

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Oxbow 26/25 W2DA Fed Com 2H
KOP 10104.04
SL: 490 FNL & 365 FWL Sec 26-25S-28E
BHL: 440 FNL & 330 FWL Sec 25-25S-28E

Target KBTVD: 10,677 Feet 10677.00
Target Angle: 88.76 Degrees 88.76
Section Plane: 89.51 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 Target	DRIFT (RADIANS)	AZIMUTH (RADIANS)
T/I	10104.04	0.00	89.51	N/A	10104.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10104.0	573.0	1E-12	1.56 #VALUE!
1	10192.80	8.88	89.51	88.761	10192.4	6.9	0.1	6.9	6.9	89.5	10.0	10.0	10192.3	484.7	0.1549164	1.56 0.1549164
2	10281.56	17.75	89.51	88.761	10278.7	27.3	0.2	27.3	27.3	89.5	10.0	10.0	10278.1	398.9	0.3098329	1.56 0.1549164
3	10370.32	26.63	89.51	88.761	10360.8	60.8	0.5	60.8	60.8	89.5	10.0	10.0	10359.5	317.5	0.4647493	1.56 0.1549164
4	10459.08	35.50	89.51	88.761	10436.8	106.5	0.9	106.5	106.5	89.5	10.0	10.0	10434.5	242.5	0.6196657	1.56 0.1549164
5	10547.85	44.38	89.51	88.761	10504.8	163.5	1.4	163.5	163.5	89.5	10.0	10.0	10501.2	175.8	0.7745822	1.56 0.1549164
6	10636.61	53.26	89.51	88.761	10563.2	230.2	2.0	230.2	230.2	89.5	10.0	10.0	10558.2	118.8	0.9294986	1.56 0.1549164
7	10725.37	62.13	89.51	88.761	10610.6	305.1	2.6	305.1	305.1	89.5	10.0	10.0	10604.0	73.0	1.084415	1.56 0.1549164
8	10814.13	71.01	89.51	88.761	10645.8	386.5	3.3	386.5	386.5	89.5	10.0	10.0	10637.4	39.6	1.2393315	1.56 0.1549164
9	10902.89	79.88	89.51	88.761	10668.1	472.3	4.1	472.3	472.3	89.5	10.0	10.0	10657.9	19.1	1.3942479	1.56 0.1549164
10	10991.65	88.76	89.51	88.761	10676.9	560.6	4.8	560.5	560.6	89.5	10.0	10.0	10664.7	12.3	1.5491644	1.56 0.1549164
11	11000.00	88.76	89.51	8.352	10677.0	568.9	4.9	568.9	568.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
12	11100.00	88.76	89.51	100	10679.2	668.9	5.8	668.9	668.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
13	11200.00	88.76	89.51	100	10681.4	768.9	6.6	768.8	768.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
14	11300.00	88.76	89.51	100	10683.5	868.8	7.5	868.8	868.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
15	11400.00	88.76	89.51	100	10685.7	968.8	8.4	968.8	968.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
16	11500.00	88.76	89.51	100	10687.9	1068.8	9.2	1068.8	1068.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
17	11600.00	88.76	89.51	100	10690.0	1168.8	10.1	1168.7	1168.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
18	11700.00	88.76	89.51	100	10692.2	1268.8	10.9	1268.7	1268.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
19	11800.00	88.76	89.51	100	10694.4	1368.7	11.8	1368.7	1368.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
20	11900.00	88.76	89.51	100	10696.5	1468.7	12.7	1468.6	1468.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
21	12000.00	88.76	89.51	100	10698.7	1568.7	13.5	1568.6	1568.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
22	12100.00	88.76	89.51	100	10700.8	1668.7	14.4	1668.6	1668.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
23	12200.00	88.76	89.51	100	10703.0	1768.6	15.3	1768.6	1768.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
24	12300.00	88.76	89.51	100	10705.2	1868.6	16.1	1868.5	1868.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
25	12400.00	88.76	89.51	100	10707.3	1968.6	17.0	1968.5	1968.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
26	12500.00	88.76	89.51	100	10709.5	2068.6	17.8	2068.5	2068.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
27	12600.00	88.76	89.51	100	10711.7	2168.5	18.7	2168.5	2168.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
28	12700.00	88.76	89.51	100	10713.8	2268.5	19.6	2268.4	2268.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
29	12800.00	88.76	89.51	100	10716.0	2368.5	20.4	2368.4	2368.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
30	12900.00	88.76	89.51	100	10718.1	2468.5	21.3	2468.4	2468.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
31	13000.00	88.76	89.51	100	10720.3	2568.4	22.2	2568.4	2568.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
32	13100.00	88.76	89.51	100	10722.5	2668.4	23.0	2668.3	2668.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
33	13200.00	88.76	89.51	100	10724.6	2768.4	23.9	2768.3	2768.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
