

EL CAPITAN DAM

W
432

LEVEL BOOK

280

AREAS OF CROSS-SECTS

ITEM II

NORTH 3730 - 4070

432

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

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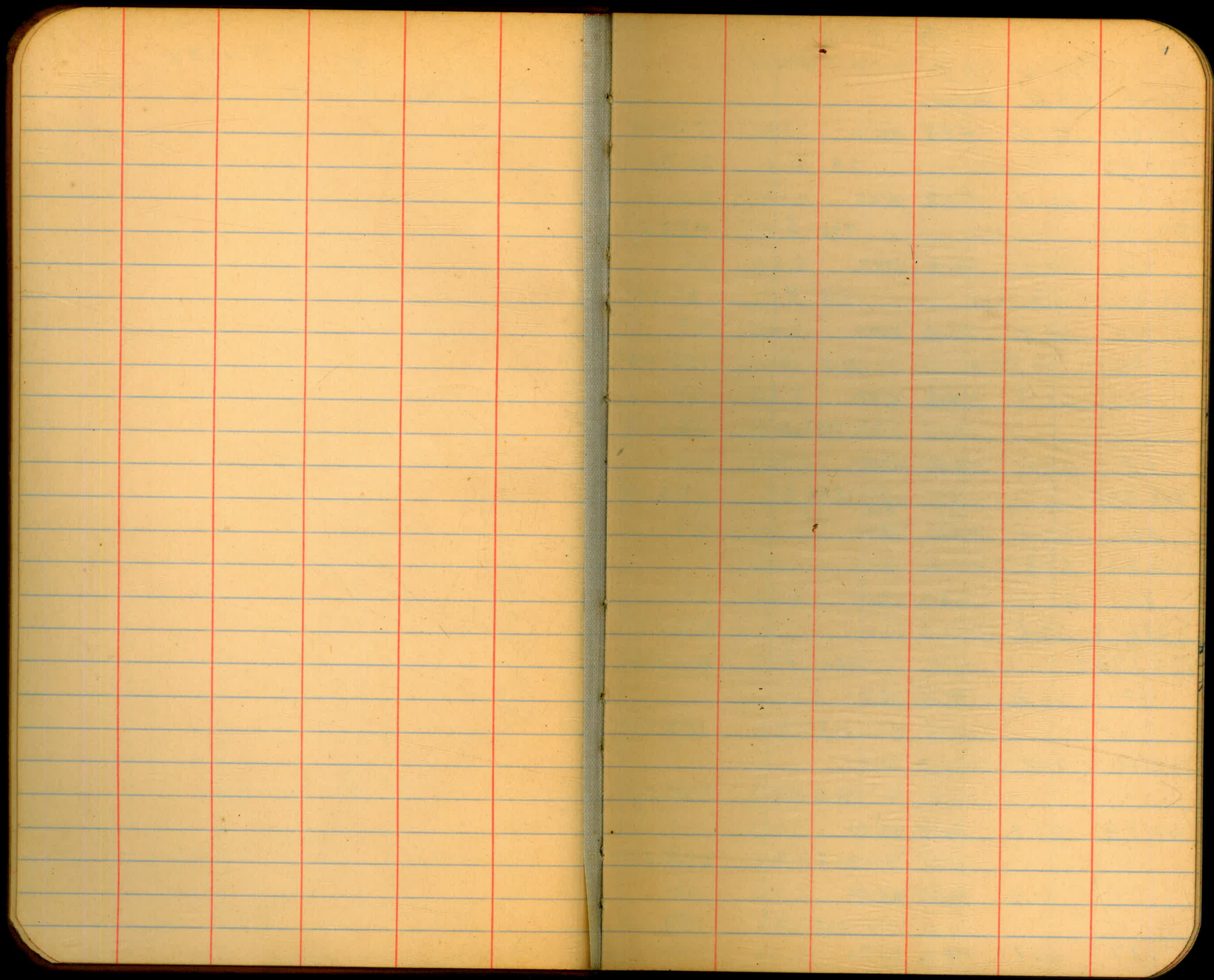
MICROFILMED

JAN 16 1965

• 432 INDEX

Area Tern II Cal.

2-62



N 3730

Below D.S. toe wall.

East	Top El.	Bottom			
4310	59.8	59.8	00		
				2.3	11 ✓
					25.30 ✓
21	60.4	55.8	4.6 ✓		
				9.25	5 ✓
					46.25 ✓
26	60.3	46.4	13.9 ✓		
				14.05	4 ✓
					56.20 ✓
30	60.2	46.0	14.2 ✓		
				15.5	10 ✓
					155.00 ✓
40	61.4	44.6	16.8 ✓		
				17.35	5 ✓
					86.75 ✓
45	61.4	43.5	17.9 ✓		
				18.1	5 ✓
					90.50 ✓
50	61.4	43.1	18.3 ✓		
60	61.3	42.6	18.7 ✓		
70	61.3	42.2	19.1 ✓		
80	61.4	41.2	20.2 ✓		
				20.0	7 ✓
					140.00 ✓
87	61.4	41.6	19.8 ✓		
				22.9	8 ✓
					183.20 ✓
95	61.3	35.3	26.0 ✓		
				26.25	10 ✓
					262.50 ✓
4405	61.3	34.8	26.5 ✓		
				26.5	9 ✓
					238.50 ✓
14	61.2	34.7	26.5 ✓		
				23.7	3 ✓
					71.10 ✓
17	61.1	40.2	20.9 ✓		

N 3730

Below D.S. toe wall.

4417	61.1	40.2	20.9 ✓		
				21.2	3 ✓
					63.60 ✓
20	61.0	39.5	21.5 ✓		
				21.4	10 ✓
					214.00 ✓
30	60.7	39.4	21.3 ✓		
				21.2	5 ✓
					106.10 ✓
35	60.7	39.6	21.1 ✓		
				21.85	5 ✓
					109.25 ✓
40	60.6	38.0	22.6 ✓		
50	60.4	38.6	21.8 ✓		
60	60.3	38.3	22.0 ✓		
70	60.4	42.0	18.4 ✓		
80	60.6	42.5	18.1 ✓		
				18.2	8 ✓
					145.60 ✓
88	60.8	42.5	18.3 ✓		
				18.6	16 ✓
					297.60 ✓
4504	60.6	41.7	18.9 ✓		
					3687.45 ✓
D.S. Rock Emb.					
04	60.6	41.7	18.9 ✓		
				19.05	6 ✓
					114.30 ✓
10	60.6	41.4	19.2 ✓		
20	60.7	41.2	19.5 ✓		
30	60.6	44.4	16.2 ✓		
40	60.6	44.2	16.4 ✓		
50	60.6	44.5	16.1 ✓		
60	60.3	47.3	13.0 ✓		

N 3730
D.S. R. E

4570	60.4	45.4	15.0	✓
80	60.2	45.3	14.9	✓
90	60.1	44.7	15.4	✓
4600	60.0	44.9	15.1	✓
10	59.8	49.2	10.6	✓
20	59.8	49.0	10.8	✓
30	59.7	49.4	10.3	✓
40	59.5	49.6	9.9	✓
50	59.6	49.9	9.7	✓
60	59.5	54.4	5.1	✓
70	59.5	59.3	0.2	✓
80	59.6	59.6	0.0	✓

114 30
2078.00 ✓
2192.30 ✓

Hydraulic Fill

4750	60.4	60.4	0.0	✓
1 60	61.8	61.0	0.8	✓
70	63.1	60.4	2.7	✓
80	62.3	60.5	1.8	✓
90	62.2	60.6	1.6	✓
4800	62.0	60.6	1.4	✓
10	62.5	59.4	3.1	✓
20	63.1	59.4	3.7	✓
30	63.2	59.2	4.0	✓
40	63.3	61.8	1.5	✓
50	63.2	62.4	0.8	✓
60	63.6	62.5	1.1	✓
70	63.7	62.7	1.0	✓

N 3730
Hyd. Fill

3

4880	63.7	63.6	0.1	✓
90	63.3	60.8	2.5	✓
4900	62.3	56.8	5.5	✓
10	60.9	54.9	6.0	✓
20	58.4	55.0	3.4	✓
30	56.7	53.6	3.1	✓
40	56.2	53.4	2.8	✓
50	55.9	52.0	3.9	✓
60	56.1	51.9	4.2	✓
65	55.6	51.2	4.4	✓
70	55.1	51.1	4.0	✓
80	55.3	50.9	4.4	✓
90	55.5	50.6	4.9	✓
5000	55.2	50.4	4.8	✓
10	54.7	50.1	4.6	✓
20	54.8	49.8	5.0	✓
30	54.4	49.2	5.2	✓
40	54.7	48.9	5.8	✓
50	54.7	48.7	6.0	✓
60	54.9	48.2	6.7	✓
70	54.7	47.8	6.9	✓
80	54.6	47.4	7.2	✓
90	54.8	47.4	7.4	✓
5100	54.6	47.9	6.7	✓

529.00 ✓

4.3 ✓ 5 ✓

21.50 ✓

4.2 ✓ 5 ✓

21.10 ✓

N 3730
Hyt. Fill

N 3730
U.S. R E

4

5110	54.7	47.8	6.9 ✓	
20	55.0	47.9	7.1 ✓	✓
30	55.0	48.0	7.0 ✓	951.00
				<u>U.S. Rock Emb 1522.60</u>
30	55.0	48.0	7.0 ✓	
40	54.9	48.9	6.0 ✓	
50	55.4	48.8	6.6 ✓	
60	56.3	48.5	7.8 ✓	
70	56.5	47.9	8.6 ✓	
80	56.6	47.3	9.3 ✓	
90	56.7	47.3	9.4 ✓	
5200	56.7	47.2	9.5 ✓	
10	56.8	47.4	9.4 ✓	
20	57.1	47.8	9.3 ✓	
30	57.0	48.1	9.9 ✓	
40	57.3	47.8	9.5 ✓	
50	58.3	48.5	9.8 ✓	
60	60.8	47.8	13.0 ✓	
70	61.3	47.5	13.8 ✓	
80	60.2	47.5	12.7 ✓	
90	60.3	47.5	12.8 ✓	
5300	60.9	47.5	12.7 ✓	
10	62.2	47.1	15.1 ✓	
20	62.9	47.6	15.3 ✓	
30	61.8	48.4	13.4 ✓	
40	61.5	47.7	13.8 ✓	

5350	61.2	48.3	12.9 ✓	
60	61.8	48.3	13.5 ✓	
70	61.2	47.9	13.3 ✓	
80	61.5	48.1	13.4 ✓	
90	61.1	47.4	13.7 ✓	
5400	61.4	47.4	14.0 ✓	
10	61.5	47.2	14.3 ✓	
20	61.5	47.0	14.5 ✓	
30	61.5	47.0	14.5 ✓	
40	61.0	47.0	14.0 ✓	
50	61.2	47.5	13.7 ✓	
60	61.5	48.8	12.7 ✓	
70	62.2	45.9	16.3 ✓	
80	62.3	42.3	20.0 ✓	4416.00
90	62.1	42.3	19.8 ✓	4406.00
			38.5 19.25	5 ✓ 96.25 ✓
95	61.4	42.7	18.7 ✓	4502.25
				4512.25 ✓
				Above U.S. toe wall
95	61.4	42.7	18.7 ✓	
			36.3 18.15	5 ✓ 90.75 ✓
5500	60.8	43.2	17.6 ✓	
			33.9 16.95	10 ✓ 169.50 ✓
10	60.6	44.3	16.3 ✓	
			31.8 15.9	3 ✓ 47.70 ✓
13	60.7	45.2	15.5 ✓	

N 3730

Above U.S. toe wall.

5573	60.7	45.2	15.5 ✓		
			^{32.1} 16.05 ✓ 7 ✓	112.35 ✓	
20	60.9	44.3	16.6 ✓		
30	60.7	45.8	14.9 ✓		
40	59.5	48.1	^{5.7} 11.4 ✓	290.00 ✓	
			^{21.3} 10.65 ✓ 4 ✓	42.60 ✓	
44	58.6	48.7	9.9 ✓		
			7.05 ✓ 6 ✓	42.30 ✓	
50	57.2	53.0	4.2 ✓		
			2.1 ✓ 5 ✓	10.50 ✓	
55	57.2	57.2	0.0 ✓	805.70 ✓	

N 3740

Below D.S. toe wall.

5

4310	61.1	61.1	0.0 ✓		
			3.5 ✓ 11 ✓		38.50 ✓
21	61.6	54.6	7.0 ✓		
			9.1 ✓ 2 ✓		18.20 ✓
23	61.7	50.5	11.2 ✓		
			7.9	13.5 ✓ 7 ✓	94.50 ✓
30	61.8	46.0	15.8 ✓		
40	61.6	44.4	17.2 ✓		
50	61.6	43.8	17.8 ✓		
60	61.5	43.3	18.2 ✓		
70	61.5	42.8	18.7 ✓		892.00 ✓
80	61.4	42.6	^{7.4} 18.8 ✓		
			18.8 ✓ 2 ✓		37.60 ✓
82	61.4	42.6	18.8 ✓		
			^{44.6} 22.3 ✓ 4 ✓		89.20 ✓
86	61.5	35.7	25.8 ✓		
			^{52.3} 26.15 ✓ 14 ✓		366.10 ✓
4400	61.5	35.0	26.5 ✓		
			26.4 ✓ 13 ✓		343.20 ✓
13	61.3	35.0	26.3 ✓		
			^{47.9} 23.95 ✓ 4 ✓		95.80 ✓
17	61.2	39.6	21.6 ✓		
			21.85 ✓ 3 ✓		65.55 ✓
20	61.2	39.1	22.1 ✓		
			21.6 ✓ 10 ✓		216.00 ✓
30	61.0	39.9	21.1 ✓		

N 3740
Below D.S. toe wall.

4430	61.0	39.9	21.1 ✓		
				21.75 ✓ 5 ✓	108.75 ✓
35	61.1	38.7	22.4 ✓		
				22.45 ✓ 5 ✓	112.25 ✓
40	61.2	38.7	22.5 ✓		
50	61.2	39.1	22.1 ✓		
60	60.7	39.3	21.4 ✓		
70	60.5	42.5	18.0 ✓		
80	60.4	43.1	17.3 ✓		814.00 ✓
				34.1 17.05 ✓ 5 ✓	85.25 ✓
85	60.4	43.6	16.8 ✓		
				17.3 ✓ 16 ✓	276.80 ✓
4501	60.5	42.7	17.8 ✓		3653.70 ✓
					D.S. Rock Emb.
01	60.5	42.7	17.8 ✓		
				17.4 ✓ 9 ✓	156.60 ✓
10	60.4	43.4	17.0 ✓		
20	60.5	45.3	15.2 ✓		
30	60.4	45.3	15.1 ✓		
40	60.3	45.7	14.6 ✓		
50	60.3	48.1	12.2 ✓		
60	60.3	49.7	10.6 ✓		
70	60.1	48.4	11.7 ✓		
80	60.0	46.8	13.2 ✓		
90	60.0	47.9	12.1 ✓		

N 3740
D S R E

6

4600	60.0	49.1	10.9 ✓		
10	60.0	49.6	10.4 ✓		
20	59.9	49.5	10.4 ✓		
30	59.6	49.7	9.9 ✓		
40	59.7	49.7	10.0 ✓		
50	59.7	44.9	14.8 ✓		
60	59.8	46.2	13.6 ✓		
70	60.4	47.5	12.9 ✓		
80	60.0	46.1	13.9 ✓		
90	60.1	60.1	0.0 ✓		2200.00 ✓
4707	61.8	61.8	0.0 ✓		
				0.45 ✓ 3 ✓	1.35 ✓
10	62.3	61.4	0.9 ✓		
20	62.5	61.1	1.4 ✓		
30	61.9	61.1	0.8 ✓		22.50 ✓
					Hydraulic Fill
30	61.9	61.1	0.8 ✓		2380.45 ✓
40	63.1	61.8	1.3 ✓		
50	63.5	61.5	2.0 ✓		
60	63.5	63.5	0.0 ✓		
4890	64.1	64.1	0.0 ✓		
4900	64.0	61.7	2.3 ✓		
10	63.3	59.3	4.0 ✓		
20	62.5	57.0	5.5 ✓		
30	61.1	54.4	6.7 ✓		

N 3740
Hyd Fill

H940	60.3	53.3	7.0 ✓	
50	57.7	52.7	5.0 ✓	
60	58.1	52.1	6.0 ✓	372.00
			6.0 ✓ 5 ✓	30.00 ✓
65	57.7	51.7	6.0 ✓	
			6.15 ✓ 5 ✓	30.75 ✓
70	57.3	51.0	6.3 ✓	
80	56.8	50.8	6.0 ✓	
90	56.5	50.5	6.0 ✓	
5000	55.7	50.2	5.5 ✓	
10	55.8	50.0	5.8 ✓	
20	53.9	49.8	4.1 ✓	285.00
			4.1 ✓ 3 ✓	12.30 ✓
23	54.0	49.9	4.1 ✓	
			4.6 ✓ 7 ✓	32.20 ✓
30	54.6	49.5	5.1 ✓	
40	54.5	49.1	5.4 ✓	
50	54.8	49.3	5.5 ✓	
60	54.8	48.8	6.0 ✓	
70	54.8	48.7	6.1 ✓	
80	54.9	48.5	6.4 ✓	
90	54.9	48.0	6.9 ✓	
5100	55.0	49.0	6.0 ✓	
10	55.2	48.4	6.8 ✓	
20	55.2	48.2	7.0 ✓	619.50 ✓
30	55.2	48.6	6.6 ✓	1381.75

N 3740
US Rock Emb.

