	183.72	100	9837.2	2291.8	-2286.9	-148.8	2291.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
30	12000.00	89.24	183.72	100	9838.6	2391.8	-2386.7	-155.2	2391.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
31	12100.00	89.24	183.72	100	9839.9	2491.8	-2486.5	-161.7	2491.8	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
32	12200.00	89.24	183.72	100	9841.2	2591.7	-2586.3	-168.2	2591.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
33	12300.00	89.24	183.72	100	9842.6	2691.7	-2686.1	-174.7	2691.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
34	12400.00	89.24	183.72	100	9843.9	2791.7	-2785.8	-181.2	2791.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
35	12500.00	89.24	183.72	100	9845.2	2891.7	-2885.6	-187.7	2891.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
36	12600.00	89.24	183.72	100	9846.6	2991.7	-2985.4	-194.2	2991.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
37	12700.00	89.24	183.72	100	9847.9	3091.7	-3085.2	-200.7	3091.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
38	12800.00	89.24	183.72	100	9849.2	3191.7	-3185.0	-207.2	3191.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
39	12900.00	89.24	183.72	100	9850.6	3291.7	-3284.7	-213.7	3291.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
40	13000.00	89.24	183.72	100	9851.9	3391.7	-3384.5	-220.1	3391.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
41	13100.00	89.24	183.72	100	9853.2	3491.7	-3484.3	-226.6	3491.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
42	13200.00	89.24	183.72	100	9854.6	3591.7	-3584.1	-233.1	3591.7	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
43	13300.00	89.24	183.72	100	9855.9	3691.6	-3683.9	-239.6	3691.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
44	13400.00	89.24	183.72	100	9857.2	3791.6	-3783.6	-246.1	3791.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
45	13500.00	89.24	183.72	100	9858.6	3891.6	-3883.4	-252.6	3891.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
46	13600.00	89.24	183.72	100	9859.9	3991.6	-3983.2	-259.1	3991.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
47	13700.00	89.24	183.72	100	9861.2	4091.6	-4083.0	-265.6	4091.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
48	13800.00	89.24	183.72	100	9862.5	4191.6	-4182.8	-272.1	4191.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
49	13900.00	89.24	183.72	100	9863.9	4291.6	-4282.5	-278.6	4291.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
50	14000.00	89.24	183.72	100	9865.2	4391.6	-4382.3	-285.0	4391.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
51	14100.00	89.24	183.72	100	9866.5	4491.6	-4482.1	-291.5	4491.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
52	14200.00	89.24	183.72	100	9867.9	4591.6	-4581.9	-298.0	4591.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
53	14300.00	89.24	183.72	100	9869.2	4691.6	-4681.7	-304.5	4691.6	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
54	14400.00	89.24	183.72	100	9870.5	4791.5	-4781.4	-311.0	4791.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
55	14500.00	89.24	183.72	100	9871.9	4891.5	-4881.2	-317.5	4891.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
56	14600.00	89.24	183.72	100	9873.2	4991.5	-4981.0	-324.0	4991.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10

57	14700.00	89 24	183 72	100	9874.5	5091.5	-5080.8	-330.5	5091.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
58	14800.00	89 24	183 72	100	9875.9	5191.5	-5180.6	-337.0	5191.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
59	14900.00	89 24	183 72	100	9877.2	5291.5	-5280.3	-343.5	5291.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
60	15000.00	89 24	183 72	100	9878.5	5391.5	-5380.1	-349.9	5391.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
61	15100.00	89 24	183 72	100	9879.9	5491.5	-5479.9	-356.4	5491.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
62	15200.00	89 24	183 72	100	9881.2	5591.5	-5579.7	-362.9	5591.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
63	15300.00	89 24	183 72	100	9882.5	5691.5	-5679.5	-369.4	5691.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
64	15400.00	89 24	183 72	100	9883.9	5791.5	-5779.2	-375.9	5791.5	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
65	15500.00	89 24	183 72	100	9885.2	5891.4	-5879.0	-382.4	5891.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
66	15600.00	89 24	183 72	100	9886.5	5991.4	-5978.8	-388.9	5991.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
67	15700.00	89 24	183 72	100	9887.9	6091.4	-6078.6	-395.4	6091.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
68	15800.00	89 24	183 72	100	9889.2	6191.4	-6178.4	-401.9	6191.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
69	15900.00	89 24	183 72	100	9890.5	6291.4	-6278.1	-408.4	6291.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
70	16000.00	89 24	183 72	100	9891.9	6391.4	-6377.9	-414.8	6391.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
71	16100.00	89 24	183 72	100	9893.2	6491.4	-6477.7	-421.3	6491.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
72	16200.00	89 24	183 72	100	9894.5	6591.4	-6577.5	-427.8	6591.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
73	16300.00	89 24	183 72	100	9895.9	6691.4	-6677.3	-434.3	6691.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
74	16400.00	89 24	183 72	100	9897.2	6791.4	-6777.0	-440.8	6791.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
75	16500.00	89 24	183 72	100	9898.5	6891.4	-6876.8	-447.3	6891.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
76	16600.00	89 24	183 72	100	9899.9	6991.4	-6976.6	-453.8	6991.4	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
77	16700.00	89 24	183 72	100	9901.2	7091.3	-7076.4	-460.3	7091.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
78	16800.00	89 24	183 72	100	9902.5	7191.3	-7176.2	-466.8	7191.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
79	16900.00	89 24	183 72	100	9903.9	7291.3	-7275.9	-473.3	7291.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
80	17000.00	89 24	183 72	100	9905.2	7391.3	-7375.7	-479.8	7391.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
81	17100.00	89 24	183 72	100	9906.5	7491.3	-7475.5	-486.2	7491.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
82	17200.00	89 24	183 72	100	9907.9	7591.3	-7575.3	-492.7	7591.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
83	17300.00	89 24	183 72	100	9909.2	7691.3	-7675.1	-499.2	7691.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
84	17400.00	89 24	183 72	100	9910.5	7791.3	-7774.9	-505.7	7791.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
85	17500.00	89 24	183 72	100	9911.9	7891.3	-7874.6	-512.2	7891.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
86	17600.00	89 24	183 72	100	9913.2	7991.3	-7974.4	-518.7	7991.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
87	17700.00	89 24	183 72	100	9914.5	8091.3	-8074.2	-525.2	8091.3	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
88	17800.00	89 24	183 72	100	9915.9	8191.2	-8174.0	-531.7	8191.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
89	17900.00	89 24	183 72	100	9917.2	8291.2	-8273.8	-538.2	8291.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
90	18000.00	89 24	183 72	100	9918.5	8391.2	-8373.5	-544.7	8391.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
91	18100.00	89 24	183 72	100	9919.9	8491.2	-8473.3	-551.1	8491.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
92	18200.00	89 24	183 72	100	9921.2	8591.2	-8573.1	-557.6	8591.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
93	18300.00	89 24	183 72	100	9922.5	8691.2	-8672.9	-564.1	8691.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
94	18400.00	89 24	183 72	100	9923.9	8791.2	-8772.7	-570.6	8791.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
95	18500.00	89 24	183 72	100	9925.2	8891.2	-8872.4	-577.1	8891.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
96	18600.00	89 24	183 72	100	9926.5	8991.2	-8972.2	-583.6	8991.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
97	18700.00	89 24	183 72	100	9927.9	9091.2	-9072.0	-590.1	9091.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
98	18800.00	89 24	183 72	100	9929.2	9191.2	-9171.8	-596.6	9191.2	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
99	18900.00	89 24	183 72	100	9930.5	9291.1	-9271.6	-603.1	9291.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
100	19000.00	89 24	183 72	100	9931.9	9391.1	-9371.3	-609.6	9391.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
101	19100.00	89 24	183 72	100	9933.2	9491.1	-9471.1	-616.0	9491.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
102	19200.00	89 24	183 72	100	9934.5	9591.1	-9570.9	-622.5	9591.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
103	19300.00	89 24	183 72	100	9935.9	9691.1	-9670.7	-629.0	9691.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
104	19400.00	89 24	183 72	100	9937.2	9791.1	-9770.5	-635.5	9791.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
105	19500.00	89 24	183 72	100	9938.5	9891.1	-9870.2	-642.0	9891.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
106	19600.00	89 24	183 72	100	9939.9	9991.1	-9970.0	-648.5	9991.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
107	19700.00	89 24	183 72	100	9941.2	10091.1	-10069.8	-655.0	10091.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
108	19800.00	89 24	183 72	100	9942.5	10191.1	-10169.6	-661.5	10191.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10
109	19838.64	89 24	183 72	100	9943.0	10229.7	-10208.2	-661.5	10191.1	183.7	0.0	0.0	9806.7	6.3	1.55747	3.21	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B1CN Fed Com 1H
KOP 9334.54

