

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

**IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:**

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR A NON-STANDARD OIL SPACING AND
PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.**

RECEIVED OCD
2014 JAN - 8 P 3: 07
Case No. 15,065

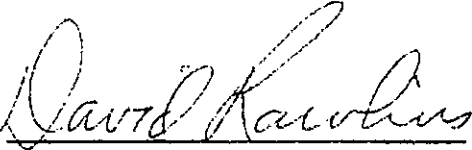
AFFIDAVIT OF DAVID RAWLINS

David Rawlins, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case
3. The geological plats attached hereto as Attachment A show the following:
 - (a) Part 1 is a gross isopach of the 2nd Bone Spring Sand zone, the primary target of the well. The plat shows other Bone Spring wells in the immediate area. It also contains the line of an east-west cross section, which is Part 2 of Attachment A.
 - (b) Part 2 is a west-east cross section, showing the depths at which a completion will be made. The 2nd Bone Spring Sand is continuous across the well unit.
4. The project area is justified from a geologic standpoint.
5. Each quarter-quarter section in the project area will contribute more or less equally to production.
6. Attachment B is the horizontal survey calculation for the well. The well will have approximately 10 completion stages, and the fracture treatment will use approximately 2,800,000 pounds of sand and 2,400,000 gallons of water.
7. The producing interval in the well will be orthodox.

Oil Conservation Division
Case No. 2 15065
Exhibit No. 2

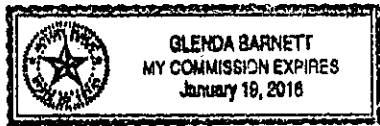
8. Other Bone Spring wells in Section 17 have laydown units, so Mewbourne requests a laydown unit for the subject well.

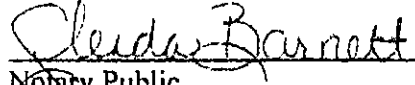

David Rawlins

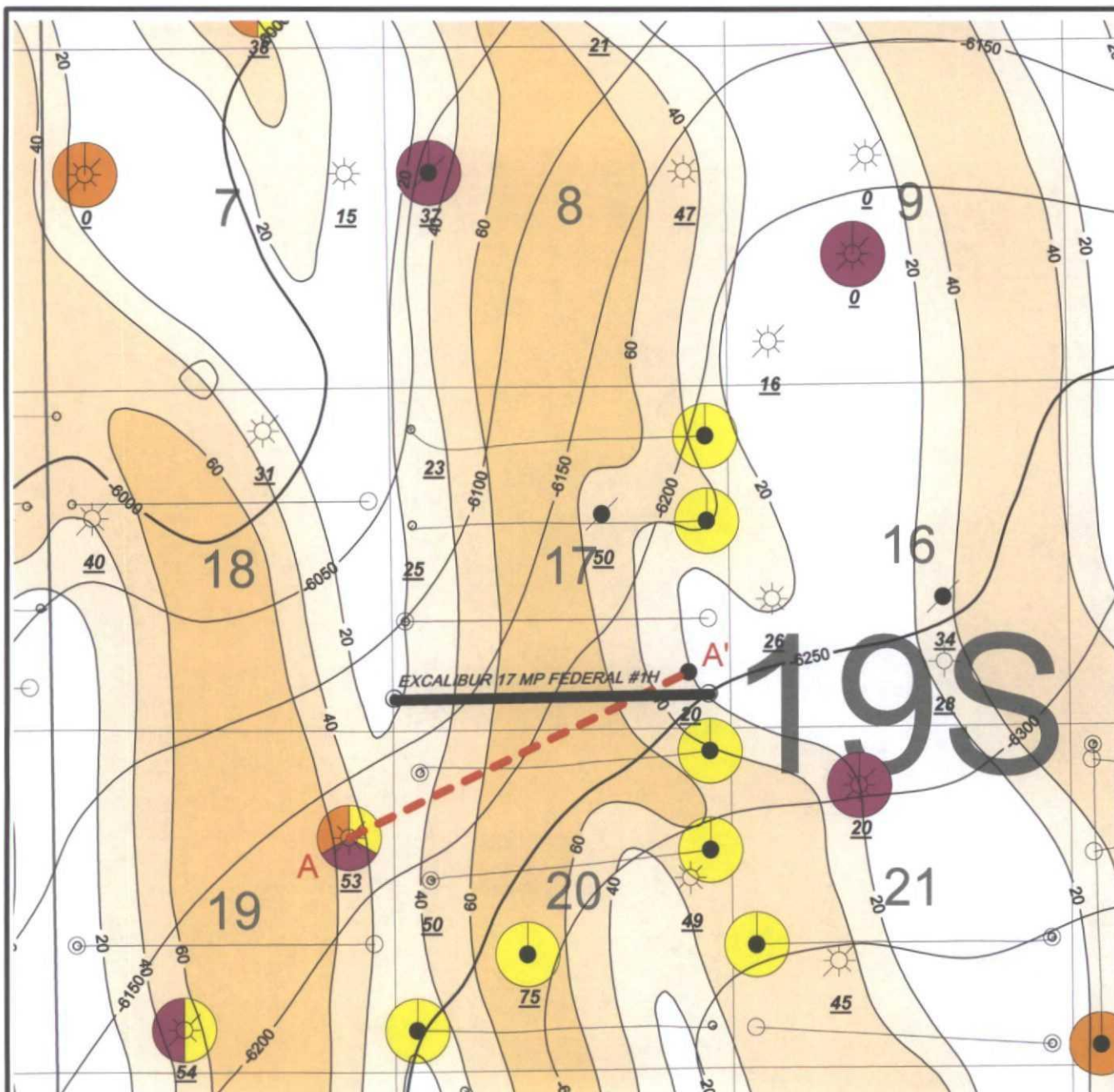
COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

