

APPENDIX B

CASING TALLYS

Surface Casing
Upper Intermediate Casing
Lower Intermediate Casing
7" Production Casing

Surface Casing

							Well	Linam AGI #2	
							Date	20-Oct-14	
Revised Tally after laying out Joints #2 and #3							Shoe Depth	1,570	
							Total Depth	1,577	
							Rathole	7	
							Total		
							Collar		
Run Jt #	Unit #	Length	O.D.	Weight	Grade	Thread	Remarks	Length	Depth
	F/S	3.12	20.00					3.12	1,566.88
1	1	41.60	20.00	106.5	J55	BTC	Cent	44.72	1,525.28
2	F/C	2.56	20.00		J55	BTC		47.28	1,522.72
3	2	41.61	20.00	Replaced	J55	BTC	Cent	88.89	1,481.11
4	3	41.62	20.00	Replaced	J55	BTC		130.51	1,439.49
5	4	41.61	20.00	106.5	J55	BTC	Cent	172.12	1,397.88
6	5	41.61	20.00	106.5	J55	BTC		213.73	1,356.27
7	6	41.62	20.00	106.5	J55	BTC	Cent	255.35	1,314.65
8	7	41.70	20.00	106.5	J55	BTC		297.05	1,272.95
9	8	41.72	20.00	106.5	J55	BTC	Cent	338.77	1,231.23
10	9	41.60	20.00	106.5	J55	BTC		380.37	1,189.63
11	10	41.61	20.00	106.5	J55	BTC	Cent	421.98	1,148.02
12	11	41.23	20.00	106.5	J55	BTC		463.21	1,106.79
13	12	41.10	20.00	106.5	J55	BTC	Cent	504.31	1,065.69
14	13	41.62	20.00	106.5	J55	BTC		545.93	1,024.07
15	14	41.58	20.00	106.5	J55	BTC	Cent	587.51	982.49
16	15	41.60	20.00	106.5	J55	BTC		629.11	940.89
17	16	41.62	20.00	106.5	J55	BTC	Cent	670.73	899.27
18	17	41.60	20.00	106.5	J55	BTC		712.33	857.67
19	18	41.60	20.00	106.5	J55	BTC	Cent	753.93	816.07
20	19	43.50	20.00	106.5	J55	BTC		797.43	772.57
21	20	43.51	20.00	106.5	J55	BTC	Cent	840.94	729.06
22	21	43.52	20.00	106.5	J55	BTC		884.46	685.54
23	22	43.50	20.00	106.5	J55	BTC	Cent	927.96	642.04
24	23	43.45	20.00	106.5	J55	BTC		971.41	598.59
25	24	43.45	20.00	106.5	J55	BTC	Cent	1,014.86	555.14
26	25	43.44	20.00	106.5	J55	BTC		1,058.30	511.70
27	26	43.55	20.00	106.5	J55	BTC	Cent	1,101.85	468.15
28	27	43.50	20.00	106.5	J55	BTC		1,145.35	424.65
29	28	43.49	20.00	106.5	J55	BTC	Cent	1,188.84	381.16
30	29	43.50	20.00	106.5	J55	BTC		1,232.34	337.66
31	30	43.48	20.00	106.5	J55	BTC	Cent	1,275.82	294.18
32	31	43.47	20.00	106.5	J55	BTC		1,319.29	250.71
33	32	43.44	20.00	106.5	J55	BTC	Cent	1,362.73	207.27
34	33	43.43	20.00	106.5	J55	BTC		1,406.16	163.84
35	34	41.60	20.00	106.5	J55	BTC	Cent	1,447.76	122.24
36	35	41.62	20.00	106.5	J55	BTC		1,489.38	80.62
37	36	41.58	20.00	106.5	J55	BTC	Cent	1,530.96	39.04
38	37	41.55	20.00	106.5	J55	BTC		1,572.51	-2.51
	1	41.62	Replaced	#2 Bad jt	J55	BTC	Out Joints		
	2	41.60	Replaced	#3 Bad jt	J55	BTC	Out Joints		
	1	41.60	20.00	106.5	J55	BTC	Out Joints		
	2	41.63	20.00	106.5	J55	BTC	Out Joints		
	3	41.62	20.00	106.5	J55	BTC	Out Joints		
		208.07							

Lower Intermediate Casing

Run Jt #	Unit #	Length	O.D.	Weight	Grade	Thread	Remarks	Total Length	Collar Depth
1	F/S	1.73	13 3/8					1.73	3,221.27
2	1	40.94	13 3/8	68	J55	BTC	(2) Cent 1 & 2	42.67	3,180.33
3	F/C	1.65	13 3/8		J55	BTC		44.32	3,178.68