Target KBTVD: 9,812 Feet 9812.00
Target Angle: 89.24 Degrees 89.24
Section Plane: 175.94 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg)	Azimuth (Deg)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below			DRIFT RADIANS	AZIMUTH (RADIANS)
														Target				
T/1	9334.54	0.00	175.94	N/A	9334.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9334.5	477.5	1E-12	3.07	#VALUE!	
1	9408.90	8.92	175.94	74.365	9408.6	5.8	-5.8	0.4	5.8	175.9	12.0	12.0	9408.5	403.5	0.15575	3.07	0.15575	
2	9483.27	17.85	175.94	74.365	9480.9	23.0	-22.9	1.6	23.0	175.9	12.0	12.0	9480.6	331.4	0.3115	3.07	0.15575	
3	9557.03	26.77	175.94	74.365	9549.6	51.2	-51.1	3.6	51.2	175.9	12.0	12.0	9548.9	263.1	0.46725	3.07	0.15575	
4	9632.00	35.70	175.94	74.365	9613.1	89.7	-89.5	6.4	89.7	175.9	12.0	12.0	9611.9	200.1	0.623	3.07	0.15575	
5	9706.36	44.62	175.94	74.365	9669.9	137.6	-137.3	9.7	137.6	175.9	12.0	12.0	9668.1	143.9	0.77875	3.07	0.15575	
6	9780.72	53.54	175.94	74.365	9718.6	193.7	-193.3	13.7	193.7	175.9	12.0	12.0	9716.0	96.0	0.9345	3.07	0.15575	
7	9855.09	62.47	175.94	74.365	9757.9	256.7	-256.1	18.2	256.7	175.9	12.0	12.0	9754.5	57.5	1.09025	3.07	0.15575	
8	9929.45	71.39	175.94	74.365	9787.0	325.1	-324.3	23.0	325.1	175.9	12.0	12.0	9782.7	29.3	1.246	3.07	0.15575	
9	10003.82	80.31	175.94	74.365	9805.2	397.1	-396.1	28.1	397.1	175.9	12.0	12.0	9799.9	12.1	1.40175	3.07	0.15575	
10	10078.18	89.24	175.94	74.365	9812.0	471.1	-469.9	33.4	471.1	175.9	12.0	12.0	9805.7	6.3	1.5575	3.07	0.15575	
11	10100.00	89.24	175.94	21.815	9812.2	492.9	-491.7	34.9	492.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
12	10200.00	89.24	175.94	100	9813.6	592.9	-591.4	42.0	592.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
13	10300.00	89.24	175.94	100	9814.9	692.9	-691.2	49.1	692.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
14	10400.00	89.24	175.94	100	9816.2	792.9	-790.9	56.1	792.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
15	10500.00	89.24	175.94	100	9817.6	892.9	-890.7	63.2	892.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
16	10600.00	89.24	175.94	100	9818.9	992.9	-990.4	70.3	992.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
17	10700.00	89.24	175.94	100	9820.2	1092.9	-1090.1	77.4	1092.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
18	10800.00	89.24	175.94	100	9821.6	1192.9	-1189.9	84.5	1192.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
19	10900.00	89.24	175.94	100	9822.9	1292.9	-1289.6	91.6	1292.9	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
20	11000.00	89.24	175.94	100	9824.2	1392.8	-1389.4	98.6	1392.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
21	11100.00	89.24	175.94	100	9825.5	1492.8	-1489.1	105.7	1492.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
22	11200.00	89.24	175.94	100	9826.9	1592.8	-1588.8	112.8	1592.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
23	11300.00	89.24	175.94	100	9828.2	1692.8	-1688.6	119.9	1692.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
24	11400.00	89.24	175.94	100	9829.5	1792.8	-1788.3	127.0	1792.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
25	11500.00	89.24	175.94	100	9830.9	1892.8	-1888.1	134.0	1892.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
26	11600.00	89.24	175.94	100	9832.2	1992.8	-1987.8	141.1	1992.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
27	11700.00	89.24	175.94	100	9833.5	2092.8	-2087.5	148.2	2092.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
28	11800.00	89.24	175.94	100	9834.9	2192.8	-2187.3	155.3	2192.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
29	11900.00	89.24	175.94	100	9836.2	2292.8	-2287.0	162.4	2292.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
30	12000.00	89.24	175.94	100	9837.5	2392.8	-2386.8	169.4	2392.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
31	12100.00	89.24	175.94	100	9838.8	2492.8	-2486.5	176.5	2492.8	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
32	12200.00	89.24	175.94	100	9840.2	2592.7	-2586.2	183.6	2592.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
33	12300.00	89.24	175.94	100	9841.5	2692.7	-2686.0	190.7	2692.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
34	12400.00	89.24	175.94	100	9842.8	2792.7	-2785.7	197.8	2792.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
35	12500.00	89.24	175.94	100	9844.2	2892.7	-2885.5	204.8	2892.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
36	12600.00	89.24	175.94	100	9845.5	2992.7	-2985.2	211.9	2992.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
37	12700.00	89.24	175.94	100	9846.8	3092.7	-3084.9	219.0	3092.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
38	12800.00	89.24	175.94	100	9848.2	3192.7	-3184.7	226.1	3192.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
39	12900.00	89.24	175.94	100	9849.5	3292.7	-3284.4	233.2	3292.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
40	13000.00	89.24	175.94	100	9850.8	3392.7	-3384.2	240.2	3392.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
41	13100.00	89.24	175.94	100	9852.1	3492.7	-3483.9	247.3	3492.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
42	13200.00	89.24	175.94	100	9853.5	3592.7	-3583.6	254.4	3592.7	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
43	13300.00	89.24	175.94	100	9854.8	3692.6	-3683.4	261.5	3692.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
44	13400.00	89.24	175.94	100	9856.1	3792.6	-3783.1	268.6	3792.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
45	13500.00	89.24	175.94	100	9857.5	3892.6	-3882.9	275.7	3892.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
46	13600.00	89.24	175.94	100	9858.8	3992.6	-3982.6	282.7	3992.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
47	13700.00	89.24	175.94	100	9860.1	4092.6	-4082.3	289.8	4092.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
48	13800.00	89.24	175.94	100	9861.5	4192.6	-4182.1	296.9	4192.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
49	13900.00	89.24	175.94	100	9862.8	4292.6	-4281.8	304.0	4292.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
50	14000.00	89.24	175.94	100	9864.1	4392.6	-4381.6	311.1	4392.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
51	14100.00	89.24	175.94	100	9865.4	4492.6	-4481.3	318.1	4492.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
52	14200.00	89.24	175.94	100	9866.8	4592.6	-4581.0	325.2	4592.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
53	14300.00	89.24	175.94	100	9868.1	4692.6	-4680.8	332.3	4692.6	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
54	14400.00	89.24	175.94	100	9869.4	4792.5	-4780.5	339.4	4792.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
55	14500.00	89.24	175.94	100	9870.8	4892.5	-4880.3	346.5	4892.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	
56	14600.00	89.24	175.94	100	9872.1	4992.5	-4980.0	353.5	4992.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	1E-10	

ATTACHMENT

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57	14700.00	89.24	175.94	100	9873.4	5092.5	-5079.7	360.6	5092.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
58	14600.00	89.24	175.94	100	9874.8	5192.5	-5179.5	367.7	5192.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
59	14900.00	89.24	175.94	100	9876.1	5292.5	-5279.2	374.8	5292.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
60	15000.00	89.24	175.94	100	9877.4	5392.5	-5379.0	381.9	5392.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
61	15100.00	89.24	175.94	100	9878.7	5492.5	-5478.7	388.9	5492.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
62	15200.00	89.24	175.94	100	9880.1	5592.5	-5578.4	396.0	5592.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
63	15300.00	89.24	175.94	100	9881.4	5692.5	-5678.2	403.1	5692.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
64	15400.00	89.24	175.94	100	9882.7	5792.5	-5777.9	410.2	5792.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
65	15500.00	89.24	175.94	100	9884.1	5892.5	-5877.7	417.3	5892.5	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
66	15600.00	89.24	175.94	100	9885.4	5992.4	-5977.4	424.3	5992.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
67	15700.00	89.24	175.94	100	9886.7	6092.4	-6077.1	431.4	6092.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
68	15800.00	89.24	175.94	100	9888.1	6192.4	-6176.9	438.5	6192.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
69	15900.00	89.24	175.94	100	9889.4	6292.4	-6276.6	445.6	6292.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
70	16000.00	89.24	175.94	100	9890.7	6392.4	-6376.4	452.7	6392.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
71	16100.00	89.24	175.94	100	9892.0	6492.4	-6476.1	459.8	6492.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
72	16200.00	89.24	175.94	100	9893.4	6592.4	-6575.8	466.8	6592.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
73	16300.00	89.24	175.94	100	9894.7	6692.4	-6675.6	473.9	6692.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
74	16400.00	89.24	175.94	100	9896.0	6792.4	-6775.3	481.0	6792.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
75	16500.00	89.24	175.94	100	9897.4	6892.4	-6875.1	488.1	6892.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
76	16600.00	89.24	175.94	100	9898.7	6992.4	-6974.8	495.2	6992.4	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
77	16700.00	89.24	175.94	100	9900.0	7092.3	-7074.5	502.2	7092.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
78	16800.00	89.24	175.94	100	9901.4	7192.3	-7174.3	509.3	7192.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
79	16900.00	89.24	175.94	100	9902.7	7292.3	-7274.0	516.4	7292.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
80	17000.00	89.24	175.94	100	9904.0	7392.3	-7373.8	523.5	7392.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
81	17100.00	89.24	175.94	100	9905.3	7492.3	-7473.5	530.6	7492.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
82	17200.00	89.24	175.94	100	9906.7	7592.3	-7573.2	537.6	7592.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
83	17300.00	89.24	175.94	100	9908.0	7692.3	-7673.0	544.7	7692.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
84	17400.00	89.24	175.94	100	9909.3	7792.3	-7772.7	551.8	7792.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
85	17500.00	89.24	175.94	100	9910.7	7892.3	-7872.5	558.9	7892.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
86	17600.00	89.24	175.94	100	9912.0	7992.3	-7972.2	566.0	7992.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
87	17700.00	89.24	175.94	100	9913.3	8092.3	-8071.9	573.0	8092.3	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
88	17800.00	89.24	175.94	100	9914.7	8192.2	-8171.7	580.1	8192.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
89	17900.00	89.24	175.94	100	9916.0	8292.2	-8271.4	587.2	8292.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
90	18000.00	89.24	175.94	100	9917.3	8392.2	-8371.2	594.3	8392.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
91	18100.00	89.24	175.94	100	9918.6	8492.2	-8470.9	601.4	8492.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
92	18200.00	89.24	175.94	100	9920.0	8592.2	-8570.6	608.4	8592.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
93	18300.00	89.24	175.94	100	9921.3	8692.2	-8670.4	615.5	8692.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
94	18400.00	89.24	175.94	100	9922.6	8792.2	-8770.1	622.6	8792.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
95	18500.00	89.24	175.94	100	9924.0	8892.2	-8869.9	629.7	8892.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
96	18600.00	89.24	175.94	100	9925.3	8992.2	-8969.6	636.8	8992.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
97	18700.00	89.24	175.94	100	9926.6	9092.2	-9069.3	643.8	9092.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
98	18800.00	89.24	175.94	100	9928.0	9192.2	-9169.1	650.9	9192.2	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
99	18900.00	89.24	175.94	100	9929.3	9292.1	-9268.8	658.0	9292.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
100	19000.00	89.24	175.94	100	9930.6	9392.1	-9368.6	665.1	9392.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
101	19100.00	89.24	175.94	100	9931.9	9492.1	-9468.3	672.2	9492.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
102	19200.00	89.24	175.94	100	9933.3	9592.1	-9568.0	679.3	9592.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
103	19300.00	89.24	175.94	100	9934.6	9692.1	-9667.8	686.3	9692.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
104	19400.00	89.24	175.94	100	9935.9	9792.1	-9767.5	693.4	9792.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
105	19500.00	89.24	175.94	100	9937.3	9892.1	-9867.3	700.5	9892.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
106	19600.00	89.24	175.94	100	9938.6	9992.1	-9967.0	707.6	9992.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
107	19700.00	89.24	175.94	100	9939.9	10092.1	-10066.7	714.7	10092.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
108	19800.00	89.24	175.94	100	9941.3	10192.1	-10166.5	721.7	10192.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10
109	19858.20	89.24	175.94	100	9942.0	10250.3	-10224.7	721.7	10192.1	175.9	0.0	0.0	9805.7	6.3	1.5575	3.07	IE-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B2CN Fed Com 1H
KOP 9324.54

