

A
N

30015230670000
AMOCO PROD CO
STATE GEO/COM 1
Datum=3011.00
1980 FSL/660 FWL
TWP: 25 S - Range: 28 E - Sec. 15

12228 ft

30015243640000
POGO PRODUCING CO
SAM FEDERAL 2
Datum=2955.00
1980 FSL/1980 FWL
TWP: 25 S - Range: 28 E - Sec. 26

7550 ft

30015358900000
MARBOB ENERGY CORP
GRAHAM CRACKER STAT 1
Datum=2937.00
1980 FSL/1980 FWL
TWP: 16 S - Range: 29 E - Sec. 35

A'
S

15L

26G

34G

0 WFMP

WFMP
SDs

WFMP A

WFMP B

-500

WFMP C

WFMP D

-1000

0

-500

-1000

5S 28E

TD=13460.00

TD=14250.00
Cum Oil All Zones: 63 bbls
Cum Gas All Zones: 148352 MCF
Cum Water All Zones: 3278 bbls

Oxbow 23/24 W2DA Federal Com 2H
Cross Section Exhibit (A-A')

EXHIBIT

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Oxbow Area Wolfcamp Production Table

Well Name	Operator	API	Location	WFMP Comp Date	Cum Oil (Mbo)	Cum Gas (BCF)	Cum Water (Mbw)	NS/EW	WFMP Zone
San Lorenzo 15 DM Fee Com 1H	Mewbourne	3001540402	15DM/25S/28E	12/6/2012	123.6	0.8	349.1	NS	WFMP D Shale
San Lorenzo 15 OB Fee 1H	Mewbourne	3001540403	15OB/25S/28E	1/4/2014	165.6	0.9	432.5	NS	WFMP D Shale
San Lorenzo 22-27 LE Fee 2H	Mewbourne	3001541153	22LE/25S/28E	8/21/2013	87	0.8	233.6	NS	WFMP D Shale
San Lorenzo 9 OB Fee 1H	Mewbourne	3001541304	9OB/25S/28E	4/24/2014	181.5	1.3	506.3	NS	WFMP D Shale
Riverbend 14 Federal Com 2H	Cimarex	3001541589	14CN/25S/28E	7/22/2015	165.2	1.3	617.7	NS	WFMP D Shale
Hoss 2-11 W2BO Federal Com 1H	Mewbourne	3001544153	2BO/25S/28E	11/7/2017	55	0.4	244.5	NS	WFMP D Shale
Graham Cracker State 2H	COG	3001542282	2PA/26S/28E	Pending				NS	WFMP D Shale

EXHIBIT
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Mewbourne Oil Company