4	2	42.13	13 3/8	68	J55	BTC	Cent #3	86.45	3,136.55
5	3	42.14	13 3/8	68	J55	BTC		128.59	3,094.41
6	4	42.11	13 3/8	68	J55	BTC	Cent #4	170.70	3,052.30
7	5	42.12	13 3/8	68	J55	BTC		212.82	3,010.18
8	6	Out Jt	42.13	68	J55	BTC		212.82	3,010.18
9	7	42.13	13 3/8	68	J55	BTC	Cent #5	254.95	2,968.05
10	8	42.12	13 3/8	68	J55	BTC		297.07	2,925.93
11	9	42.11	13 3/8	68	J55	BTC	Cent #6	339.18	2,883.82
12	10	42.12	13 3/8	68	J55	BTC		381.30	2,841.70
13	11	42.11	13 3/8	68	J55	BTC	Cent #7	423.41	2,799.59
14	12	41.55	13 3/8	68	J55	BTC		464.96	2,758.04
15	13	40.94	13 3/8	68	J55	BTC	Cent #8	505.90	2,717.10
16	14	42.12	13 3/8	68	J55	BTC		548.02	2,674.98
17	15	42.11	13 3/8	68	J55	BTC	Cent #9	590.13	2,632.87
18	16	41.71	13 3/8	68	J55	BTC		631.84	2,591.16
19	17	41.61	13 3/8	68	J55	BTC	Cent #10	673.45	2,549.55
20	18	42.15	13 3/8	68	J55	BTC		715.60	2,507.40
21	19	41.58	13 3/8	68	J55	BTC	Cent #11	757.18	2,465.82
22	20	41.45	13 3/8	68	J55	BTC		798.63	2,424.37
23	21	41.24	13 3/8	68	J55	BTC		839.87	2,383.13
24	22	41.52	13 3/8	68	J55	BTC		881.39	2,341.61
25	23	41.30	13 3/8	68	J55	BTC		922.69	2,300.31
26	24	41.51	13 3/8	68	J55	BTC	Cent #12	964.20	2,258.80
27	25	41.26	13 3/8	68	J55	BTC		1,005.46	2,217.54
28	26	41.40	13 3/8	68	J55	BTC		1,046.86	2,176.14
29	27	41.27	13 3/8	68	J55	BTC		1,088.13	2,134.87
30	28	42.14	13 3/8	68	J55	BTC		1,130.27	2,092.73
31	29	42.17	13 3/8	68	J55	BTC	Cent #13	1,172.44	2,050.56
32	30	42.14	13 3/8	68	J55	BTC		1,214.58	2,008.42
33	31	41.05	13 3/8	68	J55	BTC		1,255.63	1,967.37
34	32	42.12	13 3/8	68	J55	BTC		1,297.75	1,925.25
35	33	42.13	13 3/8	68	J55	BTC	Cent #14	1,339.88	1,883.12
36	34	42.14	13 3/8	68	J55	BTC		1,382.02	1,840.98
37	35	42.13	13 3/8	68	J55	BTC		1,424.15	1,798.85
38	36	42.12	13 3/8	68	J55	BTC		1,466.27	1,756.73
39	37	42.13	13 3/8	68	J55	BTC		1,508.40	1,714.60
40	38	42.14	13 3/8	68	J55	BTC	Cent #15	1,550.54	1,672.46
41	39	42.13	13 3/8	68	J55	BTC		1,592.67	1,630.33
42	40	42.13	13 3/8	68	J55	BTC		1,634.80	1,588.20
43	41	42.14	13 3/8	68	J55	BTC		1,676.94	1,546.06
44	42	41.56	13 3/8	68	J55	BTC		1,718.50	1,504.50
45	43	41.65	13 3/8	68	J55	BTC	Cent #16	1,760.15	1,462.85
46	44	42.11	13 3/8	68	J55	BTC		1,802.26	1,420.74
47	45	42.13	13 3/8	68	J55	BTC		1,844.39	1,378.61
48	46	42.13	13 3/8	68	J55	BTC		1,886.52	1,336.48
49	47	42.14	13 3/8	68	J55	BTC		1,928.66	1,294.34
50	48	41.60	13 3/8	68	J55	BTC	Cent #17	1,970.26	1,252.74
51	49	42.10	13 3/8	68	J55	BTC		2,012.36	1,210.64
52	50	42.12	13 3/8	68	J55	BTC		2,054.48	1,168.52
53	51	41.63	13 3/8	68	J55	BTC		2,096.11	1,126.89
54	52	42.12	13 3/8	68	J55	BTC		2,138.23	1,084.77
55	53	42.12	13 3/8	68	J55	BTC	Cent #18	2,180.35	1,042.65
56	54	42.13	13 3/8	68	J55	BTC		2,222.48	1,000.52
57	55	42.12	13 3/8	68	J55	BTC		2,264.60	958.40
58	56	42.12	13 3/8	68	J55	BTC		2,306.72	916.28
59	57	42.13	13 3/8	68	J55	BTC		2,348.85	874.15
60	58	42.10	13 3/8	68	J55	BTC	Cent #19	2,390.95	832.05
