

W
478

MINI
TRANSIT

MICROFILMED
JAN 13 1965

695.42
12.49
708.11

708.11
2239
705.72

478

713.70
5.05
718.75
2.75
716.00

16.02
2.75
719.77

693.30
1.05
694.35
13.00

681.35
0.82

682.17
12.30

669.87 - T.P.
0.605

670.475
12.795

657.68 = T.P.

478 - Index

Spillway Spoil

Esborne

8/15/34

10/23/34

X Sec of Downstream Spoil N of Spillway	N 4520 - 4740	1-13.
	N 4640 - 4410	14-27
	N 4290 - 4360	28-31
	N 4370 - 4760	54-71

X Sec of Upstream Spoil E of Dam N of River	N 3600 - 3700	32-3A
	N 3520 - 3940	36-53
	N 4370 - 4760	54-71

Cross Section of Downstream Spoil

R.M.	427	717.97	713.70
N 4520			
E 4590	3.0	715.0 ✓	
80	3.2	714.8 ✓	
70	3.3	714.7 ✓	
60	3.5	714.5 ✓	
50	3.8	714.2 ✓	
40	4.3	713.7 ✓	
30	4.7	713.3 ✓	
20	5.2	712.8 ✓	
10	5.5	712.5 ✓	
A 500	5.8	712.2 ✓	
4490	6.1	711.9 ✓	
80	6.3	711.7 ✓	
70	6.7	711.3 ✓	
60	6.7	711.3 ✓	
50	7.0	711.0 ✓	
40	7.1	710.9 ✓	
30	7.0	711.0 ✓	
20	6.6	711.4 ✓	
10	6.4	711.6 ✓	
4400	6.2	711.8 ✓	
4390	6.1	711.9 ✓	
80	5.8	712.2 ✓	
70	5.9	712.1 ✓	

Reduced to 20 by BH Sept-1-1934

as per
at least

Aug. 15, 1934
Converse
Osborns
Salgado
Remmen

N 4520

717.97

4360	5.9	712.1 ✓
50	6.0	712.0 ✓
40	6.1	711.9 ✓
30	6.2	711.8 ✓
20	6.6	711.4 ✓
10	6.4	711.6 ✓
4300	6.8	711.2 ✓
4290	6.9	711.1 ✓
80	7.6	710.4 ✓
70	7.7	710.3 ✓
60	7.8	710.2 ✓
50	7.6	710.4 ✓
40	8.2	709.8 ✓
30	8.5	709.5 ✓
20	8.8	709.2 ✓

N 4530

4210	9.3	708.7 ✓
20	8.0	710.0 ✓
30	7.6	710.4 ✓
40	7.6	710.4 ✓
50	7.8	710.2 ✓
60	7.8	710.2 ✓
70	7.8	710.2 ✓
80	7.5	710.5 ✓
90	6.8	711.2 ✓

Photo

N4530

717.97

4300	6.8	711.2 ✓
10	6.7	711.3 ✓
20	6.5	711.5 ✓
30	6.4	711.6 ✓
40	6.3	711.7 ✓
50	6.0	712.0 ✓
60	5.8	712.2 ✓
70	5.9	712.1 ✓
80	6.1	711.9 ✓
90	6.4	711.6 ✓
4400	6.6	711.4 ✓
10	6.9	711.1 ✓
20	6.9	711.1 ✓
30	6.9	711.1 ✓
40	6.9	711.1 ✓
50	6.8	711.2 ✓
60	6.8	711.2 ✓
70	6.6	711.4 ✓
80	6.4	711.6 ✓
90	6.3	711.7 ✓
4500	6.2	711.8 ✓
10	5.9	712.1 ✓
20	5.5	712.5 ✓
30	5.1	712.9 ✓
40	4.8	713.2 ✓
50	4.5	713.5 ✓

Photo Reduced & ck Sept-1-1934 CBH

N4530

717.97

4560	4.2	713.8 ✓
70	4.0	714.0 ✓

N4540

4560	4.9	713.1 ✓
50	5.1	712.9 ✓
40	5.4	712.6 ✓
30	5.8	712.2 ✓
20	6.2	711.8 ✓
10	6.5	711.5 ✓
4500	6.8	711.2 ✓
4490	7.0	711.0 ✓
80	7.0	711.0 ✓
70	7.0	711.0 ✓
60	6.8	711.2 ✓
50	6.8	711.2 ✓
40	6.7	711.3 ✓
30	6.6	711.4 ✓
20	6.5	711.5 ✓
10	6.5	711.5 ✓
4400	6.5	711.5 ✓
4390	6.2	711.8 ✓
80	6.0	712.0 ✓
70	5.7	712.3 ✓
60	5.5	712.5 ✓
50	5.5	712.5 ✓

Photo Reduced & ck

N4540

717.97

4340	5.6	712.4 ✓
30	5.9	712.1 ✓
20	6.0	712.0 ✓
10	6.7	711.3 ✓
4300	6.7	711.3 ✓
4290	6.9	711.1 ✓
80	7.2	710.8 ✓
70	7.5	710.5 ✓
60	7.6	710.4 ✓
50	7.6	710.4 ✓
40	7.8	710.2 ✓
30	7.6	710.4 ✓
20	7.9	710.1 ✓
10	8.9	709.1 ✓
4200	8.7	709.3 ✓

N4550

4190	8.9	709.1 ✓
4200	7.8	710.2 ✓
10	7.9	710.1 ✓
20	7.7	710.3 ✓
30	7.5	710.5 ✓
40	7.7	710.3 ✓
50	7.5	710.5 ✓
60	7.3	710.7 ✓
70	7.0	711.0 ✓

Reduced 9ch by G.B.H. Sept. 1-1934
 Actual 1 ch
 m

N4550

3

717.97

4280	6.6	711.4 ✓
90	6.6	711.4 ✓
4300	6.2	711.8 ✓
10	5.8	712.2 ✓
20	5.6	712.4 ✓
30	5.3	712.7 ✓
40	5.1	712.9 ✓
50	5.1	712.9 ✓
60	5.2	712.8 ✓
70	5.3	712.7 ✓
80	5.6	712.4 ✓
90	5.9	712.1 ✓
4400	5.9	712.1 ✓
10	6.1	711.9 ✓
20	6.3	711.7 ✓
30	6.5	711.5 ✓
40	6.8	711.2 ✓
50	7.2	710.8 ✓
60	7.4	710.6 ✓
70	7.6	710.4 ✓
80	7.7	710.3 ✓
90	7.7	710.3 ✓
4500	7.6	710.4 ✓
10	7.3	710.7 ✓
20	6.9	711.1 ✓

Actual 1 ch
 m

N 4550

717.97

4530 6.5 711.5 ✓

40 6.2 711.8 ✓

N 4560

4530 7.0 711.0 ✓

20 7.4 710.6 ✓

10 7.7 710.3 ✓

4500 8.0 710.0 ✓

4490 8.3 709.7 ✓

80 8.5 709.5 ✓

70 8.4 709.6 ✓

60 8.0 710.0 ✓

50 7.7 710.3 ✓

40 7.2 710.8 ✓

30 7.0 711.0 ✓

20 6.3 711.7 ✓

10 6.0 712.0 ✓

4400 5.8 712.2 ✓

4390 5.5 712.5 ✓

80 5.1 712.9 ✓

70 5.1 712.9 ✓

60 5.0 713.0 ✓

50 4.9 713.1 ✓

40 4.9 713.1 ✓

30 5.0 713.0 ✓

20 5.2 712.8 ✓

Plotted & reduced by G.R.H. Sept. 1-1934

N 4560

717.97

4310 5.4 712.6 ✓

4300 5.9 712.1 ✓

4290 6.1 711.9 ✓

80 6.2 711.8 ✓

70 6.2 711.8 ✓

60 6.5 711.5 ✓

50 7.0 711.0 ✓

40 7.4 710.6 ✓

30 7.6 710.4 ✓

20 7.9 710.1 ✓

10 7.8 710.2 ✓

4200 7.5 710.5 ✓

4190 7.6 710.4 ✓

N 4570

4180 8.3 709.7 ✓

90 7.2 710.8 ✓

4200 7.6 710.4 ✓

10 7.5 710.5 ✓

20 7.6 710.4 ✓

30 7.6 710.4 ✓

40 6.9 711.1 ✓

50 6.4 711.6 ✓

60 6.0 712.0 ✓

70 5.9 712.1 ✓

Plotted & reduced

N4570

717.97

4280	5.9	712.1
90	5.8	712.2
4300	5.4	712.6
10	5.2	712.8
20	5.0	713.0
30	4.8	713.2
40	4.8	713.2
50	4.6	713.4
60	4.7	713.3
70	4.9	713.1
80	5.1	712.9
90	5.2	712.8
4400	5.5	712.5
10	5.9	712.1
20	6.5	711.5
30	7.3	710.7
40	7.7	710.3
50	8.2	709.8
60	8.7	709.3
70	8.9	709.1
80	8.8	709.2
90	8.8	709.2
4500	9.4	709.6
10	8.2	709.8

Reduced & ch. by C.B.H. Sept. 1-1924
 plotted on

N4580

5

717.97

4500	8.7	709.3
4490	9.2	708.8
80	9.4	708.6
70	9.5	708.5
60	9.1	708.9
50	9.0	709.0
40	7.8	710.2
30	6.8	711.2
20	6.2	711.8
10	5.6	712.4
4400	5.2	712.8
4390	4.9	713.1
80	4.7	713.3
70	4.4	713.6
60	4.5	713.5
50	4.5	713.5
40	4.5	713.5
30	4.5	713.5
20	4.6	713.4
10	4.9	713.1
4300	5.1	712.9
4290	5.3	712.7
80	5.6	712.4
70	5.7	712.3
60	5.7	712.3

plotted on

N4580

717.97

4250	6.1	711.9
40	6.6	711.4
30	7.2	710.8
20	7.2	710.8
10	7.3	710.7
4200	7.6	710.4
4190	7.9	710.1
80	8.2	709.8
70	10.5	707.5

N4590

4170	10.0	708.0
80	8.5	709.5
90	7.8	710.2
4200	7.4	710.6
10	7.2	710.8
20	7.1	710.9
30	6.9	711.1
40	6.4	711.6
50	5.7	712.3
60	5.6	712.4
70	5.4	712.6
80	5.0	713.0
90	5.0	713.0
4300	4.7	713.3

Reduced by CBX Sept. 1-1934
 2/21/34

N4590

717.97

4310	4.4	713.6
20	4.2	713.8
30	4.2	713.8
40	4.2	713.8
50	4.2	713.8
60	4.4	713.6
70	4.4	713.6
80	4.3	713.7
90	4.4	713.6
4400	4.6	713.4
10	5.1	712.9
20	5.4	712.6
30	5.9	712.1
40	7.8	710.2
50	9.9	708.1
60	10.0	708.0
70	9.9	708.1
80	9.7	708.3

2/21/34

N4600

717.97

4470	10.4	707.6-
60	10.6	707.4-
50	10.9	707.1-
40	10.7	707.3-
30	8.8	709.2-
20	5.1	712.9-
10	4.3	713.7-
4400	4.0	714.0-
4390	3.7	714.3-
80	3.7	714.3-
70	3.8	714.2-
60	4.0	714.0-
50	4.1	713.9-
40	4.1	713.9-
30	3.9	714.1-
20	3.9	714.1-
10	4.0	714.0-
4300	4.1	713.9-
4290	4.4	713.6-
80	4.7	713.3-
70	5.0	713.0-
60	5.3	712.7-
50	5.5	712.5-
40	6.2	711.8-
30	6.6	711.4-

Reduced & ch by G.B.H. Sp. 4-1934
 Photo + ch m

N4600

7

717.97

4220	7.0	711.0-
10	7.1	710.9-
4200	7.5	710.5-
4190	7.9	710.1-
80	7.7	710.3-
70	12.6	705.4-
N.4610		
4180	8.8	709.2-
90	7.0	711.0-
4200	7.1	710.9-
10	6.8	711.2-
20	6.8	711.2-
30	6.4	711.6-
40	5.8	712.2-
50	5.4	712.6-
60	5.2	712.8-
70	4.7	713.3-
80	4.4	713.6-
90	4.1	713.9-
4300	3.9	714.1-
10	3.7	714.3-
20	3.6	714.4-
30	3.8	714.2-
40	3.7	714.3-
50	3.7	714.3-

Photo + ch m

Photo + ch m

N4610

717.97

4360	3.6	714.4
70	3.4	714.6
80	3.4	714.6
90	3.5	714.5
4400	3.6	714.4
10	6.1	711.9
20	10.5	707.5
30	11.1	706.9
40	11.5	706.5
50	11.3	706.7

N 4620

4440	11.8	706.2
30	11.9	706.1
20	12.0	706.0
10	11.9	706.1
4400	6.3	711.7
4390	2.9	715.1
80	3.1	714.9
70	3.3	714.7
60	3.1	714.9
50	3.1	714.9
40	3.2	714.8
30	3.1	714.9
20	3.3	714.7

Plotted
at
m

Reduced vol by G.B.H. Sept. 11-1934

Plotted vol
at
m

4620

8

717.97

4310	3.3	714.7
4300	3.4	714.6
4290	3.8	714.2
80	4.2	713.8
70	4.7	713.3
60	5.0	713.0
50	5.3	712.7
40	5.6	712.4
30	6.1	711.9
20	6.5	711.5
10	6.6	711.4
4200	6.6	711.4
4190	6.6	711.4
80	6.4	711.6
T.P. End Aug. 15	1.95	716.02

(Start Aug. 16) 2.75 718.77

N 4630

4420	13.4	705.4
10	13.2	705.6
4400	12.2	706.6
4390	8.4	710.4
80	3.7	715.1
70	3.7	715.1
60	3.7	715.1

Plotted vol
at
m

N 4630

718.77

4350	3.7	715.1
40	3.4	715.4
30	3.4	715.4
20	3.5	715.3
10	3.8	715.0
4300	4.0	714.8
4290	4.4	714.4
80	4.8	714.0
70	5.2	713.6
60	5.5	713.3
50	5.8	713.0
40	6.3	712.5
30	6.6	712.2
20	6.9	711.9
10	7.0	710.8
4200	7.2	711.6
4190	6.8	712.0
80	9.0	709.8

N 4640

4180	9.5	709.3
90	7.5	711.3
4200	6.6	713.2
10	6.7	712.1
20	6.7	712.1
30	6.4	712.4

N 4640

9

718.77

4240	6.1	712.7
50	5.8	713.0
60	5.5	713.3
70	4.9	713.9
80	4.5	714.3
90	3.9	714.9
4300	3.8	715.0
10	3.5	715.3
20	3.1	715.7
30	3.0	715.8
40	2.9	715.9
50	3.3	715.5
60	3.6	715.2
70	4.5	714.3
80	8.9	709.9
90	12.7	706.1
4400	14.4	704.4
4410	14.0	704.8

N 4650

4400	14.5	704.3
4390	14.8	704.0
80	14.3	704.5
70	9.6	709.2
60	5.2	713.6

Reduced 7 ch by 20% Sept 4-34.