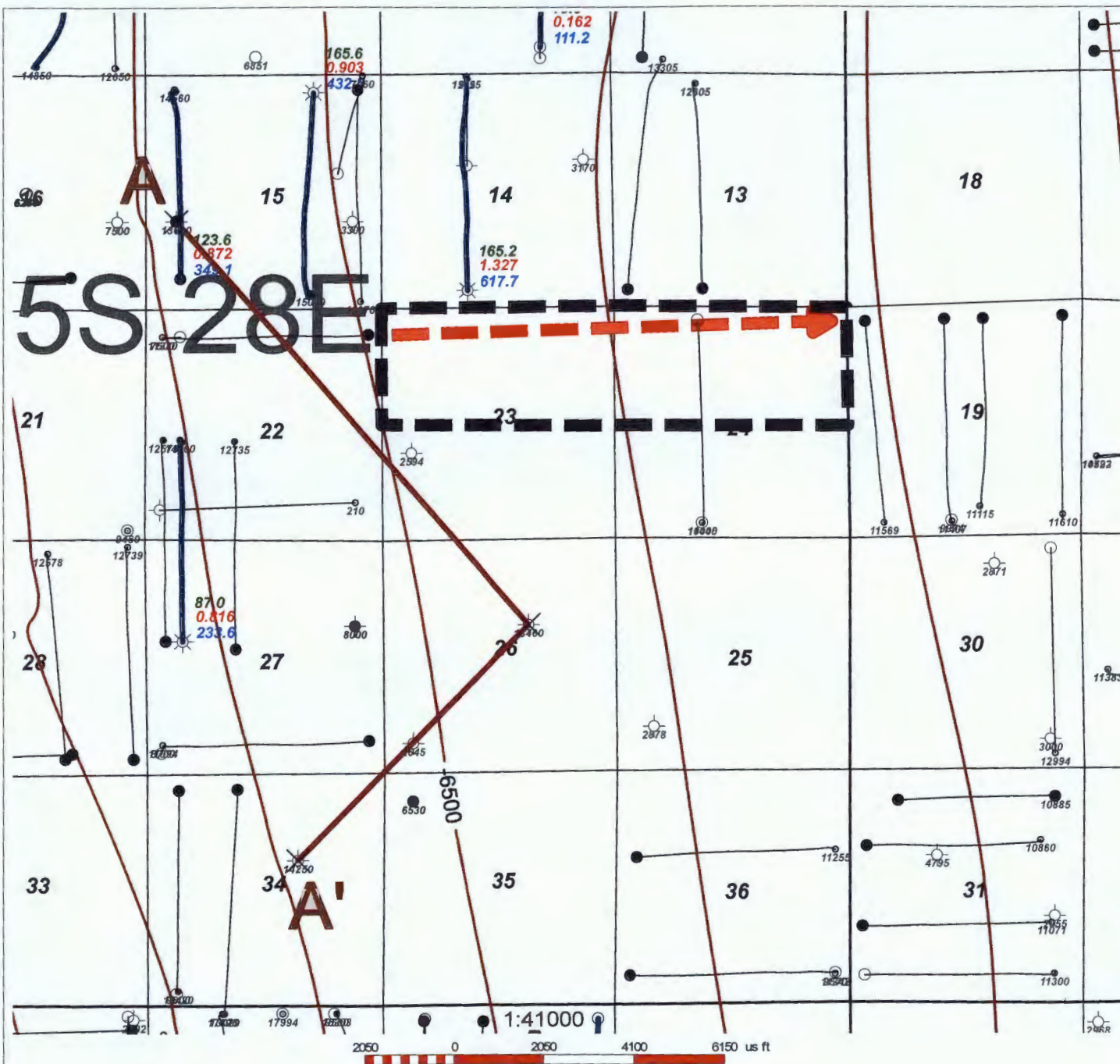
SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
 Lease Name: Oxbow 23/24 W2DA Fed 2H
 KOP 10155.04
 SL: 660 FNL & 205 FWL Sec 23-25S-28E
 BHL: 330 FNL & 330 FEL Sec 24-25S-28E