61	59	42.12	13 3/8	68	J55	BTC		2,433.07	789.93
62	60	42.13	13 3/8	68	J55	BTC		2,475.20	747.80
63	61	41.11	13 3/8	68	J55	BTC		2,516.31	706.69
64	62	42.12	13 3/8	68	J55	BTC		2,558.43	664.57
65	63	42.15	13 3/8	68	J55	BTC	Cent #20	2,600.58	622.42
66	64	42.12	13 3/8	68	J55	BTC		2,642.70	580.30
67	65	42.13	13 3/8	68	J55	BTC		2,684.83	538.17
68	66	42.12	13 3/8	68	J55	BTC		2,726.95	496.05
69	67	41.39	13 3/8	68	J55	BTC		2,768.34	454.66
70	68	42.11	13 3/8	68	J55	BTC	Cent #21	2,810.45	412.55
71	69	42.13	13 3/8	68	J55	BTC		2,852.58	370.42
72	70	42.12	13 3/8	68	J55	BTC		2,894.70	328.30
73	71	42.14	13 3/8	68	J55	BTC		2,936.84	286.16
74	72	41.39	13 3/8	68	J55	BTC		2,978.23	244.77
75	73	42.11	13 3/8	68	J55	BTC	Cent #22	3,020.34	202.66
76	74	42.12	13 3/8	68	J55	BTC		3,062.46	160.54
77	75	42.13	13 3/8	68	J55	BTC		3,104.59	118.41
78	76	42.13	13 3/8	68	J55	BTC	Cent #23	3,146.72	76.28
79	77	42.13	13 3/8	68	J55	BTC		3,188.85	34.15
80	78	41.54	13 3/8	68	J55	BTC		3,230.39	-7.39

Upper Intermediate Casing

							Well	Linam AGI #2		
							Date	1-Dec-14		
							Total Depth	8,630		
							Shoe Depth	8,603		
							Rathole	27		
							Total		Collar	
Run Jt #	Unit #	Length	O.D.	Weight	Grade	Thread	Remarks	Length	Depth	
1	F/S	1.94	9 5/8	47	HCL-80	LTC		1.94	8,601.06	
2	1	44.45	9 5/8	47	HCL-80	LTC	(2) Cent 1 & 2	46.39	8,556.61	
3	F/C	1.56	9 5/8	47	HCL-80	LTC		47.95	8,555.05	
4	2	45.35	9 5/8	47	HCL-80	LTC	Cent #3	93.30	8,509.70	
5	3	45.35	9 5/8	47	HCL-80	LTC		138.65	8,464.35	
6	4	45.36	9 5/8	47	HCL-80	LTC	Cent #4	184.01	8,418.99	
7	5	44.98	9 5/8	47	HCL-80	LTC		228.99	8,374.01	
8	6	45.38	9 5/8	47	HCL-80	LTC	Cent #5	274.37	8,328.63	
9	7	45.34	9 5/8	47	HCL-80	LTC		319.71	8,283.29	
10	8	45.30	9 5/8	47	HCL-80	LTC	Cent #6	365.01	8,237.99	
11	9	45.30	9 5/8	47	HCL-80	LTC		410.31	8,192.69	
12	10	45.34	9 5/8	47	HCL-80	LTC	Cent #7	455.65	8,147.35	
13	11	45.35	9 5/8	47	HCL-80	LTC		501.00	8,102.00	11
14	DVT #1	3.50	9 5/8	47	HCL-80	LTC		504.50	8,098.50	
15	12	45.00	9 5/8	47	HCL-80	LTC	Cent #8	549.50	8,053.50	12
16	13	45.35	9 5/8	47	HCL-80	LTC		594.85	8,008.15	
17	14	45.34	9 5/8	47	HCL-80	LTC		640.19	7,962.81	
18	15	45.38	9 5/8	47	HCL-80	LTC	Cent #9	685.57	7,917.43	
19	16	45.37	9 5/8	47	HCL-80	LTC		730.94	7,872.06	
20	17	45.33	9 5/8	47	HCL-80	LTC		776.27	7,826.73	
21	18	45.34	9 5/8	47	HCL-80	LTC		821.61	7,781.39	
22	19	45.34	9 5/8	47	HCL-80	LTC	Cent #10	866.95	7,736.05	
23	20	45.34	9 5/8	47	HCL-80	LTC		912.29	7,690.71	
24	21	45.34	9 5/8	47	HCL-80	LTC		957.63	7,645.37	
25	22	45.34	9 5/8	47	HCL-80	LTC		1,002.97	7,600.03	
26	23	45.34	9 5/8	47	HCL-80	LTC	Cent #11	1,048.31	7,554.69	
27	24	45.34	9 5/8	47	HCL-80	LTC		1,093.65	7,509.35	
28	25	45.34	9 5/8	47	HCL-80	LTC		1,138.99	7,464.01	
29	26	45.34	9 5/8	47	HCL-80	LTC		1,184.33	7,418.67	
30	27	45.34	9 5/8	47	HCL-80	LTC	Cent #12	1,229.67	7,373.33	
31	28	45.35	9 5/8	47	HCL-80	LTC		1,275.02	7,327.98	