SUBSCRIBED AND SWORN TO before me this 18th day of December, 2013 by David Rawlins.

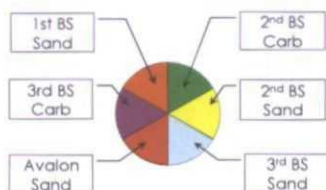
My Commission Expires: 1-18-2016




Notary Public



PRODUCING ZONE COLOR CODE



MOC Newbourn Oil Company		
EXCALIBUR 17 MP FEDERAL 1H 2 ND BSPG "UPPER" SAND GROSS SD. ISOPACH Structure top of 2 BSPG "UPPER" Sand LEA CO, NEW MEXICO		
Author: DMR	Wells > 8000 feet	Date: 12 December, 2013
	Scale: 1 inch = 2500 feet	



1" = 2500'

Attachment **A**
Part 1

A

300253916000
MEWBOURNE OIL COMPANY
NORTE 19 FEDERAL COM 1
W2 SE NE

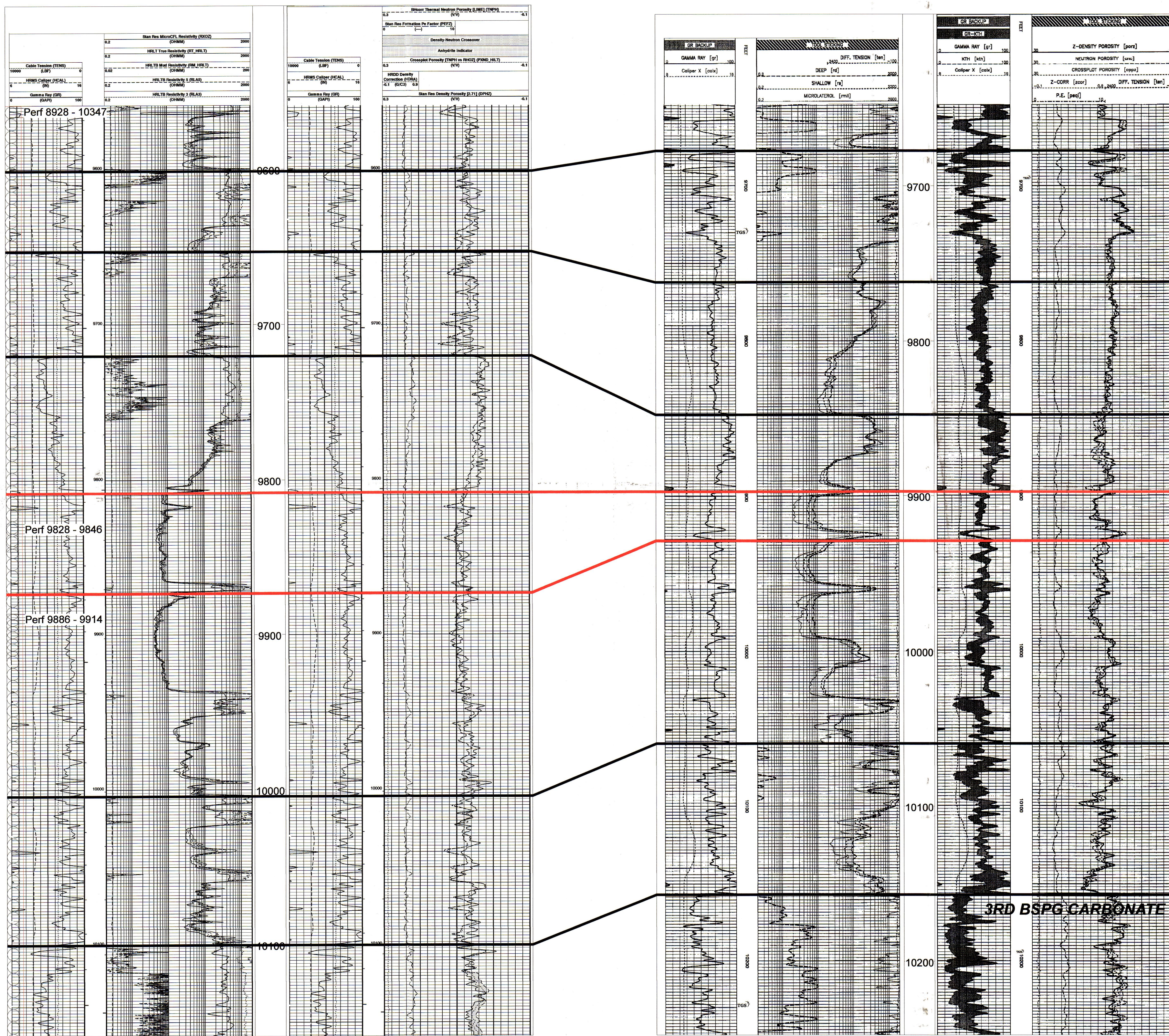
5898 ft

300253654300
CHEVRON U S A INCORPORATED
EXCALIBUR 17 FEDERAL 1
N2 SE SE

A'