34	13300.00	88.76	89.51	100	10726.8	2868.4	24.7	2868.3	2868.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
35	13400.00	88.76	89.51	100	10729.0	2968.4	25.6	2968.2	2968.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
36	13500.00	88.76	89.51	100	10731.1	3068.3	26.5	3068.2	3068.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
37	13600.00	88.76	89.51	100	10733.3	3168.3	27.3	3168.2	3168.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
38	13700.00	88.76	89.51	100	10735.4	3268.3	28.2	3268.2	3268.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
39	13800.00	88.76	89.51	100	10737.6	3368.3	29.0	3368.1	3368.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
40	13900.00	88.76	89.51	100	10739.8	3468.2	29.9	3468.1	3468.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
41	14000.00	88.76	89.51	100	10741.9	3568.2	30.8	3568.1	3568.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
42	14100.00	88.76	89.51	100	10744.1	3668.2	31.6	3668.1	3668.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
43	14200.00	88.76	89.51	100	10746.3	3768.2	32.5	3768.0	3768.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
44	14300.00	88.76	89.51	100	10748.4	3868.1	33.4	3868.0	3868.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
45	14400.00	88.76	89.51	100	10750.6	3968.1	34.2	3968.0	3968.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
46	14500.00	88.76	89.51	100	10752.8	4068.1	35.1	4067.9	4068.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
47	14600.00	88.76	89.51	100	10754.9	4168.1	35.9	4167.9	4168.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
48	14700.00	88.76	89.51	100	10757.1	4268.0	36.8	4267.9	4268.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
49	14800.00	88.76	89.51	100	10759.2	4368.0	37.7	4367.9	4368.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
50	14900.00	88.76	89.51	100	10761.4	4468.0	38.5	4467.8	4468.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
51	15000.00	88.76	89.51	100	10763.6	4568.0	39.4	4567.8	4568.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10
52	15100.00	88.76	89.51	100	10765.7	4668.0	40.3	4667.8	4668.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56 1E-10

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53	15200.00	88.78	89.51	100	10767.9	4767.9	41.1	4767.8	4767.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
54	15300.00	88.78	89.51	100	10770.1	4867.9	42.0	4867.7	4867.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
55	15400.00	88.78	89.51	100	10772.2	4967.9	42.8	4967.7	4967.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
56	15500.00	88.78	89.51	100	10774.4	5067.9	43.7	5067.7	5067.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
57	15600.00	88.78	89.51	100	10776.5	5167.8	44.6	5167.6	5167.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
58	15700.00	88.78	89.51	100	10778.7	5267.8	45.4	5267.6	5267.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
59	15800.00	88.78	89.51	100	10780.9	5367.8	46.3	5367.6	5367.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
60	15900.00	88.78	89.51	100	10783.0	5467.8	47.2	5467.6	5467.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
61	16000.00	88.78	89.51	100	10785.2	5567.7	48.0	5567.5	5567.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
62	16100.00	88.78	89.51	100	10787.4	5667.7	48.9	5667.5	5667.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
63	16200.00	88.78	89.51	100	10789.5	5767.7	49.7	5767.5	5767.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
64	16300.00	88.78	89.51	100	10791.7	5867.7	50.6	5867.5	5867.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
65	16400.00	88.78	89.51	100	10793.9	5967.7	51.5	5967.4	5967.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
66	16500.00	88.78	89.51	100	10796.0	6067.6	52.3	6067.4	6067.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
67	16600.00	88.78	89.51	100	10798.2	6167.6	53.2	6167.4	6167.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
68	16700.00	88.78	89.51	100	10800.3	6267.6	54.1	6267.3	6267.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
69	16800.00	88.78	89.51	100	10802.5	6367.6	54.9	6367.3	6367.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