Target KBTVD: 9,802 Feet 9802.00
Target Angle: 89.18 Degrees 89.18
Section Plane: 176.05 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-R	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below		
														Target	DRIFT RADIANS	AZIMUTH (RADIANS)
T/I	9324.54	0.00	176.05	N/A	9324.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9324.5	477.5	1E-12	3.07 #VALUE!
1	9368.85	8.92	176.05	74.316	9398.6	5.8	-5.8	0.4	5.8	176.0	12.0	12.0	9398.5	403.5	0.15565	3.07 0.155647
2	9473.17	17.84	176.05	74.316	9470.8	22.9	-22.9	1.6	22.9	176.0	12.0	12.0	9470.4	331.6	0.31129	3.07 0.155647
3	9547.48	26.75	176.05	74.316	9539.5	51.1	-51.0	3.5	51.1	176.0	12.0	12.0	9538.7	263.3	0.46694	3.07 0.155647
4	9621.80	35.67	176.05	74.316	9603.0	89.6	-89.4	6.2	89.6	176.0	12.0	12.0	9601.7	200.3	0.62259	3.07 0.155647
5	9696.12	44.59	176.05	74.316	9659.7	137.4	-137.1	9.5	137.4	176.0	12.0	12.0	9657.8	144.2	0.77824	3.07 0.155647
6	9770.43	53.51	176.05	74.316	9708.4	193.5	-193.0	13.3	193.5	176.0	12.0	12.0	9705.6	96.4	0.93388	3.07 0.155647
7	9844.75	62.43	176.05	74.316	9747.8	256.4	-255.8	17.7	256.4	176.0	12.0	12.0	9744.1	57.9	1.08953	3.07 0.155647
8	9919.06	71.34	176.05	74.316	9776.9	324.7	-324.0	22.4	324.7	176.0	12.0	12.0	9772.3	29.7	1.24518	3.07 0.155647
9	9993.38	80.26	176.05	74.316	9795.1	396.7	-395.8	27.3	396.7	176.0	12.0	12.0	9789.4	12.6	1.40082	3.07 0.155647
10	10067.70	89.18	176.05	74.316	9802.0	470.6	-469.5	32.4	470.6	176.0	12.0	12.0	9795.2	6.8	1.55647	3.07 0.155647
11	10100.00	89.18	176.05	32.305	9802.4	502.9	-501.7	34.7	502.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
12	10200.00	89.18	176.05	100	9803.8	602.9	-601.5	41.5	602.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
13	10300.00	89.18	176.05	100	9805.3	702.9	-701.2	48.4	702.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
14	10400.00	89.18	176.05	100	9806.7	802.9	-801.0	55.3	802.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
15	10500.00	89.18	176.05	100	9808.1	902.9	-900.7	62.2	902.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
16	10600.00	89.18	176.05	100	9809.6	1002.9	-1000.5	69.1	1002.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
17	10700.00	89.18	176.05	100	9811.0	1102.9	-1100.2	76.0	1102.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
18	10800.00	89.18	176.05	100	9812.4	1202.9	-1200.0	82.9	1202.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
19	10900.00	89.18	176.05	100	9813.9	1302.8	-1299.7	89.8	1302.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
20	11000.00	89.18	176.05	100	9815.3	1402.8	-1399.5	96.7	1402.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
21	11100.00	89.18	176.05	100	9816.7	1502.8	-1499.3	103.6	1502.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
22	11200.00	89.18	176.05	100	9818.2	1602.8	-1599.0	110.4	1602.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
23	11300.00	89.18	176.05	100	9819.6	1702.8	-1698.8	117.3	1702.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
24	11400.00	89.18	176.05	100	9821.0	1802.8	-1798.5	124.2	1802.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
25	11500.00	89.18	176.05	100	9822.5	1902.8	-1898.3	131.1	1902.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
26	11600.00	89.18	176.05	100	9823.9	2002.8	-1998.0	138.0	2002.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
27	11700.00	89.18	176.05	100	9825.3	2102.8	-2097.8	144.9	2102.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
28	11800.00	89.18	176.05	100	9826.8	2202.8	-2197.5	151.8	2202.8	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
29	11900.00	89.18	176.05	100	9828.2	2302.7	-2297.3	158.7	2302.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
30	12000.00	89.18	176.05	100	9829.6	2402.7	-2397.0	165.6	2402.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
31	12100.00	89.18	176.05	100	9831.1	2502.7	-2496.8	172.4	2502.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
32	12200.00	89.18	176.05	100	9832.5	2602.7	-2596.5	179.3	2602.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
33	12300.00	89.18	176.05	100	9833.9	2702.7	-2696.3	186.2	2702.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
34	12400.00	89.18	176.05	100	9835.4	2802.7	-2796.0	193.1	2802.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
35	12500.00	89.18	176.05	100	9836.8	2902.7	-2895.8	200.0	2902.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
36	12600.00	89.18	176.05	100	9838.2	3002.7	-2995.5	206.9	3002.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
37	12700.00	89.18	176.05	100	9839.7	3102.7	-3095.3	213.8	3102.7	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
38	12800.00	89.18	176.05	100	9841.1	3202.6	-3195.0	220.7	3202.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
39	12900.00	89.18	176.05	100	9842.5	3302.6	-3294.8	227.6	3302.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
40	13000.00	89.18	176.05	100	9844.0	3402.6	-3394.5	234.5	3402.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
41	13100.00	89.18	176.05	100	9845.4	3502.6	-3494.3	241.3	3502.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
42	13200.00	89.18	176.05	100	9846.8	3602.6	-3594.0	248.2	3602.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
43	13300.00	89.18	176.05	100	9848.3	3702.6	-3693.8	255.1	3702.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
44	13400.00	89.18	176.05	100	9849.7	3802.6	-3793.6	262.0	3802.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
45	13500.00	89.18	176.05	100	9851.1	3902.6	-3893.3	268.9	3902.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
46	13600.00	89.18	176.05	100	9852.6	4002.6	-3993.1	275.8	4002.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
47	13700.00	89.18	176.05	100	9854.0	4102.6	-4092.8	282.7	4102.6	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
48	13800.00	89.18	176.05	100	9855.4	4202.5	-4192.6	289.6	4202.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
49	13900.00	89.18	176.05	100	9856.9	4302.5	-4292.3	296.5	4302.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
50	14000.00	89.18	176.05	100	9858.3	4402.5	-4392.1	303.4	4402.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
51	14100.00	89.18	176.05	100	9859.7	4502.5	-4491.8	310.2	4502.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
52	14200.00	89.18	176.05	100	9861.1	4602.5	-4591.6	317.1	4602.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
53	14300.00	89.18	176.05	100	9862.6	4702.5	-4691.3	324.0	4702.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
54	14400.00	89.18	176.05	100	9864.0	4802.5	-4791.1	330.9	4802.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
55	14500.00	89.18	176.05	100	9865.4	4902.5	-4890.8	337.8	4902.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10
56	14600.00	89.18	176.05	100	9866.9	5002.5	-4990.6	344.7	5002.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07 1E-10

57	14700.00	89.18	176.05	100	9868.3	5102.5	-5090.3	351.6	5102.5	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
58	14800.00	89.18	176.05	100	9869.7	5202.4	-5190.1	358.5	5202.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
59	14900.00	89.18	176.05	100	9871.2	5302.4	-5289.8	365.4	5302.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
60	15000.00	89.18	176.05	100	9872.6	5402.4	-5389.6	372.2	5402.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
61	15100.00	89.18	176.05	100	9874.0	5502.4	-5489.3	379.1	5502.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
62	15200.00	89.18	176.05	100	9875.5	5602.4	-5589.1	386.0	5602.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
63	15300.00	89.18	176.05	100	9876.9	5702.4	-5688.8	392.9	5702.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
64	15400.00	89.18	176.05	100	9878.3	5802.4	-5788.6	399.8	5802.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
65	15500.00	89.18	176.05	100	9879.8	5902.4	-5888.3	406.7	5902.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
66	15600.00	89.18	176.05	100	9881.2	6002.4	-5988.1	413.6	6002.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
67	15700.00	89.18	176.05	100	9882.6	6102.4	-6087.8	420.5	6102.4	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
68	15800.00	89.18	176.05	100	9884.1	6202.3	-6187.6	427.4	6202.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
69	15900.00	89.18	176.05	100	9885.5	6302.3	-6287.4	434.3	6302.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
70	16000.00	89.18	176.05	100	9886.9	6402.3	-6387.1	441.1	6402.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
71	16100.00	89.18	176.05	100	9888.4	6502.3	-6486.9	448.0	6502.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
72	16200.00	89.18	176.05	100	9889.8	6602.3	-6586.6	454.9	6602.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
73	16300.00	89.18	176.05	100	9891.2	6702.3	-6686.4	461.8	6702.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
74	16400.00	89.18	176.05	100	9892.7	6802.3	-6786.1	468.7	6802.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
75	16500.00	89.18	176.05	100	9894.1	6902.3	-6885.9	475.6	6902.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
76	16600.00	89.18	176.05	100	9895.5	7002.3	-6985.6	482.5	7002.3	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
77	16700.00	89.18	176.05	100	9897.0	7102.2	-7085.4	489.4	7102.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
78	16800.00	89.18	176.05	100	9898.4	7202.2	-7185.1	496.3	7202.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
79	16900.00	89.18	176.05	100	9899.8	7302.2	-7284.9	503.2	7302.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
80	17000.00	89.18	176.05	100	9901.3	7402.2	-7384.6	510.0	7402.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
81	17100.00	89.18	176.05	100	9902.7	7502.2	-7484.4	516.9	7502.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
82	17200.00	89.18	176.05	100	9904.1	7602.2	-7584.1	523.8	7602.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
83	17300.00	89.18	176.05	100	9905.6	7702.2	-7683.9	530.7	7702.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
84	17400.00	89.18	176.05	100	9907.0	7802.2	-7783.6	537.6	7802.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
85	17500.00	89.18	176.05	100	9908.4	7902.2	-7883.4	544.5	7902.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
86	17600.00	89.18	176.05	100	9909.9	8002.2	-7983.1	551.4	8002.2	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
87	17700.00	89.18	176.05	100	9911.3	8102.1	-8082.9	558.3	8102.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
88	17800.00	89.18	176.05	100	9912.7	8202.1	-8182.6	565.2	8202.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
89	17900.00	89.18	176.05	100	9914.2	8302.1	-8282.4	572.0	8302.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
90	18000.00	89.18	176.05	100	9915.6	8402.1	-8382.1	578.9	8402.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
91	18100.00	89.18	176.05	100	9917.0	8502.1	-8481.9	585.8	8502.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
92	18200.00	89.18	176.05	100	9918.4	8602.1	-8581.7	592.7	8602.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
93	18300.00	89.18	176.05	100	9919.9	8702.1	-8681.4	599.6	8702.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
94	18400.00	89.18	176.05	100	9921.3	8802.1	-8781.2	606.5	8802.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
95	18500.00	89.18	176.05	100	9922.7	8902.1	-8880.9	613.4	8902.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
96	18600.00	89.18	176.05	100	9924.2	9002.1	-8980.7	620.3	9002.1	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
97	18700.00	89.18	176.05	100	9925.6	9102.0	-9080.4	627.2	9102.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
98	18800.00	89.18	176.05	100	9927.0	9202.0	-9180.2	634.1	9202.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
99	18900.00	89.18	176.05	100	9928.5	9302.0	-9279.9	640.9	9302.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
100	19000.00	89.18	176.05	100	9929.9	9402.0	-9379.7	647.8	9402.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
101	19100.00	89.18	176.05	100	9931.3	9502.0	-9479.4	654.7	9502.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
102	19200.00	89.18	176.05	100	9932.8	9602.0	-9579.2	661.6	9602.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
103	19300.00	89.18	176.05	100	9934.2	9702.0	-9678.9	668.5	9702.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
104	19400.00	89.18	176.05	100	9935.6	9802.0	-9778.7	675.4	9802.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
105	19500.00	89.18	176.05	100	9937.1	9902.0	-9878.4	682.3	9902.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
106	19600.00	89.18	176.05	100	9938.5	10002.0	-9978.2	689.2	10002.0	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
107	19700.00	89.18	176.05	100	9939.9	10101.9	-10077.9	696.1	10101.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
108	19800.00	89.18	176.05	100	9941.4	10201.9	-10177.7	703.0	10201.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10
109	19846.43	89.18	176.05	100	9942.0	10248.4	-10224.1	703.0	10201.9	176.0	0.0	0.0	9795.2	6.8	1.55647	3.07	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B1B0 Fed Com LH
KOP 8510.54