32	29	45.38	9 5/8	47	HCL-80	LTC		1,320.40	7,282.60	
33	30	45.37	9 5/8	47	HCL-80	LTC		1,365.77	7,237.23	
34	31	45.40	9 5/8	47	HCL-80	LTC	Cent #13	1,411.17	7,191.83	
35	32	45.34	9 5/8	47	HCL-80	LTC		1,456.51	7,146.49	
36	33	45.38	9 5/8	47	HCL-80	LTC		1,501.89	7,101.11	
37	34	45.34	9 5/8	47	HCL-80	LTC		1,547.23	7,055.77	
38	35	45.35	9 5/8	47	HCL-80	LTC	Cent #14	1,592.58	7,010.42	
39	36	45.38	9 5/8	47	HCL-80	LTC		1,637.96	6,965.04	
40	37	45.34	9 5/8	47	HCL-80	LTC		1,683.30	6,919.70	
41	38	45.35	9 5/8	47	HCL-80	LTC		1,728.65	6,874.35	
42	39	45.34	9 5/8	47	HCL-80	LTC	Cent #15	1,773.99	6,829.01	
43	40	45.35	9 5/8	47	HCL-80	LTC		1,819.34	6,783.66	
44	41	45.36	9 5/8	47	HCL-80	LTC		1,864.70	6,738.30	
45	42	45.34	9 5/8	47	HCL-80	LTC		1,910.04	6,692.96	
46	43	45.35	9 5/8	47	HCL-80	LTC	Cent #16	1,955.39	6,647.61	
47	44	45.34	9 5/8	47	HCL-80	LTC		2,000.73	6,602.27	
48	45	45.36	9 5/8	47	HCL-80	LTC		2,046.09	6,556.91	
49	46	45.33	9 5/8	47	HCL-80	LTC		2,091.42	6,511.58	
50	47	45.34	9 5/8	47	HCL-80	LTC	Cent #17	2,136.76	6,466.24	
51	48	45.35	9 5/8	47	HCL-80	LTC		2,182.11	6,420.89	
52	49	45.34	9 5/8	47	HCL-80	LTC		2,227.45	6,375.55	
53	50	45.34	9 5/8	47	HCL-80	LTC		2,272.79	6,330.21	
54	51	45.28	9 5/8	47	HCL-80	LTC	Cent #18	2,318.07	6,284.93	
55	52	45.34	9 5/8	47	HCL-80	LTC		2,363.41	6,239.59	
56	53	45.37	9 5/8	47	HCL-80	LTC		2,408.78	6,194.22	
57	54	45.37	9 5/8	47	HCL-80	LTC		2,454.15	6,148.85	
58	55	45.33	9 5/8	47	HCL-80	LTC	Cent #19	2,499.48	6,103.52	
59	56	45.34	9 5/8	47	HCL-80	LTC		2,544.82	6,058.18	
60	57	45.34	9 5/8	47	HCL-80	LTC		2,590.16	6,012.84	
61	58	44.82	9 5/8	47	HCL-80	LTC		2,634.98	5,968.02	
62	59	45.35	9 5/8	47	HCL-80	LTC	Cent #20	2,680.33	5,922.67	
63	60	45.37	9 5/8	47	HCL-80	LTC		2,725.70	5,877.30	
64	61	45.34	9 5/8	47	HCL-80	LTC		2,771.04	5,831.96	
65	62	38.36	9 5/8	47	HCL-80	LTC		2,809.40	5,793.60	
66	63	45.30	9 5/8	47	HCL-80	LTC	Cent #21	2,854.70	5,748.30	63
67	ECP	16.65	9 5/8	47	HCL-80	LTC		2,871.35	5,731.65	
68	Pup Joint	7.95	9 5/8	47	HCL-80	LTC		2,879.30	5,723.70	
69	DVT #2	3.50	9 5/8	47	HCL-80	LTC		2,882.80	5,720.20	
70	64	45.31	9 5/8	47	HCL-80	LTC	Cent #22	2,928.11	5,674.89	64
71	65	38.12	9 5/8	47	HCL-80	LTC		2,966.23	5,636.77	
72	66	45.32	9 5/8	47	HCL-80	LTC		3,011.55	5,591.45	
73	67	45.33	9 5/8	47	HCL-80	LTC		3,056.88	5,546.12	
74	68	45.32	9 5/8	47	HCL-80	LTC	Cent #23	3,102.20	5,500.80	
75	69	45.34	9 5/8	47	HCL-80	LTC		3,147.54	5,455.46	
76	70	45.33	9 5/8	47	HCL-80	LTC		3,192.87	5,410.13	
77	71	45.32	9 5/8	47	HCL-80	LTC		3,238.19	5,364.81	
78	72	45.33	9 5/8	47	HCL-80	LTC	Cent #24	3,283.52	5,319.48	
79	73	45.29	9 5/8	47	HCL-80	LTC		3,328.81	5,274.19	
80	74	45.32	9 5/8	47	HCL-80	LTC		3,374.13	5,228.87	
81	75	45.32	9 5/8	47	HCL-80	LTC		3,419.45	5,183.55	
82	76	45.32	9 5/8	47	HCL-80	LTC	Cent #25	3,464.77	5,138.23	
83	77	45.32	9 5/8	47	HCL-80	LTC		3,510.09	5,092.91	