Target KBTVD: 10,728 Feet 10728.00
 Target Angle: 88.81 Degrees 88.81
 Section Plane: 88.46 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	10155.04	0.00	88.46	N/A	10155.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10155.0	573.0	1E-12	1.54 #VALUE!
1	10243.85	8.88	88.46	88.812	10243.5	6.9	0.2	6.9	6.9	88.5	10.0	10.0	10243.4	484.6	0.15500618	1.54 0.1550062
2	10332.67	17.76	88.46	88.812	10329.8	27.3	0.7	27.3	27.3	88.5	10.0	10.0	10329.3	398.7	0.31001236	1.54 0.1550062
3	10421.48	26.64	88.46	88.812	10412.0	60.8	1.6	60.8	60.8	88.5	10.0	10.0	10410.7	317.3	0.46501853	1.54 0.1550062
4	10510.29	35.52	88.46	88.812	10488.0	106.6	2.9	106.6	106.6	88.5	10.0	10.0	10485.8	242.2	0.62002471	1.54 0.1550062
5	10599.10	44.41	88.46	88.812	10556.0	163.6	4.4	163.6	163.6	88.5	10.0	10.0	10552.6	175.4	0.77503089	1.54 0.1550062
6	10687.91	53.29	88.46	88.812	10614.3	230.4	6.2	230.4	230.4	88.5	10.0	10.0	10609.6	118.4	0.93003707	1.54 0.1550062
7	10776.73	62.17	88.46	88.812	10661.7	305.5	8.2	305.3	305.5	88.5	10.0	10.0	10655.4	72.6	1.08504324	1.54 0.1550062
8	10865.54	71.05	88.46	88.812	10696.9	386.9	10.4	386.7	386.9	88.5	10.0	10.0	10688.9	39.1	1.24004942	1.54 0.1550062
9	10954.35	79.93	88.46	88.812	10719.2	472.8	12.7	472.6	472.8	88.5	10.0	10.0	10709.4	18.6	1.3950556	1.54 0.1550062
10	11043.16	88.81	88.46	88.812	10727.9	561.1	15.1	560.9	561.1	88.5	10.0	10.0	10716.2	11.8	1.55006178	1.54 0.1550062
11	11100.00	88.81	88.46	56.838	10729.1	617.9	16.6	617.7	617.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
12	11200.00	88.81	88.46	100	10731.1	717.9	19.3	717.6	717.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
13	11300.00	88.81	88.46	100	10733.2	817.9	22.0	817.6	817.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
14	11400.00	88.81	88.46	100	10735.3	917.8	24.7	917.5	917.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
15	11500.00	88.81	88.46	100	10737.3	1017.8	27.4	1017.4	1017.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
16	11600.00	88.81	88.46	100	10739.4	1117.8	30.1	1117.4	1117.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
17	11700.00	88.81	88.46	100	10741.5	1217.8	32.8	1217.3	1217.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
18	11800.00	88.81	88.46	100	10743.6	1317.8	35.5	1317.3	1317.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
19	11900.00	88.81	88.46	100	10745.6	1417.7	38.1	1417.2	1417.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
20	12000.00	88.81	88.46	100	10747.7	1517.7	40.8	1517.2	1517.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
21	12100.00	88.81	88.46	100	10749.8	1617.7	43.5	1617.1	1617.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
22	12200.00	88.81	88.46	100	10751.9	1717.7	46.2	1717.0	1717.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
23	12300.00	88.81	88.46	100	10753.9	1817.6	48.9	1817.0	1817.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
24	12400.00	88.81	88.46	100	10756.0	1917.6	51.6	1916.9	1917.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
25	12500.00	88.81	88.46	100	10758.1	2017.6	54.3	2016.9	2017.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
26	12600.00	88.81	88.46	100	10760.2	2117.6	57.0	2116.8	2117.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
27	12700.00	88.81	88.46	100	10762.2	2217.6	59.7	2216.8	2217.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
28	12800.00	88.81	88.46	100	10764.3	2317.5	62.4	2316.7	2317.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
29	12900.00	88.81	88.46	100	10766.4	2417.5	65.0	2416.6	2417.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
30	13000.00	88.81	88.46	100	10768.4	2517.5	67.7	2516.6	2517.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
31	13100.00	88.81	88.46	100	10770.5	2617.5	70.4	2616.5	2617.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
32	13200.00	88.81	88.46	100	10772.6	2717.5	73.1	2716.5	2717.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
33	13300.00	88.81	88.46	100	10774.7	2817.4	75.8	2816.4	2817.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
34	13400.00	88.81	88.46	100	10776.7	2917.4	78.5	2916.4	2917.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
35	13500.00	88.81	88.46	100	10778.8	3017.4	81.2	3016.3	3017.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
36	13600.00	88.81	88.46	100	10780.9	3117.4	83.9	3116.2	3117.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
37	13700.00	88.81	88.46	100	10783.0	3217.3	86.6	3216.2	3217.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
38	13800.00	88.81	88.46	100	10785.0	3317.3	89.3	3316.1	3317.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
39	13900.00	88.81	88.46	100	10787.1	3417.3	92.0	3416.1	3417.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
40	14000.00	88.81	88.46	100	10789.2	3517.3	94.6	3516.0	3517.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
41	14100.00	88.81	88.46	100	10791.3	3617.3	97.3	3615.9	3617.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
42	14200.00	88.81	88.46	100	10793.3	3717.2	100.0	3715.9	3717.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
43	14300.00	88.81	88.46	100	10795.4	3817.2	102.7	3815.8	3817.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
44	14400.00	88.81	88.46	100	10797.5	3917.2	105.4	3915.8	3917.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
45	14500.00	88.81	88.46	100	10799.5	4017.2	108.1	4015.7	4017.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
46	14600.00	88.81	88.46	100	10801.6	4117.2	110.8	4115.7	4117.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
47	14700.00	88.81	88.46	100	10803.7	4217.1	113.5	4215.6	4217.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
48	14800.00	88.81	88.46	100	10805.8	4317.1	116.2	4315.5	4317.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
49	14900.00	88.81	88.46	100	10807.8	4417.1	118.9	4415.5	4417.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
50	15000.00	88.81	88.46	100	10809.9	4517.1	121.5	4515.4	4517.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
51	15100.00	88.81	88.46	100	10812.0	4617.0	124.2	4615.4	4617.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
52	15200.00	88.81	88.46	100	10814.1	4717.0	126.9	4715.3	4717.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
53	15300.00	88.81	88.46	100	10816.1	4817.0	129.6	4815.3	4817.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
54	15400.00	88.81	88.46	100	10818.2	4917.0	132.3	4915.2	4917.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
55	15500.00	88.81	88.46	100	10820.3	5017.0	135.0	5015.1	5017.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10
56	15600.00	88.81	88.46	100	10822.4	5116.9	137.7	5115.1	5116.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54 1E-10