Target KBTVD: 8,988 Feet 8988.00
Target Angle: 89.02 Degrees 89.02
Section Plane: 183.98 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below		DRIFT RADIANS	AZIMUTH (RADIANS)
														Target	Target		
T/1	8510.54	0.00	183.00	N/A	8510.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8510.5	477.5	1E-12	3.21	#VALUE!
1	8584.72	8.90	183.00	74.185	8584.4	5.8	-5.7	-0.4	5.8	184.0	12.0	12.0	8584.3	403.7	0.15537	3.21	0.155373
2	8658.91	17.80	183.00	74.185	8656.5	22.9	-22.8	-1.6	22.9	184.0	12.0	12.0	8656.1	331.9	0.31075	3.21	0.155373
3	8733.00	26.71	183.00	74.185	8725.1	50.9	-50.8	-3.5	50.9	184.0	12.0	12.0	8724.2	263.8	0.46612	3.21	0.155373
4	8807.28	35.61	183.00	74.185	8788.5	89.3	-89.1	-6.2	89.3	184.0	12.0	12.0	8787.0	201.0	0.62149	3.21	0.155373
5	8881.48	44.51	183.00	74.185	8845.3	137.0	-136.6	-9.5	137.0	184.0	12.0	12.0	8842.9	145.1	0.77687	3.21	0.155373
6	8955.65	53.41	183.00	74.185	8893.9	192.9	-192.4	-13.4	192.9	184.0	12.0	12.0	8890.6	97.4	0.93224	3.21	0.155373
7	9029.83	62.32	183.00	74.185	8933.3	255.6	-255.0	-17.7	255.6	184.0	12.0	12.0	8929.0	59.0	1.08761	3.21	0.155373
8	9104.02	71.22	183.00	74.185	8962.6	323.7	-323.0	-22.5	323.7	184.0	12.0	12.0	8957.1	30.9	1.24299	3.21	0.155373
9	9178.20	80.12	183.00	74.185	8980.9	395.5	-394.6	-27.5	395.5	184.0	12.0	12.0	8974.2	13.8	1.39836	3.21	0.155373
10	9252.39	89.02	183.00	74.185	8987.9	469.3	-468.2	-32.6	469.3	184.0	12.0	12.0	8979.9	8.1	1.55373	3.21	0.155373
11	9300.00	89.02	183.00	47.612	8988.7	516.9	-515.7	-35.9	516.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
12	9400.00	89.02	183.00	100	8990.4	616.9	-615.4	-42.8	616.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
13	9500.00	89.02	183.00	100	8992.2	716.9	-715.2	-49.8	716.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
14	9600.00	89.02	183.00	100	8993.9	816.9	-814.9	-56.7	816.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
15	9700.00	89.02	183.00	100	8995.6	916.9	-914.7	-63.6	916.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
16	9800.00	89.02	183.00	100	8997.3	1016.9	-1014.4	-70.6	1016.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
17	9900.00	89.02	183.00	100	8999.0	1116.8	-1114.1	-77.5	1116.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
18	10000.00	89.02	183.00	100	9000.7	1216.8	-1213.9	-84.5	1216.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
19	10100.00	89.02	183.00	100	9002.4	1316.8	-1313.6	-91.4	1316.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
20	10200.00	89.02	183.00	100	9004.1	1416.8	-1413.4	-98.3	1416.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
21	10300.00	89.02	183.00	100	9005.8	1516.8	-1513.1	-105.3	1516.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
22	10400.00	89.02	183.00	100	9007.5	1616.8	-1612.9	-112.2	1616.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
23	10500.00	89.02	183.00	100	9009.2	1716.7	-1712.6	-119.2	1716.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
24	10600.00	89.02	183.00	100	9010.9	1816.7	-1812.4	-126.1	1816.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
25	10700.00	89.02	183.00	100	9012.6	1916.7	-1912.1	-133.0	1916.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
26	10800.00	89.02	183.00	100	9014.3	2016.7	-2011.8	-140.0	2016.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
27	10900.00	89.02	183.00	100	9016.0	2116.7	-2111.6	-146.9	2116.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
28	11000.00	89.02	183.00	100	9017.8	2216.7	-2211.3	-153.9	2216.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
29	11100.00	89.02	183.00	100	9019.5	2316.7	-2311.1	-160.8	2316.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
30	11200.00	89.02	183.00	100	9021.2	2416.6	-2410.8	-167.7	2416.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
31	11300.00	89.02	183.00	100	9022.9	2516.6	-2510.6	-174.7	2516.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
32	11400.00	89.02	183.00	100	9024.6	2616.6	-2610.3	-181.6	2616.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
33	11500.00	89.02	183.00	100	9026.3	2716.6	-2710.1	-188.6	2716.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
34	11600.00	89.02	183.00	100	9028.0	2816.6	-2809.8	-195.5	2816.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
35	11700.00	89.02	183.00	100	9029.7	2916.6	-2909.5	-202.4	2916.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
36	11800.00	89.02	183.00	100	9031.4	3016.6	-3009.3	-209.4	3016.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
37	11900.00	89.02	183.00	100	9033.1	3116.5	-3109.0	-216.3	3116.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
38	12000.00	89.02	183.00	100	9034.8	3216.5	-3208.8	-223.3	3216.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
39	12100.00	89.02	183.00	100	9036.5	3316.5	-3308.5	-230.2	3316.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
40	12200.00	89.02	183.00	100	9038.2	3416.5	-3408.3	-237.1	3416.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
41	12300.00	89.02	183.00	100	9039.9	3516.5	-3508.0	-244.1	3516.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
42	12400.00	89.02	183.00	100	9041.6	3616.5	-3607.7	-251.0	3616.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
43	12500.00	89.02	183.00	100	9043.3	3716.5	-3707.5	-258.0	3716.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
44	12600.00	89.02	183.00	100	9045.1	3816.4	-3807.2	-264.9	3816.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
45	12700.00	89.02	183.00	100	9046.8	3916.4	-3907.0	-271.8	3916.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
46	12800.00	89.02	183.00	100	9048.5	4016.4	-4006.7	-278.8	4016.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
47	12900.00	89.02	183.00	100	9050.2	4116.4	-4106.5	-285.7	4116.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
48	13000.00	89.02	183.00	100	9051.9	4216.4	-4206.2	-292.7	4216.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
49	13100.00	89.02	183.00	100	9053.6	4316.4	-4306.0	-299.6	4316.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
50	13200.00	89.02	183.00	100	9055.3	4416.4	-4405.7	-306.5	4416.4	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
51	13300.00	89.02	183.00	100	9057.0	4516.3	-4505.4	-313.5	4516.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
52	13400.00	89.02	183.00	100	9058.7	4616.3	-4605.2	-320.4	4616.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
53	13500.00	89.02	183.00	100	9060.4	4716.3	-4704.9	-327.4	4716.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
54	13600.00	89.02	183.00	100	9062.1	4816.3	-4804.7	-334.3	4816.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
55	13700.00	89.02	183.00	100	9063.8	4916.3	-4904.4	-341.2	4916.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
56	13800.00	89.02	183.00	100	9065.5	5016.3	-5004.2	-348.2	5016.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10