N4650

718.77

4350	2.5	716.3
40	2.5	716.3
30	2.6	716.2
20	3.0	715.8
10	3.4	715.4
4300	3.7	715.1
4290	3.8	715.0
80	4.1	714.7
70	4.8	714.0
60	5.3	713.5
50	5.7	713.1
40	5.8	713.0
30	6.1	712.7
20	6.3	712.5
10	6.4	712.4
4200	5.9	712.9
4190	7.9	710.9
N 4660		
4200	6.0	712.8
10	5.9	712.9
20	6.1	712.7
30	5.9	712.9
40	5.9	712.9
50	5.4	713.4
60	5.0	713.8

Reduced to 1 inch by G.B.K. Sept. 4-1934
and plotted

4660

10

718.77

4270	4.7	714.1
80	4.0	714.8
90	3.8	715.0
4300	3.3	715.5
10	3.0	715.8
20	2.6	716.2
30	2.3	716.5
40	1.6	717.2
50	4.9	713.9
60	9.6	709.2
70	14.6	704.2
80	15.0	703.8

N4670

4380	15.7	703.1
70	16.0	702.8
60	14.4	704.4
50	10.0	708.8
40	5.9	712.9
30	2.1	716.7
20	2.4	716.4
10	2.6	716.2
4300	3.2	715.6
4290	3.2	715.6
80	3.7	715.1

N 4670

718.77

4270	4.2	714.6
60	4.7	714.1
50	5.1	713.7
40	5.5	713.3
30	5.9	712.9
20	5.9	712.9
10	5.8	713.0
4200	6.2	712.6
4190	11.8	707.0

N 4680

4200	11.0	707.8
10	6.3	712.5
20	5.9	712.9
30	5.7	713.1
40	5.1	713.7
50	4.8	714.0
60	4.3	714.5
70	4.0	714.8
80	3.1	715.7
90	2.9	715.9
4300	2.7	716.1
10	2.4	716.4
20	3.6	715.2
30	7.2	711.6

Reduced to 100 ft by
E. B. H. & Plotted
Sept. 4-24

N 4680

11

718.77

4340	10.8	708.0
50	15.5	703.3
60	16.7	702.1
70	16.3	702.5

N 4690

4360	16.8	702.0
50	17.2	701.6
40	16.4	702.4
30	13.7	705.1
20	8.6	710.2
10	2.9	715.9
4300	2.3	716.5
4290	3.3	715.5
80	3.4	715.4
70	3.9	714.9
60	4.4	714.4
50	4.7	714.1
40	5.2	713.6
30	8.0	710.8
20	8.3	710.5
10	11.0	707.8
4200	16.2	702.6

N 4700

718.77

4210	17.3	701.5
20	15.3	703.5
30	14.8	704.0
40	11.3	707.5
50	9.4	709.4
60	9.8	709.0
70	7.8	711.0
80	4.4	714.4
90	3.8	715.0
4300	4.5	714.3
10	9.4	709.4
20	13.5	705.3
30	17.5	701.3
40	17.6	701.2
50	17.3	701.5

N 4710

4340	18.0	700.8
30	18.1	700.7
20	17.7	701.1
10	14.7	704.1
4300	11.2	707.6
T.P	11.65	707.12
T.P	0.39	707.51
	3.30	704.59

Reduced and Plotted by G.B.H. Sept 11-34

N 4710

12

704.59

4290	+4.6	709.2
80	+2.6	07.2
70	0.5	04.1
60	3.9	700.7
50	3.2	701.4
40	4.8	699.8
30	8.4	696.2
20	8.4	696.2
10	9.8	694.8

N 4720

4210	16.2	688.4
20	15.9	688.7
30	14.4	690.2
40	11.8	692.8
50	11.6	693.0
60	11.2	693.4
70	9.0	696.6
80	4.9	699.7
90	2.9	701.7
4300	3.8	700.8
10	4.0	700.6
20	4.3	700.3
30	4.2	700.4

N 4730

704.59

4320	4.7	699.9
10	4.7	699.9
4300	5.6	699.0
4290	10.5	694.1
80	11.5	693.1
70	14.7	689.9
60	17.4	687.2
50	19.0	685.6
40	21.0	683.6
30	22.5	682.1

N 4740

4300	5.3 OG.	699.3
4290	9.9 "	694.7
80	13.9 "	690.7
70	18.0 "	686.6
60	21.6 "	683.0
50	23.6 "	681.0
40	26.4 "	678.2
T.P.	1.45	703.14

10.94 714.08

B.M. 0.40 713.68 = 713.70

Reduced & ch by Black 2-11-24
Plotted

Cross Sections of Spoil Cont.

B.M.	4.96	718.66	713.70
		11.99	706.67
	0.87	707.54	

N 4640

4170	6.2	701.3
60	13.8	693.7
50	21.0	686.5
40	27.5	680.0
30	35.3	672.2

N 4630

4130	33.2	674.3
40	26.0	681.5
50	18.6	688.9
60	11.9	695.6
70	5.3	702.2

N 4620

4170	3.0	704.5
60	9.1	698.4
50	16.3	691.2
40	23.5	684.0
30	31.6	675.9

Reduced to 1929 by G. H. K. 9-1-34
Plotted

Aug. 22, 1934
Osborne
Salgado
Remmen

N 4610

707.54

4130	32.3	675.2
40	24.8	682.7
50	16.8	690.7
60	9.4	698.1
70	1.9	705.6

N 4600

4160	9.0	698.5
50	16.3	691.2
40	23.4	684.1
30	31.6	675.9

N 4590

4130	30.3	677.2
40	22.6	684.9
50	15.2	692.3
60	7.1	700.4

N 4580

4160	7.8	699.7
50	15.4	692.1
40	23.1	683.4
30	30.0	677.5

N 4570

4130	31.7	675.8
40	23.8	683.7
50	16.5	691.0
60	9.9	697.6
70	2.6	704.9

N4560

707.54

4180	3.0	704.5
70	5.9	701.6
60	12.5	695.0
50	19.8	687.7
40	13.2	681.3 694.3
30	34.1	673.4

X Sections of Spoil West of Dam Cont.

B.M.	2.78	716.48	713.70
T.P.		12.40	704.08
	7.05	711.13 = Level	
	0.54	704.62 = Transit	
T.P.		11.55	693.07
	0.61	693.68 = Transit	

N 4550

693.7

4140		16.3	677.4
50		8.9	684.8
60		2.2	691.5
70	711.1	15.7	695.4
80		8.9	702.2

N 4540

4190		5.7	705.4
80		12.7	698.4
70	693.7	1.5	692.2
60		8.6	685.1
50		16.6	677.1
40		21.0	672.7

N 4530

4150		18.9	674.8
60		11.9	681.8
70		5.4	688.3

Aug 24, 1934

Osborne
Salgado
Remmen

16

N 4530

4180	711.1	16.2	694.9
90		10.1	701.0
4200		4.9	706.2

N 4520

4210		4.9	706.2
4200		8.8	702.3
4190		15.0	696.1
80	693.7	3.8	689.9
70		9.3	684.4
60		16.3	677.4
50		23.0	670.7

N 4510

4150		27.5	666.2
60		20.3	673.4
70		14.2	679.5
80		8.4	685.3
90		2.3	691.4
4200	711.1	14.3	696.8
10		9.8	701.3
20		5.9	705.2
30		3.7	707.4
40		4.6	706.5
50		1.5	709.6

Reduced and plotted by G.M. 9-4-36

711.13

T.P.	7.83	717.16 = Level	1.80	709.33
	N 4510			
4260			7.3	709.9
70			6.9	710.3
80			6.8	710.4
90			8.4	708.8
4300			10.5	706.7
10			9.7	707.5
20			9.7	707.5
30			9.3	707.9
40			8.3	708.9
50			8.6	708.6
60			8.3	708.9
70			8.4	708.8
80			6.8	710.4
90			6.3	710.9
4406			5.6	711.6
10			5.4	711.8
20			4.9	712.3
30			5.6	711.6
40			5.9	711.3
50			5.8	711.4
60			5.6	711.6
70			5.2	712.0

N4510

17

717.2

4480	5.2	712.0
90	4.8	712.4
4500	4.6	712.6
10	4.2	713.0
20	3.7	713.5
30	3.4	713.8
40	2.9	714.3
50	2.5	714.7
60	2.2	715.0
70	1.9	715.3
80	1.7	715.5
90	1.7	715.5
4600	1.6	715.6
10	1.6	715.6
20	1.2	716.0
N 4500		
4630	0.7	716.5
20	1.0	716.2
10	1.3	715.9
4600	1.3	715.9
4590	1.3	715.9
80	1.3	715.9
70	1.4	715.8
60	1.5	715.7
50	1.8	715.4

Reduction by 0.04 9-4-24

D.G.

N 4500

717.2

4540	2.2	715.0
30	2.8	714.4
20	3.4	713.8
10	3.7	713.5
4500	4.1	713.1
4490	4.4	712.8
80	5.1	712.1
70	4.7	712.5
60	5.8	711.4
50	6.9	710.3
40	7.8	709.4
30	12.0	705.2
20	11.2	706.0
10	12.0	705.2
4460	12.6	704.6
4390	13.5	703.7
80	14.2	703.0
70	15.9	701.3
60	16.2	701.0
50	15.7	701.5
40	15.8	701.4
30	16.9	700.3
20	17.4	699.8
10	17.0	700.2
4300	17.1	700.1

N 4500

18

717.2

4290	14.9	702.3
80	13.9	703.3
70	14.1	703.1
60	14.3	702.9
50	13.5	703.7
40	16.5	700.7
30	16.8	700.4
20	19.0	698.2
10	22.5	694.7
4200	26.4	690.8
4190	7.3	686.4
80	12.8	680.9
70	18.2	675.5

Reduced by CBH 9-4-24
& Plotted

693.7

N 4490

4180	19.1	674.6
90	13.8	679.9
4200	9.6	684.1
10	5.4	688.3
20	2.7	693.07
30	0.5	690.9
40	22.6	693.1
50	21.3	694.6
60	22.0	695.9
70	22.7	695.2
	22.7	694.5

T.P. 0.51 693.58 Transit

717.2

N 4490

717.2

4280	21.7	695.5
90	22.8	694.4
4300	24.8	692.4
10	24.5	692.7
20	25.2	692.0
30	25.1	692.1
40	24.5	692.7
50	23.5	693.7
60	24.0	693.2
70	23.2	694.0
80	21.8	695.4
90	21.2	696.0
4400	20.7	696.5
10	19.6	697.6
20	18.3	698.9
30	18.0	699.2
40	15.1	702.1
50	14.1	703.1
60	11.9	705.3
70	10.2	707.0
80	7.7	709.5
90	6.7	710.5
4500	5.3	711.9
10	4.0	713.2
20	3.0	714.2

N 4490

19

717.2

4530	3.2	714.0
40	1.9	715.3
50	0.9	716.3
60	0.4	716.8
70	0.4	716.8
80	0.7	716.5
90	0.6	716.6
4600	0.6	716.6
10	0.8	716.4
20	0.8	716.4
30	0.6	716.6
40	0.4	716.8
50	0.6	717.5

Reduced Feb by 2.00 7-4-24

N 4480

4670	+ 1.5	718.7
60	+ 1.0	718.2
50	+ 0.7	717.9
40	+ 0.6	717.8
30	+ 0.8	718.0
20	+ 0.7	717.9
10	+ 0.5	717.7
4600	+ 0.2	717.4
4590	0.0	717.2
80	0.7	716.5