57	15700.00	88.81	88.46	100	10824.4	5216.9	140.4	5215.0	5216.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
58	15800.00	88.81	88.46	100	10826.5	5316.9	143.1	5315.0	5316.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
59	15900.00	88.81	88.46	100	10828.6	5416.9	145.8	5414.9	5416.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
60	16000.00	88.81	88.46	100	10830.6	5516.9	148.4	5514.9	5516.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
61	16100.00	88.81	88.46	100	10832.7	5616.8	151.1	5614.8	5616.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
62	16200.00	88.81	88.46	100	10834.8	5716.8	153.8	5714.7	5716.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
63	16300.00	88.81	88.46	100	10836.9	5816.8	156.5	5814.7	5816.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
64	16400.00	88.81	88.46	100	10838.9	5916.8	159.2	5914.6	5916.8	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
65	16500.00	88.81	88.46	100	10841.0	6016.7	161.9	6014.6	6016.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
66	16600.00	88.81	88.46	100	10843.1	6116.7	164.6	6114.5	6116.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
67	16700.00	88.81	88.46	100	10845.2	6216.7	167.3	6214.4	6216.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
68	16800.00	88.81	88.46	100	10847.2	6316.7	170.0	6314.4	6316.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
69	16900.00	88.81	88.46	100	10849.3	6416.7	172.7	6414.3	6416.7	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
70	17000.00	88.81	88.46	100	10851.4	6516.6	175.3	6514.3	6516.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
71	17100.00	88.81	88.46	100	10853.5	6616.6	178.0	6614.2	6616.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
72	17200.00	88.81	88.46	100	10855.5	6716.6	180.7	6714.2	6716.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
73	17300.00	88.81	88.46	100	10857.6	6816.6	183.4	6814.1	6816.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
74	17400.00	88.81	88.46	100	10859.7	6916.6	186.1	6914.0	6916.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
75	17500.00	88.81	88.46	100	10861.7	7016.5	188.8	7014.0	7016.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
76	17600.00	88.81	88.46	100	10863.8	7116.5	191.5	7113.9	7116.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
77	17700.00	88.81	88.46	100	10865.9	7216.5	194.2	7213.9	7216.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
78	17800.00	88.81	88.46	100	10868.0	7316.5	196.9	7313.8	7316.5	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
79	17900.00	88.81	88.46	100	10870.0	7416.4	199.6	7413.8	7416.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
80	18000.00	88.81	88.46	100	10872.1	7516.4	202.2	7513.7	7516.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
81	18100.00	88.81	88.46	100	10874.2	7616.4	204.9	7613.6	7616.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
82	18200.00	88.81	88.46	100	10876.3	7716.4	207.6	7713.6	7716.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
83	18300.00	88.81	88.46	100	10878.3	7816.4	210.3	7813.5	7816.4	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
84	18400.00	88.81	88.46	100	10880.4	7916.3	213.0	7913.5	7916.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
85	18500.00	88.81	88.46	100	10882.5	8016.3	215.7	8013.4	8016.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
86	18600.00	88.81	88.46	100	10884.6	8116.3	218.4	8113.4	8116.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
87	18700.00	88.81	88.46	100	10886.6	8216.3	221.1	8213.3	8216.3	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
88	18800.00	88.81	88.46	100	10888.7	8316.2	223.8	8313.2	8316.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
89	18900.00	88.81	88.46	100	10890.8	8416.2	226.5	8413.2	8416.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
90	19000.00	88.81	88.46	100	10892.8	8516.2	229.2	8513.1	8516.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
91	19100.00	88.81	88.46	100	10894.9	8616.2	231.8	8613.1	8616.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
92	19200.00	88.81	88.46	100	10897.0	8716.2	234.5	8713.0	8716.2	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
93	19300.00	88.81	88.46	100	10899.1	8816.1	237.2	8812.9	8816.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
94	19400.00	88.81	88.46	100	10901.1	8916.1	239.9	8912.9	8916.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
95	19500.00	88.81	88.46	100	10903.2	9016.1	242.6	9012.8	9016.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
96	19600.00	88.81	88.46	100	10905.3	9116.1	245.3	9112.8	9116.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
97	19700.00	88.81	88.46	100	10907.4	9216.1	248.0	9212.7	9216.1	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
98	19800.00	88.81	88.46	100	10909.4	9316.0	250.7	9312.7	9316.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
99	19900.00	88.81	88.46	100	10911.5	9416.0	253.4	9412.6	9416.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
100	20000.00	88.81	88.46	100	10913.6	9516.0	256.1	9512.5	9516.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
101	20100.00	88.81	88.46	100	10915.7	9616.0	258.7	9612.5	9616.0	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
102	20200.00	88.81	88.46	100	10917.7	9715.9	261.4	9712.4	9715.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
103	20300.00	88.81	88.46	100	10919.8	9815.9	264.1	9812.4	9815.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
104	20400.00	88.81	88.46	100	10921.9	9915.9	266.8	9912.3	9915.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
105	20500.00	88.81	88.46	100	10923.9	10015.9	269.5	10012.3	10015.9	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
106	20554.73	88.81	88.46	54.731	10925.1	10070.6	271.0	10067.0	10070.6	88.5	0.0	0.0	10716.2	11.8	1.55006178	1.54	1E-10
107	20554.73	88.81	88.46	0	10925.1	10070.6	271.0	10067.0	10070.6	88.5	#DIV/0!	#DIV/0!	10716.2	11.8	1.55006178	1.54	1E-10