ATTACHMENT C-3

57	13000.00	89.02	183.98	100	9067.2	5116.3	-5103.9	-355.1	5116.3	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
58	14000.00	89.02	183.98	100	9068.9	5216.2	-5203.7	-362.1	5216.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
59	14100.00	89.02	183.98	100	9070.6	5316.2	-5303.4	-369.0	5316.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
60	14200.00	89.02	183.98	100	9072.4	5416.2	-5403.1	-375.9	5416.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
61	14300.00	89.02	183.98	100	9074.1	5516.2	-5502.9	-382.9	5516.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
62	14400.00	89.02	183.98	100	9075.8	5616.2	-5602.6	-389.8	5616.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
63	14500.00	89.02	183.98	100	9077.5	5716.2	-5702.4	-396.8	5716.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
64	14600.00	89.02	183.98	100	9079.2	5816.2	-5802.1	-403.7	5816.2	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
65	14700.00	89.02	183.98	100	9080.9	5916.1	-5901.9	-410.6	5916.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
66	14800.00	89.02	183.98	100	9082.6	6016.1	-6001.6	-417.6	6016.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
67	14900.00	89.02	183.98	100	9084.3	6116.1	-6101.4	-424.5	6116.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
68	15000.00	89.02	183.98	100	9086.0	6216.1	-6201.1	-431.5	6216.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
69	15100.00	89.02	183.98	100	9087.7	6316.1	-6300.8	-438.4	6316.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
70	15200.00	89.02	183.98	100	9089.4	6416.1	-6400.6	-445.3	6416.1	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
71	15300.00	89.02	183.98	100	9091.1	6516.0	-6500.3	-452.3	6516.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
72	15400.00	89.02	183.98	100	9092.8	6616.0	-6600.1	-459.2	6616.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
73	15500.00	89.02	183.98	100	9094.5	6716.0	-6699.8	-466.2	6716.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
74	15600.00	89.02	183.98	100	9096.2	6816.0	-6799.6	-473.1	6816.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
75	15700.00	89.02	183.98	100	9097.9	6916.0	-6899.3	-480.0	6916.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
76	15800.00	89.02	183.98	100	9099.7	7016.0	-6999.1	-487.0	7016.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
77	15900.00	89.02	183.98	100	9101.4	7116.0	-7098.8	-493.9	7116.0	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
78	16000.00	89.02	183.98	100	9103.1	7215.9	-7198.5	-500.9	7215.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
79	16100.00	89.02	183.98	100	9104.8	7315.9	-7298.3	-507.8	7315.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
80	16200.00	89.02	183.98	100	9106.5	7415.9	-7398.0	-514.7	7415.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
81	16300.00	89.02	183.98	100	9108.2	7515.9	-7497.7	-521.7	7515.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
82	16400.00	89.02	183.98	100	9109.9	7615.9	-7597.5	-528.6	7615.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
83	16500.00	89.02	183.98	100	9111.6	7715.9	-7697.3	-535.6	7715.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
84	16600.00	89.02	183.98	100	9113.3	7815.9	-7797.0	-542.5	7815.9	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
85	16700.00	89.02	183.98	100	9115.0	7915.8	-7896.8	-549.4	7915.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
86	16800.00	89.02	183.98	100	9116.7	8015.8	-7996.5	-556.4	8015.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
87	16900.00	89.02	183.98	100	9118.4	8115.8	-8096.2	-563.3	8115.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
88	17000.00	89.02	183.98	100	9120.1	8215.8	-8196.0	-570.3	8215.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
89	17100.00	89.02	183.98	100	9121.8	8315.8	-8295.7	-577.2	8315.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
90	17200.00	89.02	183.98	100	9123.5	8415.8	-8395.5	-584.1	8415.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
91	17300.00	89.02	183.98	100	9125.2	8515.8	-8495.2	-591.1	8515.8	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
92	17400.00	89.02	183.98	100	9127.0	8615.7	-8595.0	-598.0	8615.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
93	17500.00	89.02	183.98	100	9128.7	8715.7	-8694.7	-605.0	8715.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
94	17600.00	89.02	183.98	100	9130.4	8815.7	-8794.5	-611.9	8815.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
95	17700.00	89.02	183.98	100	9132.1	8915.7	-8894.2	-618.8	8915.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
96	17800.00	89.02	183.98	100	9133.8	9015.7	-8993.9	-625.8	9015.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
97	17900.00	89.02	183.98	100	9135.5	9115.7	-9093.7	-632.7	9115.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
98	18000.00	89.02	183.98	100	9137.2	9215.7	-9193.4	-639.7	9215.7	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
99	18100.00	89.02	183.98	100	9138.9	9315.6	-9293.2	-646.6	9315.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
100	18200.00	89.02	183.98	100	9140.6	9415.6	-9392.9	-653.5	9415.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
101	18300.00	89.02	183.98	100	9142.3	9515.6	-9492.7	-660.5	9515.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
102	18400.00	89.02	183.98	100	9144.0	9615.6	-9592.4	-667.4	9615.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
103	18500.00	89.02	183.98	100	9145.7	9715.6	-9692.2	-674.4	9715.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
104	18600.00	89.02	183.98	100	9147.4	9815.6	-9791.9	-681.3	9815.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
105	18700.00	89.02	183.98	100	9149.1	9915.6	-9891.6	-688.2	9915.6	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
106	18800.00	89.02	183.98	100	9150.8	10015.5	-9991.4	-695.2	10015.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
107	18900.00	89.02	183.98	100	9152.5	10115.5	-10091.1	-702.1	10115.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
108	19000.00	89.02	183.98	100	9154.3	10215.5	-10190.9	-709.1	10215.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10
109	19046.32	89.02	183.98	100	9155.0	10261.8	-10237.2	-709.1	10215.5	184.0	0.0	0.0	8979.9	8.1	1.55373	3.21	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B2B0 Fed Com 1H
KOP 9350.54

Target KBTVD: 9,828 Feet 9828.00
Target Angle: 89.24 Degrees 89.24
Section Plane: 183.87 Degrees
Declination Corrected to True North: -6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg)	Azimuth (Deg)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below			AZIMUTH (RADIAN)
														Target	RADIANS	(RADIAN)	
T/I	9350.54	0.00	183.87	N/A	9350.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9350.5	477.5	1E-12	3.21	#VALUE!
1	9424.90	8.92	183.87	74.366	9424.6	5.8	-5.8	-0.4	5.8	183.9	12.0	12.0	9424.5	403.5	0.15575	3.21	0.155751
2	9499.27	17.85	183.87	74.366	9496.9	23.0	-22.9	-1.6	23.0	183.9	12.0	12.0	9496.6	331.4	0.3115	3.21	0.155751
3	9573.63	26.77	183.87	74.366	9565.6	51.2	-51.1	-3.5	51.2	183.9	12.0	12.0	9564.9	263.1	0.46725	3.21	0.155751
4	9648.00	35.70	183.87	74.366	9629.1	89.7	-89.5	-6.1	89.7	183.9	12.0	12.0	9627.9	200.1	0.623	3.21	0.155751
5	9722.36	44.62	183.87	74.366	9685.9	137.6	-137.3	-9.3	137.6	183.9	12.0	12.0	9684.1	143.9	0.77876	3.21	0.155751
6	9798.73	53.54	183.87	74.366	9734.6	193.7	-193.3	-13.1	193.7	183.9	12.0	12.0	9732.0	96.0	0.93451	3.21	0.155751
7	9871.10	62.47	183.87	74.366	9773.9	256.8	-256.2	-17.3	256.8	183.9	12.0	12.0	9770.5	57.5	1.09026	3.21	0.155751
8	9945.46	71.39	183.87	74.366	9803.0	325.1	-324.4	-21.9	325.1	183.9	12.0	12.0	9798.7	29.3	1.24601	3.21	0.155751
9	10019.83	80.31	183.87	74.366	9821.2	397.1	-396.2	-26.8	397.1	183.9	12.0	12.0	9815.9	12.1	1.40176	3.21	0.155751
10	10094.19	89.24	183.87	74.366	9828.0	471.1	-470.0	-31.8	471.1	183.9	12.0	12.0	9821.7	6.3	1.55751	3.21	0.155751
11	10100.00	89.24	183.87	5.8078	9828.0	476.9	-475.8	-32.2	476.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
12	10200.00	89.24	183.87	100	9829.4	576.9	-575.6	-38.9	576.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
13	10300.00	89.24	183.87	100	9830.7	676.9	-675.4	-45.7	676.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
14	10400.00	89.24	183.87	100	9832.0	776.9	-775.1	-52.4	776.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
15	10500.00	89.24	183.87	100	9833.3	876.9	-874.9	-59.2	876.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
16	10600.00	89.24	183.87	100	9834.7	976.9	-974.7	-65.9	976.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
17	10700.00	89.24	183.87	100	9836.0	1076.9	-1074.4	-72.7	1076.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
18	10800.00	89.24	183.87	100	9837.3	1176.9	-1174.2	-79.4	1176.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
19	10900.00	89.24	183.87	100	9838.7	1276.9	-1273.9	-86.2	1276.9	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
20	11000.00	89.24	183.87	100	9840.0	1376.8	-1373.7	-92.9	1376.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
21	11100.00	89.24	183.87	100	9841.3	1476.8	-1473.5	-99.7	1476.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
22	11200.00	89.24	183.87	100	9842.6	1576.8	-1573.2	-106.4	1576.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
23	11300.00	89.24	183.87	100	9844.0	1676.8	-1673.0	-113.2	1676.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
24	11400.00	89.24	183.87	100	9845.3	1776.8	-1772.8	-119.9	1776.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
25	11500.00	89.24	183.87	100	9846.6	1876.8	-1872.5	-126.7	1876.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
26	11600.00	89.24	183.87	100	9848.0	1976.8	-1972.3	-133.4	1976.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
27	11700.00	89.24	183.87	100	9849.3	2076.8	-2072.1	-140.2	2076.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
28	11800.00	89.24	183.87	100	9850.6	2176.8	-2171.8	-146.9	2176.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
29	11900.00	89.24	183.87	100	9851.9	2276.8	-2271.6	-153.7	2276.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
30	12000.00	89.24	183.87	100	9853.3	2376.8	-2371.3	-160.4	2376.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
31	12100.00	89.24	183.87	100	9854.6	2476.8	-2471.1	-167.2	2476.8	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
32	12200.00	89.24	183.87	100	9855.9	2576.7	-2570.9	-173.9	2576.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
33	12300.00	89.24	183.87	100	9857.3	2676.7	-2670.6	-180.7	2676.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
34	12400.00	89.24	183.87	100	9858.6	2776.7	-2770.4	-187.4	2776.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
35	12500.00	89.24	183.87	100	9859.9	2876.7	-2870.2	-194.2	2876.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
36	12600.00	89.24	183.87	100	9861.2	2976.7	-2969.9	-200.9	2976.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
37	12700.00	89.24	183.87	100	9862.6	3076.7	-3069.7	-207.7	3076.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
38	12800.00	89.24	183.87	100	9863.9	3176.7	-3169.4	-214.4	3176.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
39	12900.00	89.24	183.87	100	9865.2	3276.7	-3269.2	-221.2	3276.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
40	13000.00	89.24	183.87	100	9866.6	3376.7	-3369.0	-227.9	3376.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
41	13100.00	89.24	183.87	100	9867.9	3476.7	-3468.7	-234.7	3476.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
42	13200.00	89.24	183.87	100	9869.2	3576.7	-3568.5	-241.4	3576.7	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
43	13300.00	89.24	183.87	100	9870.5	3676.6	-3668.3	-248.2	3676.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
44	13400.00	89.24	183.87	100	9871.9	3776.6	-3768.0	-254.9	3776.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
45	13500.00	89.24	183.87	100	9873.2	3876.6	-3867.8	-261.7	3876.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
46	13600.00	89.24	183.87	100	9874.5	3976.6	-3967.6	-268.4	3976.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
47	13700.00	89.24	183.87	100	9875.9	4076.6	-4067.3	-275.1	4076.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
48	13800.00	89.24	183.87	100	9877.2	4176.6	-4167.1	-281.9	4176.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
49	13900.00	89.24	183.87	100	9878.5	4276.6	-4266.8	-288.6	4276.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
50	14000.00	89.24	183.87	100	9879.8	4376.6	-4366.6	-295.4	4376.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
51	14100.00	89.24	183.87	100	9881.2	4476.6	-4466.4	-302.1	4476.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
52	14200.00	89.24	183.87	100	9882.5	4576.6	-4566.1	-308.9	4576.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
53	14300.00	89.24	183.87	100	9883.8	4676.6	-4665.9	-315.6	4676.6	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
54	14400.00	89.24	183.87	100	9885.2	4776.5	-4765.7	-322.4	4776.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
55	14500.00	89.24	183.87	100	9886.5	4876.5	-4865.4	-329.1	4876.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
56	14600.00	89.24	183.87	100	9887.8	4976.5	-4965.2	-335.9	4976.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10