5130	55.2	48.6	6.6 ✓	
40	55.0	48.8	6.2 ✓	
50	55.3	48.7	6.6 ✓	
60	54.9	48.4	6.5 ✓	
70	55.1	47.9	7.2 ✓	
80	56.0	47.5	8.5 ✓	
90	56.4	47.0	9.4 ✓	
5200	56.2	47.3	8.9 ✓	
10	56.5	47.7	8.8 ✓	
20	56.6	47.2	9.4 ✓	
30	56.4	47.0	9.4 ✓	
40	56.6	47.1	9.5 ✓	
50	56.5	48.4	8.1 ✓	
60	56.6	47.3	9.3 ✓	
70	56.8	46.9	9.9 ✓	
80	56.6	47.3	9.3 ✓	
90	57.1	47.1	10.0 ✓	
5300	58.2	47.2	11.0 ✓	
10	58.8	47.0	11.8 ✓	
20	59.6	47.8	11.8 ✓	
30	59.7	48.0	11.7 ✓	
40	59.9	48.3	11.6 ✓	
50	59.9	48.3	11.6 ✓	
60	60.2	48.0	12.2 ✓	
70	60.5	47.9	12.6 ✓	
80	61.0	47.7	13.3 ✓	

N 3740
USRE

5390	61.2	47.6	13.6	✓
5400	61.2	47.4	13.8	✓
10	60.7	47.4	13.3	✓
20	59.9	47.4	12.5	✓
30	60.2	47.5	12.7	✓
40	60.8	47.5	13.3	✓
50	61.4	47.5	13.9	✓
60	60.0	47.4	10.6	✓
70	59.9	48.7	11.2	✓
80	59.6	42.4	17.2	✓
90	59.4	42.6	16.8	✓

3884.00

16.5[↓] 7[↓] 115.50[↓]

97 59.4 43.2 16.2 ✓ 3999.50[↓]

Above US toe wall

97 59.4 43.2 16.2 ✓

15.15[↓] 15[↓] 227.25[↓]

5512 59.0 44.9 14.1 ✓

13.7[↓] 4[↓] 54.80[↓]

16 58.9 45.6 13.3 ✓

13.05[↓] 4[↓] 52.20[↓]

20 58.8 46.0 12.8 ✓

30 57.2 47.2 10.0 ✓

40 57.2 48.4 8.8 ✓

8.7[↓] 2[↓] 17.40[↓]

42 57.2 48.6 8.6 ✓

N 3740
Above US toe wall 8

5542 57.2 48.6 8.6 ✓

43[↓] 13[↓] 55.90[↓]

55 57.6 57.6 0.0 ✓

407.55[↓]

N 3750
Below D.S. toe wall. □

4310	61.5	61.5	0.0	✓	
			3.55	✓ 12	42.60
22	61.5	54.4	7.1	✓	
			11.15	✓ 8	89.20
30	61.4	46.2	15.2	✓	
40	61.7	45.2	16.5	✓	
50	61.7	44.9	16.8	✓	
60	61.7	44.1	17.6	✓	
70	61.6	43.5	18.1	✓	675.50
			17.9	✓ 8	143.20
78	61.7	44.0	17.7	✓	
			21.15	✓ 5	108.75
83	61.7	35.9	25.8	✓	
			25.65	✓ 7	179.55
90	61.6	36.1	25.5	✓	
			25.8	✓ 10	258.00
4400	61.8	35.7	26.1	✓	
			25.7	✓ 13	334.10
13	61.5	36.2	25.3	✓	
			23.15	✓ 4	92.60
17	61.5	40.5	21.0	✓	
			20.4	✓ 13	265.20
30	61.3	41.5	19.8	✓	
			19.6	✓ 5	98.00
35	61.3	41.9	19.4	✓	

N 3750
Below D.S. toe wall. □

4435	61.3	41.9	19.4	✓	
			19.85	✓ 5	99.25
40	61.3	41.0	20.3	✓	
			10.15		
50	61.3	41.2	20.1	✓	
60	61.2	42.0	19.2	✓	
70	61.0	45.1	15.9	✓	574.00
			15.85	✓ 13	206.05
83	60.5	44.7	15.8	✓	
			16.15	✓ 15	242.25
98	60.6	44.1	16.5	✓	3408.25

D.S. Rock Emb.

98	60.6	44.1	16.5	✓	
			15.55	✓ 12	186.60
4510	60.4	45.8	14.6	✓	
			7.3		
20	60.4	45.9	14.5	✓	
30	60.1	46.4	13.7	✓	
40	60.2	47.3	12.9	✓	
50	60.2	47.5	12.7	✓	
60	60.0	50.9	9.1	✓	
70	60.1	50.3	9.8	✓	
80	60.0	50.8	9.2	✓	
90	60.1	50.9	9.2	✓	
4600	60.6	50.7	9.9	✓	
10	60.8	50.8	10.0	✓	
20	60.9	51.0	9.9	✓	

N 3750
D S R E

4630	60.9	52.6	8.3 ✓
40	61.2	54.2	7.0 ✓
50	61.0	56.5	4.5 ✓
60	62.1	62.1	0.0 ✓

1480.00

4692	64.0	64.0	0.0 ✓
------	------	------	-------

1.75 8 ✓

14.00

4700	66.5	63.0	3.5 ✓
------	------	------	-------

1.75

10	70.8	62.6	8.2 ✓
----	------	------	-------

20	66.8	62.6	4.2 ✓
----	------	------	-------

30	64.0	62.7	1.3 ✓
----	------	------	-------

40	64.6	64.6	0.0 ✓
----	------	------	-------

154.50

1835.10

Hydraulic Fill

4780	67.8	67.8	0.0 ✓
------	------	------	-------

90	70.2	68.7	1.5 ✓
----	------	------	-------

4800	71.2	69.8	1.4 ✓
------	------	------	-------

10	71.7	71.7	0.0 ✓
----	------	------	-------

4900	69.0	69.0	0.0 ✓
------	------	------	-------

10	63.4	62.4	1.0 ✓
----	------	------	-------

20	63.9	59.0	4.9 ✓
----	------	------	-------

30	63.6	56.6	7.0 ✓
----	------	------	-------

40	63.2	54.0	9.2 ✓
----	------	------	-------

50	62.5	53.6	8.9 ✓
----	------	------	-------

60	62.1	62.1	0.0 ✓
----	------	------	-------

N 3750
Hyd. Fill.

10

4700	66.5	63.0	3.5 ✓
------	------	------	-------

60	60.7	52.9	7.8 ✓
----	------	------	-------

70	58.9	52.1	6.8 ✓
----	------	------	-------

80	58.8	51.8	7.0 ✓
----	------	------	-------

90	57.3	51.1	6.2 ✓
----	------	------	-------

5000	57.1	50.6	6.5 ✓
------	------	------	-------

10	56.3	50.0	6.3 ✓
----	------	------	-------

20	55.9	49.6	6.3 ✓
----	------	------	-------

3.15

6.35 4 ✓

24	55.7	49.3	6.4 ✓
----	------	------	-------

6.0 6 ✓

30	55.4	49.8	5.6 ✓
----	------	------	-------

2.8

40	54.7	49.2	5.5 ✓
----	------	------	-------

50	53.4	49.2	4.2 ✓
----	------	------	-------

60	54.4	49.3	5.1 ✓
----	------	------	-------

70	55.1	49.1	6.0 ✓
----	------	------	-------

80	54.9	49.0	5.9 ✓
----	------	------	-------

90	54.9	48.7	6.2 ✓
----	------	------	-------

5100	55.1	49.3	5.8 ✓
------	------	------	-------

10	55.1	48.8	6.3 ✓
----	------	------	-------

20	55.1	48.8	6.3 ✓
----	------	------	-------

30	55.1	49.7	5.4 ✓
----	------	------	-------

2.7

568.00
1405.90

N 3750
U S Rock Emb.

5730	55.1	49.7	^{2.7} 5.4 ✓
40	55.3	49.0	6.3 ✓
50	55.1	49.1	6.0 ✓
60	55.2	48.9	6.3 ✓
70	55.4	47.9	7.5 ✓
80	54.6	47.1	7.5 ✓
90	55.0	46.7	8.3 ✓
5200	55.0	47.1	7.9 ✓
10	55.8	47.6	8.2 ✓
20	56.0	47.1	8.9 ✓
30	55.4	46.5	8.9 ✓
40	55.7	47.2	8.5 ✓
50	55.7	48.0	7.7 ✓
60	55.9	46.9	9.0 ✓
70	56.3	46.3	10.0 ✓
80	56.5	46.5	10.0 ✓
90	56.5	46.9	9.6 ✓
5300	56.6	47.2	9.4 ✓
10	57.0	47.3	9.7 ✓
20	57.9	48.7	9.2 ✓
30	58.2	49.3	8.9 ✓
40	58.7	48.0	10.7 ✓
50	58.9	48.3	10.6 ✓
60	59.2	48.2	11.0 ✓
70	59.4	48.5	10.9 ✓

N 3750
U S R E

5380	59.5	47.3	12.2 ✓
90	59.0	48.7	10.3 ✓
5400	58.7	48.0	10.7 ✓
10	58.4	47.5	10.9 ✓
20	57.9	47.8	10.1 ✓
30	56.6	47.8	8.8 ✓
40	56.4	47.6	8.8 ✓
50	57.0	48.2	8.8 ✓
60	56.2	50.2	6.0 ✓
70	57.3	48.5	8.8 ✓
80	57.3	49.8	13.5 ✓
90	57.0	42.5	^{7.25} 14.5 ✓
		²⁷⁶ 13.8 ✓	91
			3298.50
			124.20
99	57.1	44.0	13.1 ✓
			3422.70 ✓
			Above U S toe wall
99	57.1	44.0	13.1 ✓
			12.45 ✓ 15 ✓
			186.75
5514	57.0	45.2	11.8 ✓
			11.05 ✓ 6 ✓
			66.30
20	56.8	46.5	10.3 ✓
			10.2 ✓ 10 ✓
			102.00
30	57.3	47.2	10.1 ✓
			9.8 ✓ 9 ✓
			88.20
39	57.3	47.8	9.5 ✓
			4.75 ✓ 14 ✓
			66.50
53	57.3	57.3	0.0 ✓
			509.75

N 3760
Below D 5 toe wall

4320	61.6	61.6	0.0	✓		
					3.3	4
24	61.6	55.0	6.6	✓	13.20	
					10.85	11
35	61.7	46.6	15.1	✓	119.35	
					15.7	5
40	61.7	45.4	8.15	✓	78.75	
			16.3	✓		
50	62.0	45.1	16.9	✓		
60	62.0	44.8	17.2	✓		
70	61.9	44.2	8.85	✓	511.0	
					17.75	5
75	61.9	44.1	17.8	✓	88.75	
					21.5	6
81	61.9	36.7	25.2	✓	129.00	
					25.5	19
4400	62.0	36.2	25.8	✓	484.50	
					25.45	14
14	61.8	36.7	25.1	✓	356.30	
					22.3	4
18	61.7	42.2	19.5	✓	89.20	
					19.0	12
30	61.7	43.2	1.25	✓	228.00	
			18.5	✓		
40	61.6	44.8	16.8	✓		
50	61.6	43.8	17.8	✓		
60	61.5	44.8	16.7	✓		
70	61.1	46.3	14.8	✓		

N 3760
Below D 5 toe wall

4480	61.0	45.8	15.2	✓		
90	60.8	46.2	7.3	✓	978.50	
					14.35	5
95	60.6	46.5	14.1	✓	71.75	
					2637.30	
					3148.30	
					Downstream Rock Emb.	
95	60.6	46.5	14.1	✓		
					14.1	5
4500	60.4	46.3	7.55	✓	70.50	
			14.1	✓		
10	60.2	46.0	14.2	✓		
20	60.2	46.7	13.5	✓		
30	60.4	46.7	13.7	✓		
40	60.5	47.7	12.8	✓		
50	61.0	48.8	12.2	✓		
60	61.3	49.8	11.5	✓		
70	61.9	51.7	10.2	✓		
80	62.0	51.5	10.5	✓		
90	62.4	51.4	11.0	✓		
4600	62.2	51.7	10.5	✓		
10	62.3	57.1	5.2	✓		
20	62.5	58.2	4.3	✓		
30	63.0	61.4	1.6	✓		
40	63.3	63.3	0.0	✓		
4690	66.2	66.2	0.0	✓		
4700	71.4	67.5	3.9	✓	1500.50	
10	76.4	69.0	7.4	✓	1571.00	
20	70.6	70.6	0.0	✓		

N 3760
Hydraulic Fill.

4760	71.0	71.0	0.0	✓
70	74.0	72.1	1.9	✓
80	73.8	72.1	1.7	✓
90	73.7	71.3	2.4	✓
4800	75.2	70.8	4.4	✓
10	77.6	71.7	5.9	✓
20	77.6	72.5	5.1	✓
30	77.4	72.7	4.7	✓
40	75.7	72.9	2.8	✓
50	75.8	72.9	2.9	✓
60	75.4	73.2	2.2	✓
70	73.5	73.5	0.0	✓
4910	64.9	64.9	0.0	✓
20	64.7	61.6	3.1	✓
30	64.6	59.1	5.5	✓
40	64.5	56.1	8.4	✓
50	63.9	55.0	8.9	✓
60	62.2	55.7	6.5	✓
			7.05	4 ✓
64	62.2	54.6	7.6	✓
			8.1	2 ✓
66	62.2	53.6	8.6	✓
			8.8	4 ✓
70	62.2	53.2	9.0	✓
80	61.7	52.7	9.0	✓
90	60.5	52.0	8.5	✓

631.50

28.20

16.20

35.20

N 3760
Hyd. Fill.

13

5000	58.7	51.4	7.3	✓
10	57.9	50.8	7.1	✓
20	57.4	50.4	7.0	✓
30	56.7	50.1	6.6	✓
40	56.1	49.4	6.7	✓
50	56.1	49.8	6.3	✓
60	55.4	49.7	5.7	✓
70	55.2	49.7	5.5	✓
80	54.7	49.8	4.9	✓
90	55.1	49.3	5.8	✓
5100	55.2	49.6	5.6	✓
10	55.2	49.5	5.7	✓
20	55.2	49.7	5.5	✓
30	55.2	50.3	4.9	✓

1041.50

1752.60 ✓

U S Rock Emb.