Mewbourne Oil Company		
Oxbow 23/24 W1DA Federal Com 1H		
Horizontal Activity Map		
Structure Top of WFMP (C.I. 100')		
2/15/17	Eddy County	New Mexico
Geol: C. Crosby		

A
N

30015230670000
AMOCO PROD CO
STATE /GG/COM 1
Datum=3011.00
1960 FSL/1960 FWL
TWP: 25 S - Range: 28 E - Sec: 15

12228 ft

30015243640000
POGO PRODUCING CO
SAM FEDERAL 2
Datum=2955.00
1960 FSL/1960 FWL
TWP: 25 S - Range: 28 E - Sec: 26

7590 ft

30015358900000
MARBOB ENERGY CORP
GRAHAM CRACKER STAT 1
Datum=2937.00
1960 FSL/1960 FWL
TWP: 16 S - Range: 29 E - Sec: 35

A'
S

15L

26G

34G

0 WFMP

WFMP SDs

WFMP A

WFMP B

-500

WFMP C

WFMP D

-1000

0

-500

-1000

5S-28E

TD=13460.00

TD=14250.00
Cum Oil All Zones: 63 bbls
Cum Gas All Zones: 148352 MCF
Cum Water All Zones: 3278 bbls

Oxbow 23/24 W1DA Federal Com 1H
Cross Section Exhibit (A-A')

EXHIBIT 13

Oxbow Area Wolfcamp Production Table

Well Name	Operator	API	Location	WFMP Comp Date	Cum Oil (Mbo)	Cum Gas (BCF)	Cum Water (Mbw)	NS/EW	WFMP Zone
San Lorenzo 15 DM Fee Com 1H	Mewbourne	3001540402	15DM/25S/28E	12/6/2012	123.6	0.8	349.1	NS	WFMP D Shale
San Lorenzo 15 OB Fee 1H	Mewbourne	3001540403	15OB/25S/28E	1/4/2014	165.6	0.9	432.5	NS	WFMP D Shale
San Lorenzo 22-27 LE Fee 2H	Mewbourne	3001541153	22LE/25S/28E	8/21/2013	87	0.8	233.6	NS	WFMP D Shale
San Lorenzo 9 OB Fee 1H	Mewbourne	3001541304	9OB/25S/28E	4/24/2014	181.5	1.3	506.3	NS	WFMP D Shale
Riverbend 14 Federal Com 2H	Cimarex	3001541589	14CN/25S/28E	7/22/2015	165.2	1.3	617.7	NS	WFMP D Shale
Hoss 2-11 W2BO Federal Com 1H	Mewbourne	3001544153	2BO/25S/28E	11/7/2017	55	0.4	244.5	NS	WFMP D Shale
Graham Cracker State 2H	COG	3001542282	2PA/26S/28E	Pending				NS	WFMP D Shale