57	14700.00	89 24	183 87	100	9889.1	5076.5	-5064.9	-342.6	5076.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
58	14800.00	89 24	183 87	100	9890.5	5176.5	-5164.7	-349.4	5176.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
59	14900.00	89 24	183 87	100	9891.8	5276.5	-5264.5	-356.1	5276.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
60	15000.00	89 24	183 87	100	9893.1	5376.5	-5364.2	-362.9	5376.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
61	15100.00	89 24	183 87	100	9894.5	5476.5	-5464.0	-369.6	5476.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
62	15200.00	89 24	183 87	100	9895.8	5576.5	-5563.8	-376.4	5576.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
63	15300.00	89 24	183 87	100	9897.1	5676.5	-5663.5	-383.1	5676.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
64	15400.00	89 24	183 87	100	9898.4	5776.5	-5763.3	-389.9	5776.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
65	15500.00	89 24	183 87	100	9899.8	5876.5	-5863.1	-396.6	5876.5	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
66	15600.00	89 24	183 87	100	9901.1	5976.4	-5962.8	-403.4	5976.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
67	15700.00	89 24	183 87	100	9902.4	6076.4	-6062.6	-410.1	6076.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
68	15800.00	89 24	183 87	100	9903.8	6176.4	-6162.3	-416.9	6176.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
69	15900.00	89 24	183 87	100	9905.1	6276.4	-6262.1	-423.6	6276.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
70	16000.00	89 24	183 87	100	9906.4	6376.4	-6361.9	-430.4	6376.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
71	16100.00	89 24	183 87	100	9907.7	6476.4	-6461.6	-437.1	6476.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
72	16200.00	89 24	183 87	100	9909.1	6576.4	-6561.4	-443.9	6576.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
73	16300.00	89 24	183 87	100	9910.4	6676.4	-6661.2	-450.6	6676.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
74	16400.00	89 24	183 87	100	9911.7	6776.4	-6760.9	-457.4	6776.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
75	16500.00	89 24	183 87	100	9913.1	6876.4	-6860.7	-464.1	6876.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
76	16600.00	89 24	183 87	100	9914.4	6976.4	-6960.4	-470.9	6976.4	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
77	16700.00	89 24	183 87	100	9915.7	7076.3	-7060.2	-477.6	7076.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
78	16800.00	89 24	183 87	100	9917.0	7176.3	-7160.0	-484.4	7176.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
79	16900.00	89 24	183 87	100	9918.4	7276.3	-7259.7	-491.1	7276.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
80	17000.00	89 24	183 87	100	9919.7	7376.3	-7359.5	-497.9	7376.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
81	17100.00	89 24	183 87	100	9921.0	7476.3	-7459.3	-504.6	7476.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
82	17200.00	89 24	183 87	100	9922.4	7576.3	-7559.0	-511.4	7576.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
83	17300.00	89 24	183 87	100	9923.7	7676.3	-7658.8	-518.1	7676.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
84	17400.00	89 24	183 87	100	9925.0	7776.3	-7758.6	-524.9	7776.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
85	17500.00	89 24	183 87	100	9926.3	7876.3	-7858.3	-531.6	7876.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
86	17600.00	89 24	183 87	100	9927.7	7976.3	-7958.1	-538.4	7976.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
87	17700.00	89 24	183 87	100	9929.0	8076.3	-8057.8	-545.1	8076.3	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
88	17800.00	89 24	183 87	100	9930.3	8176.2	-8157.6	-551.9	8176.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
89	17900.00	89 24	183 87	100	9931.7	8276.2	-8257.4	-558.6	8276.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
90	18000.00	89 24	183 87	100	9933.0	8376.2	-8357.1	-565.4	8376.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
91	18100.00	89 24	183 87	100	9934.3	8476.2	-8456.9	-572.1	8476.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
92	18200.00	89 24	183 87	100	9935.6	8576.2	-8556.7	-578.8	8576.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
93	18300.00	89 24	183 87	100	9937.0	8676.2	-8656.4	-585.6	8676.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
94	18400.00	89 24	183 87	100	9938.3	8776.2	-8756.2	-592.3	8776.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
95	18500.00	89 24	183 87	100	9939.6	8876.2	-8855.9	-599.1	8876.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
96	18600.00	89 24	183 87	100	9941.0	8976.2	-8955.7	-605.8	8976.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
97	18700.00	89 24	183 87	100	9942.3	9076.2	-9055.5	-612.6	9076.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
98	18800.00	89 24	183 87	100	9943.6	9176.2	-9155.2	-619.3	9176.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
99	18900.00	89 24	183 87	100	9944.9	9276.2	-9255.0	-626.1	9276.2	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
100	19000.00	89 24	183 87	100	9946.3	9376.1	-9354.8	-632.8	9376.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
101	19100.00	89 24	183 87	100	9947.6	9476.1	-9454.5	-639.6	9476.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
102	19200.00	89 24	183 87	100	9948.9	9576.1	-9554.3	-646.3	9576.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
103	19300.00	89 24	183 87	100	9950.3	9676.1	-9654.1	-653.1	9676.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
104	19400.00	89 24	183 87	100	9951.6	9776.1	-9753.8	-659.8	9776.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
105	19500.00	89 24	183 87	100	9952.9	9876.1	-9853.6	-666.6	9876.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
106	19600.00	89 24	183 87	100	9954.2	9976.1	-9953.3	-673.3	9976.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
107	19700.00	89 24	183 87	100	9955.6	10076.1	-10053.1	-680.1	10076.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
108	19800.00	89 24	183 87	100	9956.9	10176.1	-10152.9	-686.8	10176.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10
109	19865.67	89 24	183 87	100	9958.0	10261.7	-10238.5	-686.8	10176.1	183.9	0.0	0.0	9821.7	6.3	1.55751	3.21	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
 Lease Name: Spanish Bay 18/19 B1AP Fed Com 1H
 KOP 8540.54

Target KBTVD: 9,018 Feet 9018.00
 Target Angle: 89.15 Degrees 89.15
 Section Plane: 176.39 Degrees
 Declination Corrected to True North: 6.63 Degrees
 Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg)	Azimuth (Deg)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above		DRIFT RADIANS	AZIMUTH (RADIANS)
														-Below Target			
T/I	8540.54	0.00	176.39	N/A	8540.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8540.5	477.5	1E-12	3.08	#VALUE!
1	8614.82	8.91	176.39	74.289	8614.5	5.8	-5.8	0.4	5.8	176.4	12.0	12.0	8614.4	403.6	0.15559	3.08	0.15559
2	8689.11	17.83	176.39	74.289	8686.7	22.9	-22.9	1.4	22.9	176.4	12.0	12.0	8686.4	331.6	0.31118	3.08	0.15559
3	8763.40	26.74	176.39	74.289	8755.4	51.1	-51.0	3.2	51.1	176.4	12.0	12.0	8754.6	263.4	0.46677	3.08	0.15559
4	8837.69	35.66	176.39	74.289	8818.9	89.5	-89.3	5.6	89.5	176.4	12.0	12.0	8817.5	200.5	0.62236	3.08	0.15559
5	8911.98	44.57	176.39	74.289	8875.6	137.3	-137.1	8.7	137.3	176.4	12.0	12.0	8873.6	144.4	0.77795	3.08	0.15559
6	8986.27	53.49	176.39	74.289	8924.3	193.4	-193.0	12.2	193.4	176.4	12.0	12.0	8921.4	96.6	0.93354	3.08	0.15559
7	9060.56	62.40	176.39	74.289	8963.7	256.3	-255.8	16.1	256.3	176.4	12.0	12.0	8959.9	58.1	1.08913	3.08	0.15559
8	9134.84	71.32	176.39	74.289	8992.8	324.5	-323.9	20.4	324.5	176.4	12.0	12.0	8988.0	30.0	1.24472	3.08	0.15559
9	9209.13	80.23	176.39	74.289	9011.1	396.5	-395.7	25.0	396.5	176.4	12.0	12.0	9005.2	12.8	1.40031	3.08	0.15559
10	9283.42	89.15	176.39	74.289	9017.9	470.4	-469.4	29.6	470.4	176.4	12.0	12.0	9010.9	7.1	1.5559	3.08	0.15559
11	9300.00	89.15	176.39	16.579	9018.2	486.9	-486.0	30.7	486.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
12	9400.00	89.15	176.39	100	9019.7	586.9	-585.8	37.0	586.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
13	9500.00	89.15	176.39	100	9021.2	686.9	-685.5	43.3	686.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
14	9600.00	89.15	176.39	100	9022.7	786.9	-785.3	49.6	786.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
15	9700.00	89.15	176.39	100	9024.2	886.9	-885.1	55.9	886.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
16	9800.00	89.15	176.39	100	9025.6	986.9	-984.9	62.2	986.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
17	9900.00	89.15	176.39	100	9027.1	1086.9	-1084.7	68.5	1086.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
18	10000.00	89.15	176.39	100	9028.6	1186.9	-1184.5	74.8	1186.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
19	10100.00	89.15	176.39	100	9030.1	1286.8	-1284.3	81.1	1286.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
20	10200.00	89.15	176.39	100	9031.6	1386.8	-1384.1	87.4	1386.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
21	10300.00	89.15	176.39	100	9033.1	1486.8	-1483.9	93.7	1486.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
22	10400.00	89.15	176.39	100	9034.6	1586.8	-1583.7	100.0	1586.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
23	10500.00	89.15	176.39	100	9036.1	1686.8	-1683.4	106.3	1686.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
24	10600.00	89.15	176.39	100	9037.6	1786.8	-1783.2	112.6	1786.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
25	10700.00	89.15	176.39	100	9039.1	1886.8	-1883.0	118.9	1886.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
26	10800.00	89.15	176.39	100	9040.5	1986.8	-1982.8	125.2	1986.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
27	10900.00	89.15	176.39	100	9042.0	2086.8	-2082.6	131.5	2086.8	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
28	11000.00	89.15	176.39	100	9043.5	2186.7	-2182.4	137.8	2186.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
29	11100.00	89.15	176.39	100	9045.0	2286.7	-2282.2	144.1	2286.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
30	11200.00	89.15	176.39	100	9046.5	2386.7	-2382.0	150.4	2386.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
31	11300.00	89.15	176.39	100	9048.0	2486.7	-2481.8	156.7	2486.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
32	11400.00	89.15	176.39	100	9049.5	2586.7	-2581.6	163.0	2586.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
33	11500.00	89.15	176.39	100	9051.0	2686.7	-2681.3	169.3	2686.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
34	11600.00	89.15	176.39	100	9052.5	2786.7	-2781.1	175.6	2786.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
35	11700.00	89.15	176.39	100	9054.0	2886.7	-2880.9	181.9	2886.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
36	11800.00	89.15	176.39	100	9055.4	2986.7	-2980.7	188.2	2986.7	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
37	11900.00	89.15	176.39	100	9056.9	3086.6	-3080.5	194.5	3086.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
38	12000.00	89.15	176.39	100	9058.4	3186.6	-3180.3	200.8	3186.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
39	12100.00	89.15	176.39	100	9059.9	3286.6	-3280.1	207.1	3286.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
40	12200.00	89.15	176.39	100	9061.4	3386.6	-3379.9	213.4	3386.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
41	12300.00	89.15	176.39	100	9062.9	3486.6	-3479.7	219.7	3486.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
42	12400.00	89.15	176.39	100	9064.4	3586.6	-3579.5	226.0	3586.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
43	12500.00	89.15	176.39	100	9065.9	3686.6	-3679.2	232.3	3686.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
44	12600.00	89.15	176.39	100	9067.4	3786.6	-3779.0	238.6	3786.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
45	12700.00	89.15	176.39	100	9068.9	3886.6	-3878.8	244.9	3886.6	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
46	12800.00	89.15	176.39	100	9070.3	3986.5	-3978.6	251.2	3986.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
47	12900.00	89.15	176.39	100	9071.8	4086.5	-4078.4	257.5	4086.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
48	13000.00	89.15	176.39	100	9073.3	4186.5	-4178.2	263.8	4186.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
49	13100.00	89.15	176.39	100	9074.8	4286.5	-4278.0	270.1	4286.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
50	13200.00	89.15	176.39	100	9076.3	4386.5	-4377.8	276.4	4386.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
51	13300.00	89.15	176.39	100	9077.8	4486.5	-4477.6	282.7	4486.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
52	13400.00	89.15	176.39	100	9079.3	4586.5	-4577.4	289.0	4586.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
53	13500.00	89.15	176.39	100	9080.8	4686.5	-4677.2	295.3	4686.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
54	13600.00	89.15	176.39	100	9082.3	4786.5	-4776.9	301.6	4786.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
55	13700.00	89.15	176.39	100	9083.8	4886.4	-4876.7	307.9	4886.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
56	13800.00	89.15	176.39	100	9085.2	4986.4	-4976.5	314.2	4986.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10