30	55.2	50.3	4.9	✓
40	55.2	49.4	5.8	✓
50	55.1	49.4	5.7	✓
60	55.2	49.4	5.8	✓
70	55.4	49.2	6.2	✓
80	55.3	48.2	7.1	✓
90	55.3	47.4	7.9	✓
5200	55.1	46.5	8.6	✓
10	55.4	46.5	8.9	✓
20	55.5	46.4	9.1	✓
30	55.5	46.8	8.7	✓

N 3760
USRE

5240	55.5	46.6	8.9 ✓
50	55.7	47.0	8.7 ✓
60	55.7	46.7	9.0 ✓
70	55.8	46.2	9.6 ✓
80	56.7	46.7	10.0 ✓
90	56.7	47.4	9.3 ✓
5300	56.6	49.0	7.6 ✓
10	56.4	48.4	8.0 ✓
20	56.8	48.9	7.9 ✓
30	56.9	48.9	8.0 ✓
40	56.9	48.4	8.5 ✓
50	57.0	48.7	8.3 ✓
60	57.5	48.3	9.2 ✓
70	57.6	48.0	9.6 ✓
80	57.5	47.5	10.0 ✓
90	57.2	48.8	8.4 ✓
5400	57.1	48.5	8.6 ✓
10	56.4	48.1	8.3 ✓
20	56.6	48.0	8.6 ✓
30	56.8	48.3	8.5 ✓
40	56.8	48.3	8.5 ✓
50	56.6	49.1	7.5 ✓
60	56.8	51.1	5.7 ✓
70	56.9	51.3	5.6 ✓
80	56.9	45.4	11.5 ✓
90	56.8	44.0	12.8 ✓

N 3760
USRE

14

5500	56.7	44.3	12.4 ✓	3090.50
Above US toe wall				
5500	56.7	44.3	12.4 ✓	
			11.95 ✓ 15 ✓	179.25
15	57.1	45.6	11.5 ✓	
			10.95 ✓ 5 ✓	54.75
20	57.1	46.7	10.4 ✓	
			10.05 ✓ 10 ✓	100.50
30	57.0	47.3	9.7 ✓	
			9.65 ✓ 5 ✓	48.25
35	57.1	47.5	9.6 ✓	
			4.8 ✓ 14 ✓	67.20
49	57.1	57.1	0.0 ✓	449.95

N 3770
Below D.S. toe wall

East	Top El	Bottom	Ht	Mean Dist
4312	61.5	61.5	0.0	✓
			1.6	8 ✓
20	61.8	58.6	3.2	✓
			9.8	20 ✓
40	62.0	45.6	16.4	✓
50	62.1	45.2	16.9	✓
60	62.5	44.6	17.9	✓
			18.0	13 ✓
73	62.3	44.2	18.1	✓
			21.4	5 ✓
78	62.3	37.6	24.7	✓
			25.0	12 ✓
90	62.4	37.1	25.3	✓
			25.35	10 ✓
1400	62.4	37.0	25.4	✓
			25.05	8 ✓
08	62.2	37.5	24.7	✓
			22.6	9 ✓
17	62.1	41.6	20.5	✓
			20.7	4 ✓
21	62.1	41.2	20.9	✓
			18.5	9 ✓
30	61.9	45.8	16.1	✓
40	62.0	46.9	15.1	✓
50	61.9	46.9	15.0	✓

N 3770
Below DS toe wall ¹⁵

4460	61.5	48.4	13.1	✓
70	61.5	48.1	13.4	✓
			13.45	6 ✓
76	61.6	48.1	13.5	✓
			14.65	16 ✓
92	62.2	46.4	15.8	✓
			15.8	1
			16.15	8 ✓
			16.5	✓
10	62.3	46.0	16.3	✓
20	62.7	48.7	14.0	✓
30	62.5	49.8	12.7	✓
40	62.7	55.6	7.1	✓
50	63.3	52.1	11.2	✓
60	63.3	54.4	8.9	✓
70	63.3	54.7	8.6	✓
80	63.2	55.7	7.5	✓
90	63.2	55.9	7.3	✓
1600	63.4	58.3	5.1	✓
10	63.6	62.3	1.3	✓
20	63.8	63.8	0.0	✓
4640	64.2	64.2	0.0	✓
50	65.5	63.6	1.9	✓
60	67.5	63.9	3.6	✓

DS Rock Emb

3007.50

N 3770
D S R E

4670	67.9	63.5	4.4 ✓
80	70.0	64.5	5.9 ✓
90	71.4	65.8	5.6 ✓
4700	74.1	67.6	6.5 ✓
10	76.8	69.2	7.6 ✓
Hydraulic Fill.			
10	76.8	69.2	7.6 ✓
20	76.4	72.0	4.4 ✓
30	75.0	71.8	3.2 ✓
40	76.0	71.6	4.4 ✓
50	75.3	71.8	3.5 ✓
60	77.4	72.0	5.4 ✓
70	78.4	72.2	6.2 ✓
80	78.3	72.4	5.9 ✓
90	79.5	73.1	6.4 ✓
4800	79.7	73.5	6.2 ✓
10	81.5	74.6	6.9 ✓
20	82.6	76.9	5.7 ✓
30	84.1	79.6	4.5 ✓
40	83.4	78.0	5.4 ✓
50	82.9	77.1	5.8 ✓
60	81.2	75.6	5.6 ✓
70	81.9	74.7	7.2 ✓
80	81.4	74.5	6.9 ✓
90	82.1	74.6	7.5 ✓

12920
1399.50
1528.70

N 3770
Hyd. Fill

16

4900	77.1	74.9	2.2 ✓	1.1 ✓	1060.00
				1.1 ✓ 5 ✓	5.50
05	75.0	75.0	0.0 ✓		
				0.35 ✓ 5 ✓	1.75
10	73.0	72.3	0.7 ✓	0.35	
20	67.9	67.6	0.3 ✓		
30	68.8	65.1	3.7 ✓		
40	67.9	60.4	7.5 ✓		
50	67.1	57.9	9.2 ✓		
60	67.6	57.2	10.4 ✓	5.2	262.50
				9.9 ✓ 6 ✓	59.40
66	65.8	56.4	9.4 ✓		
				8.95 ✓ 4 ✓	35.80
70	64.6	56.1	8.5 ✓	4.25	
80	63.6	55.4	8.2 ✓		
90	62.4	54.7	7.7 ✓		
5000	61.4	54.0	7.4 ✓		
10	59.5	53.3	6.2 ✓	3.1	306.50
				6.25 ✓ 8 ✓	50.00
18	58.9	52.6	6.3 ✓		
				6.15 ✓ 12 ✓	73.80
30	57.9	51.9	6.0 ✓	3.0	
40	57.4	51.5	5.9 ✓		
50	56.7	52.5	4.2 ✓		
60	56.2	51.1	5.1 ✓		

N3770
Hyt. Fill

N3770
USRE

17

5070	55.7	50.7	^{5.0} 5.7
80	55.7	50.6	5.1 ✓
90	54.5	50.5	4.0 ✓
5100	54.6	50.7	3.9 ✓
10	55.2	50.2	5.0 ✓
20	55.2	50.7	4.5 ✓
30	55.3	51.1	^{2.1} 4.2 ✓
U.S. Rock Emb			
30	55.3	51.1	^{2.1} 4.2 ✓
40	55.3	50.4	4.9 ✓
50	55.3	50.3	5.0 ✓
60	55.3	50.2	5.1 ✓
70	55.3	50.4	4.9 ✓
80	55.2	49.9	5.3 ✓
90	55.5	48.0	7.5 ✓
5200	55.4	46.7	8.7 ✓
10	55.3	45.8	9.5 ✓
20	55.6	45.9	9.7 ✓
30	55.8	47.4	8.4 ✓
40	55.6	49.8	5.8 ✓
50	55.7	48.9	6.8 ✓
60	55.9	47.7	8.2 ✓
70	56.0	48.8	7.2 ✓
80	55.4	49.6	5.8 ✓
90	55.8	49.7	6.1 ✓

478.00
485.00
~~2340.25~~
2333.25

5300	55.9	49.7	6.2 ✓
10	56.3	50.3	6.0 ✓
20	56.3	49.7	6.6 ✓
30	56.4	49.5	6.9 ✓
40	56.5	49.3	7.2 ✓
50	56.6	49.2	7.4 ✓
60	56.6	48.4	8.2 ✓
70	56.4	47.8	8.6 ✓
80	56.4	47.8	8.6 ✓
90	56.4	48.2	8.2 ✓
5400	56.5	49.8	6.7 ✓
10	56.7	48.8	7.9 ✓
20	56.7	48.6	8.1 ✓
30	57.0	48.6	8.4 ✓
40	56.9	49.0	7.9 ✓
50	57.2	49.3	7.9 ✓
60	56.9	51.2	5.7 ✓
70	57.0	53.2	3.8 ✓
80	57.1	48.3	8.8 ✓
90	56.9	47.5	^{5.05} 9.4 ✓
5500	57.0	46.9	10.1 ✓
03	57.0	46.0	11.0 ✓

10.55 | 3

2645.50

31.65

2677.15 ✓

N 3770
Above U.S. toe wall.

N 3780
Below D 5 toe wall.

18

5503	57.0	46.0	11.0	✓		
					11.0	14 ✓
						154.00
17	57.0	46.0	11.0	✓		
					10.35	3 ✓
						31.05
20	57.0	47.3	9.7	✓		
					9.45	10 ✓
						94.50
30	57.1	47.9	9.2	✓		
					9.2	3 ✓
						27.60
33	57.1	47.9	9.2	✓		
					4.6	15 ✓
						69.00
#8	57.4	57.4	0.0	✓		
						376.15

4320	61.8	61.8	0.0	✓		
					1.75	5 ✓
						8.75
25	61.9	58.4	3.5	✓		
					9.05	15 ✓
						135.75
40	62.3	47.7	14.6	✓		
					7.3	
50	62.6	45.6	17.0	✓		
60	62.7	46.0	16.7	✓		
70	63.0	45.3	17.7	✓		
80	62.9	45.0	17.9	✓		
90	62.8	44.5	18.3	✓		
					8.6	
						1035.00
					4.06	20.3 ✓
						81.20
04	62.8	39.4	23.4	✓		
					23.45	10 ✓
						234.50
14	62.7	39.2	23.5	✓		
					38.9	19.45 ✓
						4 ✓
						77.80
18	62.6	47.2	15.4	✓		
					29.0	14.5 ✓
						12 ✓
						174.00
30	62.4	48.8	13.6	✓		
					6.8	
40	63.1	49.4	13.7	✓		
50	62.0	49.8	12.2	✓		
60	62.3	49.5	12.8	✓		
					6.4	
						391.00
					13.1	13 ✓
						170.30
73	62.7	49.3	13.4	✓		
					15.05	15 ✓
						225.75
88	63.1	46.4	16.7	✓		
						2534.05

N3780
D.S. Rock Emb.

4488	63.1	46.4	16.7 ^v		
				16.7 ^v	12 ^v
					200.40
4500	63.1	46.4	16.7 ^v		
			8.35		
10	63.2	47.5	15.7 ^v		
20	63.0	50.2	12.8 ^v		
30	62.5	53.9	8.6 ^v		
40	63.3	56.0	7.3 ^v		
50	63.5	57.4	6.1 ^v		
60	63.3	60.4	2.9 ^v		
70	63.4	62.0	1.4 ^v		
80	63.6	60.2	2.4 ^v		
90	63.7	60.7	3.0 ^v		
4600	63.8	62.4	1.4 ^v		
10	65.0	65.0	0.0 ^v		
20	65.8	65.6	0.2 ^v		
30	69.2	66.4	2.8 ^v		
40	69.2	65.6	3.6 ^v		
50	70.1	66.0	4.1 ^v		
60	72.3	67.1	5.2 ^v		
70	79.9	68.0	5.9 ^v		
80	75.3	69.5	5.8 ^v		
90	76.5	70.4	6.1 ^v		
4700	77.2	71.4	5.8 ^v		
10	78.1	71.7	6.4 ^v		
					1126.50
					1326.90 ^v

N3780
Hydraulic Fill.

19

4710	78.1 ^v	71.7	3.2 ^v		
			6.4 ^v		
20	78.8	72.5	6.3 ^v		
30	79.4	72.3	7.1 ^v		
40	79.7	72.4	7.3 ^v		
50	80.7	74.0	6.7 ^v		
60	82.1	75.5	6.6 ^v		
70	73.0	73.0	0.0 ^v		
80	84.0	82.4	1.6 ^v		
90	87.4	86.0	1.4 ^v		
4800	88.7	84.3	4.4 ^v		
10	88.6	85.6	3.0 ^v		
20	87.4	87.4	0.0 ^v		
4850	89.3	89.3	0.0 ^v		
60	87.3	86.7	0.6 ^v		
70	88.0	84.1	3.9 ^v		
80	88.3	81.0	7.3 ^v		
90	88.6	80.0	4.3 ^v		
			8.6 ^v		637.09
			7.7 ^v	5 ^v	38.50
95	86.2	79.4	6.8 ^v		
			8.35 ^v	2 ^v	16.70
97	85.3	75.4	9.9 ^v		
			7.1 ^v	13 ^v	92.30
4910	79.4	75.1	2.15 ^v		
			4.3 ^v		
20	75.3	75.2	0.1 ^v		
30	74.6	69.4	5.2 ^v		

N 3780
Hyd. Fill.

4940	74.4	67.9	6.5 ^v	
50	73.6	64.8	8.8 ^v	
60	67.8	61.2	6.6 ^v	
70	67.0	60.0	7.0 ^v	
80	65.9	58.9	7.0 ^v	
90	63.6	57.8	5.8 ^v	
5000	62.7	56.7	6.0 ^v	
10	62.4	55.7	6.7 ^v	585.00
			6.7 ^v 5	33.50
15	62.3	55.6	6.7 ^v	
			6.65 ^v 5	33.25
20	62.2	55.6	6.6 ^v	
30	59.7	55.5	4.2 ^v	
40	57.7	54.7	3.0 ^v	
50	58.0	53.5	4.5 ^v	
60	57.1	52.1	5.0 ^v	
70	56.6	51.8	4.8 ^v	
80	56.7	51.5	5.2 ^v	
90	56.4	51.4	5.0 ^v	
5100	54.6	51.0	3.6 ^v	
10	55.3	50.9	4.4 ^v	
20	55.7	51.3	4.4 ^v	
30	55.9	51.6	4.3 ^v	

495.50
1931.75
1931.84

N 3780
U S Rock Emb.

5130	55.9	51.6	4.3 ^v	2.15
40	55.4	51.9	3.5 ^v	
50	55.8	51.0	4.8 ^v	
60	55.9	50.9	5.0 ^v	
70	55.6	51.0	4.6 ^v	
80	55.6	50.9	4.7 ^v	
90	55.5	50.3	5.2 ^v	
5200	55.6	47.7	7.9 ^v	
10	55.6	46.4	9.2 ^v	
20	55.6	46.6	9.0 ^v	
30	55.4	50.9	4.5 ^v	
40	55.6	50.7	4.9 ^v	
50	55.6	50.1	5.5 ^v	
60	55.7	51.9	3.8 ^v	
70	55.7	51.6	4.1 ^v	
80	55.7	51.1	4.8 ^v	
90	56.0	50.0	6.0 ^v	
5300	55.6	49.8	5.8 ^v	
10	56.1	49.9	6.2 ^v	
20	56.3	49.9	6.4 ^v	
30	56.3	49.6	6.7 ^v	
40	56.4	49.5	6.9 ^v	
50	56.3	49.3	7.0 ^v	
60	56.2	48.4	7.8 ^v	
70	56.1	47.7	8.4 ^v	
80	56.3	47.7	8.6 ^v	

N 3780
USRE

5390	56.5	50.1	6.4	✓	
5400	56.6	51.3	5.3	✓	
10	56.5	50.3	6.2	✓	
20	56.8	50.2	6.6	✓	
30	57.1	49.6	7.5	✓	
40	56.6	50.0	6.6	✓	
50	56.5	52.5	4.0	✓	
60	57.0	54.2	2.8	✓	
70	57.0	53.0	4.0	✓	
80	56.9	49.0	7.9	✓	
90	56.9	47.7	9.2	✓	
5500	57.1	48.3	8.8	✓	2243.50
			9.25	5	46.25
05	57.1	47.4	9.7	✓	2289.75
Above US toe wall					
05	57.1	47.4	9.7	✓	
			10.0	14	140.00
19	57.2	46.9	10.3	✓	
			9.65	11	106.15
					104.15
30	57.8	48.3	9.0	✓	
40	57.4	49.0	8.4	✓	
50	57.4	57.4	6.0	✓	
60	57.5	57.5	0.0	✓	189.00
					433.15
					435.15

N 3790
Below DS toe wall. ²¹

4318	62.1	62.1	0.0	✓	
			1.9	9	17.10
27	62.4	58.6	3.8	✓	
			8.4	15	126.00
42	62.7	49.7	13.0	✓	
			13.4	8	107.20
50	62.8	49.0	6.9	13.8	✓
60	63.2	48.9	14.3	✓	
70	63.5	50.3	13.2	✓	
80	63.7	48.1	15.6	✓	
90	63.5	47.3	16.2	✓	
4400	63.5	47.7	15.8	✓	
10	63.3	49.8	13.5	✓	
20	63.0	50.5	12.5	✓	
30	62.8	51.2	11.6	✓	
40	62.5	51.3	11.2	✓	
50	62.7	50.3	12.4	✓	
60	62.9	49.7	6.0	13.2	1498.00
			12.8	8	102.40
68	62.9	50.5	12.4	✓	
			14.55	16	232.80
84	63.0	46.3	16.7	✓	2083.50