EXHIBIT

14

EXHIBIT 15

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature CalculationsOperator: Mewbourne Oil Company
Lease Name: Oxbow 23/24 WIDA Fed 1H
KOP 9313.04SL: 600 FNL & 255 FWL Sec 23-25S-28E
BHL: 330 FNL & 330 FEL Sec 24-25S-29ETarget KBTVD: 9,886 Feet 9886.00
Target Angle: 89.02 Degrees 89.02
Section Plane: 88.45 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 (RADIAN)	
T/I	9313.04	0.00	88.45	N/A	9313.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9313.0	573.0	1E-12	1.54	#VALUE!
1	9402.06	8.90	88.45	89.018	9401.7	6.9	0.2	6.9	6.9	88.5	10.0	10.0	9401.6	484.4	0.15537	1.54	0.155365
2	9491.08	17.80	88.45	89.018	9488.2	27.4	0.7	27.4	27.4	88.5	10.0	10.0	9487.8	398.2	0.31073	1.54	0.155365
3	9580.10	26.71	88.45	89.018	9570.5	61.1	1.7	61.1	61.1	88.5	10.0	10.0	9569.5	316.5	0.4661	1.54	0.155365
4	9669.11	35.61	88.45	89.018	9646.6	107.1	2.9	107.1	107.1	88.5	10.0	10.0	9644.8	241.2	0.62146	1.54	0.155365
5	9758.13	44.51	88.45	89.018	9714.7	164.4	4.4	164.3	164.4	88.5	10.0	10.0	9711.9	174.1	0.77683	1.54	0.155365
6	9847.15	53.41	88.45	89.018	9773.1	231.4	6.2	231.3	231.4	88.5	10.0	10.0	9769.1	116.9	0.93219	1.54	0.155365
7	9936.17	62.31	88.45	89.018	9820.4	306.7	8.3	306.6	306.7	88.5	10.0	10.0	9815.1	70.9	1.08756	1.54	0.155365
8	10025.19	71.21	88.45	89.018	9855.5	388.4	10.5	388.3	388.4	88.5	10.0	10.0	9848.8	37.2	1.24292	1.54	0.155365
9	10114.20	80.12	88.45	89.018	9877.5	474.6	12.8	474.4	474.6	88.5	10.0	10.0	9869.4	16.6	1.39829	1.54	0.155365
10	10203.22	89.02	88.45	89.018	9885.9	563.1	15.2	562.9	563.1	88.5	10.0	10.0	9876.3	9.7	1.55365	1.54	0.155365
11	10300.00	89.02	88.45	96.779	9887.6	659.9	17.8	659.7	659.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
12	10400.00	89.02	88.45	100	9889.3	759.9	20.5	759.6	759.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
13	10500.00	89.02	88.45	100	9891.0	859.9	23.2	859.6	859.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
14	10600.00	89.02	88.45	100	9892.7	959.9	25.9	959.5	959.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
15	10700.00	89.02	88.45	100	9894.4	1059.8	28.6	1059.5	1059.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
16	10800.00	89.02	88.45	100	9896.1	1159.8	31.3	1159.4	1159.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
17	10900.00	89.02	88.45	100	9897.9	1259.8	34.0	1259.4	1259.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
18	11000.00	89.02	88.45	100	9899.6	1359.8	36.7	1359.3	1359.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
19	11100.00	89.02	88.45	100	9901.3	1459.8	39.4	1459.3	1459.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
20	11200.00	89.02	88.45	100	9903.0	1559.8	42.1	1559.2	1559.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
21	11300.00	89.02	88.45	100	9904.7	1659.8	44.8	1659.1	1659.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
22	11400.00	89.02	88.45	100	9906.4	1759.7	47.5	1759.1	1759.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
23	11500.00	89.02	88.45	100	9908.1	1859.7	50.2	1859.0	1859.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
24	11600.00	89.02	88.45	100	9909.9	1959.7	52.9	1959.0	1959.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
25	11700.00	89.02	88.45	100	9911.6	2059.7	55.6	2058.9	2059.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
26	11800.00	89.02	88.45	100	9913.3	2159.7	58.3	2158.9	2159.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