N 4480

717.2

4570	2.2	715.0
60	5.2	712.0
50	7.8	709.4
40	9.0	708.2
30	10.0	707.2
20	9.5	707.7
10	10.9	706.3
4500	12.0	705.2
4490	13.5	703.7
80	15.0	702.2
70	17.3	699.9
60	19.5	697.7
50	21.3	695.9
40	22.7	694.5
30	23.9	693.3
20	27.2	690.0
10	3.8	689.8
4400	4.7	688.9
4390	5.6	688.0
80	6.0	687.6
70	8.4	685.2
60	9.1	684.5
50	8.8	684.8
40	8.4	685.2
30	9.6	684.0

693.6

N 4480

20

693.6

4320	9.9	683.7
10	10.2	683.4
4300	9.2	684.4
4290	7.5	686.1
80	7.0	686.6
70	7.5	686.1
60	6.8	686.8
50	6.4	687.2
40	8.4	685.2
30	10.5	683.1
20	11.6	682.0
10	14.0	679.6
4200	17.3	676.3
4190	22.5	671.1

Reduced and Plotted by G.B.H. 9-11-34

N 4470

4200	23.8	669.8
10	20.6	673.0
20	18.7	674.9
30	17.3	676.3
40	14.8	678.8
50	13.8	679.8
60	13.7	679.9
70	14.4	679.2
80	14.6	679.0

N 4470

693.6

4290	14.3	679.3
4300	16.5	677.1
10	17.7	675.9
20	17.6	676.0
30	16.7	676.9
40	16.6	677.0
50	16.3	677.3
60	16.2	677.4
70	15.0	678.6
80	13.6	680.0
90	12.5	681.1
4400	11.7	681.9
10	11.0	682.6
20	11.5	682.1
30	8.4	685.2
40	7.1	686.5
50	5.4	688.2
60	3.2	690.4
70	1.0	692.6
80	+ 0.3	693.9
90	21.2	696.0
4500	19.2	698.0
10	18.3	698.9
20	17.4	699.8
30	17.3	699.9

717.2

N 4470

21

717.2

4540	16.3	700.9
50	15.1	702.1
60	12.0	705.2
70	10.4	706.8
80	7.7	709.5
90	5.9	711.3
4600	4.3	712.9
10	2.0	715.2
20	2.6	714.6
30	1.5	715.7
40	0.8	716.4
50	1.0	716.2
60	0.0	717.2
70	+ 2.3	719.5
80	0.0	719.1

Reduced to Oh by EPA 7-4-34
to 2-2-34

N 4460

4660	0.0	old road fill	6.5	710.7
50	"	"	8.7	708.5
40	"	"	8.7	708.5
30	"	"	8.7	708.5
20	"	"	10.0	707.2
10	"	"	9.2	708.0
4600	"	"	11.1	706.1
4590	"	"	13.7	703.5

N 4460

717.16

4580		15.8	701.4
T.P.		12.58	704.58
	0.79	705.37	
4570		6.0	699.4
60		8.1	697.3
50		10.5	694.9
40		12.5	692.9
30		13.5	691.9
20		13.7	691.7
10		14.1	691.3
4500		16.0	689.4

End Aug. 24.

Start Aug. 25

B.M.	1.26	714.96	713.70
		13.05	701.91
Level =	3.07	704.98	
		12.71	692.27
Transit	0.04	692.31	
4490		4.2	688.1
80		5.6	686.7
70		7.4	684.9
60		9.5	682.8
50		11.5	680.8
40		13.2	679.1
T.P.		12.29	680.02
	0.30	680.32	

N 4460

22

680.32

4430	2.5	677.8
20	3.8	676.5
10	5.8	674.5
4400	6.1	674.2
4390	7.1	673.2
80	8.3	672.0
70	9.3	671.0
60	10.5	669.8
50	10.7	669.6
40	10.9	669.4
30	10.9	669.4
20	11.6	668.7
10	12.0	668.3
4300	10.7	669.6
4290	9.0	671.3
80	9.1	671.2
70	8.9	671.4
60	8.2	672.1
50	8.2	672.1
40	9.4	670.9
30	12.6	667.7
20	12.9	667.4
T.P.	12.47	667.85
	0.46	668.31

Reduced & ch by OAN 9-1-34
& plotted

N 4460

668.31

4210	2.3	666.0-
4200	5.0	663.3-
4190	8.9	659.4-
80	13.4	654.9-
70	17.2	651.1-

N 4450

4190	15.8	652.5-
4200	11.7	656.6-
10	9.9	658.4-
20	8.5	659.8-
30	7.2	661.1-
40	4.7	663.6-
50	3.6	664.7-
60	3.3	665.0-
70	3.8	664.5-
80	4.7	663.6-
90	4.4	663.9-
4300	5.8	662.5-
10	8.6	659.7-
20	6.9	661.4-
30	6.2	662.1-
40	6.4	661.9-
50	6.7	661.6-
60	5.9	662.4-
70	5.1	663.2-

N 4450

23

668.31

4380	3.9	664.4-
90	2.5	665.8-
4400	1.3	667.0-
10	1.6	666.7-
20	+0.6	668.9-
30	22.6	670.6-
40	21.3	671.9-
50	19.9	673.3-
60	18.0	675.2-
70	16.0	677.2-
80	13.8	679.4-
90	12.6	680.6-
4500	10.9	682.3-
10	9.5	683.7-
20	8.7	684.5-
30	8.4	684.8-
40	7.3	685.9-
50	5.1	688.1-
60	2.8	690.4-
70	12.6	692.4-
80	10.7	694.3-
90	8.6	696.4-
4600	6.1	698.9-
10	5.0	700.0-
20	5.0	700.0-

Reduced xch by
LBN 9-4-34
+ Plotted 50

693.18

704.98

N 4450

704.98

4630		4.4	700.6
40		3.8	701.2
50	O.G.	1.7	703.3

N 4440

4640	O.G.	8.7	696.3
30		10.8	694.2
20		12.5	692.5
T.P. Level		12.67	692.31

0.87 693.18

4610		0.9	692.3
4600		2.0	691.2
4590		4.2	689.0
80		6.3	686.9
70		8.2	685.0
60		10.0	683.2
50		11.9	681.3
40		14.0	679.2
30		15.7	677.5
20		16.1	677.1
10		17.1	676.1
4500		18.1	675.1
4490		20.1	673.1
80		21.1	672.1

N 4440

24

693.18

4470		22.7	670.5
60		24.6	668.6
50		26.4	666.8
40		3.3	665.0
30		4.5	663.8
20		5.8	662.5
10		8.2	660.1
4400		8.6	659.7
4390		9.7	658.6
80		10.7	657.6
70		12.4	655.9
60		13.2	655.1
50		13.2	655.1
40		13.3	655.0
30		13.2	655.1
20		13.7	654.6
10		14.0	654.3
4300		13.1	655.2
4290		12.1	656.2
80		12.1	656.2
70		11.5	656.8
60		10.7	657.6
50		11.0	657.3
40		12.0	656.3
30		13.1	655.2

Reduced to alt. by B.S.H. 9-4-34
& plotted

N 4440

668.31

4220	16.1	652.2
10	16.8	651.5
4200	19.0	649.3
4190	25.0	643.3

N 4430

4200	26.9	641.4
10	24.8	643.5
20	23.8	644.5
30	21.7	646.6
40	20.0	648.3
50	19.0	649.3
60	18.4	649.9
70	19.0	649.3
80	19.6	648.7
90	20.2	648.1
4300	21.3	647.0
10	21.6	646.7
20	20.9	647.4
30	20.4	647.9
40	20.5	647.8
50	20.5	647.8
60	20.0	648.3
70	19.3	649.0
80	18.1	650.2
90	17.2	651.1

N 4430

25

668.31

4400	16.0	652.3
10	13.6	654.7
20	13.2	656.1
30	12.6	656.7

669.3

40	11.5	657.8	
50	9.3	660.0	
60	7.8	661.5	
70	6.6	662.7	
80	5.3	664.0	
90	2.8	666.5	
4500	681.73	13.2	668.5

Notes backing up.

H.I. ok.

Reduced to C. Col. H. 9-4-34
+ Plotted

10	13.1	668.6
20	11.0	670.7
30	9.7	672.0
40	7.9	673.8
50	5.2	676.5
60	4.0	677.7
70	3.3	678.4
80	12.6	680.6
90	10.7	682.5
4600	8.5	684.7
10	6.3	686.9
20	4.5	688.7

693.18

End Aug. 25
T.P. on Rock Start Aug. 27, 12.37 680.81-

Level 0.92 681.73-

Start Aug. 28

		681.73	
T.P.		12.94	668.79
	0.48	669.27	
	N 4420		
4500	O.G.	6.9	662.4
4490		8.9	660.4
80		11.2	658.1
70		13.2	656.1
60		14.6	654.7
50	O.G.	16.0	653.3
T.P.		12.64	656.63
	0.23	656.86	
4440	O.G.	4.2	652.7
30	" "	3.6	653.3
20	" "	5.0	651.9
10	" "	6.2	650.7
4400		7.4	649.5
4390		10.5	646.4
80		13.6	643.3
70		14.0	642.9
60		13.6	643.3
50		14.0	642.9
40		14.2	642.7
30		15.5	641.4
T.P. on Rock		12.92	643.94

End Aug. 27

T.P.	0.49	644.43	643.94
4320		3.6	640.8
10		3.9	640.5
4300		4.0	640.4
4290		3.5	640.9
80		2.6	641.8
70		1.9	642.5
60		1.5	642.9
50		2.1	642.3
40		3.0	641.4
30		4.9	639.5
20		5.9	638.5
10		7.8	636.6
4200		9.6	634.8
4190		11.5	632.9
80		13.7	630.7
4200		14.5	629.9
10		12.3	632.1
20		11.3	633.1
30		11.7	632.7
40		9.5	634.9
50		9.2	635.2
60		8.7	635.7

Reduced Tchk by C.B.M. 9-4-34
Plotted

N 4410

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N 4410

27

644.43

4270		8.6	635.8
80		9.2	635.2
90		10.4	634.0
4300		10.9	633.5
10		9.9	634.5
20		8.5	635.9
30		7.6	636.8
40		6.0	638.4
50		4.9	639.5
60		4.9	639.5
70		5.1	639.3
80		3.0	641.4
90		0.2	644.2
4400		+ 1.5	645.9
10	O.G.	+ 2.5	646.9

Reduced - checked & Plotted 5/31/41

N 4400

Spoil West of Dam. Cont.

B.M.	8.43	593.42	584.99
N 4290 = South toe of Spoil			
4070	o.g.	18.1	575.3
60	o.g.	20.2	73.2
50	o.g.	21.5	71.9

N 4300

4100 - o.g.	2.8	590.6
4090	6.8	86.6
80	10.7	82.7
70	12.7	80.7
60	14.4	79.0
50	17.3	76.1
40	20.2	73.2
30	o.g.	23.4
30	o.g.	70.0

N 4310

4010	o.g.	21.7	71.7
20		18.4	75.0
30		15.7	77.7
40		13.0	80.4
50		10.7	82.7
60		6.9	86.5
70		4.4	89.0

T.P. 1.02 592.40

11.20 603.60 = Transit

Sept. 18, 1934

Osborne
Salgado
Remmen

N 4310

28

603.60

4080	12.2	591.4
90	9.3	94.3
4100	6.8	96.8
10 o.g.?	3.7	99.9
20 o.g.?	4.3	99.3
30	4.7	98.9
40	4.2	99.4
50	4.4	99.2
60	5.5	98.1
70	6.2	97.4
80 o.g.	5.2	598.4

N 4320

4220 o.g.	3.2	600.4
10	3.6	600.0
4200	2.9	0.7
4190	2.4	1.2
80	1.0	2.6
70	0.0	3.6

T.P. 0.15 603.45

12.71 616.16 = Tr.