84	78	45.32	9 5/8	47	HCL-80	LTC		3,555.41	5,047.59	
85	79	45.32	9 5/8	47	HCL-80	LTC		3,600.73	5,002.27	
86	80	45.32	9 5/8	47	HCL-80	LTC	Cent #26	3,646.05	4,956.95	
87	81	45.30	9 5/8	47	HCL-80	LTC		3,691.35	4,911.65	
88	82	45.32	9 5/8	47	HCL-80	LTC		3,736.67	4,866.33	

7” Production Casing

							Well	Linam AGI #2	
							Date	10-Dec-14	
							Total Depth	9,234	
							Shoe Depth	9,204	
							Rathole	30	
								Total	Collar
Run Jt #	Unit #	Length	O.D.	Weight	Grade	Thread	Remarks	Length	Depth
1	F/S	1.60	7	26	HCL-80	LTC		1.60	9,202.40
2	1	45.78	7	26	HCL-80	LTC	(2) Cent 1 & 2	47.38	9,156.62
3	F/C	1.41	7	26	HCL-80	LTC		48.79	9,155.21
4	2	32.15	7	26	28 Cr	Vam Top	Cent #3	80.94	9,123.06
5	3	32.90	7	26	28 Cr	Vam Top		113.84	9,090.16
6	4	32.01	7	26	28 Cr	Vam Top	Cent #4	145.85	9,058.15
7	5	33.11	7	26	28 Cr	Vam Top		178.96	9,025.04
8	6	30.63	7	26	28 Cr	Vam Top	Cent #5	209.59	8,994.41
9	7	31.71	7	26	28 Cr	Vam Top		241.30	8,962.70
10	8	29.70	7	26	28 Cr	Vam Top	Cent #6	271.00	8,933.00
11	9	29.83	7	26	28 Cr	Vam Top		300.83	8,903.17
12	10	32.16	7	26	28 Cr	Vam Top	Cent #7	332.99	8,871.01
13	11	31.28	7	26	28 Cr	Vam Top		364.27	8,839.73
14	12	28.72	7	26	28 Cr	Vam Top		392.99	8,811.01
15	13	32.35	7	26	28 Cr	Vam Top	Cent #8	425.34	8,778.66
16	14	28.83	7	26	28 Cr	Vam Top		454.17	8,749.83
17	15	31.39	7	26	28 Cr	Vam Top		485.56	8,718.44
18	16	31.78	7	26	28 Cr	Vam Top	Cent #9	517.34	8,686.66
19	17	30.10	7	26	28 Cr	Vam Top		547.44	8,656.56
20	18	31.68	7	26	28 Cr	Vam Top		579.12	8,624.88
21	19	31.48	7	26	28 Cr	Vam Top		610.60	8,593.40
22	20	30.85	7	26	28 Cr	Vam Top	Cent #10	641.45	8,562.55
23	21	32.18	7	26	28 Cr	Vam Top		673.63	8,530.37
24	22	26.03	7	26	28 Cr	Vam Top		699.66	8,504.34
25	23	25.78	7	26	28 Cr	Vam Top		725.44	8,478.56
26	24	31.80	7	26	28 Cr	Vam Top	Cent #11	757.24	8,446.76
27	25	32.34	7	26	28 Cr	Vam Top		789.58	8,414.42
28	26	45.58	7	26	HCL-80	LTC		835.16	8,368.84
29	27	45.55	7	26	HCL-80	LTC		880.71	8,323.29
30	28	45.78	7	26	HCL-80	LTC	Cent #12	926.49	8,277.51
31	29	45.58	7	26	HCL-80	LTC		972.07	8,231.93
32	30	45.57	7	26	HCL-80	LTC		1,017.64	8,186.36
33	31	45.80	7	26	HCL-80	LTC		1,063.44	8,140.56
34	32	45.81	7	26	HCL-80	LTC	Cent #13	1,109.25	8,094.75
	DVT	2.70	7	26	HCL-80	LTC		1,111.95	8,092.05
35	33	45.57	7	26	HCL-80	LTC		1,157.52	8,046.48
36	34	45.57	7	26	HCL-80	LTC		1,203.09	8,000.91
37	35	45.60	7	26	HCL-80	LTC		1,248.69	7,955.31
38	36	45.79	7	26	HCL-80	LTC	Cent #14	1,294.48	7,909.52
39	37	45.57	7	26	HCL-80	LTC		1,340.05	7,863.95
40	38	45.63	7	26	HCL-80	LTC		1,385.68	7,818.32
41	39	45.60	7	26	HCL-80	LTC		1,431.28	7,772.72
42	40	45.60	7	26	HCL-80	LTC	Cent #15	1,476.88	7,727.12
43	41	45.60	7	26	HCL-80	LTC		1,522.48	7,681.52
44	42	45.61	7	26	HCL-80	LTC		1,568.09	7,635.91
45	43	45.64	7	26	HCL-80	LTC		1,613.73	7,590.27
46	44	45.61	7	26	HCL-80	LTC	Cent #16	1,659.34	7,544.66