27	11900.00	89.02	88.45	100	9915.0	2259.7	61.0	2258.8	2259.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
28	12000.00	89.02	88.45	100	9916.7	2359.7	63.7	2358.8	2359.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
29	12100.00	89.02	88.45	100	9918.4	2459.6	66.4	2458.7	2459.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
30	12200.00	89.02	88.45	100	9920.1	2559.6	69.1	2558.7	2559.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
31	12300.00	89.02	88.45	100	9921.9	2659.6	71.8	2658.6	2659.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
32	12400.00	89.02	88.45	100	9923.6	2759.6	74.5	2758.6	2759.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
33	12500.00	89.02	88.45	100	9925.3	2859.6	77.2	2858.5	2859.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
34	12600.00	89.02	88.45	100	9927.0	2959.6	79.9	2958.5	2959.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
35	12700.00	89.02	88.45	100	9928.7	3059.5	82.6	3058.4	3059.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
36	12800.00	89.02	88.45	100	9930.4	3159.5	85.3	3158.4	3159.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
37	12900.00	89.02	88.45	100	9932.1	3259.5	88.0	3258.3	3259.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
38	13000.00	89.02	88.45	100	9933.9	3359.5	90.7	3358.3	3359.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
39	13100.00	89.02	88.45	100	9935.6	3459.5	93.4	3458.2	3459.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
40	13200.00	89.02	88.45	100	9937.3	3559.5	96.1	3558.2	3559.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
41	13300.00	89.02	88.45	100	9939.0	3659.5	98.8	3658.1	3659.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
42	13400.00	89.02	88.45	100	9940.7	3759.4	101.5	3758.1	3759.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
43	13500.00	89.02	88.45	100	9942.4	3859.4	104.2	3858.0	3859.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
44	13600.00	89.02	88.45	100	9944.1	3959.4	106.9	3958.0	3959.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
45	13700.00	89.02	88.45	100	9945.9	4059.4	109.6	4057.9	4059.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
46	13800.00	89.02	88.45	100	9947.6	4159.4	112.3	4157.9	4159.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
47	13900.00	89.02	88.45	100	9949.3	4259.4	115.0	4257.8	4259.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
48	14000.00	89.02	88.45	100	9951.0	4359.4	117.7	4357.8	4359.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
49	14100.00	89.02	88.45	100	9952.7	4459.3	120.4	4457.7	4459.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
50	14200.00	89.02	88.45	100	9954.4	4559.3	123.1	4557.7	4559.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
51	14300.00	89.02	88.45	100	9956.1	4659.3	125.8	4657.6	4659.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
52	14400.00	89.02	88.45	100	9957.9	4759.3	128.5	4757.6	4759.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
53	14500.00	89.02	88.45	100	9959.6	4859.3	131.2	4857.5	4859.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
54	14600.00	89.02	88.45	100	9961.3	4959.3	133.9	4957.5	4959.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
55	14700.00	89.02	88.45	100	9963.0	5059.3	136.6	5057.4	5059.3	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
56	14800.00	89.02	88.45	100	9964.7	5159.2	139.3	5157.4	5159.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10