ATTACHMENT

C-4

57	13900.00	89 15	176 39	100	9086.7	5086.4	-5076.3	320.5	5086.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
58	14000.00	89 15	176 39	100	9088.2	5186.4	-5176.1	326.8	5186.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
59	14100.00	89 15	176 39	100	9089.7	5286.4	-5275.9	333.1	5286.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
60	14200.00	89 15	176 39	100	9091.2	5386.4	-5375.7	339.4	5386.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
61	14300.00	89 15	176 39	100	9092.7	5486.4	-5475.5	345.7	5486.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
62	14400.00	89 15	176 39	100	9094.2	5586.4	-5575.3	352.0	5586.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
63	14500.00	89 15	176 39	100	9095.7	5686.4	-5675.1	358.3	5686.4	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
64	14600.00	89 15	176 39	100	9097.2	5786.3	-5774.8	364.6	5786.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
65	14700.00	89 15	176 39	100	9098.6	5886.3	-5874.6	370.9	5886.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
66	14800.00	89 15	176 39	100	9100.1	5986.3	-5974.4	377.2	5986.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
67	14900.00	89 15	176 39	100	9101.6	6086.3	-6074.2	383.5	6086.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
68	15000.00	89 15	176 39	100	9103.1	6186.3	-6174.0	389.8	6186.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
69	15100.00	89 15	176 39	100	9104.6	6286.3	-6273.8	396.1	6286.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
70	15200.00	89 15	176 39	100	9106.1	6386.3	-6373.6	402.4	6386.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
71	15300.00	89 15	176 39	100	9107.6	6486.3	-6473.4	408.7	6486.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
72	15400.00	89 15	176 39	100	9109.1	6586.3	-6573.2	415.0	6586.3	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
73	15500.00	89 15	176 39	100	9110.6	6686.2	-6673.0	421.3	6686.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
74	15600.00	89 15	176 39	100	9112.1	6786.2	-6772.7	427.6	6786.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
75	15700.00	89 15	176 39	100	9113.5	6886.2	-6872.5	433.9	6886.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
76	15800.00	89 15	176 39	100	9115.0	6986.2	-6972.3	440.2	6986.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
77	15900.00	89 15	176 39	100	9116.5	7086.2	-7072.1	446.5	7086.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
78	16000.00	89 15	176 39	100	9118.0	7186.2	-7171.9	452.8	7186.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
79	16100.00	89 15	176 39	100	9119.5	7286.2	-7271.7	459.1	7286.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
80	16200.00	89 15	176 39	100	9121.0	7386.2	-7371.5	465.4	7386.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
81	16300.00	89 15	176 39	100	9122.5	7486.2	-7471.3	471.7	7486.2	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
82	16400.00	89 15	176 39	100	9124.0	7586.1	-7571.1	478.0	7586.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
83	16500.00	89 15	176 39	100	9125.5	7686.1	-7670.9	484.3	7686.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
84	16600.00	89 15	176 39	100	9127.0	7786.1	-7770.6	490.6	7786.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
85	16700.00	89 15	176 39	100	9128.4	7886.1	-7870.4	496.9	7886.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
86	16800.00	89 15	176 39	100	9129.9	7986.1	-7970.2	503.2	7986.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
87	16900.00	89 15	176 39	100	9131.4	8086.1	-8070.0	509.5	8086.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
88	17000.00	89 15	176 39	100	9132.9	8186.1	-8169.8	515.8	8186.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
89	17100.00	89 15	176 39	100	9134.4	8286.1	-8269.6	522.1	8286.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
90	17200.00	89 15	176 39	100	9135.9	8386.1	-8369.4	528.4	8386.1	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
91	17300.00	89 15	176 39	100	9137.4	8486.0	-8469.2	534.7	8486.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
92	17400.00	89 15	176 39	100	9138.9	8586.0	-8569.0	541.0	8586.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
93	17500.00	89 15	176 39	100	9140.4	8686.0	-8668.8	547.3	8686.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
94	17600.00	89 15	176 39	100	9141.9	8786.0	-8768.6	553.6	8786.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
95	17700.00	89 15	176 39	100	9143.3	8886.0	-8868.3	559.9	8886.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
96	17800.00	89 15	176 39	100	9144.8	8986.0	-8968.1	566.2	8986.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
97	17900.00	89 15	176 39	100	9146.3	9086.0	-9067.9	572.5	9086.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
98	18000.00	89 15	176 39	100	9147.8	9186.0	-9167.7	578.8	9186.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
99	18100.00	89 15	176 39	100	9149.3	9286.0	-9267.5	585.1	9286.0	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
100	18200.00	89 15	176 39	100	9150.8	9385.9	-9367.3	591.4	9385.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
101	18300.00	89 15	176 39	100	9152.3	9485.9	-9467.1	597.7	9485.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
102	18400.00	89 15	176 39	100	9153.8	9585.9	-9566.9	604.0	9585.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
103	18500.00	89 15	176 39	100	9155.3	9685.9	-9666.7	610.3	9685.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
104	18600.00	89 15	176 39	100	9156.8	9785.9	-9766.5	616.6	9785.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
105	18700.00	89 15	176 39	100	9158.2	9885.9	-9866.2	622.9	9885.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
106	18800.00	89 15	176 39	100	9159.7	9985.9	-9966.0	629.2	9985.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
107	18900.00	89 15	176 39	100	9161.2	10085.9	-10065.8	635.5	10085.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
108	19000.00	89 15	176 39	100	9162.7	10185.9	-10165.6	641.8	10185.9	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10
109	19088.89	89 15	176 39	100	9164.0	10274.5	-10254.3	641.8	10274.5	176.4	0.0	0.0	9010.9	7.1	1.5559	3.08	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Spanish Bay 18/19 B2AP Fed Com 1H
KOP 9370.54

Target KBTVD: 9,848 Feet 9848.00
Target Angle: 89.24 Degrees 89.24
Section Plane: 176.22 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg)	Azimuth (Deg)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below		DRIFT RADIANS	AZIMUTH (RADIAN)
														Target	Target		
T/1	9370.54	0.00	176.22	N/A	9370.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9370.5	477.5	1E-12	3.08	#VALUE!
1	9444.90	8.92	176.22	74.367	9444.6	5.8	-5.8	0.4	5.8	176.2	12.0	12.0	9444.5	403.5	0.15575	3.08	0.155753
2	9519.27	17.85	176.22	74.367	9516.9	23.0	-22.9	1.5	23.0	176.2	12.0	12.0	9516.6	331.4	0.31151	3.08	0.155753
3	9593.64	26.77	176.22	74.367	9585.6	51.2	-51.1	3.4	51.2	176.2	12.0	12.0	9584.9	263.1	0.46726	3.08	0.155753
4	9668.00	35.70	176.22	74.367	9649.1	89.7	-89.5	5.9	89.7	176.2	12.0	12.0	9647.9	200.1	0.62301	3.08	0.155753
5	9742.37	44.62	176.22	74.367	9705.9	137.6	-137.3	9.1	137.6	176.2	12.0	12.0	9704.1	143.9	0.77877	3.08	0.155753
6	9816.74	53.54	176.22	74.367	9754.6	193.8	-193.3	12.8	193.8	176.2	12.0	12.0	9752.0	96.0	0.93452	3.08	0.155753
7	9891.10	62.47	176.22	74.367	9793.9	256.8	-256.2	16.9	256.8	176.2	12.0	12.0	9790.5	57.5	1.09027	3.08	0.155753
8	9965.47	71.39	176.22	74.367	9823.0	325.1	-324.4	21.4	325.1	176.2	12.0	12.0	9818.7	29.3	1.24603	3.08	0.155753
9	10039.84	80.32	176.22	74.367	9841.2	397.1	-396.3	26.2	397.1	176.2	12.0	12.0	9835.9	12.1	1.40178	3.08	0.155753
10	10114.20	89.24	176.22	74.367	9848.0	471.1	-470.1	31.1	471.1	176.2	12.0	12.0	9841.7	6.3	1.55753	3.08	0.155753
11	10200.00	89.24	176.22	85.798	9849.1	556.9	-555.7	36.7	556.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
12	10300.00	89.24	176.22	100	9850.4	656.9	-655.5	43.3	656.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
13	10400.00	89.24	176.22	100	9851.7	756.9	-755.3	49.9	756.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
14	10500.00	89.24	176.22	100	9853.1	856.9	-855.0	56.5	856.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
15	10600.00	89.24	176.22	100	9854.4	956.9	-954.8	63.1	956.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
16	10700.00	89.24	176.22	100	9855.7	1056.9	-1054.6	69.7	1056.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
17	10800.00	89.24	176.22	100	9857.1	1156.9	-1154.4	76.3	1156.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
18	10900.00	89.24	176.22	100	9858.4	1256.9	-1254.1	82.9	1256.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
19	11000.00	89.24	176.22	100	9859.7	1356.9	-1353.9	89.5	1356.9	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
20	11100.00	89.24	176.22	100	9861.0	1456.8	-1453.7	96.0	1456.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
21	11200.00	89.24	176.22	100	9862.4	1556.8	-1553.4	102.6	1556.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
22	11300.00	89.24	176.22	100	9863.7	1656.8	-1653.2	109.2	1656.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
23	11400.00	89.24	176.22	100	9865.0	1756.8	-1753.0	115.8	1756.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
24	11500.00	89.24	176.22	100	9866.3	1856.8	-1852.8	122.4	1856.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
25	11600.00	89.24	176.22	100	9867.7	1956.8	-1952.5	129.0	1956.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
26	11700.00	89.24	176.22	100	9869.0	2056.8	-2052.3	135.6	2056.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
27	11800.00	89.24	176.22	100	9870.3	2156.8	-2152.1	142.2	2156.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
28	11900.00	89.24	176.22	100	9871.6	2256.8	-2251.9	148.8	2256.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
29	12000.00	89.24	176.22	100	9873.0	2356.8	-2351.6	155.4	2356.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
30	12100.00	89.24	176.22	100	9874.3	2456.8	-2451.4	162.0	2456.8	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
31	12200.00	89.24	176.22	100	9875.6	2556.7	-2551.2	168.6	2556.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
32	12300.00	89.24	176.22	100	9877.0	2656.7	-2651.0	175.2	2656.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
33	12400.00	89.24	176.22	100	9878.3	2756.7	-2750.7	181.7	2756.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
34	12500.00	89.24	176.22	100	9879.6	2856.7	-2850.5	188.3	2856.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
35	12600.00	89.24	176.22	100	9880.9	2956.7	-2950.3	194.9	2956.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
36	12700.00	89.24	176.22	100	9882.3	3056.7	-3050.1	201.5	3056.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
37	12800.00	89.24	176.22	100	9883.6	3156.7	-3149.8	208.1	3156.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
38	12900.00	89.24	176.22	100	9884.9	3256.7	-3249.6	214.7	3256.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
39	13000.00	89.24	176.22	100	9886.2	3356.7	-3349.4	221.3	3356.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
40	13100.00	89.24	176.22	100	9887.6	3456.7	-3449.1	227.9	3456.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
41	13200.00	89.24	176.22	100	9888.9	3556.7	-3548.9	234.5	3556.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
42	13300.00	89.24	176.22	100	9890.2	3656.6	-3648.7	241.1	3656.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
43	13400.00	89.24	176.22	100	9891.5	3756.6	-3748.5	247.7	3756.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
44	13500.00	89.24	176.22	100	9892.9	3856.6	-3848.2	254.3	3856.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
45	13600.00	89.24	176.22	100	9894.2	3956.6	-3948.0	260.9	3956.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
46	13700.00	89.24	176.22	100	9895.5	4056.6	-4047.8	267.4	4056.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
47	13800.00	89.24	176.22	100	9896.8	4156.6	-4147.6	274.0	4156.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
48	13900.00	89.24	176.22	100	9898.2	4256.6	-4247.3	280.6	4256.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
49	14000.00	89.24	176.22	100	9899.5	4356.6	-4347.1	287.2	4356.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
50	14100.00	89.24	176.22	100	9900.8	4456.6	-4446.9	293.8	4456.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
51	14200.00	89.24	176.22	100	9902.2	4556.6	-4546.7	300.4	4556.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
52	14300.00	89.24	176.22	100	9903.5	4656.6	-4646.4	307.0	4656.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
53	14400.00	89.24	176.22	100	9904.8	4756.6	-4746.2	313.6	4756.6	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
54	14500.00	89.24	176.22	100	9906.1	4856.5	-4846.0	320.2	4856.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
55	14600.00	89.24	176.22	100	9907.5	4956.5	-4945.8	326.8	4956.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
56	14700.00	89.24	176.22	100	9908.8	5056.5	-5045.5	333.4	5056.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10