60	11.3	604.9
50	10.1	06.1
40	9.9	06.3
30	10.7	05.5
20	10.5	05.7

Plotted - Checked Reduced 10-8-34 BSK

N 4320

616.16

4110	10.9	6053
4100	12.3	6039
4090	14.8	6014
80	18.0	5982
70	19.9	963
60	22.3	939
50	26.0	902
40	5.5	879
30	8.8	846
20	12.2	812
10	16.7	767
4000 O.G.	18.7	5747

N 4330

3990 O.G.	14.3	5791
4000	13.6	798
10	10.2	832
20	6.0	874
30	1.4	920
40	21.4	948
50	19.0	5972
60	16.1	6001
70	12.0	042
80	11.3	049
90	8.9	6073

616.16

Chr Reduced 10-8-34 BBA

Plotted

N 4330

29

616.16

4160	7.6	6086
10	5.9	10.3
20	5.2	11.0
30	3.8	12.4
40	2.4	13.8
50	2.2	14.0
60	3.6	12.6
70	4.5	11.7
80	6.2	10.0
90	7.4	08.8
4200	7.8	08.4
10	9.5	06.7
20	10.8	05.4
30	11.5	04.7
40	11.1	05.1
50	10.5	5.7
55 O.G.	10.1	6061
60		6083
70		616.0

Checked Reduced 10-8-34 - BBA

N 4340

70 O.G.	621.2	
60 O.G.	616.6	
4255 O.G.	2.7	613.5
40	4.7	11.5
30	4.2	12.0
20	3.3	12.9
10	2.0	614.2

Plotted

N 4340

616.16

4200	0.8	615.4
4190	0.0	162
80	+ 1.3	175
70	+ 0.3	165
60	0.9	153
50	2.3	139
40	3.6	126
30	4.9	113
20	6.4	098
10	7.9	083
4000	9.2	070
4090	10.5	057
80	11.8	044
70	13.0	032
60	14.3	019
50	15.7	600.5
40	17.2	599.0
30	18.3	97.9
20	22.3	593.9
10	2.9	90.5
4000	6.6	86.8
3990	9.9	83.5
80	0.4	11.2
		582.2

Plotted - Checked & Reduced 10-8-34 BBH

N 4350

30

593.42

3965	0.8	8.9	584.5
70		8.5	584.9
80		6.2	87.2
90		2.8	90.6
4000		0.4	93.0
10	616.16	21.8	94.4
20		20.8	95.4
30		19.3	96.9
40		17.9	98.3
50		16.5	599.7
60		15.2	601.0
70		13.8	02.4
80		12.5	03.7
90		10.8	05.4
1000		9.2	07.0
10		7.6	09.6
20		6.2	10.0
30		4.8	11.4
40		4.1	12.1
50		2.6	13.6
60		1.6	14.6
70		0.7	615.5
T.P.	1.15		615.01
12.91			<u>627.92</u>

Plotted - Checked & Reduced 10-8-34 BBH

N4350

627.92

4180	11.1	616.8
90	10.2	17.7
4200	9.0	18.9
10	7.5	20.4
20	7.4	20.5
30	8.5	19.4
40	8.9	19.0
50	6.8	21.1
60	6.0	21.9
70 ^{ag.}	4.1	6238

Reduced 10-8-34 B&H

N4360

4280 ^{ag.}	1.2	6267
70	2.0	259
60	2.5	254
50	3.8	24.1
40	4.7	232
30	5.7	222
20	6.8	21.1
10	8.0	19.9
4200	9.1	18.8
4190	9.8	618.1

Plotted - checked &

N4360

31

627.92

4180	10.7	617.2
70	11.6	163
60	12.5	154
50	13.1	148
40	14.9	130
30	13.4	145
20	12.6	153
10	13.0	149
4100	16.0	11.9
4090	20.0	07.9
80	24.2	03.7
70	25.2	02.7
60	26.8	601.1
50	28.1	599.8
40	29.9	98.0
30	31.3	96.6
20	32.7	95.2
10	34.2	593.7
<u>593.42</u>		
4000	1.3	592.1
3990	2.6	90.8
80	3.7	89.7
70	4.7	88.7
60	5.5	87.9
50 ^{ag.}	6.0	587.4

Plotted - checked & Reduced 10-8-34 B&H

Contin P. 54

Aug. 16, 1934

Osborne
Salgado
Remmen

32

CROSS-SECTION of SPOIL

East of Dam (Note: These Sect. not Complete)

B.M.	4.45	697.75'	693.30
N 3600			
E. 6610	25.0	672.8	
6600	25.8	672.0	
6590	23.0	674.8	
80	15.7	682.1'	
70	9.2	688.6	
60	4.8	693.0'	
50	2.4	695.4'	
40	3.5	694.3'	
30	7.1	690.7'	
20	11.0	86.7'	

N 3610

6510	10.1	687.7'
20	5.6	692.2'
30	2.5	695.3'
40	2.0	695.8'
50	1.2	696.6'
60	1.4	696.4'
70	6.3	691.5'
80	13.3	684.5'
90	20.8	677.0'
6600	25.0	672.8'

N 3620

697.75

6600	23.0	674.8
6590	22.9	674.9
80	16.4	681.4
70	8.8	689.0
60	1.2	696.6
50	2.5	695.3
40	2.0	695.8
30	2.3	695.5
20	2.5	695.3
10	5.6	692.2

Reduced & Plotted by G.B.H. 7-4-34

N 3630

6490	8.6	689.2
6500	3.4	694.4
10	2.9	694.9
20	2.6	695.2
30	2.3	695.5
40	2.2	695.6
50	2.1	695.7
60	5.3	692.5
70	9.6	688.2
80	16.4	681.4
90	22.0	675.8

N 3640

697.75

6580	Toe = 0.G.	21.6	676.2'
70		15.6	682.2'
60		9.6	688.2'
50		4.2	693.6'
40		2.0	695.8'
30		2.2	695.6'
20		2.5	695.3'
10		2.8	695.0'
6500		3.4	694.4'
6490		3.6	694.2'
80		7.5	690.3'

N. 3650

6470		8.5	689.3'
80		4.1	693.7'
90		3.5	694.3'
6500		3.2	694.6'
10		2.7	695.1'
20		2.5	695.3'
30		2.1	695.7'
40		4.3	693.5'
50		9.5	688.3'
60		14.4	683.4'
70	Toe 0.G.	20.5	677.3'

N 3660

33

697.75

6560	0.G.	19.4	678.4'
50		14.8	683.0'
40		10.1	687.7'
30		4.6	693.2'
20		2.5	695.3'
10		2.9	694.9'
6500		3.3	694.5'
6490		3.7	694.1'
80		4.0	693.8'
70		4.3	693.5'
60		10.3	687.5'

Reduced 7ch by 0.04 H. 9-1-54
or plotted 70

N 3670

6450		12.6	685.2'
60		5.3	692.5'
70		4.0	693.8'
80		4.0	693.8'
90		3.7	694.1'
6500		3.5	694.3'
10		3.1	694.7'
20		2.1	695.7'
30		7.8	690.0'
40		14.3	683.5'
50	0.G.	18.2	679.6'

N 3680

697.75

6540	O.G.	17.0	680.8'
30		12.3	685.5'
20		7.4	690.4'
10		2.7	695.1'
6500		3.6	694.2'
6490		3.9	693.9'
80		4.1	693.7'
70		4.6	693.2'
60		5.0	692.8'
50		9.3	688.5'

N 3690

6440		10.4	687.4'
50		5.1	692.7'
60		5.2	692.6'
70		4.6	693.2'
80		4.3	693.5'
90		4.2	693.6'
6500		3.2	694.6'
10		6.4	691.4'
20		10.8	687.0'
30	O.G.	16.7	681.1'

N 3700

34

697.75

6520	O.G.	15.7	682.1'
10		12.1	685.7'
6500		7.1	690.7'
6490		4.0	693.8'
80		4.3	693.5'
70		4.6	693.2'
60		5.0	692.8'
50		5.4	692.4'
40		5.6	692.2'
30		10.2	687.6'

Reduced and Plotted By
 C.B.H. 9-4-34

Spillway Spoil.

X Sects. of Spoil Cont. (East of Dam)

	Complete	Sections		
B.M.	1.05	694.35 ^m		693.30
T.P.	0.82	682.17	13.00	681.35 ^m
T.P.	0.60	670.47	12.30	669.87 ^m
T.P.	6.93	658.61	12.79	657.68 ^m

N 3510 = 0.0 O.G.

N 3520

6510	O.G.	27.4	631.2 ^m
20		26.3	32.3 ^m
30		25.5	33.1 ^m
40		24.8	33.8 ^m
50		24.6	34.0 ^m
60		24.8	33.8 ^m
65			
70	O.G.	24.9	33.7 ^m 35.7 O.G.

N 3530

6580	O.G.	18.6	640.0 ^m
70		18.3	40.3 ^m
60		17.6	41.0 ^m
50		17.2	41.4 ^m
40		17.5	41.1 ^m
30		18.6	40.0 ^m
20		20.1	38.5 ^m
10		22.0	36.6 ^m
6500		24.2	34.4 ^m

Plotted on Rail by Osborne
M by G.P.H.

Aug. 17
Osborne
Salgado
Remmen

N 3530

36

658.61

6490	O.G. Toe	25.9	632.7 ^m
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N 3540

6470	Toe	28.1	630.5 ^m a.g. 29.9
80		24.5	34.1 ^m
90		21.0	37.6 ^m
6500		17.7	40.9 ^m
10		15.1	43.5 ^m
20		13.0	45.6 ^m
30		11.2	47.4 ^m
40		9.6	49.0 ^m
50		9.1	49.5 ^m
60		9.9	48.7 ^m
70		11.2	47.4 ^m
80		12.7	45.9 ^m
90	Toe O.G.	13.6	45.0 ^m 46.6

Plotted on Rail by Osborne
M by G.P.H.

N 3550

6590	O.G.	9.0	649.6 ^m
80		7.0	51.6 ^m
70		4.1	54.5 ^m
60		2.4	56.2 ^m
50		1.9	56.7 ^m
40		2.1	56.5 ^m
30		3.7	54.9 ^m

Plotted

N 3550

658.61 ✓

6520	5.6	653.0 ✓
10	8.1	50.5 ✓
6500	10.7	47.9 ✓
6490	14.8	43.8 ✓
80	19.7	38.9 ✓
70	23.9	34.7 ✓
60	28.7	29.9 ✓
50	33.0	25.6 ✓

o.g.

N 3560

6440	35.0	23.6 ✓
50	29.9	28.7 ✓
60	24.7	33.9 ✓
70	19.8	38.8 ✓
80	14.5	44.1 ✓
90	9.7	48.9 ✓
6500	4.7	53.9 ✓
10	1.3	57.3 ✓
20	11.8	66.0 ✓
30	9.4	62.4 ✓
40	7.8	64.0 ✓
50	7.3	64.5 ✓
60	7.7	64.1 ✓
70	10.0	61.8 ✓
80	13.5	58.3 ✓
90	17.4	54.4 ✓

Toe

671.8 ✓

Plotted - cl. plotting

Plotted - checked

N 3570

671.8 ✓

6600	Toe	12.6	659.2 ✓
6590		11.0	60.8 ✓
80		6.4	65.4 ✓
70		2.3	69.5 ✓
60		+ 0.4	672.2 ✓
50		+ 1.3	73.1 ✓
40		+ 0.2	72.0 ✓
30		1.4	70.4 ✓
20		4.4	67.4 ✓
10		6.8	65.0 ✓
6500		10.6	61.2 ✓
6490	658.61	2.3	656.3 ✓
80		7.8	50.8 ✓
70		12.9	45.7 ✓
60		19.0	39.6 ✓
50		24.5	34.1 ✓
40		29.4	29.2 ✓
30	Toe	34.3	24.3 ✓
20	O.G.		

Plotted 9-6-34 CBH

N 3580

6420	o.g.	32.8	25.8 ✓
30		28.4	30.2 ✓
40		23.8	34.8 ✓
50		18.8	39.8 ✓

N 3580

	658.61		End. Aug 18
6460	14.1	644.5	✓
70	8.7	49.9	✓
80	3.4	55.2	✓
90	671.8	661.2	✓
6500	4.9	66.9	✓
10	0.4	71.4	✓
20	+2.8	674.6	✓
30	+5.9	77.7	✓
40	+7.5	79.3	✓
50	+8.7	80.5	✓
60	+7.8	79.6	✓
70	+4.7	76.5	✓
80	+0.6	72.4	✓
90	-5.3	66.5	✓
96	Toe - o.g.	63.1	✓

Plotted - CBH

Start Aug. 20 N 3590

	693.5		
6595	o.g.	25.6	667.9 ✓
90		22.6	70.9 ✓
80		15.9	77.6 ✓
70		10.9	82.6 ✓
60		6.8	86.7 ✓
50		5.3	88.2 ✓
40		6.2	87.3 ✓
30		8.7	84.8 ✓

N 3590

38

	693.5		
6520	12.1	681.4	✓
10	17.2	76.3	✓
6500	22.1	71.4	✓
6490	694.0	665.3	✓
80	28.7	60.2	✓
70	658.85	4.1	654.7 ✓
60		8.9	49.9 ✓
50		13.6	45.2 ✓
40		18.5	40.3 ✓
30		23.3	35.5 ✓
20		28.4	30.4 ✓
10	o.g.	34.5	24.3 ✓

Plotted CBH

N 3600

Cont on P. 32

6400	o.g.	35.2	623.6 ✓
10		29.5	29.3 ✓
20		23.9	34.9 ✓
30		18.4	40.4 ✓
40		13.0	45.8 ✓
50		7.5	51.3 ✓
60		2.3	56.5 ✓
70	694.0	32.9	661.1 ✓
80		27.4	66.6 ✓
90		21.8	72.2 ✓
6500		17.1	76.9 ✓
10		12.0	82.0 ✓
20		7.3	86.7 ✓ Page 32

N 3610

694.0

Cont. on P. 32

6500		11.6	682.4 ✓
6490		17.0	677.0 ✓
80		22.1	71.9 ✓
70		27.0	67.0 ✓
60		31.9	62.1 ✓
50		37.3	56.7 ✓
40	658.9	7.9	651.0 ✓
30		13.6	45.3 ✓
20		19.3	39.6 ✓
10		24.8	34.1 ✓
6400		30.9	28.0 ✓
6390	O.G.	36.2	22.7 ✓

N 3620

6390	O.G.	34.9	24.0 ✓
6400		26.2	32.7 ✓
10		20.4	38.5 ✓
20		14.2	44.7 ✓
30		8.2	50.7 ✓
40		2.1	56.8 ✓
50	694.0	32.1	661.9 ✓
60		26.0	680. ✓
70		20.5	73.5 ✓
80		15.2	78.8 ✓
90		10.5	83.5 ✓
6500		6.3	87.7 ✓

Cont. P 32

N 3630

39

694.0

6480		8.8	685.2 ✓
70		14.7	79.3 ✓
60		20.2	73.8 ✓
50		26.1	67.9 ✓
40		32.4	61.6 ✓
30		39.0	55.0 ✓
20	659.1	10.6	648.5 ✓
10		16.6	42.5 ✓
6400		22.8	36.3 ✓
6390		29.2	29.9 ✓
80	O.G.	36.4	22.7 ✓

N 3640

6330	O.G.	36.3	22.8 ✓
40		33.3	25.8 ✓
50	O.G.	32.5	26.6 ✓
60	"	31.8	27.3 ✓
40	"	30.1	29.0 ✓
76	O.G. Toe	30.8	28.3 ✓
90		25.1	34.0 ✓
6400		19.2	39.9 ✓
10		13.0	46.1 ✓
20		6.2	52.9 ✓
30	694.0	34.5	659.5 ✓
40		28.3	65.7 ✓

Plotted 9-6-34 G.A.H.