47	45	45.59	7	26	HCL-80	LTC		1,704.93	7,499.07
48	46	45.58	7	26	HCL-80	LTC		1,750.51	7,453.49
49	47	45.59	7	26	HCL-80	LTC		1,796.10	7,407.90
50	48	45.57	7	26	HCL-80	LTC	Cent #17	1,841.67	7,362.33
51	49	45.62	7	26	HCL-80	LTC		1,887.29	7,316.71
52	50	45.63	7	26	HCL-80	LTC		1,932.92	7,271.08
53	51	45.29	7	26	HCL-80	LTC		1,978.21	7,225.79
54	52	45.79	7	26	HCL-80	LTC	Cent #18	2,024.00	7,180.00
55	53	45.58	7	26	HCL-80	LTC		2,069.58	7,134.42
56	54	45.58	7	26	HCL-80	LTC		2,115.16	7,088.84
57	55	45.28	7	26	HCL-80	LTC		2,160.44	7,043.56
58	56	45.61	7	26	HCL-80	LTC	Cent #19	2,206.05	6,997.95
59	57	44.99	7	26	HCL-80	LTC		2,251.04	6,952.96
60	58	45.28	7	26	HCL-80	LTC		2,296.32	6,907.68
61	59	45.59	7	26	HCL-80	LTC		2,341.91	6,862.09
62	60	44.37	7	26	HCL-80	LTC	Cent #20	2,386.28	6,817.72
63	61	44.57	7	26	HCL-80	LTC		2,430.85	6,773.15
64	62	44.58	7	26	HCL-80	LTC		2,475.43	6,728.57
65	63	44.58	7	26	HCL-80	LTC		2,520.01	6,683.99
66	64	45.80	7	26	HCL-80	LTC	Cent #21	2,565.81	6,638.19
67	65	45.61	7	26	HCL-80	LTC		2,611.42	6,592.58
68	66	45.62	7	26	HCL-80	LTC		2,657.04	6,546.96
69	67	45.61	7	26	HCL-80	LTC		2,702.65	6,501.35
70	68	45.60	7	26	HCL-80	LTC	Cent #22	2,748.25	6,455.75
71	69	45.60	7	26	HCL-80	LTC		2,793.85	6,410.15
72	70	45.62	7	26	HCL-80	LTC		2,839.47	6,364.53
73	71	45.62	7	26	HCL-80	LTC		2,885.09	6,318.91

74	72	45.80	7	26	HCL-80	LTC	Cent #23	2,930.89	6,273.11
75	73	45.80	7	26	HCL-80	LTC		2,976.69	6,227.31
76	74	45.75	7	26	HCL-80	LTC		3,022.44	6,181.56
77	75	45.81	7	26	HCL-80	LTC		3,068.25	6,135.75
78	76	45.82	7	26	HCL-80	LTC	Cent #24	3,114.07	6,089.93
79	77	45.68	7	26	HCL-80	LTC		3,159.75	6,044.25
80	78	45.63	7	26	HCL-80	LTC		3,205.38	5,998.62
81	79	45.61	7	26	HCL-80	LTC		3,250.99	5,953.01
82	80	45.83	7	26	HCL-80	LTC	Cent #25	3,296.82	5,907.18
83	81	45.64	7	26	HCL-80	LTC		3,342.46	5,861.54
84	82	45.63	7	26	HCL-80	LTC		3,388.09	5,815.91
85	83	45.61	7	26	HCL-80	LTC		3,433.70	5,770.30
86	84	45.82	7	26	HCL-80	LTC	Cent #26	3,479.52	5,724.48
87	85	45.63	7	26	HCL-80	LTC		3,525.15	5,678.85
88	86	45.59	7	26	HCL-80	LTC		3,570.74	5,633.26
89	87	45.65	7	26	HCL-80	LTC		3,616.39	5,587.61
90	88	45.63	7	26	HCL-80	LTC	Cent #27	3,662.02	5,541.98
91	89	45.62	7	26	HCL-80	LTC		3,707.64	5,496.36
92	90	45.62	7	26	HCL-80	LTC		3,753.26	5,450.74
93	91	45.60	7	26	HCL-80	LTC		3,798.86	5,405.14
94	92	45.59	7	26	HCL-80	LTC	Cent #28	3,844.45	5,359.55
95	93	45.60	7	26	HCL-80	LTC		3,890.05	5,313.95
96	94	45.63	7	26	HCL-80	LTC		3,935.68	5,268.32
97	95	45.84	7	26	HCL-80	LTC		3,981.52	5,222.48
98	96	45.62	7	26	HCL-80	LTC	Cent #29	4,027.14	5,176.86
99	97	45.65	7	26	HCL-80	LTC		4,072.79	5,131.21
100	98	45.83	7	26	HCL-80	LTC		4,118.62	5,085.38
101	99	45.84	7	26	HCL-80	LTC		4,164.46	5,039.54
102	100	45.88	7	26	HCL-80	LTC	Cent #30	4,210.34	4,993.66
103	101	45.82	7	26	HCL-80	LTC		4,256.16	4,947.84
104	102	45.62	7	26	HCL-80	LTC		4,301.78	4,902.22