70	16900.00	88.78	89.51	100	10804.7	6467.5	55.8	6467.3	6467.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
71	17000.00	88.78	89.51	100	10806.8	6567.5	56.6	6567.3	6567.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
72	17100.00	88.78	89.51	100	10809.0	6667.5	57.5	6667.2	6667.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
73	17200.00	88.78	89.51	100	10811.2	6767.5	58.4	6767.2	6767.5	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
74	17300.00	88.78	89.51	100	10813.3	6867.4	59.2	6867.2	6867.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
75	17400.00	88.78	89.51	100	10815.5	6967.4	60.1	6967.2	6967.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
76	17500.00	88.78	89.51	100	10817.6	7067.4	61.0	7067.1	7067.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
77	17600.00	88.78	89.51	100	10819.8	7167.4	61.8	7167.1	7167.4	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
78	17700.00	88.78	89.51	100	10822.0	7267.3	62.7	7267.1	7267.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
79	17800.00	88.78	89.51	100	10824.1	7367.3	63.5	7367.0	7367.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
80	17900.00	88.78	89.51	100	10826.3	7467.3	64.4	7467.0	7467.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
81	18000.00	88.78	89.51	100	10828.5	7567.3	65.3	7567.0	7567.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
82	18100.00	88.78	89.51	100	10830.6	7667.3	66.1	7667.0	7667.3	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
83	18200.00	88.78	89.51	100	10832.8	7767.2	67.0	7766.9	7767.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
84	18300.00	88.78	89.51	100	10834.9	7867.2	67.8	7866.9	7867.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
85	18400.00	88.78	89.51	100	10837.1	7967.2	68.7	7966.9	7967.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
86	18500.00	88.78	89.51	100	10839.3	8067.2	69.6	8066.9	8067.2	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
87	18600.00	88.78	89.51	100	10841.4	8167.1	70.4	8166.8	8167.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
88	18700.00	88.78	89.51	100	10843.6	8267.1	71.3	8266.8	8267.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
89	18800.00	88.78	89.51	100	10845.8	8367.1	72.2	8366.8	8367.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
90	18900.00	88.78	89.51	100	10847.9	8467.1	73.0	8466.8	8467.1	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
91	19000.00	88.78	89.51	100	10850.1	8567.0	73.9	8566.7	8567.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
92	19100.00	88.78	89.51	100	10852.3	8667.0	74.7	8666.7	8667.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
93	19200.00	88.78	89.51	100	10854.4	8767.0	75.6	8766.7	8767.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
94	19300.00	88.78	89.51	100	10856.6	8867.0	76.5	8866.6	8867.0	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
95	19400.00	88.78	89.51	100	10858.7	8966.9	77.3	8966.6	8966.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
96	19500.00	88.78	89.51	100	10860.9	9066.9	78.2	9066.6	9066.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
97	19600.00	88.78	89.51	100	10863.1	9166.9	79.1	9166.6	9166.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
98	19700.00	88.78	89.51	100	10865.2	9266.9	79.9	9266.5	9266.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
99	19800.00	88.78	89.51	100	10867.4	9366.9	80.8	9366.5	9366.9	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
100	19900.00	88.78	89.51	100	10869.6	9466.8	81.6	9466.5	9466.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
101	20000.00	88.78	89.51	100	10871.7	9566.8	82.5	9566.5	9566.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
102	20100.00	88.78	89.51	100	10873.9	9666.8	83.4	9666.4	9666.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
103	20200.00	88.78	89.51	100	10876.0	9766.8	84.2	9766.4	9766.8	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
104	20300.00	88.78	89.51	100	10878.2	9866.7	85.1	9866.4	9866.7	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
105	20386.83	88.78	89.51	86,834	10880.1	9953.6	85.8	9953.2	9953.6	89.5	0.0	0.0	10664.7	12.3	1.5491644	1.56	1E-10
106	20386.83	88.78	89.51	0	10880.1	9953.6	85.8	9953.2	9953.6	89.5	#####	#####	10664.7	12.3	1.5491644	1.56	1E-10