N 3640

694.0

6450		21.9	672.1 ✓
60		15.5	78.5 ✓
70		9.1	84.9 ✓

N 3650

Cont. P. 33

6460		10.4	83.6 ✓
50		17.2	76.8 ✓
40		23.7	70.3 ✓
30		30.4	63.6 ✓
20		37.0	57.0 ✓
10	659.1	9.0	650.1 ✓

6400		15.6	43.5 ✓
6390		20.0	39.1 ✓
80		23.4	35.7 ✓
70	O.G.	26.8	32.3 ✓
60	"	27.8	31.3 ✓
50	"	29.9	29.2 ✓
40		31.0	28.1 ✓
30		33.0	26.1 ✓
20	O.G.	35.9	23.2 ✓

N 3660

6310	O.G.	37.3	21.8 ✓
20		34.2	24.9 ✓
30		30.6	28.5 ✓
40		29.2	29.9 ✓
50		26.0	33.1 ✓

N 3660

cont. on P. 33

40

659.1

End of Aug. 20

6360		24.3	634.8 ✓
70		20.8	38.3 ✓
80		16.4	42.7 ✓
90		13.4	45.7 ✓
6400		9.8	49.3 ✓
10		4.7	54.4 ✓
20	694.0	33.3	660.7 ✓
30		26.0	680 ✓
40		19.2	74.8 ✓
50		12.5	81.5 ✓

N 3670

Cont. on P. 33

start Aug. 21

6440	693.8	15.1	678.7 ✓
30		21.7	72.1 ✓
20		28.6	65.2 ✓
10		33.4	60.4 ✓
6400		38.4	55.4 ✓
6390	658.9	6.3	52.6 ✓
80		10.2	48.7 ✓
70		15.1	43.8 ✓
60		19.7	39.2 ✓
50		24.2	34.7 ✓
40		24.7	34.2 ✓
30		27.8	31.1 ✓
20		32.2	26.7 ✓
10	O.G.	35.2	23.7 ✓

Plotted - 9-7-34. E.B.K.

N 3680

658.9

6280	0.9	49.5	609.4 ✓
90		45.3	13.6 ✓
6300		39.7	19.2 ✓
10		34.6	24.3 ✓
20		29.9	29.0 ✓
30		25.6	33.3 ✓
40		21.2	37.7 ✓
50		19.2	39.7 ✓
60		15.5	43.4 ✓
70		9.4	49.5 ✓
80		4.4	54.5 ✓
90	693.8	35.2	658.6 ✓
6400		31.6	62.2 ✓
10		27.9	65.9 ✓
20		23.0	70.8 ✓
30		17.4	76.4 ✓
40		11.4	82.4 ✓

N 3690

6430		11.9	81.9 ✓
20		16.4	77.4 ✓
10		21.4	72.4 ✓
6400		24.5	69.3 ✓
6390		28.9	64.9 ✓
80		33.1	60.7 ✓
70	658.9	4.7	654.2 ✓

41

658.9

6360		10.5	648.4 ✓
50		11.9	47.0 ✓
40		14.9	44.0 ✓
30		19.1	39.8 ✓
20		24.0	34.9 ✓
10		29.5	29.4 ✓
6300		35.0	23.9 ✓
6290		40.4	18.5 ✓
80		45.2	13.7 ✓
72	0.9	49.3	609.6 ✓

N 3700

6270	0.9	49.0	609.9 ✓
80		41.4	17.5 ✓
90		35.8	23.1 ✓
6300		30.0	28.9 ✓
10		24.0	34.9 ✓
20		18.2	40.7 ✓
30		12.9	46.0 ✓
40		8.2	50.7 ✓
50		4.0	54.9 ✓
60		3.5	55.4 ✓
70		0.2	58.7 ✓
80	693.8	28.8	665.0 ✓
90		22.8	71.0 ✓

Plotted 9-7-54 CBK

N 3700

693.8

6400	18.3	675.5 ✓
10	14.8	79.0 ✓
20	10.5	83.3 ✓

N 3710 (complete)

6510	o.G.	11.7	82.1 ✓
6500		6.4	87.4 ✓
6490		2.4	91.4 ✓
80		0.2	93.6 ✓
70		0.4	93.4 ✓
60		0.7	93.1 ✓
50		1.6	92.2 ✓
40		1.7	92.1 ✓
30		1.9	91.9 ✓
20		4.8	89.0 ✓
10		7.6	86.2 ✓
6400		11.9	81.9 ✓
6390		17.7	76.1 ✓
80		23.4	70.4 ✓
70		28.8	65.0 ✓
60		30.2	63.6 ✓
50		32.9	60.9 ✓
46		37.6	56.2 ✓
30	658.9	7.5	651.4 ✓
20		13.2	457 ✓

N 3710

42

658.9

6310	18.7	640.2 ✓	
6300	24.8	34.1 ✓	
6290	31.1	27.8 ✓	
80	36.7	22.2 ✓	
70	41.8	17.1 ✓	
60	o.G.	46.4	12.5 ✓

N 3720

6250	o.G.	38.9	620.0 ✓
60		37.4	21.5 ✓
70		36.0	22.9 ✓
80		32.1	26.8 ✓
90		25.7	33.2 ✓
6300		19.5	39.4 ✓
10		13.0	45.9 ✓
20		7.3	51.6 ✓
30		1.5	57.4 ✓
40	693.8	3.1.3	662.5 ✓
50		26.7	67.1 ✓
60		21.6	72.2 ✓
70		21.3	72.5 ✓
80		18.6	75.2 ✓
90		12.8	81.0 ✓
6400		5.6	88.2 ✓
10		2.3	91.5 ✓

Plotted 9-7-34 GSK

N 3720

693.8

6420		2.7	691.1 ✓
30		2.2	91.6 ✓
40		1.7	92.1 ✓
50		1.3	92.5 ✓
60		0.5	93.3 ✓
70		0.0	93.8 ✓
80		1.5	92.3 ✓
90		7.0	86.8 ✓
6500	O.G.	11.0	82.8 ✓

N 3730

6490	O.G.	10.2	683.6 ✓
80		5.2	88.6 ✓
70		0.0	93.8 ✓
60		0.7	93.1 ✓
50		1.5	92.3 ✓
40		2.3	91.5 ✓
30		2.6	91.2 ✓
20		1.6	92.2 ✓
10		1.4	92.4 ✓
6400		2.9	90.9 ✓
6390		8.2	85.6 ✓
80		11.1	82.7 ✓
70		11.0	82.8 ✓
60		15.2	78.6 ✓

N 3730

43

693.8

6350		20.2	673.6 ✓
40		25.5	68.3 ✓
30		30.9	62.9 ✓
20		37.0	56.8 ✓
10	658.9	8.4	650.5 ✓
6300		15.3	43.6 ✓
6290		21.3	37.6 ✓
80		27.3	31.6 ✓
70		30.5	28.4 ✓
60		31.5	27.4 ✓
50		34.0	24.9 ✓
40	O.G.	34.5	24.4 ✓

N 3740

6230		31.5	627.4 ✓
40		30.2	28.7 ✓
50		28.0	30.9 ✓
60		25.5	33.4 ✓
70		24.2	34.7 ✓
80		22.2	36.7 ✓
90		17.3	41.6 ✓
6300		11.0	47.9 ✓
10		4.0	54.9 ✓
20	693.8	32.6	661.2 ✓
30		26.0	67.8 ✓

Plotted 9/24/68

N 3740

693.8

6340		20.4	673.4 ✓
50		14.8	79.0 ✓
60		9.6	84.2 ✓
70		4.3	89.5 ✓

End Aug. 21,

Start Aug. 23,

B.M.

2.14

695.44 = Level

693.30

12.42

683.02 ✓

0.57

683.59

12.68

670.91 ✓

3.74

674.65 = Transit

N 3740

6380	695.4	5.2	690.2 ✓
90		7.4	88.0 ✓
6400		4.9	90.5 ✓
10		3.0	92.4 ✓
20		3.4	92.0 ✓
30		4.5	90.9 ✓
40		4.1	91.3 ✓
50		3.5	91.9 ✓
60		2.2	93.2 ✓
70		5.4	90.0 ✓
80	O.G.	10.9	84.5 ✓

N 3750

44

695.4

6470		10.3	685.1 ✓
60		4.9	90.5 ✓
50		3.8	91.6 ✓
40		4.3	91.1 ✓
30		4.6	90.8 ✓
20		4.7	90.7 ✓
10		4.8	90.6 ✓
6400		4.7	90.7 ✓
6390		4.6	90.8 ✓
80		5.0	90.4 ✓
70		4.8	90.6 ✓
60		6.4	89.0 ✓
50		11.7	83.7 ✓
40		18.2	77.2 ✓
30		23.5	71.9 ✓
20	674.65	9.0	665.6 ✓
10		15.8	58.8 ✓
6300		22.7	51.9 ✓
6290		29.0	45.6 ✓
80		30.9	43.7 ✓
70		32.3	42.3 ✓
60		34.4	40.2 ✓
50		36.9	37.7 ✓
40		40.0	34.6 ✓
30		43.3	31.3 ✓
20	O.G.	44.0	30.6 ✓

Plotted 9/31/68

N 3760

674.7

6210	O.G.	43.4	631.3	✓
20		40.7	34.0	✓
30		36.7	38.0	✓
40		33.5	41.2	✓
50		30.0	44.7	✓
60		27.2	47.5	✓
70		25.1	49.6	✓
80		23.3	51.4	✓
90		22.3	52.4	✓
6300		19.6	55.1	✓
10		13.0	61.7	✓
20		6.0	68.7	✓
30	695.4	20.2	675.2	✓
40		13.9	81.5	✓
50		7.7	87.7	✓
60		4.6	90.8	✓
70		4.5	90.9	✓
80		4.9	90.5	✓
90		4.5	90.9	✓
6400		4.6	90.8	✓
10		5.1	90.3	✓
20		5.1	90.3	✓
30		4.8	90.6	✓
40		4.4	91.0	✓
50		3.9	91.5	✓
60	O.G.	9.5	85.9	✓

N 3770

45

695.4

6450	O.G.	8.8	686.6	✓
40		4.4	691.0	✓
30		5.1	690.3	✓
20		5.4	690.0	✓
10		4.8	690.6	✓
6400		4.7	690.7	✓
6390		4.4	691.0	✓
80		4.7	690.7	✓
70		4.8	690.6	✓
60		4.6	690.8	✓
50		4.4	691.0	✓
40		10.7	684.7	✓
30		16.9	678.5	✓
20		24.4	671.0	✓
10	674.7	10.0	664.7	✓
6300		13.2	661.5	✓
6290		14.6	660.1	✓
80		15.8	658.9	✓
70		17.7	657.0	✓
60		20.4	654.3	✓
50		23.9	650.8	✓
40		27.1	647.6	✓
30		30.6	644.1	✓
20		34.6	640.1	✓
10		38.6	636.1	✓

Reduced & plotted by G.B.X. 2-4-34

N 3770

674.7

6200	42.6	632.1'
6190	46.1	628.6'
80	49.2	625.5'
70	53.8	620.9'
60	55.7	619.0'
50	58.3	616.4'

O.G.

N 3780

6160	52.5	622.2'
70	50.2	624.5'
80	46.6	628.1'
90	42.1	632.6'
6200	37.5	637.2'
10	33.4	641.3'
20	29.0	645.7'
30	24.9	649.8'
40	20.7	654.0'
50	16.4	658.3'
60	12.9	661.8'
70	9.9	664.8'
80	7.7	667.0'
90	6.9	667.8'
6300	6.4	668.3'
10	4.4	670.3'
20	1.4	673.3'
30	15.8	679.6'

695.4

N 3780

46

695.4

6340	8.9	686.5'
50	3.6	691.8'
60	4.3	691.1'
70	4.1	691.3'
80	4.1	691.3'
90	4.6	690.8'
6400	4.6	690.8'
10	4.9	690.5'
20	5.5	689.9'
30	4.1	691.3'
40	8.0	687.4'

Reduced to
O.G. 9-4-34

O.G.