105	103	45.60	7	26	HCL-80	LTC		4,347.38	4,856.62
106	104	45.82	7	26	HCL-80	LTC	Cent #31	4,393.20	4,810.80
107	105	45.61	7	26	HCL-80	LTC		4,438.81	4,765.19
108	106	45.58	7	26	HCL-80	LTC		4,484.39	4,719.61
109	107	45.55	7	26	HCL-80	LTC		4,529.94	4,674.06
110	108	45.28	7	26	HCL-80	LTC	Cent #32	4,575.22	4,628.78
111	109	45.28	7	26	HCL-80	LTC		4,620.50	4,583.50
112	110	45.29	7	26	HCL-80	LTC		4,665.79	4,538.21
113	111	45.57	7	26	HCL-80	LTC		4,711.36	4,492.64
114	112	45.57	7	26	HCL-80	LTC	Cent #33	4,756.93	4,447.07
115	113	45.56	7	26	HCL-80	LTC		4,802.49	4,401.51
116	114	45.56	7	26	HCL-80	LTC		4,848.05	4,355.95
117	115	45.28	7	26	HCL-80	LTC		4,893.33	4,310.67
118	116	45.25	7	26	HCL-80	LTC	Cent #34	4,938.58	4,265.42
119	117	45.22	7	26	HCL-80	LTC		4,983.80	4,220.20
120	118	44.90	7	26	HCL-80	LTC		5,028.70	4,175.30
121	119	44.92	7	26	HCL-80	LTC		5,073.62	4,130.38
122	120	44.89	7	26	HCL-80	LTC	Cent #35	5,118.51	4,085.49
123	121	44.95	7	26	HCL-80	LTC		5,163.46	4,040.54
124	122	44.95	7	26	HCL-80	LTC		5,208.41	3,995.59
125	123	44.93	7	26	HCL-80	LTC		5,253.34	3,950.66
126	124	45.23	7	26	HCL-80	LTC	Cent #36	5,298.57	3,905.43
127	125	45.18	7	26	HCL-80	LTC		5,343.75	3,860.25
128	126	45.21	7	26	HCL-80	LTC		5,388.96	3,815.04
129	127	45.20	7	26	HCL-80	LTC		5,434.16	3,769.84
130	128	45.22	7	26	HCL-80	LTC	Cent #37	5,479.38	3,724.62
131	129	45.21	7	26	HCL-80	LTC		5,524.59	3,679.41
132	130	45.46	7	26	HCL-80	LTC		5,570.05	3,633.95
133	131	45.21	7	26	HCL-80	LTC		5,615.26	3,588.74
134	132	45.34	7	26	HCL-80	LTC	Cent #38	5,660.60	3,543.40
135	133	45.16	7	26	HCL-80	LTC		5,705.76	3,498.24
136	134	45.21	7	26	HCL-80	LTC		5,750.97	3,453.03
137	135	45.20	7	26	HCL-80	LTC		5,796.17	3,407.83
138	136	45.18	7	26	HCL-80	LTC	Cent #39	5,841.35	3,362.65
139	137	44.90	7	26	HCL-80	LTC		5,886.25	3,317.75
140	138	45.19	7	26	HCL-80	LTC		5,931.44	3,272.56
141	139	45.23	7	26	HCL-80	LTC		5,976.67	3,227.33
142	140	45.28	7	26	HCL-80	LTC	Cent #40	6,021.95	3,182.05
143	141	45.23	7	26	HCL-80	LTC		6,067.18	3,136.82
144	142	45.45	7	26	HCL-80	LTC		6,112.63	3,091.37
145	143	45.81	7	26	HCL-80	LTC		6,158.44	3,045.56
146	144	45.83	7	26	HCL-80	LTC	Cent #41	6,204.27	2,999.73
147	145	45.60	7	26	HCL-80	LTC		6,249.87	2,954.13
148	146	45.70	7	26	HCL-80	LTC		6,295.57	2,908.43
149	147	45.60	7	26	HCL-80	LTC		6,341.17	2,862.83
150	148	45.61	7	26	HCL-80	LTC	Cent #42	6,386.78	2,817.22
151	149	45.82	7	26	HCL-80	LTC		6,432.60	2,771.40
152	150	45.63	7	26	HCL-80	LTC		6,478.23	2,725.77
153	151	45.68	7	26	HCL-80	LTC		6,523.91	2,680.09
154	152	45.62	7	26	HCL-80	LTC	Cent #43	6,569.53	2,634.47
155	153	45.61	7	26	HCL-80	LTC		6,615.14	2,588.86
156	154	45.59	7	26	HCL-80	LTC		6,660.73	2,543.27

157	155	45.56	7	26	HCL-80	LTC		6,706.29	2,497.71
158	156	45.78	7	26	HCL-80	LTC	Cent #44	6,752.07	2,451.93
159	157	45.87	7	26	HCL-80	LTC		6,797.94	2,406.06