19-H
19S-33E

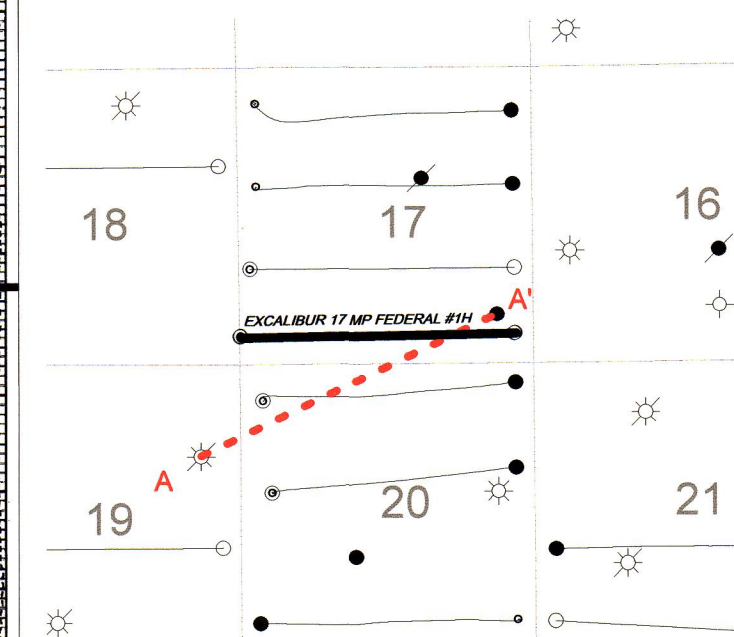
17-P
19S-33E



2ND BSPG "UPPER" SAND
HORIZONTAL TARGET

2ND BSPG "LOWER" SAND

BASE OF 2ND BSPG SANDS



Attachment
Part 2

OPERATOR:
WELL:
LOCATION:
JOB NUMBER:

SURVEY CALCULATION PROGRAM
Mewbourne Oil Co.
Excalibur 17 MP Federal Com
Lea Co. NM
WT-13814

SVY NUM	MD	INC	TRUE AZM	COURSE LENGTH	TVD	SECT	N-S	E-W	DLS/ 100
TIE	9165.00	0.46	143.93		9162.44	-57.28	93.20	-57.72	
1.00	9229.00	1.30	232.00	64.00	9226.43	-57.70	92.55	-58.14	2.13
2.00	9260.00	0.80	167.40	31.00	9257.42	-57.94	92.12	-58.37	3.87
3.00	9292.00	3.50	91.40	32.00	9289.40	-56.91	91.88	-57.34	10.61
4.00	9324.00	6.90	81.90	32.00	9321.27	-54.03	92.12	-54.46	10.92
5.00	9355.00	9.70	74.00	31.00	9351.94	-49.67	93.11	-50.11	9.73
6.00	9387.00	12.80	72.40	32.00	9383.32	-43.69	94.92	-44.14	9.74
7.00	9419.00	15.20	73.70	32.00	9414.37	-36.27	97.17	-36.73	7.56
8.00	9450.00	18.40	78.80	31.00	9444.04	-27.56	99.26	-28.03	11.36
9.00	9482.00	20.00	78.90	32.00	9474.26	-17.23	101.30	-17.70	5.00
10.00	9514.00	21.60	77.50	32.00	9504.18	-6.09	103.63	-6.58	5.24
11.00	9545.00	24.60	82.30	31.00	9532.69	5.88	105.73	5.39	11.42
12.00	9577.00	27.80	84.60	32.00	9561.40	19.93	107.32	19.42	10.49
13.00	9608.00	32.00	85.40	31.00	9588.27	35.32	108.66	34.81	13.61
14.00	9640.00	34.80	88.80	32.00	9614.98	52.91	109.53	52.40	10.52
15.00	9671.00	38.40	87.70	31.00	9639.87	71.39	110.10	70.87	11.80
16.00	9703.00	42.40	88.60	32.00	9664.23	92.11	110.77	91.59	12.63
17.00	9734.00	46.60	88.60	31.00	9686.34	113.83	111.30	113.31	13.55
18.00	9766.00	51.40	89.30	32.00	9707.32	137.97	111.73	137.45	15.09
19.00	9797.00	55.40	90.00	31.00	9725.80	162.86	111.88	162.33	13.03
20.00	9829.00	58.80	91.40	32.00	9743.18	189.71	111.55	189.19	11.24
21.00	9861.00	62.30	92.50	32.00	9758.91	217.55	110.60	217.03	11.34
22.00	9892.00	65.30	93.50	31.00	9772.60	245.32	109.14	244.81	10.10
23.00	9924.00	68.40	93.50	32.00	9785.18	274.68	107.34	274.17	9.69
24.00	9955.00	71.10	93.70	31.00	9795.91	303.69	105.51	303.20	8.73
25.00	9987.00	73.80	92.80	32.00	9805.55	334.14	103.79	333.65	8.85