N 3790

6430	O.G.	7.2	688.2'
20		5.4	690.0'
10		5.0	690.4'
6400		4.9	690.5'
6390		3.4	692.0'
80		3.3	692.1'
70		2.6	692.8'
60		2.1	693.3'
50		5.1	690.3'
40		9.0	686.4'
30		12.9	682.5'
20		16.0	679.4'

N 3790

695.4

6310		18.5	676.9'
6300		20.0	675.4'
6290		20.7	674.7'
80		21.9	673.5'
70	674.7	24.4	671.0'
60		6.5	668.2'
50		10.5	664.2'
40		14.4	660.3'
30		18.7	656.0'
20		23.6	651.1'
10		27.9	646.8'
6200		31.3	643.4'
6190		35.9	638.8'
80		40.4	634.3'
70		44.5	630.2'
60	O.G.	48.1	631.6'

N 3800

6170	O.G.	36.7	638.0'
80		34.1	640.6'
90		30.3	644.4'
6200		25.7	649.0'
10		21.7	653.0'
20		17.9	656.8'
30		13.3	661.4'
40		8.1	666.6'

N 3800

47

674.7

6250		4.1	670.6'
60		0.5	674.2'
70	695.4	17.8	677.6'
80		15.4	680.0'
90		13.2	682.2'
6300		12.0	683.4'
10		10.5	684.9'
20		8.4	687.0'
30		6.0	689.4'
40		2.8	692.6'
50		+ 1.5	696.9'
60		+ 3.2	698.6'
70		+ 0.9	696.3'
80		2.5	692.9'
90		3.9	691.5'
6400		5.1	690.3'
10		5.3	690.1'
20		5.9	689.5'
30	O.G.	6.8	688.6'
T.P.		0.02	695.42

12.69 708.11'

N 3810

6420	O.G.	18.8	689.3'
10		18.3	689.8'

Reduced to
C.B.H. 7-4-34

N 3810

708.1

6400	17.6	690.5'
6390	16.2	691.9'
80	13.0	695.1'
70	7.3	700.8'
60	2.6	705.5'
50	4.7	703.4'
40	8.3	699.8'
30	11.6	696.5'
20	14.6	693.5'
10	16.0	692.1'
6300	17.5	690.6'
6290	18.7	689.4'
80	20.5	687.6'
70	23.8	684.3'
60	15.0	680.4'
50	18.6	676.8'
40	23.1	672.3'
30	7.4	667.3'
20	11.0	663.7'
10	15.0	659.7'
6200	19.1	655.6'
6190	23.5	651.2'
80	28.3	646.4'
70	31.0	643.7'
60	32.3	642.4'

695.4

674.7

o.g.

N 3820

48

674.7

6160	28.5	646.2'
70	26.5	648.2'
80	22.4	652.3'
90	17.6	657.1'
6200	12.8	661.9'
10	8.1	666.6'
20	4.3	670.4'
30	0.5	674.2'
40	31.1	677.0'
50	26.3	681.8'
60	21.1	687.0'
70	17.5	690.6'
80	13.8	694.3'
90	11.6	696.5'
6300	10.0	698.1'
10	9.1	699.0'
20	6.9	701.2'
30	4.9	703.2'
40	1.5	706.6'
T.P.	2.39	705.72'

Reduced to 1984 C.R.A. 9-4-34

708.1

End Aug. 23,

Start Aug. 27

Level = 4.25 709.97'

6350	1.4	708.6'
60	1.9	708.1'

N 3820

709.97

6370		6.5	703.5 ✓
80		13.0	697.0 ✓
90		18.1	691.9 ✓
6400		19.1	690.9 ✓
10	O.G.	19.8	689.2 ✓

N 3830

6390	O.G.	18.7	691.3 ✓
80		14.2	695.8 ✓
70		8.2	701.8 ✓
60		3.4	706.6 ✓
50		2.7	707.3 ✓
40		3.1	706.9 ✓
30		3.3	706.7 ✓
20		2.6	707.4 ✓
10		4.7	705.3 ✓
6300		5.0	705.0 ✓
6290		5.9	704.1 ✓
80		9.1	700.9 ✓
70		11.7	698.3 ✓
60		16.9	693.1 ✓
50		21.0	689.0 ✓
40		25.0	685.0 ✓
30		28.8	681.2 ✓
20		32.5	677.5 ✓

662.65

T.P. 12

Transit: 12.59 675.24 ✓

N 3830

49

675.24

6210		1.4	673.8 ✓
6200		6.4	668.8 ✓
6190		11.6	663.6 ✓
80		16.6	658.6 ✓
70		21.5	653.7 ✓
60	O.G.	24.1	651.1 ✓

N 3840

6160	O.G.	21.0	654.2 ✓
70		17.1	658.1 ✓
80		11.9	663.3 ✓
90		6.6	668.6 ✓
6200		1.1	674.1 ✓
T.P.		0.60	674.64

13.10 687.74 ✓

6210		8.6	679.1 ✓
20		3.9	683.8 ✓
30	709.97	21.8	688.2 ✓
40		18.6	691.4 ✓
50		14.6	695.4 ✓
60		11.7	698.3 ✓
70		6.5	703.5 ✓
80		4.0	706.0 ✓
90		3.4	706.6 ✓
6300		2.5	707.5 ✓

Reduced at 2 Plotted 9-4-34
D.B.A.

N 3840

709.97

6310		3.1	706.9'
20		2.9	707.1'
30		3.0	707.0'
40		2.8	707.2'
50		4.4	705.6'
60		9.6	700.4'
70		13.9	696.1'
80	O.G.	18.0	692.0'

N 3850

6367	O.G. Toe	17.2	692.8'
60		14.6	695.4'
50		9.6	700.4'
40		5.1	704.9'
30		1.8	708.2'
20		2.4	707.6'
10		2.4	707.6'
6300		2.6	707.4'
6290		2.7	707.3'
80		2.8	707.2'
70		3.6	706.4'
60		7.0	703.0'
50		9.3	700.7'
40		12.6	697.4'
30		15.9	694.1'
20		20.2	689.8'
10	687.74	3.3	684.4'

N 3850

50

687.74

6200		8.5	679.2'
6190		13.7	674.0'
80		19.0	668.7'
70		24.2	663.5'
60		28.2	659.5'
50	O.G.	31.4	656.3'

N 3860

6150	O.G.	28.0	659.7'
60		24.1	663.6'
70		18.5	669.2'
80		14.1	673.6'
90		8.9	678.8'
6200		3.4	684.3'
10		20.4	689.6'
20		14.7	695.3'
30		10.3	699.7'
40		6.5	703.5'
50		3.6	706.4'
60		3.3	706.7'
70		2.9	707.1'
80		2.6	707.4'
90		2.3	707.7'
6300		2.3	707.7'
10		1.8	708.2'

Reduced & ok by BBA 9-4-34
Plotted

N 3860

709.97

6320		3.9	706.1 ✓
30		7.2	702.8 ✓
40		11.4	698.6 ✓
50	O.G.	16.2	693.8 ✓

N 3870

6340	O.G.	15.5	694.5 ✓
30		14.1	695.9 ✓
20		9.4	700.6 ✓
10		6.7	703.3 ✓
6300		3.7	706.3 ✓
6290		2.0	708.0 ✓
80		2.2	707.8 ✓
70		2.6	707.4 ✓
60		2.7	707.3 ✓
50		3.1	706.9 ✓
40		3.5	706.5 ✓
30		5.7	704.3 ✓
20		9.7	700.3 ✓
10		15.2	794.8 ✓
6200		19.5	790.5 ✓
6190	687.74	3.0	684.7 ✓
80		8.6	679.1 ✓
70		13.5	674.2 ✓
60		18.6	669.1 ✓
50		23.0	664.7 ✓
40	O.G.	25.2	662.5 ✓

N 3880

51

687.74

6140	O.G.	2.1.1	666.6 ✓
50		19.0	668.7 ✓
60		13.5	674.2 ✓
70		8.2	679.5 ✓
80		3.1	684.6 ✓
90	709.97	19.6	690.4 ✓
6200		14.0	696.0 ✓
10		8.9	701.1 ✓
20		5.2	704.8 ✓
30		4.0	705.0 ✓
40		3.8	706.2 ✓
50		3.6	706.4 ✓
60		3.0	707.0 ✓
70		2.4	707.6 ✓
80		2.4	707.6 ✓
90		4.8	705.2 ✓
6300		9.3	700.7 ✓
10		12.9	697.1 ✓
20	O.G.	14.7	695.3 ✓

Reduced vol by Lab 9-4-34
Plotted by

N 3890

6310	O.G.	14.4	695.6 ✓
6300		14.1	695.9 ✓
6290		11.1	698.9 ✓
80		6.5	703.5 ✓

N 3890

709.97

6270		2.8	707.2'
60		2.9	707.1'
50		3.1	706.9'
40		3.6	706.4'
30		4.1	705.9'
20		4.5	705.5'
10		4.8	705.2'
6200		9.3	700.7'
6190		14.8	695.2'
80	687.74	19.3	690.7'
70		2.8	684.9'
60		8.6	679.1'
50		13.9	673.8'
40	O.G.	15.9	671.8'

N 3900

6150	O.G.	11.0	676.7'
60		4.3	683.4'
76	709.97	19.3	690.7'
80		14.5	695.5'
90		8.7	701.3'
6200		6.2	703.8'
10		5.4	704.6'
20		4.6	705.4'
30		4.1	705.9'
40		3.7	706.3'

N 3900

52

709.97

6250		2.8	707.2'
60		4.7	705.3'
70		9.6	700.4'
80		12.2	697.8'
90	O.G.	13.9	696.1'

N 3910

6270	O.G.	13.3	696.7'
60		10.0	700.0'
50		4.8	705.2'
40		4.0	706.0'
30		4.3	705.7'
20		5.0	705.0'
10		6.0	704.0'
6200		6.8	703.2'
6190		7.2	702.8'
80		9.2	700.8'
70		14.0	696.0'
60	Boulder = Average	23.0	687.0'
50	O.G.	7.6	680.1'

Reduce by 200 74-34
Boulder

N 3920

T.P.		0.97	686.77
	12.82	699.59	
6160		7.5	692.1'
70		0.3	699.3'

N 3920

709.97

6180		8.1	701.9 ✓
90		7.7	702.3 ✓
6200		7.1	702.9 ✓
10		6.4	703.6 ✓
20		5.6	704.4 ✓
30		6.7	703.3 ✓
40		9.2	700.8 ✓
50		11.7	698.3 ✓
60	O.G.	12.9	697.1 ✓

N 3930

6230	O.G.	11.7	698.3 ✓
20		10.0	700.0 ✓
10		6.8	703.2 ✓
6200		8.0	702.0 ✓
6190		8.2	701.8 ✓
80		8.6	701.4 ✓
70	O.G.	9.8	700.2 ✓

All
 reduced
 checked
 plotted

N 3940 = O.G. very nearly

6160		7.8	702.2 ✓
70		9.8	701.2 ✓
80		9.0	701.0 ✓
90		9.2	700.8 ✓
6200		10.0	700.0 ✓
T.P. Level		11.08	698.89 ✓
T.P. Transit		0.71	698.88 ✓ check

Spoil West of Dam Cont. from P. 31

593.42 = level
 0.84 592.58
 12.59 605.17

N 4370

3950^{og.} 17.6 587.6
 60 17.1 88.1
 70 16.5 88.7
 80 15.9 89.3
 90 17.6 87.6
 4000 17.6 87.6
 10 11.7 93.5
 20 8.7 96.5
 30 6.8 98.4
 40 6.7 98.5
 50 6.6 98.6
 60 6.4 98.8
 70 2.5 602.7

Plotted - checked & Reduced Oct. 8-34 C.M.

627.92

80 18.6 609.3
 90 15.1 128
 4100 8.3 19.6
 10 6.2 21.7
 20 4.8 23.1
 30 4.9 23.0

N 4370

627.92

4140 7.2 620.7
 50 8.7 19.2
 60 9.3 18.6
 70 10.4 17.5
 80 9.5 18.4
 90 8.6 19.3
 4200 8.2 19.7
 10 7.6 20.3
 20 7.3 20.6
 30 6.2 21.7
 40 5.1 22.8
 50 4.3 23.6
 60 3.4 24.5
 70 2.5 27.4
 80 1.5 26.4
 90^{og.} 0.9 27.0

Plotted - checked & Reduced Oct. 8-34 C.M.

on Road fill

4310^{og.} 0.0 627.9
 4300 0.4 27.5
 4290 0.9 27.0
 80 1.5 26.4
 70 1.4 26.5
 60 1.4 26.5

N 4380

62792

4250	0.5	627.4
40	0.6	27.3
30	5.6	223
20	6.3	216
10	7.0	209
4200	7.4	205
4190	6.0	219
T.P.	124	626.68
847	<u>635.15</u>	
4180	5.6	629.6
70	5.5	29.7
60	5.8	29.4
50	5.6	29.6
40	5.5	29.7
30	5.5	29.7
20	5.5	29.7
10	5.5	29.7
4100	5.5	29.7
4090		21.5
80	Interpolate	13.4
70	605.17	605.2
60	4.5	600.7
50	6.3	598.9
40	6.4	98.8

Plotted - Checked & Reduced 10-8-34
CBH

605.17

4030	6.3	598.9
20	6.6	98.6
10	14.0	91.2
4000	21.9	83.3
Toe of fill on washed in material		
3990		83.6
3980	aa.	83.4
3980	aa.	82.8
same 3990	fill	82.3
4000	23.0	82.2
10	14.4	90.8
20	6.4	98.8
T.P.	1.47	603.70 on Rock

T.P. Transit
635.15

6.20

628.95

Plotted
K x Reduced Oct 8-34 CBH

4390

609.9		
4030	11.2	598.7
40	9.7	600.2
50	8.4	01.5
60	5.1	04.8
70	3.7	06.2
B.M. 624	635.19 = Tr	628.95
80	interp.	18.0
90	5.4	29.8
4100	5.6	29.6
10	5.5	29.7

Start Oct. 11, 1934
Osborne - Remmen - Adams

N 4390

635.19

4120	5.4	629.8 ^v
30	5.7	29.5 ^v
40	5.8	29.4 ^v
50	5.8	29.4 ^v
60	5.8	29.4 ^v
70	5.6	29.6 ^v
80	5.4	29.8 ^v
90	5.4	29.8 ^v
4200	5.6	29.6 ^v
10	6.0	29.2 ^v
20	6.3	28.9 ^v
30	7.2	28.0 ^v
40	7.7	27.5 ^v
50	7.9	27.3 ^v
60	7.3	27.9 ^v
70	7.5	27.7 ^v
80	7.7	27.5 ^v
90	7.9	27.3 ^v
4300	7.7	27.5 ^v
10	7.2	28.0 ^v
20	6.8	28.4 ^v
30 OG.	2.9	32.3 ^v

Checked & plotted 10-24-30 CBH.