57	14800.00	89.24	176.22	100	9910.1	5156.5	-5145.3	340.0	5156.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
58	14900.00	89.24	176.22	100	9911.4	5256.5	-5245.1	346.6	5256.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
59	15000.00	89.24	176.22	100	9912.8	5356.5	-5344.8	353.1	5356.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
60	15100.00	89.24	176.22	100	9914.1	5456.5	-5444.6	359.7	5456.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
61	15200.00	89.24	176.22	100	9915.4	5556.5	-5544.4	366.3	5556.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
62	15300.00	89.24	176.22	100	9916.7	5656.5	-5644.2	372.9	5656.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
63	15400.00	89.24	176.22	100	9918.1	5756.5	-5743.9	379.5	5756.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
64	15500.00	89.24	176.22	100	9919.4	5856.5	-5843.7	386.1	5856.5	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
65	15600.00	89.24	176.22	100	9920.7	5956.4	-5943.5	392.7	5956.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
66	15700.00	89.24	176.22	100	9922.0	6056.4	-6043.3	399.3	6056.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
67	15800.00	89.24	176.22	100	9923.4	6156.4	-6143.0	405.9	6156.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
68	15900.00	89.24	176.22	100	9924.7	6256.4	-6242.8	412.5	6256.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
69	16000.00	89.24	176.22	100	9926.0	6356.4	-6342.6	419.1	6356.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
70	16100.00	89.24	176.22	100	9927.4	6456.4	-6442.4	425.7	6456.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
71	16200.00	89.24	176.22	100	9928.7	6556.4	-6542.1	432.3	6556.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
72	16300.00	89.24	176.22	100	9930.0	6656.4	-6641.9	438.8	6656.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
73	16400.00	89.24	176.22	100	9931.3	6756.4	-6741.7	445.4	6756.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
74	16500.00	89.24	176.22	100	9932.7	6856.4	-6841.5	452.0	6856.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
75	16600.00	89.24	176.22	100	9934.0	6956.4	-6941.2	458.6	6956.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
76	16700.00	89.24	176.22	100	9935.3	7056.4	-7041.0	465.2	7056.4	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
77	16800.00	89.24	176.22	100	9936.6	7156.3	-7140.8	471.8	7156.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
78	16900.00	89.24	176.22	100	9938.0	7256.3	-7240.5	478.4	7256.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
79	17000.00	89.24	176.22	100	9939.3	7356.3	-7340.3	485.0	7356.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
80	17100.00	89.24	176.22	100	9940.6	7456.3	-7440.1	491.6	7456.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
81	17200.00	89.24	176.22	100	9941.9	7556.3	-7539.9	498.2	7556.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
82	17300.00	89.24	176.22	100	9943.3	7656.3	-7639.6	504.8	7656.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
83	17400.00	89.24	176.22	100	9944.6	7756.3	-7739.4	511.4	7756.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
84	17500.00	89.24	176.22	100	9945.9	7856.3	-7839.2	518.0	7856.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
85	17600.00	89.24	176.22	100	9947.2	7956.3	-7939.0	524.5	7956.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
86	17700.00	89.24	176.22	100	9948.6	8056.3	-8038.7	531.1	8056.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
87	17800.00	89.24	176.22	100	9949.9	8156.3	-8138.5	537.7	8156.3	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
88	17900.00	89.24	176.22	100	9951.2	8256.2	-8238.3	544.3	8256.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
89	18000.00	89.24	176.22	100	9952.6	8356.2	-8338.1	550.9	8356.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
90	18100.00	89.24	176.22	100	9953.9	8456.2	-8437.8	557.5	8456.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
91	18200.00	89.24	176.22	100	9955.2	8556.2	-8537.6	564.1	8556.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
92	18300.00	89.24	176.22	100	9956.5	8656.2	-8637.4	570.7	8656.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
93	18400.00	89.24	176.22	100	9957.9	8756.2	-8737.2	577.3	8756.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
94	18500.00	89.24	176.22	100	9959.2	8856.2	-8836.9	583.9	8856.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
95	18600.00	89.24	176.22	100	9960.5	8956.2	-8936.7	590.5	8956.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
96	18700.00	89.24	176.22	100	9961.8	9056.2	-9036.5	597.1	9056.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
97	18800.00	89.24	176.22	100	9963.2	9156.2	-9136.2	603.7	9156.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
98	18900.00	89.24	176.22	100	9964.5	9256.2	-9236.0	610.2	9256.2	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
99	19000.00	89.24	176.22	100	9965.8	9356.1	-9335.8	616.8	9356.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
100	19100.00	89.24	176.22	100	9967.1	9456.1	-9435.6	623.4	9456.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
101	19200.00	89.24	176.22	100	9968.5	9556.1	-9535.3	630.0	9556.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
102	19300.00	89.24	176.22	100	9969.8	9656.1	-9635.1	636.6	9656.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
103	19400.00	89.24	176.22	100	9971.1	9756.1	-9734.9	643.2	9756.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
104	19500.00	89.24	176.22	100	9972.5	9856.1	-9834.7	649.8	9856.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
105	19600.00	89.24	176.22	100	9973.8	9956.1	-9934.4	656.4	9956.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
106	19700.00	89.24	176.22	100	9975.1	10056.1	-10034.2	663.0	10056.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
107	19800.00	89.24	176.22	100	9976.4	10156.1	-10134.0	669.6	10156.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
108	19900.00	89.24	176.22	100	9977.8	10256.1	-10233.8	676.2	10256.1	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10
109	19920.63	89.24	176.22	20.631	9978.0	10276.7	-10254.3	677.5	10276.7	176.2	0.0	0.0	9841.7	6.3	1.55753	3.08	1E-10

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

APPLICATIONS OF MEWBOURNE OIL
COMPANY FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.

Case Nos. 22161 - 22164

SELF-AFFIRMED STATEMENT OF NOTICE

James Bruce deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the interest owners, at their last known addresses, by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules.
6. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 5 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 4/4/23

James Bruce
James Bruce

EXHIBIT

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

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(505) 982-2151 (Fax)

jamesbruc@aol.com

August 19, 2021

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed are copies of four applications for compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, seeking to pool the following well units as to the Bone Spring formation:

- a. The W/2W/2 of Section 18 and the W/2W/2 of Section 19 (Case 22161);
- b. The E/2W/2 of Section 18 and the E/2W/2 of Section 19 (Case 22162);
- c. The W/2E/2 of Section 18 and the W/2E/2 of Section 19 (Case 22163); and
- d. The E/2E/2 of Section 18 and the E/2E/2 of Section 19 (Case 22164).

All lands are located in Township 19 South, Range 33 East, NMPM, Lea County, New Mexico.

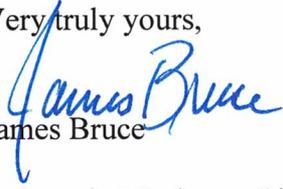
These matters are scheduled for hearing at 8:15 a.m. on Thursday, September 9, 2021. During the COVID-19 Public Health Emergency, state buildings are closed to the public and the hearing will be conducted remotely. To determine the location of the hearing or to participate in an electronic hearing, go to emnrd.state.nm.us/OCD/hearings or see the instructions posted on the Division's website, <http://emnrd.state.nm.us/OCD/announcements.html>. You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, September 2, 2021. This statement may be filed online with the Division at ocd.hearings@state.nm.us, and should include: The name of the party and his or her attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate time the party will need to present his or her case; and

ATTACHMENT **A**

identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,



James Bruce

Attorney for Mewbourne Oil Company

Exhibit A

McCombs Exploration, LLC
755 East Mulberry Ave. Suite 600
San Antonio, TX 78212

COG Operating, LLC
One Concho Center
600 West Illinois Avenue
Midland, Texas 79701

Chisholm Energy Operating, LLC
801 Cherry Street, Suite 1200, Unit 20
Fort Worth, Texas 76102

Occidental Permian Limited Partnership
5 Greenway Plaza, Suite 110
Houston, Texas 77046