Attachment

13

26.00	10018.00	76.80	91.80	31.00	9813.42	364.09	102.59	363.61	10.17
27.00	10050.00	79.00	91.20	32.00	9820.13	395.36	101.77	394.89	7.12
28.00	10081.00	80.80	91.10	31.00	9825.56	425.87	101.15	425.40	5.82
29.00	10113.00	83.60	90.70	32.00	9829.91	457.57	100.66	457.10	8.84
30.00	10139.00	85.50	91.70	26.00	9832.38	483.44	100.11	482.97	8.25
31.00	10170.00	86.30	91.50	31.00	9834.59	514.34	99.25	513.88	2.66
32.00	10202.00	89.40	91.50	32.00	9835.79	546.30	98.41	545.84	9.69
33.00	10234.00	90.30	92.00	32.00	9835.88	578.28	97.44	577.83	3.22
34.00	10265.00	91.00	91.70	31.00	9835.52	609.26	96.44	608.81	2.46
35.00	10329.00	90.80	91.80	64.00	9834.52	673.21	94.48	672.77	0.35
36.00	10392.00	90.20	91.30	63.00	9833.97	736.17	92.78	735.75	1.24
37.00	10456.00	88.90	90.20	64.00	9834.47	800.16	91.94	799.74	2.66
38.00	10519.00	88.00	90.90	63.00	9836.18	863.13	91.34	862.71	1.81
39.00	10582.00	88.50	91.30	63.00	9838.10	926.08	90.13	925.67	1.02
40.00	10645.00	87.70	91.10	63.00	9840.19	989.03	88.81	988.62	1.31
41.00	10709.00	87.70	91.50	64.00	9842.76	1052.95	87.36	1052.55	0.62
42.00	10772.00	88.20	91.70	63.00	9845.01	1115.88	85.60	1115.49	0.85
43.00	10836.00	89.20	91.50	64.00	9846.46	1179.83	83.81	1179.44	1.59
44.00	10899.00	89.20	92.00	63.00	9847.34	1242.78	81.89	1242.41	0.79
45.00	10962.00	88.20	91.10	63.00	9848.77	1305.73	80.19	1305.37	2.14
46.00	11025.00	88.50	91.30	63.00	9850.59	1368.68	78.87	1368.33	0.57
47.00	11089.00	89.30	90.90	64.00	9851.82	1432.65	77.64	1432.30	1.40
48.00	11152.00	88.60	91.70	63.00	9852.97	1495.62	76.21	1495.27	1.69
49.00	11215.00	88.70	91.80	63.00	9854.45	1558.56	74.29	1558.23	0.22
50.00	11279.00	89.20	91.80	64.00	9855.63	1622.51	72.28	1622.19	0.78
51.00	11342.00	89.60	91.70	63.00	9856.29	1685.47	70.35	1685.15	0.65
52.00	11406.00	89.60	90.60	64.00	9856.73	1749.44	69.07	1749.14	1.72
53.00	11470.00	90.40	90.10	64.00	9856.73	1813.44	68.68	1813.14	1.47
54.00	11532.00	89.10	90.20	62.00	9857.00	1875.44	68.51	1875.13	2.10
55.00	11595.00	89.30	90.90	63.00	9857.88	1938.42	67.91	1938.12	1.16
56.00	11658.00	90.00	90.80	63.00	9858.27	2001.41	66.98	2001.12	1.12
57.00	11721.00	88.40	90.60	63.00	9859.15	2064.39	66.21	2064.10	2.56
58.00	11785.00	88.70	90.60	64.00	9860.77	2128.36	65.54	2128.08	0.47
59.00	11848.00	87.60	90.10	63.00	9862.80	2191.33	65.15	2191.04	1.92