N 3790
D S Rock Emb

4484	63.0	46.3	16.7	✓		
					16.65	6 ✓
90	63.0	46.4	16.6	✓	99.90	✓
						✓
					16.6	10 ✓
4500	63.2	46.6	16.6	✓	166.00	✓
						✓
					16.15	5 ✓
05	63.0	47.3	15.7	✓	80.75	✓
						✓
					15.85	5 ✓
10	62.8	46.8	16.0	✓	79.25	✓
			8.0			
20	62.4	59.2	3.2	✓		
30	63.5	60.9	2.6	✓		
40	64.0	60.0	4.0	✓		
50	64.5	61.2	3.3	✓		
60	64.4	62.7	1.7	✓		
70	64.3	62.8	1.5	✓		
80	65.0	63.4	1.6	✓		
90	66.0	65.4	0.6	✓		
4600	67.4	64.7	2.7	✓		
10	71.9	66.1	5.8	✓		
20	72.4	66.6	5.8	✓		
30	75.0	68.0	7.0	✓		
40	75.2	68.6	6.6	✓		
50	75.6	67.4	8.2	✓		
60	76.8	68.3	8.5	✓		
70	77.4	68.9	8.5	✓		
80	79.4	70.0	9.4	✓		

N 3790
D S R E

22

90	80.1	71.3	8.8	✓		
4700	81.4	72.5	8.9	✓	1107.50	✓
10	82.1	74.0	8.1	✓	1533.40	✓

Hydraulic Fill

10	82.1	74.0	8.1	✓		
20	82.9	76.8	4.1	✓		
30	84.5	79.8	4.7	✓		
40	84.7	83.8	0.9	✓		
50	85.7	85.7	0.0	✓		
60	87.4	85.2	2.2	✓		
70	87.9	87.9	0.0	✓		
90	91.8	91.8	0.0	✓		
4800	92.6	92.1	0.5	✓		
10	94.0	92.1	1.9	✓		
20	94.4	91.8	2.6	✓		
30	94.5	92.1	2.4	✓		
40	97.2	92.2	5.0	✓		
50	97.2	92.8	4.4	✓		
60	98.0	93.3	4.7	✓		
70	96.7	93.4	3.3	✓		
80	97.6	93.9	3.7	✓		
90	96.5	94.7	1.8	✓		
4900	90.4	86.9	3.5	✓	480.00	✓
						3.1 3 ✓
03	89.2	86.5	2.7	✓	9.30	✓

N 3790
Hyd. Fill

N 3790
Hyd. Fill

4903	89.2	86.5	2.7	✓	✓
1700			4.55	7	✓
10	86.4	80.0	6.4	✓	31.85
			7.75	5	✓
15	85.0	75.9	9.1	✓	38.75
			8.35	5	✓
20	83.5	75.9	7.6	✓	41.75
			5.75	10	✓
30	79.9	76.0	3.9	✓	57.50
			3.75	5	✓
35	79.7	76.1	3.6	✓	18.75
			4.35	5	✓
40	79.6	74.5	5.1	✓	21.75
50	77.5	71.0	6.5	✓	
60	73.4	67.3	6.1	✓	
70	72.2	67.4	4.8	✓	
80	71.0	65.5	5.5	✓	
90	68.4	63.5	4.9	✓	
5000	63.6	61.5	2.1	✓	
10	63.4	59.5	3.9	✓	344.00
			4.15	4	✓
14	63.0	58.6	4.4	✓	16.60
			4.25	6	✓
20	62.4	58.3	4.1	✓	25.50
30	59.6	57.5	2.1	✓	
40	59.3	54.6	4.7	✓	

5050	58.0	54.0	4.0	✓
60	57.4	52.8	4.6	✓
70	58.1	53.5	4.6	✓
80	58.2	52.8	5.4	✓
90	57.4	57.8	5.6	✓
5100	56.9	59.5	7.4	✓
10	54.8	51.7	3.1	✓
20	55.4	51.9	3.5	✓
30	56.3	52.1	4.2	✓
30	56.3	52.1	4.2	✓
40	54.8	53.8	1.0	✓
50	55.8	52.5	3.3	✓
60	56.1	52.2	3.9	✓
70	54.8	52.2	2.6	✓
80	55.0	51.5	3.5	✓
90	56.1	51.1	5.0	✓
5200	55.8	51.3	4.5	✓
10	55.2	50.6	4.6	✓
20	55.3	50.3	5.0	✓
30	54.8	50.9	3.9	✓
40	54.8	51.7	3.1	✓
50	55.5	51.3	4.2	✓
60	55.7	52.0	3.7	✓
70	55.6	51.8	3.8	✓

✓
491.50
U 5 Rock Emb 1577.25 ✓

N 3790
US RE

80	55.3	51.6	3.7 ✓
90	55.4	49.2	6.2 ✓
5300	54.7	48.9	5.8 ✓
10	55.6	49.4	6.2 ✓
20	55.8	49.5	6.3 ✓
30	55.8	49.6	6.2 ✓
40	56.1	49.6	6.5 ✓
50	56.1	49.0	7.1 ✓
60	56.4	48.3	8.1 ✓
70	56.2	48.9	7.3 ✓
80	56.4	48.5	7.9 ✓
90	56.3	49.1	7.2 ✓
5400	56.7	52.2	4.5 ✓
10	56.7	51.8	4.9 ✓
20	56.6	51.6	5.0 ✓
30	56.4	50.9	5.5 ✓
40	56.6	51.2	5.4 ✓
50	56.4	51.4	5.0 ✓
60	56.7	52.0	4.7 ✓
70	56.5	52.0	4.5 ✓
80	56.9	52.1	4.8 ✓
90	57.3	47.9	9.4 ✓
5500	57.2	48.4	8.8 ✓
08	56.5	48.4	8.1 ✓

8.45 ✓ 8 ✓

1908.00 ✓

67.60 ✓

1975.60

N 3790
Above US toe wall

24

5508	56.5	48.4	8.1 ✓	✓	↓
			8.6 ✓	13 ✓	111.80
21	57.0	47.9	9.1 ✓		↓
			8.8 ✓	9 ✓	79.20
30	57.7	49.2	8.5 ✓		
40	58.0	50.3	7.7 ✓		
50	57.6	55.0	2.6 ✓		↓
60	59.0	59.0	0.0 ✓		<u>145.50</u>
					<u>336.50</u> ✓

N 3800			
Hyd. Fill			
4700	854	854	0.0 ✓
10	86.0	84.4	1.6 ✓
20	87.1	87.1	0.0 ✓
30	88.6	88.0	0.6 ✓
40	89.0	88.8	0.2 ✓
50	91.2	90.8	0.4 ✓
60	91.8	90.9	0.9 ✓
70	93.9	91.0	2.9 ✓
80	94.4	91.1	3.3 ✓
90	96.7	91.3	5.4 ✓
4800	98.4	91.7	6.7 ✓
10	99.6	91.9	7.7 ✓
20	00.5	91.9	8.6 ✓
30	02.4	92.5	9.9 ✓
40	01.7	93.0	8.7 ✓
50	02.8	92.7	10.1 ✓
60	04.1	92.7	11.4 ✓
70	02.9	93.5	9.4 ✓
80	02.7	93.9	8.8 ✓
90	01.9	94.7	7.2 ✓
4900	98.5	96.1	2.4 ✓
10	94.9	93.7	1.2 ✓
20	91.7	89.3	2.4 ✓
23	90.5	87.5	3.0 ✓

2.7 3 ✓

1086.00
8.10

N 3800			
Hyd. Fill			
4923	90.5	87.5	3.0 ✓
28	88.3	76.5	11.8 ✓
30	87.4	76.5	10.9 ✓
40	84.9	76.4	8.5 ✓
50	82.6	76.9	5.7 ✓
60	80.3	77.3	3.0 ✓
70	78.0	74.1	3.9 ✓
80	73.7	71.7	2.0 ✓
90	72.0	69.3	2.7 ✓
5000	68.0	66.9	1.1 ✓
10	65.5	64.5	1.0 ✓
20	63.8	62.2	1.6 ✓
30	61.4	59.9	1.5 ✓
40	60.1	56.2	3.9 ✓
50	58.1	55.0	3.1 ✓
60	57.4	54.5	2.9 ✓
70	57.4	53.6	3.8 ✓
80	58.8	53.9	5.4 ✓
90	58.2	54.2	4.0 ✓
5100	58.5	53.5	5.0 ✓
10	56.2	52.8	3.4 ✓
20	55.5	52.2	3.3 ✓
30	55.6	52.5	3.1 ✓

7.4 5 ✓

11.35 2 ✓

26
37.20
22.70

728.00
1882.00

N 3800
U.S. Rock

27

			1.55	
5130	55.6	52.5	3.1	✓
40	56.2	53.7	2.5	✓
50	56.2	53.4	2.8	✓
60	56.3	53.8	2.5	✓
70	56.6	53.6	3.0	✓
80	56.7	52.8	3.9	✓
90	56.5	51.8	4.7	✓
5200	56.3	51.6	4.7	✓
10	56.0	52.1	3.9	✓
20	56.7	52.2	4.5	✓
30	56.3	51.7	4.6	✓
40	56.3	52.7	3.6	✓
50	56.2	52.1	4.1	✓
60	56.2	52.8	3.4	✓
70	55.6	52.6	3.0	✓
80	55.9	51.6	4.3	✓
90	55.7	50.6	5.1	✓
5300	55.9	49.5	6.4	✓
10	54.9	49.2	5.7	✓
20	55.1	49.6	5.5	✓
30	56.1	50.2	5.9	✓
40	55.6	51.0	4.6	✓
50	56.0	50.3	5.7	✓
60	56.4	50.2	6.2	✓
70	56.4	50.0	6.4	✓

5380	56.3	51.0	5.3	✓
90	56.3	52.1	4.2	✓
5400	56.6	52.8	3.8	✓
10	56.2	52.2	4.0	✓
20	56.5	52.6	3.9	✓
30	56.2	52.5	3.7	✓
40	56.9	52.6	4.3	✓
50	56.7	53.0	3.7	✓
60	56.9	53.5	3.4	✓
70	57.5	54.0	3.5	✓
80	57.5	54.2	3.3	✓
90	56.6	50.0	6.6	✓
5500	57.0	48.6	8.4	✓
10	58.3	48.9	9.4	✓
Above U.S. Toe Wall				
10	58.3	48.9	9.4	✓
			9.3	10 ✓
20	57.9	48.7	9.2	✓
			9.3	4 ✓
24	58.0	48.6	9.4	✓
			8.8	6 ✓
30	58.2	50.0	8.2	4.1 ✓
40	58.7	50.7	8.0	✓
50	59.1	59.1	0.0	✓

1713.50

93.00

37.20

52.80

121.00

304.00

Below D.S. Toe Wall

4320	62.8	62.8	0.0	✓
30	63.1	56.4	6.7	✓
40	63.3	53.8	9.5	✓
50	63.6	53.4	10.2	✓
60	63.8	54.7	9.1	✓
70	64.2	54.7	9.5	✓
80	64.5	54.1	10.4	✓
90	64.8	53.5	11.3	✓
4400	64.6	52.7	11.9	✓
10	64.2	54.0	10.2	✓
20	64.0	51.0	13.0	✓
30	63.6	50.7	12.9	✓
40	63.2	50.5	12.7	✓
50	63.3	50.9	12.4	✓
60	63.4	51.2	12.2	✓
70	63.6	46.0	17.6	✓

18.95 ↓ 4 ↓

1608.00

75.80

1683.80

18.85 ↓ 6 ↓

113.10

17.55 ↓ 10 ↓

175.50

74 64.0 43.7 20.3 ✓

D. S. Rock Emb.

44 64.0 43.7 20.3 ✓

80 64.6 47.2 17.4 ✓

90 65.2 47.5 17.7 ✓

90	65.2	47.5	17.7	✓
95	65.8	49.4	16.4	✓
4500	66.3	60.8	5.5	✓
10	67.7	62.4	5.3	✓
20	68.8	64.6	4.2	✓
30	68.2	66.3	1.9	✓
40	70.0	67.9	2.1	✓
50	71.1	67.3	3.8	✓
60	72.0	68.3	3.7	✓
70	73.5	68.7	4.8	✓
80	75.9	70.3	5.6	✓
90	78.3	72.6	5.7	✓
4600	79.3	72.0	7.3	✓
10	81.3	72.6	8.7	✓
20	82.4	73.3	9.1	✓
30	83.7	74.4	9.3	✓
40	83.9	76.4	7.5	✓
50	84.8	76.5	8.3	✓
60	84.8	77.9	6.9	✓
70	85.9	79.1	6.8	✓
80	87.2	80.7	6.5	✓
90	89.0	84.5	4.5	✓
4700	89.5	85.7	3.8	✓

30 ↓ 17.05 ↓ 5 ✓

10.95 ↓ 5 ✓

2.75

85.25

54.75

1166.50

1595.10

Hyd. Fill

4700	89.5	85.7	^{1.1} 3.8	✓
10	90.9	89.9	1.0	✓
20	90.8	88.2	2.6	✓
30	91.9	91.9	0.0	✓
40	94.2	91.6	2.6	✓
50	95.5	91.6	3.9	✓
60	96.9	90.9	6.0	✓
70	98.6	91.5	7.1	✓
80	01.0	95.6	5.4	✓
90	03.2	99.4	3.8	✓
4800	03.1	00.3	2.8	✓
10	05.4	00.8	4.6	✓
20	05.1	01.7	3.4	✓
30	07.3	07.3	0.0	✓
60	10.2	10.2	0.0	✓
			5.55	14 ✓
74	08.5	97.4	11.1	✓
			10.2	6 ✓
80	07.8	98.5	^{4.65} 9.3	✓
90	05.5	00.9	4.6	✓
4900	04.1	04.1	0.0	✓
30	94.9	94.9	0.0	✓
			2.3	8 ✓
38	93.4	88.8	4.6	✓
			9.95	14 ✓
42	92.5	77.2	15.3	✓

Hyd. Fill

4942	92.5	77.2	15.3	✓			
					143	8	114.40
50	90.6	77.3	^{6.5} 13.3	✓			
60	86.6	77.5	9.1	✓			
70	85.6	78.0	^{3.8} 7.6	✓			195.50
					75	7	52.50
77	82.3	74.9	7.4	✓			
					845	8	67.60
85	79.2	69.7	9.5	✓			
					8.7	4	34.80
89	77.8	69.9	7.9	✓			
					6.3	11	69.30
5000	74.6	69.9	^{2.35} 4.7	✓			
10	72.1	69.5	2.6	✓			
20	68.3	68.3	0.0	✓			
30	64.7	64.0	0.7	✓			
40	62.2	60.0	2.8	✓			
50	62.1	56.4	5.7	✓			
60	58.4	55.4	3.0	✓			
70	55.8	55.2	0.6	✓			
80	58.3	55.0	3.3	✓			
90	59.6	54.7	4.9	✓			
5100	59.2	54.4	4.8	✓			
10	57.6	53.8	3.8	✓			
20	56.8	53.2	3.6	✓			

451.00

77.70

61.20

(92.50) ✓

18.40

39.80

N. 3810

5130	56.8	53.3	3.5 ^{1.85} ✓	<u>435.00</u>
40	57.7	54.0	3.7 ^{1.85} ✓	-1617.20
U.S. Rock Emb. 1709.701				
40	57.7	54.0	3.7 ^{1.85} ✓	
50	58.3	53.9	4.4✓	
60	56.4	53.9	2.5✓	
70	57.4	54.4	3.0✓	
80	57.1	53.6	3.5✓	
90	56.6	53.0	3.6✓	
5200	56.9	52.7	4.2✓	
10	57.3	52.9	4.4✓	
20	57.2	52.9	4.3✓	
30	56.9	52.9	4.0✓	
40	56.5	52.6	3.9✓	
50	56.7	53.2	3.5✓	
60	56.6	53.3	3.3✓	
70	56.1	53.5	2.6✓	
80	56.4	52.1	4.3✓	
90	56.8	51.1	5.7✓	
5300	56.2	50.7	5.5✓	
10	56.8	49.9	6.9✓	
20	56.8	49.9	6.9✓	
30	56.8	50.6	6.2✓	
40	56.6	52.5	4.1✓	
50	56.2	53.0	3.2✓	
60	56.3	53.2	3.1✓	

N 3810

30

U.S. Rock

5370	56.2	53.3	2.9✓	
80	56.7	53.2	3.5✓	
90	56.5	52.7	3.8✓	
5400	56.4	52.5	3.9✓	
10	56.2	53.8	2.4✓	
20	57.5	54.6	2.9✓	
30	57.0	54.5	2.5✓	
40	57.6	53.8	3.8✓	
50	57.8	53.7	4.1✓	
60	58.4	54.0	4.4✓	
70	58.0	54.0	4.0✓	
80	58.5	54.0	4.5✓	
90	59.1	52.8	6.3✓	
5500	58.5	49.2	9.3 ^{5.05} ✓	
10	59.4	49.3	10.1✓	1583.00
			10.2✓ 4✓	40.80
14	59.2	48.9	10.3✓	1623.80
Above U.S. Toe Wall				
14	59.2	48.9	10.3✓	
			10.1✓ 13✓	131.30
27	59.0	49.1	9.9✓	
			9.0✓ 3✓	27.00
30	59.1	51.0	8.1 ^{4.05} ✓	
40	59.1	51.7	7.4✓	114.50
50	58.8	58.8	0.0✓	272.80