57	14900.00	89.02	88.45	100	9966.4	5259.2	142.0	5257.3	5259.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
58	15000.00	89.02	88.45	100	9968.1	5359.2	144.7	5357.3	5359.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
59	15100.00	89.02	88.45	100	9969.9	5459.2	147.4	5457.2	5459.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
60	15200.00	89.02	88.45	100	9971.6	5559.2	150.1	5557.2	5559.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
61	15300.00	89.02	88.45	100	9973.3	5659.2	152.8	5657.1	5659.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
62	15400.00	89.02	88.45	100	9975.0	5759.2	155.5	5757.1	5759.2	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
63	15500.00	89.02	88.45	100	9976.7	5859.1	158.2	5857.0	5859.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
64	15600.00	89.02	88.45	100	9978.4	5959.1	160.9	5956.9	5959.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
65	15700.00	89.02	88.45	100	9980.1	6059.1	163.6	6056.9	6059.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
66	15800.00	89.02	88.45	100	9981.8	6159.1	166.3	6156.8	6159.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
67	15900.00	89.02	88.45	100	9983.6	6259.1	169.0	6256.8	6259.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
68	16000.00	89.02	88.45	100	9985.3	6359.1	171.7	6356.7	6359.1	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
69	16100.00	89.02	88.45	100	9987.0	6459.0	174.4	6456.7	6459.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
70	16200.00	89.02	88.45	100	9988.7	6559.0	177.1	6556.6	6559.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
71	16300.00	89.02	88.45	100	9990.4	6659.0	179.8	6656.6	6659.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
72	16400.00	89.02	88.45	100	9992.1	6759.0	182.5	6756.7	6759.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
73	16500.00	89.02	88.45	100	9993.8	6859.0	185.2	6856.5	6859.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
74	16600.00	89.02	88.45	100	9995.6	6959.0	187.9	6956.4	6959.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
75	16700.00	89.02	88.45	100	9997.3	7059.0	190.6	7056.4	7059.0	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
76	16800.00	89.02	88.45	100	9999.0	7158.9	193.3	7156.3	7158.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
77	16900.00	89.02	88.45	100	10000.7	7258.9	196.0	7256.3	7258.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
78	17000.00	89.02	88.45	100	10002.4	7358.9	198.7	7356.2	7358.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
79	17100.00	89.02	88.45	100	10004.1	7458.9	201.4	7456.2	7458.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
80	17200.00	89.02	88.45	100	10005.8	7558.9	204.1	7556.1	7558.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
81	17300.00	89.02	88.45	100	10007.6	7658.9	206.8	7656.1	7658.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
82	17400.00	89.02	88.45	100	10009.3	7758.9	209.5	7756.0	7758.9	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
83	17500.00	89.02	88.45	100	10011.0	7858.8	212.2	7856.0	7858.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
84	17600.00	89.02	88.45	100	10012.7	7958.8	214.9	7955.9	7958.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
85	17700.00	89.02	88.45	100	10014.4	8058.8	217.6	8055.9	8058.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
86	17800.00	89.02	88.45	100	10016.1	8158.8	220.3	8155.8	8158.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
87	17900.00	89.02	88.45	100	10017.8	8258.8	223.0	8255.8	8258.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
88	18000.00	89.02	88.45	100	10019.6	8358.8	225.7	8355.7	8358.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
89	18100.00	89.02	88.45	100	10021.3	8458.8	228.4	8455.7	8458.8	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
90	18200.00	89.02	88.45	100	10023.0	8558.7	231.1	8555.6	8558.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
91	18300.00	89.02	88.45	100	10024.7	8658.7	233.8	8655.6	8658.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
92	18400.00	89.02	88.45	100	10026.4	8758.7	236.5	8755.5	8758.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
93	18500.00	89.02	88.45	100	10028.1	8858.7	239.2	8855.5	8858.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
94	18600.00	89.02	88.45	100	10029.8	8958.7	241.9	8955.4	8958.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
95	18700.00	89.02	88.45	100	10031.6	9058.7	244.6	9055.4	9058.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
96	18800.00	89.02	88.45	100	10033.3	9158.7	247.3	9155.3	9158.7	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
97	18900.00	89.02	88.45	100	10035.0	9258.6	250.0	9255.3	9258.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
98	19000.00	89.02	88.45	100	10036.7	9358.6	252.7	9355.2	9358.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
99	19100.00	89.02	88.45	100	10038.4	9458.6	255.4	9455.2	9458.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
100	19200.00	89.02	88.45	100	10040.1	9558.6	258.1	9555.1	9558.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
101	19300.00	89.02	88.45	100	10041.8	9658.6	260.8	9655.1	9658.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
102	19400.00	89.02	88.45	100	10043.6	9758.6	263.5	9755.0	9758.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
103	19500.00	89.02	88.45	100	10045.3	9858.6	266.2	9855.0	9858.6	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
104	19600.00	89.02	88.45	100	10047.0	9958.5	268.9	9954.9	9958.5	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
105	19662.84	89.02	88.45	62.839	10048.1	10021.4	270.6	10017.7	10021.4	88.5	0.0	0.0	9876.3	9.7	1.55365	1.54	1E-10
106	19662.84	89.02	88.45	0	10048.1	10021.4	270.6	10017.7	10021.4	88.5	#####	#####	9876.3	9.7	1.55365	1.54	1E-10