60.00	11912.00	88.40	89.70	64.00	9865.03	2255.29	65.26	2255.00	1.40
61.00	11975.00	89.10	89.70	63.00	9866.41	2318.27	65.59	2317.99	1.11
62.00	12038.00	89.30	89.90	63.00	9867.29	2381.26	65.81	2380.98	0.45
63.00	12101.00	90.20	89.40	63.00	9867.56	2444.26	66.20	2443.98	1.63
64.00	12164.00	89.50	90.10	63.00	9867.73	2507.26	66.47	2506.98	1.57
65.00	12227.00	90.30	90.10	63.00	9867.84	2570.26	66.36	2569.98	1.27
66.00	12291.00	88.70	89.70	64.00	9868.40	2634.25	66.47	2633.97	2.58
67.00	12354.00	89.10	90.10	63.00	9869.61	2697.24	66.58	2696.96	0.90
68.00	12417.00	88.20	89.20	63.00	9871.09	2760.22	66.97	2759.94	2.02
69.00	12480.00	88.50	89.40	63.00	9872.90	2823.20	67.74	2822.91	0.57
70.00	12543.00	90.00	89.40	63.00	9873.73	2886.19	68.40	2885.90	2.38
71.00	12607.00	88.90	89.40	64.00	9874.34	2950.18	69.07	2949.89	1.72
72.00	12670.00	87.80	90.60	63.00	9876.16	3013.15	69.07	3012.86	2.58
73.00	12734.00	88.00	91.10	64.00	9878.50	3077.10	68.12	3076.81	0.84
74.00	12797.00	88.50	91.10	63.00	9880.43	3140.05	66.91	3139.77	0.79
75.00	12861.00	89.40	91.10	64.00	9881.60	3204.02	65.68	3203.75	1.41
76.00	12924.00	90.60	90.80	63.00	9881.60	3267.01	64.64	3266.74	1.96
77.00	12988.00	89.10	91.30	64.00	9881.77	3330.99	63.46	3330.72	2.47
78.00	13051.00	89.10	91.80	63.00	9882.76	3393.95	61.76	3393.69	0.79
79.00	13115.00	90.00	92.20	64.00	9883.26	3457.89	59.53	3457.65	1.54
80.00	13178.00	88.60	91.30	63.00	9884.03	3520.85	57.60	3520.61	2.64
81.00	13242.00	88.60	90.80	64.00	9885.59	3584.81	56.43	3584.58	0.78
82.00	13305.00	89.20	90.60	63.00	9886.80	3647.79	55.66	3647.57	1.00
83.00	13368.00	88.60	90.90	63.00	9888.01	3710.77	54.84	3710.55	1.06
84.00	13432.00	88.50	91.50	64.00	9889.63	3774.73	53.50	3774.52	0.95
85.00	13495.00	88.90	91.50	63.00	9891.06	3837.68	51.85	3837.48	0.63
86.00	13559.00	89.30	91.70	64.00	9892.07	3901.64	50.06	3901.45	0.70
87.00	13623.00	88.20	91.30	64.00	9893.46	3965.59	48.39	3965.41	1.83
88.00	13686.00	88.30	90.90	63.00	9895.39	4028.54	47.18	4028.37	0.65
89.00	13750.00	89.10	90.40	64.00	9896.84	4092.52	46.45	4092.34	1.47
90.00	13813.00	89.50	90.10	63.00	9897.61	4155.51	46.18	4155.34	0.79
88.00	13877.00	88.10	89.90	64.00	9898.95	4219.49	46.18	4219.32	2.21
88.00	13940.00	88.80	89.20	63.00	9900.65	4282.47	46.67	4282.30	1.57
88.00	14003.00	88.20	89.90	63.00	9902.30	4345.45	47.17	4345.27	1.46

94.00	14067.00	89.00	89.90	64.00	9903.86	4409.43	47.28	4409.25	1.25
95.00	14131.00	89.50	89.70	64.00	9904.70	4473.42	47.50	4473.25	0.84
96.00	14194.00	90.50	89.20	63.00	9904.70	4536.42	48.11	4536.24	1.77
97.00	14258.00	88.90	89.50	64.00	9905.04	4600.42	48.83	4600.24	2.54
98.00	14322.00	88.90	89.50	64.00	9906.27	4664.40	49.39	4664.22	0.00
99.00	14385.00	89.20	89.40	63.00	9907.31	4727.39	50.00	4727.21	0.50
100.00	14425.00	89.10	89.20	40.00	9907.90	4767.39	50.48	4767.20	0.56
Bit	14475.00	89.10	89.20	50.00	9908.70	4817.38	51.18	4817.19	0.00