Below D.S. Tow Wall

4320	62.8	62.8	0.0 ✓	
30	63.2	56.7	6.5 ✓	
40	63.5	55.7	7.8 ✓	
50	63.8	55.4	8.4 ✓	
60	64.2	55.8	8.4 ✓	
70	64.7	54.9	9.8 ✓	
80	65.1	54.6	10.5 ✓	
90	65.4	54.1	11.3 ✓	
4400	65.4	54.0	11.4 ✓	
10	65.0	53.4	11.6 ✓	
20	64.5	51.8	12.7 ✓	
30	63.9	52.4	11.5 ✓	
40	63.7	52.9	10.8 ✓	
50	64.0	52.5	11.5 ✓	✓
60	64.8	52.1	12.7 ✓	✓
				1385.50
			12.85 ✓ 2 ✓	25.70
62	65.0	52.0	13.0 ✓	✓
			14.15 ✓ 8 ✓	113.20
70	65.8	50.5	15.3 ✓	✓
			^{34.9} 12.45 ✓ 10 ✓	174.50
80	68.1	48.5	19.6 ✓	1698.90
				↓
				D. S. Rock Emb.
80	68.1	48.5	19.6 ✓	↓
			19.7 ✓ 5 ✓	98.50
85	68.7	48.9	19.8 ✓	

85	68.7	48.9	19.8 ✓	
			^{38.5} 19.25 ✓ 5 ✓	96.25
			^{9.85} 18.7 ✓	
90	69.2	50.5	18.7 ✓	
4500	70.0	66.0	4.0 ✓	
10	70.2	67.2	3.0 ✓	
20	70.2	67.2	3.0 ✓	
30	72.0	72.0	0.0 ✓	
40	73.9	70.4	3.5 ✓	
50	74.9	69.9	5.0 ✓	
60	76.9	70.9	6.0 ✓	
70	78.7	74.4	4.3 ✓	
80	81.2	74.6	6.6 ✓	
90	82.8	74.1	8.7 ✓	
4600	83.3	75.1	8.2 ✓	
10	84.8	75.9	8.9 ✓	
20	87.1	76.9	10.2 ✓	
30	87.7	77.9	9.8 ✓	
40	88.2	79.0	9.2 ✓	
50	88.6	79.7	8.9 ✓	
60	88.7	81.0	7.7 ✓	
70	89.7	82.0	7.7 ✓	
80	90.9	83.0	7.9 ✓	
90	92.1	85.0	7.1 ✓	
4700	93.3	87.3	6.0 ✓	↓
10	94.8	94.8	0.0 ✓	1450.50
				1645.25
				✓

N. 3820

Hyd. Fill

4930	602.0	02.0	0.0	✓		✓
				0.6	10	6.00
40	98.3	97.1	1.2	✓		✓
				2.5	8	20.00
48	95.8	92.0	3.8	✓		✓
				8.9	4	35.60
52	95.0	81.0	14.0	✓		✓
				14.6	8	116.80
60	93.9	78.7	15.2	✓		
				7.6		
70	90.3	78.6	11.7	✓		✓
				3.05		
80	86.0	78.7	7.3	✓		229.50
				6.85	3	20.55
83	85.1	78.7	6.4	✓		✓
				7.0	5	35.00
88	83.6	76.0	7.6	✓		✓
				7.3	2	14.60
90	83.0	76.0	7.0	✓		✓
				6.3	10	63.00
5000	81.6	76.0	5.6	✓		✓
				5.55	7	38.85
07	81.5	76.0	5.5	✓		✓
				4.25	3	12.75
10	81.5	78.5	3.0	✓		
				1.5		
20	76.1	76.1	0.0	✓		
30	69.6	69.6	0.0	✓		

N 3820

32

Hyd. Fil

5040	686	65.0	3.6	✓		
50	65.8	61.5	4.3	✓		
60	61.6	57.6	4.0	✓		
70	60.5	56.5	4.0	✓		
80	59.6	56.0	3.6	✓		
90	60.2	54.5	5.7	✓		
5100	59.8	55.9	3.9	✓		
10	59.6	55.7	3.9	✓		
20	57.8	55.6	2.2	✓		
30	57.5	54.4	3.1	✓		
				0.55		
40	56.9	55.8	1.1	✓		
				0.55		
						U.S. Rock Emb.
40	56.9	55.8	1.1	✓		
50	58.0	54.8	3.2	✓		
60	57.2	53.9	3.3	✓		
70	57.0	54.3	2.7	✓		
80	57.2	54.1	3.1	✓		
90	57.4	53.6	3.8	✓		
5200	57.4	53.4	4.0	✓		
10	57.1	53.5	3.6	✓		
20	56.8	54.0	2.8	✓		
30	57.5	53.3	4.2	✓		
40	57.4	53.2	4.2	✓		
50	57.2	53.3	3.9	✓		
60	56.8	53.3	3.5	✓		

✓
403.50

996.15 ✓

N 3820
U.S. Rock

5270	56.9	53.6	3.3 ✓
80	56.9	53.1	3.8 ✓
90	56.6	52.2	4.4 ✓
5300	57.0	51.8	5.2 ✓
10	56.8	51.2	5.6 ✓
20	56.8	51.0	5.8 ✓
30	56.9	51.3	5.6 ✓
40	57.1	51.8	5.3 ✓
50	57.1	52.4	4.7 ✓
60	57.1	52.8	4.3 ✓
70	56.3	52.8	3.5 ✓
80	56.8	52.8	4.0 ✓
90	56.5	52.7	3.8 ✓
5400	56.9	53.4	3.5 ✓
10	57.5	54.0	3.5 ✓
20	57.4	54.6	2.8 ✓
30	57.6	55.0	2.6 ✓
40	57.4	54.6	2.8 ✓
50	58.1	54.5	3.6 ✓
60	58.3	54.5	3.8 ✓
70	58.2	54.6	3.6 ✓
80	58.5	54.7	3.8 ✓
90	58.8	54.5	4.3 ✓
5500	58.5	50.8	7.7 ✓
10	58.8	50.2	8.6 ✓

9.15 ✓ 6

1484.50

54.90

1539.40

N. 3820

33

Above U.S. Toe Wall

16	59.1	49.4	9.7 ✓		
				9.8 ✓	4 ✓
					39.20 ✓
20	59.3	49.4	9.9 ✓		
30	60.1	49.4	10.7 ✓		191.00 ✓
40	59.8	52.9	6.9 ✓		
				3.45 ✓	5 ✓
					17.25 ✓
45	59.9	59.9	0.0 ✓		
					<u>247.45</u> ✓

N. 3830
Hyd. Fill

4970	99.1	82.8	6.3		
				11.5	5
					57.50
75	96.5	79.8	16.7		
				15.55	5
					77.75
80	93.9	79.5	14.4		
				12.05	10
					120.50
90	89.9	80.2	9.7		
				8.7	7
					60.90
97	87.9	80.2	7.7		
97	87.9	79.2	8.7		
				8.0	6
					48.00
5003	86.5	79.2	7.3		
03	86.5	80.2	6.3		
				5.25	7
					36.75
10	85.4	81.2	4.2		
20	82.7	81.2	1.5		
30	79.1	73.3	5.8		
40	74.1	69.1	5.0		
50	69.7	67.3	2.4		
60	68.3	64.0	4.3		
70	65.8	61.5	4.3		
80	61.3	58.6	2.7		
90	61.5	59.9	1.6		
5100	61.8	59.7	2.1		
10	60.4	59.6	0.8		

N 3830

35

5120	59.7	59.3	0.4		
30	58.7	58.1	0.6		
40	57.9	55.6	2.3		
					347.50
					U. S. Rock Emb.
40	57.9	55.6	2.3		
50	57.8	54.8	3.0		
60	58.2	54.1	4.1		
70	57.9	54.0	3.9		
80	56.8	54.1	2.7		
90	56.8	53.9	2.9		
5200	56.8	54.0	2.8		
10	58.1	54.2	3.9		
20	57.8	54.3	3.5		
30	57.6	53.8	3.8		
40	57.4	53.5	3.9		
50	57.5	53.4	4.1		
60	57.2	53.8	3.4		
70	56.9	53.8	3.1		
80	57.2	53.7	3.5		
90	57.6	53.0	4.6		
5300	56.8	52.5	4.3		
10	56.6	52.0	4.6		
20	57.0	51.7	5.3		
30	57.4	51.8	5.6		
40	57.4	51.5	5.9		
50	57.4	53.3	4.1		

N. 3830

U.S. Rock

5360	57.7	53.8	3.9 ✓	
70	57.9	53.7	4.2 ✓	
80	57.5	53.5	4.0 ✓	
90	58.1	53.7	4.4 ✓	
5400	58.4	53.7	4.7 ✓	
10	58.5	54.2	4.3 ✓	
20	58.6	55.1	3.5 ✓	
30	58.5	55.1	3.4 ✓	
40	58.2	54.8	3.4 ✓	
50	58.5	55.2	3.3 ✓	
60	58.6	55.2	3.4 ✓	
70	59.3	55.1	4.2 ✓	
80	59.1	55.1	4.0 ✓	
90	60.1	55.2	4.9 ✓	
5500	60.6	54.5	6.1 ✓	
10	60.4	53.1	7.3 ✓	
20	60.7	51.8	8.9 ✓	

Above U.S. Toe Wall

20	60.7	51.8	8.9 ✓	
			9.1 14 ✓	127.40
34	61.2	51.9	9.3 ✓	
			8.0 6 ✓	48.00
40	61.4	54.7	6.7 ✓	
			3.35 10 ✓	335.00
50	62.0	62.0	0.0 ✓	510.40

N 3840

36

Below D.S. Toe Wall

4420	66.3	66.3	0.0 ✓	
30	67.9	66.8	1.1 ✓	
40	69.5	67.5	2.0 ✓	
50	70.5	67.9	2.6 ✓	
60	70.9	65.5	5.4 ✓	
70	71.9	63.8	8.1 ✓	
80	72.7	63.8	8.9 ✓	
90	73.0	66.3	6.7 ✓	
4500	72.9	69.0	3.9 ✓	

D.S. Rock Emb.

4500	72.9	69.0	3.9 ✓	
10	74.3	71.0	3.3 ✓	
20	75.9	70.9	5.0 ✓	
30	78.1	71.4	6.7 ✓	
40	80.2	73.2	7.0 ✓	
50	81.9	76.1	5.8 ✓	
60	83.6	78.2	5.4 ✓	
70	85.6	79.5	6.1 ✓	
80	87.0	82.4	4.6 ✓	
90	89.1	82.3	6.8 ✓	
4600	91.4	83.7	7.7 ✓	
10	93.3	85.2	8.1 ✓	
20	94.3	86.9	7.4 ✓	
30	95.3	88.6	6.7 ✓	
40	96.1	88.6	7.5 ✓	

367.50

N 3840
D.S. Rock Emb.

4650	96.6	892	7.4 ✓
60	97.5	887	8.8 ✓
70	98.1	909	7.2 ✓
80	99.0	917	7.3 ✓
90	99.7	957	4.0 ✓
4700	01.1	99.2	^{0.15} 1.9 ✓

Hyd. Fill

4990	92.3	898	^{1.25} 2.5 ✓
------	------	-----	-----------------------

7.15 ✓ 7 ✓

97	91.8	80.0	11.8 ✓
----	------	------	--------

97	91.8	79.6	12.2 ✓
----	------	------	--------

11.95 ✓ 6 ✓

5003	91.3	79.6	11.7 ✓
------	------	------	--------

03	91.3	80.0	11.3 ✓
----	------	------	--------

10.45 ✓ 7 ✓

10	90.5	80.9	^{4.8} 9.6 ✓
----	------	------	----------------------

20	87.2	80.9	6.3 ✓
----	------	------	-------

30	83.6	79.8	3.8 ✓
----	------	------	-------

40	81.3	76.2	5.1 ✓
----	------	------	-------

50	77.5	76.3	1.2 ✓
----	------	------	-------

60	69.3	76.0	2.3 ✓
----	------	------	-------

70	68.0	65.1	2.9 ✓
----	------	------	-------

80	65.6	63.4	2.2 ✓
----	------	------	-------

90	65.2	62.9	2.3 ✓
----	------	------	-------

5100	66.4	62.5	3.9 ✓
------	------	------	-------

10	61.4	61.1	0.3 ✓
----	------	------	-------

1257.00

50.05

71.70

73.15

N. 3840

37

5120	61.5	60.4	1.1 ✓
------	------	------	-------

30	61.8	59.5	2.3 ✓
----	------	------	-------

40	59.8	57.3	^{1.25} 2.5 ✓
----	------	------	-----------------------

40	59.8	57.3	^{1.25} 2.5 ✓
----	------	------	-----------------------

50	59.1	56.4	2.7 ✓
----	------	------	-------

60	58.1	54.7	3.4 ✓
----	------	------	-------

70	57.3	54.5	2.8 ✓
----	------	------	-------

80	57.1	54.8	2.6 ✓
----	------	------	-------

90	57.6	54.4	3.2 ✓
----	------	------	-------

5200	57.1	54.7	2.4 ✓
------	------	------	-------

10	57.4	54.9	2.5 ✓
----	------	------	-------

20	57.8	54.7	3.1 ✓
----	------	------	-------

30	57.8	54.6	3.2 ✓
----	------	------	-------

40	57.8	54.4	3.4 ✓
----	------	------	-------

50	57.7	54.5	3.2 ✓
----	------	------	-------

60	57.5	54.3	3.2 ✓
----	------	------	-------

70	57.3	54.5	2.8 ✓
----	------	------	-------

80	57.3	54.3	3.0 ✓
----	------	------	-------

90	57.4	54.4	3.0 ✓
----	------	------	-------

5300	57.8	53.9	3.9 ✓
------	------	------	-------

10	58.1	53.3	4.8 ✓
----	------	------	-------

20	57.9	53.2	4.7 ✓
----	------	------	-------

30	57.9	52.9	5.0 ✓
----	------	------	-------

40	57.8	53.6	4.2 ✓
----	------	------	-------

50	57.9	56.5	1.4 ✓
----	------	------	-------

397.50

592.40 ✓

U. S. Rock Emb.

N. 3840
U.S. Rock

5360	57.8	56.9	0.9 ✓
70	57.8	55.8	2.0 ✓
80	58.5	55.5	3.0 ✓
90	58.0	55.7	2.3 ✓
5400	58.0	56.0	2.0 ✓
10	58.2	55.7	2.5 ✓
20	58.1	55.5	2.6 ✓
30	58.1	55.4	2.7 ✓
40	58.6	55.6	3.0 ✓
50	59.2	56.4	2.8 ✓
60	59.6	57.2	2.4 ✓
70	60.3	57.2	3.1 ✓
80	60.9	57.2	3.7 ✓
90	61.9	57.4	4.5 ✓
5500	62.3	57.1	5.2 ✓
10	62.4	55.2	7.2 ✓
20	62.3	53.0	9.3 ✓
24	62.4	52.6	9.8 ✓
36	62.9	55.0	7.9 ✓
40	63.1	58.1	5.0 ✓
50	66.5	66.5	0.0 ✓

1243.00
38.20
 1281.20
 Above U.S. Toe wall
 177 885/12 ✓ 106.20
 25.90
 4 ✓ 33.80
 2.5 10 ✓ 25.00
 157.0 + 65.00

N. 3850

38

Below D.S. Toe wall

4460	73.4	73.4	0.0 ✓
70	73.7	68.4	5.3 ✓
80	74.2	70.9	3.3 ✓
90	74.1	71.6	2.5 ✓
4500	74.3	71.6	2.7 ✓
04	75.3	70.4	4.9 ✓
11	76.9	73.4	3.5 ✓
11	76.9	73.4	3.5 ✓
20	78.2	71.2	7.0 ✓
30	80.7	71.7	9.0 ✓
40	82.7	72.4	10.3 ✓
50	83.2	77.9	5.3 ✓
60	86.1	78.7	7.4 ✓
70	87.8	81.1	6.7 ✓
80	88.4	88.4	0.0 ✓
90	93.4	89.6	3.8 ✓
4600	95.0	91.9	3.1 ✓
10	97.6	90.4	7.2 ✓
20	97.9	92.0	5.9 ✓
30	99.2	94.9	4.3 ✓
40	99.3	93.9	5.4 ✓
50	01.6	94.8	6.8 ✓
60	01.3	93.9	7.4 ✓

Downstream Rock

525 ✓ 9 ✓

204.50 ✓

47.25 ✓

N. 3850
D.S. Rock Emb.

4670	01.6	96.7	4.9 ✓
80	02.7	01.0	1.7 ✓
90	04.8	01.4	3.4 ✓
4700	05.5	01.2	2.15 4.3 ✓

Hyd. Fill

5014	96.8	95.2	1.6
		13.3	6.65 +65
		5.8	0.85
20	94.0	82.3	11.7
30	90.4	81.1	9.3 ✓
40	88.2	80.0	8.2 ✓
50	87.2	79.4	7.8 ✓
60	81.7	76.3	5.4 ✓
70	75.9	73.3	2.6 ✓
80	71.9	69.4	2.5 ✓
90	69.5	67.7	1.8 ✓
5100	69.8	65.6	4.2 ✓
10	65.8	65.8	0.0 ✓
20	65.4	63.4	2.0 ✓
30	64.0	63.2	0.8 ✓
40	61.6	60.6	1.0 ✓

U.S. Rock Emb.