N 4400

56

635.19

4320 OG.	2.8	632.4 ^v
10	6.4	28.8 ^v
4300	5.3	29.9 ^v
4290	5.1	30.1 ^v
80	4.2	31.0 ^v
70	5.1	30.1 ^v
60	4.7	30.5 ^v
50	5.0	30.2 ^v
40	5.6	29.6 ^v
30	5.3	29.9 ^v
20	4.5	30.7 ^v
10	5.0	30.2 ^v
4200	5.6	29.6 ^v
4190	5.3	29.9 ^v
80	5.2	30.0 ^v
70	5.5	29.7 ^v
60	5.5	29.7 ^v
50	5.7	29.5 ^v
40	5.8	29.4 ^v
30	5.6	29.6 ^v
20	5.4	29.8 ^v
10	5.4	29.8 ^v
4100	5.4	29.8 ^v
4090	5.2	30.0 ^v
85	5.2	30.0 ^v

Checked & plotted CBH.

N4400

635.19

4080	13.1	62.2
70	19.0	16.2
60	+ 1.0	10.9
50	2.3	07.6
40	7.2	02.7
30	9.0	00.9
20	11.3	598.6
10	19.2	90.7
4000	27.4	82.5
3990	28.6	81.3
3980 OG.	28.5	81.4

checked & plotted 68X

N 4410

3980 OG.	29.6	80.3
90	29.2	80.7
4000	29.1	80.8
10	21.3	88.6
20	13.0	96.9
T.P. 064	604.34	603.70
30	0.0	604.3
	635.19	
T.P.	12.87	622.32

2.30 624.62

N 4410

57

624.62

4040	13.3	611.3
50	11.0	13.6
60	7.1	17.5
70	1.9	22.7
80	5.1	30.1
90	5.1	30.1
4100	5.2	30.0
10	5.2	30.0
20	5.3	29.9
30	5.6	29.6
40	5.8	29.4
50	5.5	29.7
60	5.4	29.8
70	5.3	29.9
80	5.2	30.0
90	5.0	30.2

checked & plotted 68X

Cont. on page 26

Cont. on page 26

N 4420

4170	4.9	30.3
60	5.1	30.1
50	5.2	30.0
40	5.3	29.9
30	5.3	29.9
20	5.3	29.9
10	5.3	29.9

N 4420

635.19

4100	5.2	630.0 ^v
4090	5.1	30.1 ^v
80	5.1	30.1 ^v
70	5.2	30.0 ^v
60	9.7	25.5 ^v
50	<u>624.6</u> 5.7	18.9 ^v
40	12.9	11.7 ^v
30	<u>604.34</u> 0.5	03.8 ^v
20	7.4	596.9 ^v
10	15.2	89.1 ^v
4000	23.9	80.4 ^v
3990	24.0	80.3 ^v
3980	24.3	80.0 ^v
3978.06	24.2	80.1 ^v

checked and plotted 20th

N 4430

3978.06	24.6	79.7 ^v
90	24.5	79.8 ^v
4000	24.3	80.0 ^v
10	17.8	86.5 ^v
20	10.2	94.1 ^v
30	2.9	601.4 ^v
40	<u>624.6</u> 16.3	08.3 ^v
50	9.0	15.6 ^v

N 4430

58

635.19

4060	11.2	624.0 ^v
70	4.4	30.8 ^v
80	5.0	30.2 ^v
90 90	4.8	30.4 ^v
4100	5.2	30.0 ^v
10	5.4	29.8 ^v
20	5.3	29.9 ^v
30	5.2	30.0 ^v
40	4.9	30.3 ^v
50	4.7	30.5 ^v
60	4.2	31.0 ^v
70	3.8	31.4 ^v
80	0.8	34.4 ^v
90	+ 3.4	38.6 ^v

checked and plotted 20th

See Page 25 to Complete Section

N 4440

Transit.		
T.P. 6.28	635.23	628.95
4180	<u>647.5</u> = Hand Level 7.6	39.9 ^v
70	10.9	36.6 ^v
60	1.0	<u>635.2</u> 34.2 ^v
50	4.0	31.2 ^v
40	4.4	30.8 ^v
30	4.8	30.4 ^v

N 4440

635.2

4120	5.1	630.1'
10	5.3	29.9'
4100	5.1	30.1'
4090	4.8	30.4'
80	5.0	30.2'
75	4.5	30.7'
70	7.2	28.0'
60	15.1	20.1'
50	21.6	13.6'
40	29.3	05.9'
level		
T.P.	3.93	<u>607.63</u> 603.70
30	8.9	598.7'
20	16.4	91.2'
4016	23.3	84.3'
4000	28.4	79.2'
3990	28.6	79.0'
8000	28.4	79.2'

Checked and Plotted

647.5

see page 23

N 4450

4180	0.6	646.9'
70	4.4	43.1'
60	6.5	41.0'
50	10.8	36.7'
40	<u>635.2</u> 3.4	31.8'
30	4.4	30.8'

N 4450

16
29

59

635.2

4120	4.6	30.6'
10	4.7	30.5'
4100	4.6	30.6'
4090	4.4	30.8'
80	4.1	31.1'
70	10.3	24.9'
60	17.6	17.6'
50	25.1	10.1'
40	<u>607.6</u> 4.8	02.8'
30	12.3	59.5.3'
20	19.7	87.9'
10	26.7	80.9'
4005	28.9	78.7'
3990	29.2	78.4'
8000	28.0	79.0'

Checked & Plotted

647.5

N 4460

4160	0.5	647.0'
50	5.7	41.8'
40	11.2	36.3'
30	<u>635.2</u> 3.7	31.5'
20	4.2	31.0'
10	4.2	31.0'
4100	4.0	31.2'

N4460

635.2

4090	4.1	631.1
80	8.5	26.7
70	15.0	20.2
60	21.9	13.3
50	<u>607.6</u> 0.9	06.7
40	8.2	599.4
30	15.5	92.1
20	22.2	85.4
10	29.1	78.5
4000	29.8	77.8
3990 og.	29.4	78.2

672.9

4190	6.9	666.0
80	10.3	62.6
70	<u>759.9</u> 2.4	57.5
60	7.8	52.1
50	13.3	46.6
40	<u>647.5</u> 6.6	40.9
30	12.0	35.5
20	<u>635.2</u> 3.7	31.5
10	3.9	31.3
4100	3.8	31.4

checked and plotted B&H

N4470

N4470

635.2

4090	5.3	29.9
80	12.1	23.1
70	18.7	16.5
60	25.7	09.5
50	<u>607.6</u> 5.1	02.5
40	11.9	595.7
30	18.2	89.4
20	24.4	83.2
10 og.	25.8	81.8

N4480

4000 og.	30.2	77.4
10	27.3	80.3
20	24.5	83.1
30	21.4	86.2
40	16.0	91.6
50	9.6	98.0
60	3.4	604.2
T.P.	5.51	602.12

checked & plotted B&H

7.17 609.29

635.2

4070	23.7	11.5
80	16.8	18.4
90	10.9	24.3
4100	6.4	28.8

13
102

60

N 4480

635.2

4110	4.9	630.3
20	0.7	34.5
30	<u>647.5</u>	39.9
40	7.6	45.4
50	<u>659.9</u>	51.1
60	8.8	56.9
70	<u>672.9</u>	62.9
80	10.0	68.2
	4.7	

N 4490

4170	4.6	68.3
60	10.3	62.6
50	<u>659.9</u>	56.4
40	3.5	50.6
30	<u>647.5</u>	43.6
20	3.9	38.8
10	8.7	32.9
	<u>635.2</u>	
4100	2.3	26.7
4090	8.5	20.5
80	14.7	14.0
	21.2	
70	<u>609.3</u>	07.8
60	1.5	01.7
50	7.6	595.6
40	13.7	91.6
30	17.7	87.9
	21.4	

checked and plotted 60%

N 4490

609.3

4020	25.1	584.2
10	28.0	81.3
4000	og. 28.6	807

N 4500

3990	og. 30.2	79.1
4000	29.0	80.3
10	27.8	81.6
20	25.3	84.0
30	21.9	87.4
40	17.3	92.0
50	11.2	98.1
60	5.2	604.1
70	<u>635.2</u>	10.6
80	24.6	15.7
90	19.5	22.4
4100	12.8	30.4
	4.8	
10	<u>646.7</u>	36.4
	10.3	
20	4.1	42.6
	<u>659.9</u>	
30	12.1	47.8
40	5.9	54.0
50	<u>672.9</u>	60.9
	12.0	
60	5.5	67.4

checked & plotted 60%

N 4510

659.9

4140	0.7	659.2
30	6.8	53.1
20	13.2	46.7
10	<u>646.7</u>	38.5
	8.2	
4100	<u>635.2</u>	31.9
	3.3	
4090	7.9	27.3
80	14.2	21.0
70	20.8	14.4
60	<u>609.3</u>	07.9
	1.4	
50	7.7	01.6
40	15.0	594.3
30	21.0	88.3
20	26.5	82.8
10	28.2	81.1
4000	30.7	78.6
3990	29.6	79.7
80 00	28.8	80.5

checked and plotted each

End. Oct. 12, 1934

Start Oct. 15, 1934

B.M. 709 636.04 628.95

0.34 635.70

12.19 647.89 = Transit

B.M. 11.85 613.97^{level} 602.12

N 4520

62

613.97

3980 0.0	33.9	580.1
90	35.8	78.2
4000	36.0	78.0
10	33.5	80.5
20	29.4	84.6
30	22.9	91.1
40	16.3	97.7
50	9.8	604.2
60	3.1	10.9
70	<u>647.9</u>	17.7
	30.2	
80	23.8	24.1
90	17.0	30.9
4100	10.4	37.5
10	5.2	42.7
	<u>659.9</u>	
20	10.9	49.0
30	3.5	56.4
	<u>672.9</u>	
40	9.0	63.9

checked and plotted each

See P. 16

N 4530

4140	6.5	66.4
30	12.2	60.7
	<u>659.9</u>	
20	4.8	55.1
10	11.7	48.2
	<u>647.9</u>	
4100	6.2	41.7

N 4530

647.9

4090	13.2	634.7
80	20.1	278
70	26.9	21.0
60	<u>614.0</u> 0.0	14.0
50	6.5	07.5
40	13.2	00.8
30	19.9	594.1
20	26.9	87.1
10	32.4	81.6
4000	34.0	80.0
3990	35.8	78.2
80 OG	37.0	77.0

N 4540

3990 OG	35.1	78.9
4000	33.8	80.2
10	32.2	81.8
20	26.3	87.7
30	18.7	95.3
40	12.0	602.0
50	4.9	09.1
60	<u>647.9</u> 31.8	16.1
70	24.7	23.2
80	17.7	30.2
90	9.6	38.3

N 4540

63

647.9

4100	2.9	645.0
10	<u>659.9</u> 7.4	52.5
20	<u>672.9</u> 0.6	59.3
30	6.2	66.7

N 4550

4130	2.1	70.8
20	9.7	63.2
10	<u>659.9</u> 3.7	56.2
4100	11.1	48.8
4090	<u>647.9</u> 6.6	41.3
80	13.8	34.1
70	21.7	26.2
60	29.3	18.6
50	<u>614.0</u> 2.5	11.5
40	9.6	04.4
30	16.4	597.6
20	23.4	90.6
10	30.0	84.0
4000	31.8	82.2
3990	33.6	80.4
80 OG	34.6	79.4

N 4560

614.6

3980 OG.	32.8	581.2
90	32.7	81.3
4000	31.0	83.0
10	27.8	86.2
20	23.5	90.5
30	16.3	97.7
40	9.3	604.7
50	1.9	12.1
60	<u>647.9</u>	28.5
70	20.4	27.5
80	12.4	35.5
90	4.8	43.1
4100	<u>659.9</u>	8.6
10	<u>672.9</u>	1.4
20	7.1	65.8

E.S.H.

checked and plotted

N 4570

4120	4.2	68.7
10	11.9	61.0
4100	<u>659.9</u>	6.4
4090	<u>647.9</u>	2.3
80	10.6	37.3
70	19.0	28.9
60	26.8	21.1
50	<u>614.0</u>	0.7
40	7.9	06.1

N 4570

64

614.0

4030	15.2	598.8
20	22.8	91.2
10	27.3	86.7
4000	30.5	83.5
3990	32.3	81.7
80 OG.	32.6	81.4

N 4580

3980 OG.	32.4	81.6
90	32.3	81.7
4000	30.9	83.1
10	27.4	86.6
20	22.6	91.4
30	15.4	98.6
40	7.9	606.1
50	0.2	13.8
60	<u>647.9</u>	26.5
70	18.5	29.4
80	10.5	37.4
90	1.8	46.1
4100	<u>659.9</u>	6.0
10	<u>672.9</u>	11.1
20	3.3	69.6
T.P. 12.04	647.74	635.70