160	158	45.58	7	26	HCL-80	LTC		6,843.52	2,360.48
161	159	45.59	7	26	HCL-80	LTC		6,889.11	2,314.89
162	160	45.58	7	26	HCL-80	LTC	Cent #45	6,934.69	2,269.31
163	161	45.57	7	26	HCL-80	LTC		6,980.26	2,223.74
164	162	45.56	7	26	HCL-80	LTC		7,025.82	2,178.18
165	163	45.63	7	26	HCL-80	LTC		7,071.45	2,132.55
166	164	45.57	7	26	HCL-80	LTC	Cent #46	7,117.02	2,086.98
167	165	45.58	7	26	HCL-80	LTC		7,162.60	2,041.40
168	166	45.59	7	26	HCL-80	LTC		7,208.19	1,995.81
169	167	45.57	7	26	HCL-80	LTC		7,253.76	1,950.24
170	168	45.58	7	26	HCL-80	LTC	Cent #47	7,299.34	1,904.66
171	169	45.58	7	26	HCL-80	LTC		7,344.92	1,859.08
172	170	45.59	7	26	HCL-80	LTC		7,390.51	1,813.49
173	171	45.63	7	26	HCL-80	LTC		7,436.14	1,767.86
174	172	45.62	7	26	HCL-80	LTC	Cent #48	7,481.76	1,722.24
175	173	45.59	7	26	HCL-80	LTC		7,527.35	1,676.65
176	174	45.64	7	26	HCL-80	LTC		7,572.99	1,631.01
177	175	45.30	7	26	HCL-80	LTC		7,618.29	1,585.71
178	176	45.29	7	26	HCL-80	LTC	Cent #49	7,663.58	1,540.42
179	177	45.28	7	26	HCL-80	LTC		7,708.86	1,495.14
180	178	45.58	7	26	HCL-80	LTC		7,754.44	1,449.56
181	179	45.59	7	26	HCL-80	LTC		7,800.03	1,403.97
182	180	45.60	7	26	HCL-80	LTC	Cent #50	7,845.63	1,358.37
183	181	45.62	7	26	HCL-80	LTC		7,891.25	1,312.75
184	182	45.61	7	26	HCL-80	LTC		7,936.86	1,267.14
185	183	45.68	7	26	HCL-80	LTC		7,982.54	1,221.46
186	184	45.62	7	26	HCL-80	LTC	Cent #51	8,028.16	1,175.84
187	185	45.59	7	26	HCL-80	LTC		8,073.75	1,130.25
188	186	45.59	7	26	HCL-80	LTC		8,119.34	1,084.66
189	187	45.61	7	26	HCL-80	LTC		8,164.95	1,039.05
190	188	45.62	7	26	HCL-80	LTC	Cent #52	8210.57	993.43
191	189	45.83	7	26	HCL-80	LTC		8256.4	947.60
192	190	45.64	7	26	HCL-80	LTC		8302.04	901.96
193	191	45.60	7	26	HCL-80	LTC		8347.64	856.36
194	192	45.68	7	26	HCL-80	LTC	Cent #53	8393.32	810.68
195	193	45.58	7	26	HCL-80	LTC		8438.9	765.10
196	194	45.57	7	26	HCL-80	LTC		8484.47	719.53
198	195	45.56	7	26	HCL-80	LTC		8530.03	673.97
199	196	45.55	7	26	HCL-80	LTC	Cent #54	8575.58	628.42
200	197	45.56	7	26	HCL-80	LTC		8621.14	582.86
201	198	45.78	7	26	HCL-80	LTC		8666.92	537.08
202	199	45.60	7	26	HCL-80	LTC		8712.52	491.48
203	200	45.57	7	26	HCL-80	LTC	Cent #55	8758.09	445.91
204	201	45.55	7	26	HCL-80	LTC		8803.64	400.36
205	202	45.79	7	26	HCL-80	LTC		8849.43	354.57
206	203	45.82	7	26	HCL-80	LTC		8895.25	308.75
207	204	45.78	7	26	HCL-80	LTC	Cent #56	8941.03	262.97
208	205	45.58	7	26	HCL-80	LTC		8986.61	217.39
209	206	45.59	7	26	HCL-80	LTC		9032.2	171.80
210	207	45.80	7	26	HCL-80	LTC		9078	126.00
211	208	45.57	7	26	HCL-80	LTC	Cent #57	9123.57	80.43
212	209	45.70	7	26	HCL-80	LTC		9169.27	34.73
	Hanger	10.50	7	26	HCL-80	LTC		9179.77	24.23
	LD Joint	25.00	7	26	HCL-80	LTC		9204.77	-0.77
		Out							
213	1	45.57							
214	2	45.58							
215	3	45.28							
216	4	45.58							
217	5	45.58							
218	6	45.57							
219	7	45.57							
220	8	45.55							
221	9	45.58							