40	61.6	60.6	0.5 1.0 ✓
50	63.5	59.4	4.1 ✓
60	61.0	58.9	2.1 ✓
70	62.3	57.2	5.1 ✓
80	59.3	56.0	3.3 ✓

982.50

1029.75

39.90
7.90

6 ✓

509.5

459.50

469.40

549.40 ✓

N 3850
U.S. Rock Emb.

39

90	59.0	56.0	3.0 ✓
5200	58.4	56.1	2.3 ✓
10	58.7	56.1	2.6 ✓
20	58.0	56.9	1.1 ✓
30	58.7	56.1	2.6 ✓
40	58.9	55.8	3.1 ✓
50	59.6	55.2	4.4 ✓
60	60.0	56.0	4.0 ✓
70	59.7	55.4	4.3 ✓
80	59.5	55.9	3.6 ✓
90	59.4	56.3	3.1 ✓
5300	59.6	56.6	3.0 ✓
10	59.6	55.1	4.5 ✓
20	59.7	56.1	3.6 ✓
30	60.2	55.7	4.5 ✓
40	60.1	57.0	3.1 ✓
50	59.7	58.5	1.2 ✓
60	59.8	59.8	0.0 ✓
70	59.7	59.0	0.7 ✓
80	59.1	59.1	0.0 ✓
90	59.9	59.7	0.2 ✓
5400	60.6	59.8	0.8 ✓
10	59.6	59.1	0.5 ✓
20	59.8	58.3	1.5 ✓
30	60.1	58.4	1.7 ✓

N. 3850

U.S. Rock Emb.

5440	60.0	58.5	1.5 ✓
50	60.8	59.8	1.0 ✓
60	61.2	60.2	1.0 ✓
70	62.9	62.4	0.5 ✓
80	62.3	61.2	1.1 ✓
90	62.4	62.2	0.2 ✓
5500	62.3	62.3	0.0 ✓
10	63.8	60.8	3.0 ✓
20	65.8	60.3	5.5 ✓

15.9 7.95 8 ✓

855.50

63.60

919.10

Above U.S. Toe wall

28	68.4	58.0	10.4 ✓
30	69.1	59.6	9.5 ✓
40	69.3	67.2	2.1 ✓
50	73.6	70.0	3.6 ✓
60	72.7	72.7	0.0 ✓

19.9 9.95 2 ✓

19.90

5.8 ✓ 10 ✓

58.00

46.50

124.40

N. 3860

40

Below D.S. Toe wall

4500	76.7	76.7	0.0 ✓
10	78.0	76.1	1.9 ✓
15	78.9	76.5	2.4 ✓
20	79.8	75.8	4.0 ✓
30	82.2	82.2	0.0 ✓

0.95 ✓ 10 ✓

9.50

2.15 ✓ 5 ✓

10.75

3.2 ✓ 5 ✓

16.00

2.0 ✓ 10 ✓

20.00

56.25

D.S. Rock Emb.

4560	88.7	88.7	0.0 ✓
70	90.8	86.2	4.6 ✓
80	93.3	91.3	2.0 ✓
90	96.3	94.4	1.9 ✓
4600	97.1	94.0	3.1 ✓
10	00.1	95.3	4.8 ✓
20	01.2	94.9	6.3 ✓
30	02.0	95.9	6.1 ✓
40	03.5	99.4	4.1 ✓
50	04.4	99.1	5.3 ✓
60	05.4	00.2	5.2 ✓
70	06.2	02.0	4.2 ✓
80	07.6	01.8	5.8 ✓
90	08.9	01.6	7.3 ✓
4700	09.9	02.3	7.6 ✓

645.00

N. 3860

Hyd. Fill

5040	944	91.8	^{1.3} 2.6 ✓
50	92.6	80.9	11.7 ✓
60	91.7	80.5	11.2 ✓
70	86.2	80.0	6.2 ✓
80	82.1	78.2	3.9 ✓
90	77.6	74.3	3.3 ✓
5100	74.7	71.6	3.1 ✓
10	71.4	69.1	2.3 ✓
20	68.1	68.1	0.0 ✓
30	67.1	65.5	1.6 ✓
40	66.4	63.8	2.6 ✓
50	66.6	64.0	^{1.3} 2.6 ✓

U.S. Rock Emb.

50	66.6	64.0	^{1.3} 2.6 ✓
60	65.7	64.7	1.0 ✓
70	65.4	63.9	1.5 ✓
80	63.8	61.7	2.1 ✓
90	63.9	60.8	3.1 ✓
5200	60.3	58.8	1.5 ✓
10	60.8	59.4	1.4 ✓
20	60.4	59.6	0.8 ✓
30	61.1	59.4	1.7 ✓
40	60.3	59.6	0.7 ✓
50	61.2	58.5	2.7 ✓
60	61.7	58.2	3.5 ✓

N. 3860

U.S. Rock

41

70	61.3	57.9	3.4 ✓
80	61.1	58.3	2.8 ✓
90	60.1	59.0	1.1 ✓
5300	60.0	59.6	0.4 ✓
10	60.5	58.6	1.9 ✓
20	60.5	59.1	1.4 ✓
30	61.0	59.1	1.9 ✓
40	60.7	60.1	0.6 ✓
50	60.5	59.9	0.6 ✓
60	62.5	62.5	0.0 ✓
5410	61.4	61.4	0.0 ✓
20	62.0	60.8	1.2 ✓
30	62.4	61.1	1.3 ✓
40	62.7	61.5	1.2 ✓
50	64.2	63.2	1.0 ✓
60	65.3	64.7	0.6 ✓
70	66.3	64.3	2.0 ✓
80	67.0	62.8	4.2 ✓
90	65.6	65.6	0.0 ✓
5500	65.0	65.0	0.0 ✓
10	65.5	65.5	0.0 ✓
20	69.4	68.1	1.3 ✓
30	78.7	75.1	^{1.8} 3.6 ✓
32	78.8	75.0	3.8 ✓

3.71 2 ✓

500.00

7.40

507.40 ✓

485.00 ✓

N. 3860

Above U.S. Toewall

5532	78.8	75.0	3.8 ✓	✓	
			3.95 ✓ 4 ↓	15.80	
36	79.1	75.0	4.1 ✓	✓	
			2.75 ✓ 3 ✓	8.25	
39	79.3	77.9	1.4 ✓	✓	
			0.7 ✓ 11 ↓	<u>7.70</u>	
50	78.0	78.0	0.0 ✓		31.75

N. 3870

42

D.S. Rock Emb.

4480	76.8	76.8	0.0 ✓
90	77.3	76.9	0.4 ✓
4500	78.3	76.6	1.7 ✓
10	79.4	76.2	3.2 ✓
20	81.5	76.2	5.3 ✓
30	84.0	84.0	0.0 ✓
80	95.3	95.3	0.0 ✓
90	99.7	96.5	3.2 ✓
4600	00.6	97.3	3.3 ✓
10	02.5	01.0	1.5 ✓
20	04.3	01.9	2.4 ✓
30	06.6	00.9	5.7 ✓
40	07.5	02.0	5.5 ✓
50	09.1	01.7	7.4 ✓
60	09.3	02.0	7.3 ✓
70	11.1	03.7	^{3.7} 7.4 ✓

506.00 ✓

Hyd. Fill

4860.	40.5	40.5	0.0 ✓
70	41.7	40.9	1.3 ✓
80	42.9	40.9	2.5 ✓
90	42.5	40.2	2.3 ✓
4900	43.3	40.1	3.2 ✓
10	43.7	40.1	3.6 ✓
20	43.6	40.1	^{1.75} 3.5 ✓

146.50 ✓

N. 3870

Hyd. Fill

5058	97.1	95.3	1.8 ✓	2.5 ✓	2 ✓	5.00 ↓
60	96.3	93.1	3.2 ✓	1.6		
70	95.1	81.0	14.1 ✓			
80	90.0	80.7	9.3 ✓			
90	87.1	80.0	7.1 ✓			
5100	82.0	79.7	2.3 ✓			
10	78.0	77.5	0.5 ✓			
20	75.7	71.7	4.0 ✓			
30	73.8	71.7	2.1 ✓			
40	73.7	70.0	3.7 ✓			
50	73.2	69.2	4.0 ✓	2.0		

U.S. Rock Emb

50	73.2	69.2	4.0 ✓	2.0		
60	72.0	68.2	3.8 ✓			
70	71.5	66.5	5.0 ✓			
80	67.8	65.5	2.3 ✓			
90	68.8	65.2	3.6 ✓			
5200	66.8	64.1	2.7 ✓			
10	65.8	63.1	2.7 ✓			
20	64.7	63.2	1.5 ✓			
30	66.5	63.5	3.0 ✓			
40	64.9	63.3	1.6 ✓			
50	65.1	63.7	1.4 ✓			
60	63.5	63.3	0.2 ✓			

USRE
N 3870

43

70	65.0	62.4	2.6 ✓			
80	63.0	62.2	0.8 ✓			
90	64.0	63.4	0.6 ✓			
5300	62.2	62.2	0.0 ✓			
30	62.1	62.1	0.0 ✓			
40	63.3	62.7	0.6 ✓			
50	62.5	62.5	0.0 ✓			
60	65.2	64.8	0.4 ✓			
70	68.5	67.8	0.7 ✓			
80	68.0	68.0	0.0 ✓			
90	67.7	66.2	1.5 ✓			
5400	65.0	64.5	0.5 ✓			
10	66.6	64.3	2.3 ✓			
20	67.0	64.3	2.7 ✓			
30	69.7	67.2	2.5 ✓			
40	69.8	68.1	1.7 ✓			
50	71.8	68.8	3.0 ✓			
60	71.2	70.4	0.8 ✓			
70	73.6	68.8	4.8 ✓			
80	71.6	67.3	4.3 ✓			
90	70.0	65.8	4.2 ✓			
5500	68.1	68.1	0.0 ✓			
20	72.9	72.9	0.0 ✓			
30	81.8	79.1	2.7 ✓	1.35		
36	83.1	79.0	4.1 ✓	3.4	6 ↓	

651.50

20.40

671.90

N. 3870

Above U.S. Toe wall

5536	83.1	79.0	4.1 ✓	↓	
			4.5/4 ↓		18.00
40	84.0	79.1	4.9 ✓	↓	
			2.95/10 ↓		<u>29.50</u>
50	85.5	85.5	0.0 ✓		47.50

N. 3880

44

D.S. Rock Emb.

4470	77.8	77.8	0.0 ✓
80	78.2	77.4	0.8 ✓
90	78.6	77.1	1.5 ✓
4500	79.6	78.0	1.6 ✓
10	80.8	80.8	0.0 ✓
80	98.9	98.9	0.0 ✓
90	01.4	98.5	2.9 ✓
4600	04.7	01.8	2.9 ✓
10	06.3	01.6	4.7 ✓
20	07.6	02.1	5.5 ✓
30	10.0	02.4	7.6 ✓
40	11.0	03.4	7.6 ✓
50	12.8	12.8	0.0 ✓

351.00 ✓

Hyd. Fill

4810	03.4	00.8	2.6 ✓
20	04.4	00.7	3.7 ✓
30	06.0	00.7	5.3 ✓
40	06.7	00.7	6.0 ✓
50	06.7	00.6	6.1 ✓
60	06.5	00.4	6.1 ✓
70	05.7	00.3	5.4 ✓
80	08.6	00.1	8.5 ✓
90	09.9	00.0	9.9 ✓
4900	09.2	99.9	9.3 ✓
10	09.0	99.7	9.3 ✓

N. 3880

Hyd. Fill

4920	09.2	99.6	9.6 ✓
30	09.1	99.7	9.4 ✓
40	04.2	99.7	4.5 ✓
50	02.0	99.8	2.2 ✓
			1.1 ✓ 5 ✓
55	00.0	00.0	0.0 ✓

955.00
5.50

5086	94.6	89.5	5.1 ✓
			8.5 3.5 4 ✓
90	92.6	80.7	5.95 7.9 ✓

34.0
14.20

5100	90.4	80.5	9.9 ✓
10	87.0	80.2	6.8 ✓
20	85.6	80.0	5.6 ✓
30	82.7	79.8	2.9 ✓
40	83.4	80.1	3.3 ✓
50	83.3	80.3	3.0 ✓
60	83.3	79.7	1.8 3.6 ✓

342.5 ✓
342.50

U.S. Rock Emb.

60	83.3	79.7	1.8 3.6 ✓
70	77.6	75.7	1.9 ✓
80	73.9	71.8	2.1 ✓
90	73.2	70.4	2.8 ✓
5200	72.1	69.7	2.4 ✓
10	70.1	68.1	2.0 ✓
20	70.1	67.6	2.5 ✓
30	68.5	67.5	1.0 ✓

1317.20
1387.0

N. 3880

u.s. Rock.

45

5240	69.4	67.1	2.3 ✓
50	68.5	67.2	1.3 ✓
60	68.7	66.5	2.2 ✓
70	68.6	65.3	3.3 ✓
80	67.3	65.9	1.4 ✓
90	66.8	66.8	0.0 ✓

5330	66.1	66.1	0.0 ✓
40	67.0	66.4	0.6 ✓

50	69.6	69.6	0.0 ✓
80	70.3	70.3	0.0 ✓
90	69.7	69.2	0.5 ✓

5400	69.7	69.7	0.0 ✓
------	------	------	-------

10	70.8	69.9	0.9 ✓
----	------	------	-------

20	73.7	73.7	0.0 ✓
----	------	------	-------

40	79.0	79.0	0.0 ✓
----	------	------	-------

50	81.0	78.1	2.9 ✓
----	------	------	-------

60	81.0	78.7	2.3 ✓
----	------	------	-------

70	79.7	79.5	0.2 ✓
----	------	------	-------

80	77.5	77.5	0.0 ✓
----	------	------	-------

5520	78.0	78.0	0.0 ✓
------	------	------	-------

30	83.4	79.3	4.1 ✓
----	------	------	-------

40	87.8	79.2	4.3 8.6 ✓
----	------	------	--------------

428.00 ✓

Above U.S. Toe wall

40	87.8	79.2	8.6 ✓
----	------	------	-------

4.3 ✓ 10 ✓

43.00 ✓

50	89.3	89.3	0.0 ✓
----	------	------	-------

N. 3890

Hyd. Fill

4782	40.6	40.6	0.0	✓			
					2.85	8	✓
							22.80
90	46.0	40.3	^{2.85} 5.7	✓			
4800	46.9	40.7	6.2	✓			
10	50.1	40.8	9.3	✓			
20	51.5	40.9	10.6	✓			
30	51.7	40.6	11.1	✓			
40	51.5	40.4	11.1	✓			
50	52.4	40.2	12.2	✓			
60	52.4	40.0	12.4	✓			
70	52.1	39.8	12.3	✓			
80	53.8	39.7	14.1	✓			
90	53.5	39.6	13.9	✓			
4900	54.9	39.6	15.3	✓			
10	55.9	39.4	16.5	✓			
20	53.9	39.4	14.5	✓			
30	54.9	39.4	15.5	✓			
40	52.0	39.4	12.6	✓			
50	49.5	39.5	10.0	✓			
60	45.4	39.6	5.8	✓			
70	42.6	39.9	2.7	✓			
80	43.1	39.9	^{1.6} 3.2	✓			
							2105.50

5102

N. 3890

46

Hyd. Fill

5102	95.6	95.6	0.0	✓			
					2.95	8	✓
							23.60
10	94.7	88.8	^{2.95} 5.9	✓			
20	95.4	80.8	14.6	✓			
30	92.5	80.5	12.0	✓			
40	92.2	80.4	11.8	✓			
50	93.7	80.3	13.4	✓			
60	90.3	80.4	9.9	✓			
70	88.7	80.3	^{4.2} 8.4	✓			
							688.50
							2840.40
							✓
							U.S. Rock Emb.
70	88.7	80.3	^{4.2} 8.4	✓			
80	86.9	80.4	6.5	✓			
90	85.4	80.5	4.9	✓			
5200	83.0	80.3	2.7	✓			
10	84.9	79.3	5.6	✓			
20	79.9	78.9	1.0	✓			
30	77.6	76.8	0.8	✓			
40	77.3	73.9	3.4	✓			
50	74.2	73.2	1.0	✓			
60	74.5	73.2	1.3	✓			
70	75.7	72.9	2.8	✓			
80	76.6	73.5	3.1	✓			
90	74.1	73.5	0.6	✓			
5300	72.5	72.5	0.0	✓			

N. 3890

U.S. Rock Emb.