E.S.H.

checked and plotted

N 4590

672.9

4120	3.4	669.5
10	11.1	61.8
4100	6.0	53.9
4090	2.1	45.6
80	9.8	37.9
70	17.9	29.8
60	26.0	21.7
50	0.0	14.0
40	7.2	06.8
30	14.6	599.4
20	22.1	91.9
10	28.1	85.9
4000	30.7	83.3
3990	31.3	82.7
80 og.	31.2	82.8

checked and Plotted L&H

N 4600

3980 og.	31.3	82.7
90	31.7	82.3
4000	31.6	82.4
10	28.7	85.3
20	21.6	92.4
30	14.6	99.4
40	7.2	606.8
50	0.0	14.0

N 4600

65

647.7

4060	26.1	621.6
70	18.3	29.4
80	10.2	37.5
90	2.0	45.7
4100	6.3	53.6
10	11.6	61.3
20	4.1	68.8

checked and Plotted L&H

N 4610

4120	5.0	67.9
10	12.2	60.7
4100	7.0	52.9
4090	2.1	45.6
80	10.5	37.2
70	18.5	29.2
60	26.2	21.5
50	0.0	14.0
40	7.2	06.8
30	14.5	599.5
20	21.7	92.3
10	28.6	85.4
4000	31.8	82.2
3990	31.6	82.4
80 og.	31.8	82.2

N4620

614.0

3980	0.4	31.7	582.3
90		30.4	83.6
4000		31.4	82.6
4010		28.8	85.2
20		21.9	92.1
30		14.8	99.2
40		7.5	606.5
50	647.7	0.4	13.6
60		26.9	20.8
70		19.5	28.2
80		11.4	36.3
90	659.9	3.2	44.5
4100		7.8	52.1
10	672.9	0.0	59.9
20		4.9	68.0

Checked & Plotted 60X

N4630

4120		6.1	666.8
10	659.9	0.9	659.0
4100		9.1	650.8
4090	647.7	4.5	643.2
80		12.5	635.2
70		20.4	627.3
60		27.6	620.1
50	617.9	5.1	612.8

N4630

66

617.9

4040		12.3	605.6
30		19.3	598.6
20		26.3	591.6
10		32.8	585.1
4000		34.7	583.2
3990		35.2	582.7
80	0.4	35.0	582.9

N4640

3980	0.4	35.0	582.9
90		34.9	583.0
4000		35.5	582.4
10		32.0	585.9
20		27.7	590.2
30		20.5	597.4
40		13.5	604.4
50		6.5	611.4
60	647.7	29.3	618.4
70		21.9	625.8
80		13.7	634.0
90		5.5	642.2
4100	659.9	10.0	649.9
10		2.3	657.6
20	672.9	7.5	665.4

Reduced Checked and Plotted 60X

N 4650

695.9

4180	Missing	
70		
60	2.0	693.9
50	9.8	686.1
40	17.6	678.3
30	<u>672.9</u> 2.1	670.8
20	10.1	662.8
10	<u>659.9</u> 4.2	655.7
4100	12.0	647.9
4090	<u>647.7</u> 8.3	639.4
80	15.8	631.9
70	24.0	623.7
60	<u>617.9</u> 1.4	616.5
50	8.6	609.3
40	15.8	602.1
30	22.8	595.1
20	29.7	588.2
10	34.3	583.6
4000	36.2	581.5
3990 OG	35.8	581.9

N 4660

3990 OG	36.3	581.6
4000	35.2	582.7
10	34.8	583.1

N. 4660

67

617.9

4020	31.2	586.7
30	24.1	593.8
40	17.1	600.8
50	9.9	608.0
60	2.9	615.0
70	<u>647.7</u> 25.2	622.5
80	17.0	630.1
90	9.4	638.3
4100	1.5	646.2
10	<u>659.9</u> 6.3	653.6
20	<u>672.9</u> 11.9	661.0
30	4.1	668.8
40	<u>695.9</u> 19.4	676.5
50	11.3	684.6
60	3.2	692.7
70	if higher take	Esti. shot.
80	Missing	
90		

N 4670

Missing	<u>695.9</u>	
4160	7.2	688.7
50	15.4	680.5
40	23.1	672.8
30	<u>672.9</u> 7.1	665.8
20	<u>659.9</u> 2.1	657.8
10	8.6	651.3

N4670

6477

4100	4.2	6435
4090	12.2	6355
80	20.0	6277
70	27.2	6205
60	4.5	6134
50	11.5	6064
40	18.3	5996
30	25.3	5926
20	32.2	5857
10	34.9	5830
4000	34.0	5839
3990 o.g.	35.4	5825

Reduced checked and plotted ECH

N4680

3990 o.g.	35.8	5821
4000	34.6	5833
10	34.4	5835
20	32.0	5859
30	27.6	5903
40	20.4	5975
50	13.5	6044
60	6.7	6112
70	29.4	6183
80	22.5	6252

N4680

68

6477

4090	14.7	633.0
4100	7.2	640.5
10	659.9	647.7
20	12.2	6553
30	4.6	662.6
40	672.9	669.9
50	10.3	677.8
60	695.9	6856
70	18.1	6927
80	10.3	
90	3.2	

Missing

Reduced checked and plotted ECH

N4690

4170	9.2	6867
60	15.7	6802
50	22.5	6734
40	672.9	665.6
30	659.9	658.6
20	8.9	651.0
10	647.7	644.6
4100	3.1	636.7
4090	11.0	629.7
80	18.0	622.7
70	25.0	615.9
60	617.9	608.9
50	2.0	602.2
40	9.0	595.5
30	15.7	
20	22.4	

N 4690

617.9

4030	28.0	589.9
20	32.4	585.5
10	34.7	583.2
4000 a.g.	35.3	582.6

on Creek wash 1
Should be a.g.
end Oct. 22.
start Oct. 23.

N 4700

626.3

4060 a.g.	15.2	611.1
70	10.7	615.6
80	5.6	620.7
90	20.4	627.3
4100	13.6	634.1
10	6.5	641.2
20	0.5	648.2
30	4.9	655.0
40	11.2	661.7
50	4.4	668.5
60	11.3	675.4
70	4.4	682.3
80	+ 2.5	689.2

+90 + 4200

N 4710

A260	+ 7.2	693.9
4190	+ 1.7	688.4
80	3.7	683.0

N 4710

69

686.7

4170	9.7	677.0
60	16.1	670.6
50	9.2	663.7
40	2.2	657.7
30	9.5	650.4
20	3.9	643.8
10	10.4	637.3
4100	17.0	630.7
4090	1.4	624.9
80	7.3	619.0
70	9.8	616.5
60 a.g.	13.7	612.6

Reduced checked & plotted BBH

N 4720

A053 a.g.	13.8	612.5
60	11.4	614.9
70	11.0	615.3
80	8.9	617.4
90	4.5	621.8
4100	20.1	627.6
10	13.9	633.8
20	7.7	640.0
30	1.8	645.9
40	7.0	652.9
50	1.2	658.7

N 4720

672.9		
4160	8.0	664.9
70	2.1	670.8
80	<u>686.7</u>	10.1 676.6
90	4.6	682.1
4200	+ 0.4	687.1

N 4730

4200	6.0	680.7
4190	10.1	676.6
80	<u>672.9</u>	1.8 671.1
70	7.0	665.9
60	12.7	660.2
50	<u>659.9</u>	5.4 654.5
40	11.9	648.0
30	<u>647.7</u>	5.3 642.4
20	11.3	636.4
10	17.3	630.4
4100	<u>626.3</u>	1.5 624.8
4090	7.5	618.8
80	9.3	617.0
70	10.5	615.8
60	12.6	613.7
50	OG. 13.6	612.7

Reduced checked & plotted 684

N 4740

70

626.3		
4060	OG. 13.8	612.5
70	12.4	613.9
80	8.1	618.2
90	7.4	618.9
4100	4.2	622.1
10	<u>647.7</u>	20.8 626.9
20	15.4	632.3
30	9.1	638.6
40	3.2	644.5
50	<u>659.9</u>	10.3 649.6
60	5.1	654.8
70	<u>672.9</u>	12.7 660.2
80	8.0	664.9
90	3.6	669.3
4200	13.2	673.5
10	10.0	676.7

Reduced checked & plotted 684

If this is higher than Est. shots take plotted line
been dumping here

N 4750

4220	OG. 15.6	671.1
10	16.1	670.6
4200	<u>672.9</u>	6.3 666.6
4190	9.1	663.8
80	<u>659.9</u>	0.2 659.7
70	4.6	655.3

N4750

6599

4160	9.4	650.5
50	2.4	645.3
40	7.3	640.4
30	10.1	637.6
20	17.0	630.7
10	24.3	623.4
4100	6.6	619.7
4090	7.0	619.3
80	10.3	616.0

Reduced - checked & plotted 6/24

N4760

4090	9.7	616.6
4100	7.3	619.0
05	7.1	619.2
21		635.4
4125	13.0	634.7
30	11.6	636.1
40	7.2	640.5
50	5.2	642.5

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ 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 both

of table in same row and column gives distance

level estimate the difference in elevation between

the side stake and slope stake by this

amount if cut, elevate it all. Add this amount

to cut. Set up. If it does not make the slight adjustment

necessary.

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 corrections.

Degree of curve with a given T may be found

by dividing tangent (or external), opposite T by

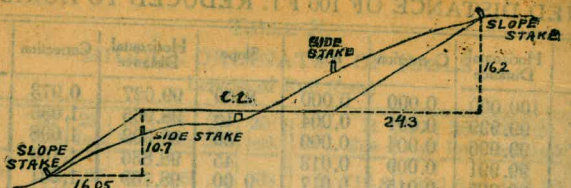
given tangent (or external).

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.

257
31.1
93
68
25



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.

12.0
5.2
6.8
13.0
19.8
13.0
32.8
4.4
28.4

$\begin{array}{r} 184 \\ 13 \\ \hline 31.6 \end{array}$
 $\begin{array}{r} 149 \\ 39 \\ \hline 53.8 \end{array}$
 $\begin{array}{r} 173 \\ 39 \\ \hline 5.83 \end{array}$

$\begin{array}{r} 70.8 \\ 2.5 \\ \hline 82 \end{array}$
 $\begin{array}{r} 108.1 \\ 25.7 \\ \hline 682.4 \end{array}$
 $\begin{array}{r} 695.6 \\ 13 \\ \hline 682.4 \end{array}$

$\begin{array}{r} 735.37 \\ 93.58 \\ \hline 111.79 \end{array}$

Oct 19,
 643.69 = T.P. on rock
 N.W. Cor. West spoil
 695.9
 685.9 Stake at top
 672.9 = " "

$\begin{array}{r} 794 \\ 172 \\ 93.6 \\ \hline 23.6 \end{array}$
 $\begin{array}{r} 10 \\ 12.5 \\ \hline 22.5 \end{array}$
 $\begin{array}{r} 704.59 \\ 1.45 \\ \hline 703.14 \\ 10.94 \\ \hline 714.08 \\ 0.40 \\ \hline 713.68 \end{array}$

$\begin{array}{r} 693.30 \\ 4.45 \\ \hline 697.75 \\ 688.29 \\ 5.19 \\ \hline 693.48 \end{array}$

1.99
 $\begin{array}{r} 657.63 \\ 12 \\ \hline 658.75 = Tr. \end{array}$

$\begin{array}{r} 657.68 \\ 1.17 - Aug 20 \\ \hline 658.85 = Tr. \\ 10.28 \\ \hline 648.57 = T.P. \\ 10.53 \\ \hline 659.10 = Tr \end{array}$

$\begin{array}{r} 693.30 \\ 2.14 = Aug 23 \\ \hline 695.44 = L \\ 12.42 \\ \hline 683.02 \\ 0.57 \\ \hline 683.59 \\ 12.68 \\ \hline 670.91 \\ 3.74 \\ \hline 674.65 = Tr. \\ 11.98 \\ \hline 662.67 = T.P. \\ 1.86 \\ \hline 664.53 \\ 7.94 \\ \hline 656.59 = .57 on B.M. \end{array}$

$\begin{array}{r} 46 \\ 4.0 \\ \hline 9.2 \\ 7.6 \\ \hline 618.29 \\ 5.82 \\ \hline 693.81 \end{array}$

$\begin{array}{r} 683.01 \\ 58.75 \\ \hline 24.26 \\ 693.30 \\ 2.53 \\ \hline 695.83 = Tr. \end{array}$

$\begin{array}{r} 693.30 \\ 6.50 \\ \hline 699.80 \\ 11.60 \\ \hline 688.20 = Rock \\ 5.19 \\ \hline 683.01 = L \\ 693.39 \end{array}$
 $\begin{array}{r} 693.30 \\ 3.35 \\ \hline 696.65 Aug 20 \\ 8.36 \\ \hline 688.29 Rock \\ 5.71 \\ \hline 694.00 = L \end{array}$

$\begin{array}{r} 648.57 \\ 10.85 \\ \hline 658.92 = Tr. \\ 693.30 - Aug 21 \\ 0.53 \\ \hline 693.83 = L \end{array}$