5330	68.6	68.6	0.0	✓
40	74.6	70.9	3.7	✓
50	78.0	75.1	2.9	✓
60	76.9	74.3	2.6	✓
70	77.0	74.9	2.1	✓
80	74.7	74.7	0.0	✓
5400	80.7	80.7	0.0	✓
10	82.8	80.9	1.9	✓
20	83.2	79.1	4.1	✓
30	87.7	78.1	9.6	✓
40	89.6	78.0	11.6	✓
50	91.9	78.1	13.8	✓
60	88.6	78.5	10.1	✓
70	85.9	79.3	6.6	✓
80	84.7	80.1	4.6	✓
90	81.0	80.0	1.0	✓

1120.00N 3900
Hyd. Fill

47

E4770	41.7	40.6 ^{0.55}	1.1	✓	
80	46.0	40.8	5.2	✓	
90	49.9	40.9	9.0	✓	
4800	52.0	40.9	11.1	✓	
10	55.0	40.9	14.1	✓	
20	56.4	41.1	15.3	✓	
30	57.8	45.5	12.3	✓	
40	58.7	49.9	8.8	✓	
50	59.6	54.3	5.3	✓	
60	63.2	58.7	4.5	✓	✓
70	65.0	56.8 ^{4.1}	8.2	✓	902.50
			8.0	✓ 3 ✓	24.00
73	64.0	56.2	7.8	✓	✓
			4.85	✓ 7 ✓	33.95
80	61.3	59.4	1.9	✓	✓
			0.95	✓ 4 ✓	3.80
84	61.5	61.5	0.0	✓	
4910	60.9	60.9	0.0	✓	✓
20	59.9	50.9	9.0	✓	170.00
30	57.2	41.2 ^{5.0}	16.0	✓	✓
			17.0	✓ 2 ✓	34.00
32	57.2	39.2	18.0	✓	✓
			18.0	✓ 8 ✓	144.00
40	57.1	39.1 ^{9.0}	18.0	✓	

N 3900
Hy Fill.

49	50	54.0	39.2	14.8	✓
	60	51.5	39.5	12.0	✓
	70	50.5	39.6	10.9	✓
	80	49.7	39.6	10.1	✓
	90	48.7	39.9	8.8	✓
			7.0	5	✓
95		43.4	38.2	3.2	✓

612.00

35.00

1958.75
.25

N 3900
U. S. R. Emb.

51	60	99.6	99.6	0.0	✓
	70	95.7	86.4	9.3	✓
	80	95.4	80.0	15.4	✓
	90	94.7	80.5	14.2	✓
52	00	93.1	80.5	12.6	✓
	10	92.7	80.5	12.2	✓
	20	90.1	80.5	9.6	✓
	30	87.9	80.3	7.6	✓
	40	85.3	80.3	5.0	✓
	50	83.9	80.3	3.6	✓
	60	81.0	80.1	0.9	✓
	70	83.7	80.1	3.6	✓
	80	86.4	80.4	6.0	✓
	90	84.6	80.4	4.2	✓
53	00	81.2	78.2	3.0	✓

N 3900
U. S. R. Emb.

53	10	75.4	75.4	0.0	✓
	20	73.9	73.9	0.0	✓
	30	78.0	77.1	0.9	✓
	40	82.9	79.6	3.3	✓
	50	83.7	79.7	4.0	✓
	60	85.3	82.0	3.3	✓
	70	83.2	81.9	1.3	✓
	80	85.2	81.5	3.7	✓
	90	87.1	81.2	5.9	✓
54	00	87.1	81.1	6.0	✓
	10	88.7	81.2	7.5	✓
	20	95.5	80.8	14.7	✓
	30	96.4	78.6	17.8	✓
	40	99.9	79.4	20.5	✓
	50	97.4	82.8	14.6	✓
	60	93.6	83.9	9.7	✓
	70	90.5	80.5	10.0	✓
	80	88.2	80.2	8.0	✓
	90	85.1	80.0	5.1	✓
55	00	85.5	80.0	5.5	✓
	10	80.2	80.2	0.0	✓

2490.00 ✓

N 3910
D.S. Rock Emb.

4750	6	41.4	40.9	^{0.25} 0.5 ✓	
60		44.2	40.9	3.3 ✓	
70		48.4	40.9	7.5 ✓	
80		50.5	40.9	9.6 ✓	
90		55.0	40.9	14.1 ✓	
H800		57.1	41.0	^{8.05} 16.1 ✓	428.00 ✓

Hydraulic Fill.

H800		57.1	41.0	16.1 ✓	
				12.15 ✓ 10 ↓	121.50 ✓
10		61.8	53.6	8.2 ✓	
				4.1 ✓ 6 ↓	24.60 ✓
16		62.6	62.6	0.0 ✓	
4927		63.8	63.8	0.0 ✓	
				3.55 ✓ 3 ↓	10.65 ✓
30		63.6	56.5	7.1 ✓	
				9.65 ✓ 3 ↓	28.95 ✓
33		62.9	50.7	12.2 ✓	
				12.15 ✓ 5 ↓	60.75 ✓
38		61.8	49.7	12.1 ✓	
				12.3 ✓ 2 ↓	24.60 ✓
40		61.3	48.8	^{6.25} 12.5 ✓	
50		59.8	44.2	15.6 ✓	
60		57.6	39.7	17.9 ✓	

N 3910
Hyd. Fill.

49

4970		56.6	39.5	17.1 ✓	
80		55.0	39.5	15.5 ✓	
90		54.5	39.7	14.8 ✓	
5000		51.7	39.9	11.8 ✓	1012.00 ✓
10		44.6	40.1	^{2.25} 4.5 ✓	1283.05 ✓

U.S. Rock Emb.

5190		04.1	04.1	0.0 ✓	
				1.0 ✓ 10 ↓	10.00 ✓
5200		02.4	00.4	2.0 ✓	
				3.6 ✓ 3 ↓	10.80 ✓
03		02.4	97.2	5.2 ✓	
				4.95 ✓ 7 ↓	34.65 ✓
10		02.5	97.8	4.7 ✓	
				2.35 ✓ 10 ↓	23.50 ✓
20		98.1	98.1	0.0 ✓	
20		98.1	89.2	^{4.45} 8.9 ✓	
30		93.7	81.1	12.6 ✓	
40		93.0	80.8	12.2 ✓	
50		89.5	80.6	8.9 ✓	
60		85.3	80.5	4.8 ✓	
70		87.7	80.5	7.2 ✓	
80		92.6	80.5	12.1 ✓	
90		92.5	80.7	11.8 ✓	
5300		86.7	80.9	5.8 ✓	
10		80.6	80.6	0.0 ✓	

N 3910
U.S. Rock Emb.

5320	77.7	77.7	0.0 ✓
30	84.3	81.8	2.5 ✓
40	88.9	81.8	7.1 ✓
50	90.1	81.8	8.3 ✓
60	89.6	81.9	7.7 ✓
70	95.0	82.0	13.0 ✓
80	97.9	82.1	15.8 ✓
90	99.9	83.6	16.3 ✓
5400	00.1	83.6	16.5 ✓
10	04.1	85.2	18.9 ✓
20	05.7	87.9	17.8 ✓
30	06.4	06.4	0.0 ✓

↓
2037.50
2116.45 ✓

N 3920
DS Rock Emb.

50

4720	640.1	40.1	0.0 ✓	
30	432	40.7	2.5 ✓	
40	46.3	40.8	5.5 ✓	
50	47.4	40.9	6.5 ✓	
60	48.5	40.9	7.6 ✓	
70	52.0	40.9	11.1 ✓	
80	55.7	41.1	14.6 ✓	
90	59.2	46.0	13.2 ✓	
4800	63.4	57.6	5.8 ✓	✓
			2.9 ✓	6 ✓
06	64.6	64.6	0.0 ✓	639.00
				<u>17.40</u>
				656.40 ✓
Hydraulic Fill.				
4946	66.0	66.0	0.0 ✓	✓
			0.9 ✓	4 ✓
50	65.4	63.6	1.8 ✓	3.60
			3.15 ✓	10 ✓
60	63.1	58.6	4.5 ✓	31.50
			5.35 ✓	5 ✓
65	62.0	55.8	6.2 ✓	26.75
			8.3 ✓	5 ✓
70	60.8	50.4	10.4 ✓	41.50
80	59.6	39.5	20.1 ✓	
90	59.2	39.6	19.6 ✓	
5000	57.0	39.7	17.3 ✓	

N 3920
Hyd. Fill.

N 3920
U S Rock Emb. 51

5010	51.8	39.8	12.0	✓	
20	47.9	39.9	8.0	✓	
30	46.9	40.5	6.4	✓	
					854.00 ✓
					957.35 ✓
	U. S. Rock Emb.				
5190	12.1	12.1	0.0	✓	
			0.3	10 ✓	3.00 ✓
5200	09.4	088	0.6	✓	
			3.3	3 ✓	9.90 ✓
03	09.0	03.0	6.0	✓	
			6.3	7 ✓	44.10 ✓
10	08.2	01.6	6.6	✓	
20	05.3	02.3	3.0	✓	
30	01.4	01.4	0.0	✓	
40	97.8	97.8	0.0	✓	
50	94.2	82.7	11.5	✓	
60	88.6	81.6	7.0	✓	
70	93.4	81.4	12.0	✓	
80	97.5	81.0	16.5	✓	
90	96.5	81.0	15.5	✓	
5300	90.4	91.0	9.4	✓	
10	83.6	81.0	2.6	✓	
20	80.7	80.7	0.0	✓	
30	89.7	81.2	8.5	✓	
40	95.7	81.5	14.2	✓	

5350	96.4	83.7	12.7	✓	
60	98.5	87.0	11.5	✓	
70	99.6	89.7	9.9	✓	
80	01.4	88.9	12.5	✓	1588.00 ✓
90	05.4	88.0	17.4	✓	
			3.56	17.8 ✓	5 ✓
					89.40 ✓
95	06.3	88.1	18.2	✓	1734.30 ✓
					.40

N 3930
DS Rock Emb.

4685	640.2	40.2	0.0 ✓		
				0.55 ✓	5 ✓
90	414	40.3	1.1 ✓		
4700	41.8	40.1	1.7 ✓		
10	43.5	40.3	3.2 ✓		
20	45.4	40.5	4.9 ✓		
30	48.7	40.6	8.1 ✓		
40	51.2	40.9	10.3 ✓		
50	53.4	41.0	12.4 ✓		
60	53.5	42.1	11.4 ✓		
70	58.0	49.8	8.2 ✓		
80	61.7	57.5	4.2 ✓		
90	65.2	65.2	0.0 ✓		
					649.50 ✓
					652.25 ✓

Hydraulic Fill

4992	63.0	63.0	0.0 ✓		
				11.5 ✓	3 ✓
95	62.7	39.7	23.0 ✓		
				22.85 ✓	5 ✓
5000	62.4	39.7	22.7 ✓		
10	58.2	39.8	18.4 ✓		
20	53.1	39.9	13.2 ✓		
30	53.8	40.0	13.8 ✓		
40	49.8	39.9	9.9 ✓		
50	46.8	39.8	7.0 ✓		
					114.25 ✓

N 3930
H49 Fill.

52

5060	41.2	39.9	1.3 ✓		
					749.50 ✓
70	40.4	40.4	0.0 ✓		
					898.25 ✓
					US Rock Emb.
5200	13.7	13.7	0.0 ✓		
10	10.9	04.3	6.6 ✓		
20	09.0	03.2	5.8 ✓		
30	04.8	03.2	1.6 ✓		
40	01.4	01.4	0.0 ✓		
50	96.2	96.2	0.0 ✓		
60	95.7	94.3	1.4 ✓		
70	00.1	92.8	7.3 ✓		
80	01.6	91.5	10.1 ✓		
90	00.2	91.1	9.1 ✓		
5300	94.3	94.3	0.0 ✓		
30	90.7	90.7	0.0 ✓		
40	98.8	91.8	7.0 ✓		
50	99.3	94.3	5.0 ✓		
60	00.7	91.0	9.7 ✓		
70	02.2	90.2	12.0 ✓		
80	03.8	89.9	13.9 ✓		
90	07.1	90.4	16.7 ✓		
					978.50 ✓

N 3940
D S Rock Emb.

4668	640.0	40.0	0.0	✓		
					0.45	2 ✓
70	40.8	39.9	0.9	✓	0.90	
80	43.3	39.6	3.7	✓		
90	45.1	39.7	5.4	✓		
4700	45.9	40.0	5.9	✓		
10	49.4	40.1	9.3	✓		
20	50.1	40.3	9.8	✓		
30	52.7	40.7	12.0	✓		
					12.6	5 ✓
					7.6	
35	54.1	40.9	13.2	✓	405.50	
					63.0	
					38.30	
					57.50	
					11.5	5 ✓
					23.0	
40	55.6	45.8	9.8	✓		
					4.9	10 ✓
					49.00	
50	57.6	57.6	0.0	✓		
					526.20	
					575.90	
Hydraulic Fill						
4993	66.9	66.9	0.0	✓		
					32.5	7 ✓
5000	65.6	59.1	6.5	✓	22.75	
					11.4	10 ✓
10	63.5	47.2	16.3	✓	114.00	
					18.85	6 ✓
					113.10	
16	61.5	40.1	21.4	✓		
					20.9	14 ✓
20	60.2	39.8	20.4	✓	83.60	

N 3940
Hyd. Fill

53

5020	60.2	39.8	20.4	✓		
					10.2	
30	58.0	39.9	18.1	✓		
40	53.9	40.0	13.9	✓		
50	51.7	39.9	11.8	✓		
60	48.2	39.7	8.5	✓		
70	44.9	39.4	5.5	✓		
80	42.2	39.2	3.0	✓		
90	39.4	39.4	0.0	✓		
					710.00	✓
					1043.45	✓
US Rock Emb.						
5200	16.4	16.4	0.0	✓		
10	13.8	07.0	6.8	✓		
20	11.2	06.0	5.2	✓		
30	06.9	04.5	2.4	✓		
40	03.4	03.4	0.0	✓		
50	97.7	97.7	0.0	✓		
60	02.4	99.4	3.0	✓		
70	04.3	97.4	6.9	✓		
80	04.4	95.8	8.6	✓		
90	03.4	94.6	8.8	✓		
					373.00	✓
					15.4	7.7 ✓ 5 ✓
					38.50	✓
95	00.8	94.2	6.6	✓		
					18.1	9.55 ✓ 5 ✓
					45.25	
					47.75	
5300	98.2	86.7	11.5	✓		

N 3940
US Rock Emb.

5300	98.2	86.7	^{5.75} 11.5 ✓
10	92.3	81.6	10.7 ✓
20	89.2	81.2	8.0 ✓
30	89.1	81.4	7.7 ✓
40	00.4	82.6	17.8 ✓
50	02.6	94.4	8.2 ✓
60	04.0	92.2	11.8 ✓
70	04.6	91.8	12.8 ✓
80	06.0	91.5	^{7.25} 14.5 ✓
83	06.8	93.3	13.5 ✓
90	08.7	08.7	0.0 ✓

14.0 ✓ 3 ↓

6.75 ✓ 7 ↓

900.00

42.00

47.25

~~1448.50~~

1446.50

N 3950
Hyd. Fill.

54

5000	671.8	71.8	0.0 ✓
07	70.2	68.6	1.6 ✓
10	69.5	66.6	2.9 ✓
20	657	59.8	5.9 ✓
30	63.8	53.0	10.8 ✓
30	63.8	40.2	^{11.8} 23.6 ✓
40	58.1	40.2	17.9 ✓
50	55.7	40.0	15.7 ✓
60	52.3	39.9	12.4 ✓
70	49.0	39.7	9.3 ✓
80	46.4	39.3	7.1 ✓
90	44.0	38.9	5.1 ✓
5100	41.1	38.5	2.6 ✓
10	39.6	37.9	1.7 ✓
20	37.1	37.1	0.0 ✓

0.8 7 ✓

2.25 ✓ 3 ✓

4.4 ✓ 10 ✓

8.35 ✓ 10 ✓

5.60

6.75

44.00

83.50

836.00

975.85 ✓

US Rock Emb.

5210	16.5	16.5	0.0 ✓
20	13.5	10.9	2.6 ✓
30	09.2	06.3	2.9 ✓
40	04.8	04.8	0.0 ✓
50	05.4	05.4	0.0 ✓

N 3950
U S Rock Emb.

5260	06.9	03.8	3.1 ✓	
70	07.4	02.1	5.3 ✓	
86	07.2	00.0	7.2 ✓	
90	07.7	97.5	10.2 ✓	✓
5300	03.5	95.4	8.1 ✓	353.50
			12.0 ✓ 4 ✓	48.00 ✓
04	01.7	85.8	15.9 ✓	
			15.65 ✓ 6 ✓	93.90 ✓
10	98.8	83.4	15.4 ✓	
			14.4 ✓ 10 ✓	144.00 ✓
20	96.2	82.8	13.4 ✓	
			12.05 ✓ 10 ✓	120.50 ✓
30	93.6	82.9	10.7 ✓	
			13.1 ✓ 8 ✓	104.80 ✓
38	00.5	85.0	15.5 ✓	
			14.65 ✓ 2 ✓	29.30 ✓
40	02.2	88.4	13.8 ✓	
			6.9 ✓	
50	05.9	94.6	11.3 ✓	
60	06.9	93.7	13.2 ✓	
70	07.5	93.6	13.9 ✓	383.50
			14.3 ✓ 8 ✓	114.40 ✓
78	09.0	94.3	14.7 ✓	
			12.55 ✓ 2 ✓	25.10 ✓
80	09.4	99.0	10.4 ✓	
			5.2 ✓ 2 ✓	10.40 ✓
82	09.5	09.5	0.0 ✓	1427.40 ✓

N 3960
Hyd. Fill.

55

5027	66.9	66.9	0.0 ✓	
			1.25 ✓ 3 ✓	3.75 ✓
30	66.5	64.0	2.5 ✓	
			5.0 ✓ 10 ✓	50.00 ✓
40	63.0	55.5	7.5 ✓	
			10.0 ✓ 10 ✓	100.00 ✓
50	59.5	47.0	12.5 ✓	
			14.5 ✓ 7 ✓	101.50 ✓
57	57.8	41.3	16.5 ✓	
			16.3 ✓ 3 ✓	48.90 ✓
60	57.1	41.0	16.1 ✓	
			8.05 ✓	
70	53.1	40.2	12.9 ✓	
80	51.4	39.7	11.7 ✓	
90	47.3	39.0	8.3 ✓	
5100	44.8	38.4	6.4 ✓	
10	42.4	37.9	4.5 ✓	
20	40.3	37.3	3.0 ✓	
30	37.3	36.7	0.6 ✓	554.50 ✓
40	33.7	33.7	0.0 ✓	858.65 ✓

U S Rock Emb.

5210	18.8	18.8	0.0 ✓	
20	15.9	08.1	7.8 ✓	
30	10.3	07.3	3.0 ✓	
40	10.6	09.4	1.2 ✓	
50	12.5	08.8	3.7 ✓	

N 3960
U S Rock Emb.

5260	13.2	06.4	6.8	✓	
70	12.0	04.9	7.1	✓	
80	10.4	02.2	8.2	✓	
90	09.4	99.9	9.5	✓	
5300	08.7	97.4	11.3	✓	
10	02.2	96.0	6.2	✓	
20	99.9	90.5	9.4	✓	
30	99.2	93.4	5.8	✓	
40	06.3	96.4	9.9	✓	
50	08.1	96.1	12.0	✓	
60	09.3	95.5	13.8	✓	1233.00
70	10.5	95.3	15.2	✓	
			14.9	✓ 4	59.60
74	11.1	96.5	14.6	✓	
			7.3	✓ 6	43.80
80	12.1	12.1	0.0	✓	1336.40

N 3970
Hyd Fill.

56

5050	64.9	64.9	0.0	✓	
60	61.6	53.8	7.8	✓	101.50
70	57.4	42.7	4.7	✓	
			10.35	✓ 2	20.70
72	56.6	40.6	16.0	✓	
			14.7	✓ 8	117.60
80	53.6	40.2	13.4	✓	
90	51.0	39.8	11.2	✓	
5100	48.4	38.8	9.6	✓	
10	47.0	37.8	9.2	✓	
20	43.5	37.1	6.4	✓	
30	41.0	36.4	4.6	✓	
40	37.1	35.7	1.4	✓	
50	35.8	35.0	0.8	✓	
60	34.9	34.4	0.5	✓	504.00
70	32.8	32.8	0.0	✓	743.80

U S Rock Emb.

5220	16.9	12.7	4.2	✓
30	13.7	09.0	4.7	✓
40	15.6	13.8	1.8	✓
50	18.1	12.4	5.7	✓
60	17.3	11.1	6.2	✓
70	16.8	09.4	7.4	✓
80	13.6	06.1	7.5	✓
90	13.0	03.9	9.1	✓

N 3970
US Rock Emb

5300	10.9	00.8	^{10.1} 9.1 ✓	
10	08.9	02.3	6.6 ✓	
20	04.7	00.0	4.7 ✓	
30	00.6	00.6	0.0 ✓	
40	07.7	00.6	7.1 ✓	
50	11.4	98.0	13.4 ✓	
60	11.6	97.6	^{7.0} 14.0 ✓	934.00
				924.00
			14.1 ✓ 8 ✓	112.80
68	12.6	98.4	14.2 ✓	
			13.1 ✓ 2 ✓	26.20
70	13.3	01.3	12.0 ✓	
			6.0 ✓ 3 ✓	18.00
73	13.8	13.8	0.0 ✓	1081.00
				1091.00

^{13.80}
N 3980
Hydraulic Fill. 57

5065	63.4	63.4	00 ✓	
				1.2 ✓ 5 ✓
				6.00 ✓
70	61.8	59.4	^{1.2} 2.4 ✓	
80	58.0	51.3	6.7 ✓	
90	56.5	43.2	^{6.65} 13.3 ✓	145.50 ✓
				13.95 ✓ 3 ✓
				41.85 ✓
93	55.3	40.7	14.6 ✓	
				13.45 ✓ 7 ✓
				94.15 ✓
5100	52.4	40.1	^{6.15} 12.3 ✓	
10	50.5	40.5	10.0 ✓	192.50 ✓
20	46.9	40.7	^{3.1} 6.2 ✓	
				5.6 ✓ 4 ✓
				22.40 ✓
24	45.6	40.6	5.0 ✓	
				6.7 ✓ 3 ✓
				20.10 ✓
27	44.6	36.2	8.4 ✓	
				8.0 ✓ 3 ✓
				24.00 ✓
30	43.6	36.0	^{3.8} 7.6 ✓	
40	41.4	35.4	6.0 ✓	
50	39.9	34.3	5.6 ✓	
60	38.2	33.5	4.7 ✓	
70	36.0	32.8	^{3.2} 3.2 ✓	
80	33.6	31.9	^{0.85} 1.7 ✓	241.50 ✓
				1.2 ✓ 5 ✓
				6.00 ✓
85	32.3	31.6	0.7 ✓	794.00 ✓

N 3980
U S Rock Emb.

5220	18.0	18.0	0.0	✓	
30	17.7	14.5	3.2	✓	
40	20.4	14.7	5.7	✓	60.50
			5.05	✓	35.35
47	22.4	18.0	4.4	✓	
			2.2	✓	6.60
50	23.2	23.2	0.0	✓	
<hr/>					
5280	17.8	17.8	0.0	✓	
90	16.9	11.0	5.9	✓	
5300	14.5	08.6	5.9	✓	
10	13.0	06.2	6.8	✓	
20	07.9	04.1	3.8	✓	
30	03.9	03.9	0.0	✓	
40	07.7	07.7	0.0	✓	
50	14.5	03.3	11.2	✓	
60	15.7	01.9	13.8	✓	405.00
			13.8	✓	41.40
63	15.9	02.1	13.8	✓	
			6.9	✓	48.30
70	16.5	16.5	0.0	✓	597.15

N 3990
Hydraulic Fill. ⁵⁸

5090	59.7	59.7	0.0	✓	
5100	55.5	51.5	4.0	✓	20.00
			6.0	✓	36.00
06	54.6	46.6	8.0	✓	
			10.0	✓	40.00
10	54.0	42.0	12.0	✓	
			12.45	✓	12.45
11	53.7	40.8	12.9	✓	
			11.75	✓	105.75
20	50.9	40.3	10.6	✓	
30	48.0	40.2	7.8	✓	
40	45.2	40.6	4.6	✓	154.00
			7.6	✓	45.60
			2.6	✓	15.60
46	45.1	34.5	10.6	✓	43.40
			10.85	✓	23.40
			5.55	✓	
50	45.1	34.0	11.1	✓	
60	42.9	33.2	9.7	✓	
70	40.7	32.1	8.6	✓	
80	36.1	31.2	4.9	✓	
90	33.0	30.3	2.7	✓	
5200	29.8	29.8	0.0	✓	314.50
					<hr/>
					721.70
					<hr/>
					771.70

N 3990
U S Rock Emb.

5240	26.6	26.6	0.0 ✓		
50	26.6	24.4	2.2 ✓		
60	25.5	23.3	2.2 ✓		
70	22.2	22.0	0.2 ✓		
80	20.6	20.6	0.0 ✓		
5330	07.7	07.7	0.0 ✓		
40	11.8	10.6	1.2 ✓		
50	17.7	06.9	10.8 ✓		112.00
			9.3 ✓ 8 ✓		74.40
58	18.4	10.6	7.8 ✓		
			3.9 ✓ 4 ✓		15.60
62	18.9	18.9	0.0 ✓		202.00

N 4000
Hydraulic Fill

59

5117	656.0	56.0	0.0 ✓		
			2.3 ✓ 3 ✓		6.90
20	55.6	51.0	4.6 ✓		
			17.5 8.75 ✓ 7 ✓		61.25
27	53.5	40.6	12.9 ✓		
			25.1 12.55 ✓ 3 ✓		37.65
30	52.6	40.4	12.2 ✓		
40	50.0	40.0	10.0 ✓		
50	47.8	40.0	7.8 ✓		
60	44.4	40.1	4.3 ✓		260.50
			7.8 ✓ 6 ✓		46.80
66	43.3	32.0	11.3 ✓		
			5.45 11.1 ✓ 4 ✓		44.40
70	42.6	31.7	10.9 ✓		
80	38.9	31.0	7.9 ✓		
90	35.8	30.1	5.7 ✓		
5200	31.8	29.3	2.5 ✓		215.50
10	25.9	25.9	0.0 ✓		673.00

U S Rock Emb.

5220	25.7	25.7	0.0 ✓
30	29.6	25.5	4.1 ✓
40	31.1	25.3	5.8 ✓
50	30.1	24.9	5.2 ✓
60	28.2	23.0	5.2 ✓
70	26.9	22.4	4.5 ✓

N 4020
Hydraulic Fill.

5146	57.5	57.5	0.0 ✓	
				1.9 ✓ 4 ✓
				7.60
50	56.5	52.7	3.8 ✓	
60	52.2	40.0	12.2 ✓	
70	49.1	39.5	9.6 ✓	
80	46.1	39.3	6.8 ✓	
90	41.1	39.3	1.8 ✓	
				0.9 ✓ 4 ✓
94	39.2	39.2	0.0 ✓	

U S Rock Emb.

5240	38.9	38.9	0.0 ✓	
50	36.9	27.4	9.5 ✓	
60	34.9	27.9	7.0 ✓	
70	32.8	28.2	4.6 ✓	
80	31.9	29.4	2.5 ✓	
90	31.9	29.0	2.9 ✓	
5300	30.4	20.0	10.4 ✓	
10	26.9	18.7	8.2 ✓	
20	21.9	18.4	3.5 ✓	
30	17.8	17.8	0.0 ✓	

486.00

N 4030
Hydraulic Fill

5163	54.9	54.9	0.0 ✓	
				5.25 ✓ 7 ✓
				36.75
70	53.4	42.9	10.5 ✓	
				11.6 ✓ 2 ✓
				23.20
72	52.6	39.9	12.7 ✓	
				11.35 ✓ 8 ✓
				90.80
80	49.6	39.6	10.0 ✓	

150.75

U S Rock Emb.

80	49.6	39.6	10.0 ✓	
				5.0
90	46.3	39.1	7.2 ✓	
5200	39.7	39.2	0.5 ✓	
10	42.6	39.4	3.2 ✓	
20	45.2	39.5	5.7 ✓	
30	43.4	39.6	3.8 ✓	
40	42.0	39.3	2.7 ✓	
50	41.3	39.3	2.0 ✓	
60	39.1	39.1	0.0 ✓	
90	35.7	35.7	0.0 ✓	
5300	35.8	26.6	9.2 ✓	
				4.0
				11.75 ✓ 3 ✓
				347.00
				35.25
03	34.3	20.0	14.3 ✓	
				13.1 ✓ 7 ✓
				91.70
70	30.8	18.9	11.9 ✓	
				5.15
20	24.4	18.8	5.6 ✓	
				122.50
30	21.2	20.5	0.7 ✓	
40	28.6	28.6	0.0 ✓	

596.45

N 4040
U.S. Rock Emb.

5180	53.1	53.1	0.0	✓		
			3.6	12 ✓	43.20	
92	47.5	40.3	7.2	✓		
			6.3	8 ✓	50.40	
5200	45.1	39.7	5.4	✓		
10	49.6	40.2	9.4	✓		
20	50.5	44.9	5.6	✓		
30	48.1	44.0	4.1	✓		
40	45.1	41.5	3.6	✓		
50	44.8	40.1	4.7	✓		
60	43.5	39.6	3.9	✓		
70	42.5	39.4	3.1	✓		
80	41.9	39.5	2.4	✓		
90	40.6	39.6	1.0	✓	400.00	
			4.8	9 ✓	43.20	
99	38.6	30.0	8.6	✓		
			10.95	1 ✓	10.95	
5300	38.4	26.1	12.3	✓		
			27.9	13.95	14.95	
01	37.8	22.2	15.6	✓		
			28.2	14.1	9 ✓	126.90
10	32.5	19.9	12.6	✓		
			10.05	10 ✓	100.50	
20	27.1	19.6	7.5	✓		
			6.3	7 ✓	44.10	
27	25.0	19.9	5.1	✓	833.20	
					740.60	

U.S. Rock	N 4050	Emb.	62
5260	48.1	48.1	0.0
70	47.5	39.7	7.8
80	47.0	39.4	7.6
90	45.0	39.4	5.6
5300	42.5	35.9	6.6
10	36.3	28.3	8.0
20	32.8	26.2	6.6
30	28.3	28.3	0.0
			422.00

N 4060	U.S. Rock Emb.				
5266	51.4	51.4	0.0	✓	
			5.05	14 ✓	70.70
80	49.8	39.7	10.1	✓	
90	49.8	39.3	10.5	✓	
5300	45.9	39.1	6.8	✓	
70	40.9	38.7	2.2	✓	
20	37.2	35.6	1.6	✓	
					253.50
					324.20

N 4070
U.S. Rock Emb.

5278	53.9	53.9	0.0 ✓		
				5.0 ✓	12 ✓
					60.0 ✓
90	53.4	43.4	10.0 ✓		
				1085 ✓	5 ✓
					54.25 ✓
95	51.4	39.7	11.7 ✓		
				10.7 ✓	5 ✓
					53.50 ✓
5300	49.4	39.7	^{4.85} 9.7 ✓		
10	45.5	39.1	6.4 ✓		
20	40.7	38.8	1.9 ✓		
30	36.3	36.3	0.0 ✓		
					<u>131.50</u> ✓
					299.25 ✓

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1% to 1
If ground is nearly level, the cut or fill at side
stake is located by the double entry method in
left column and top row. The number in body
of table in same row and column gives distance

**IMPROVED TABLES
AND
INFORMATION**

TABLE No. 2.

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add correction found in column of correction.
Degree of curve with given L may be found
by dividing tangent (or external) opposite L by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

