



Memorandum

To: Sudbury Conservation Commission
275 Old Lancaster Road
Sudbury, Massachusetts 01776

Date: January 23, 2018

Project #: 12970.02

From: Mark Costa, PE
Erika Towne, EIT

Re: Sudbury ANRAD – Updated Hop Brook Bordering Land Subject to
Flooding Delineation

Introduction

Vanasse Hangen Brustlin, Inc. (VHB) on behalf of the NSTAR Electric Company d/b/a Eversource Energy has submitted revised Abbreviated Notice of Resource Area Delineation (ANRAD) plans and supplemental information for the Sudbury-Hudson Transmission Reliability Project (the Project) in Sudbury, MA. The plans have been updated to include delineation of the Bordering Land Subject to Flooding (BLSF) for Hop Brook between Union Avenue and Landham Road. This memorandum:

- Outlines rationale for excluding the Hop Brook BLSF delineation, between Union Avenue and Landham Road, from the previous ANRAD submittal
- Describes the evaluation of FEMA record data and the previous Federal Emergency Management Agency (FEMA) Flood Insurance Studies (FIS)
- Provides conclusions and describes the delineation of the Hop Brook BLSF for the updated ANRAD plans (Updated Hop Brook BLSF shown on sheets 28 to 36)

ANRAD submittal

VHB previously submitted plans titled "Existing Conditions Plan for ANRAD Submittal", dated October 18, 2017, that did not include a BLSF delineation of Hop Brook in Sudbury between Union Avenue and Landham Road. VHB determined there was an inconsistency between the current FEMA FIS Base Flood Elevation (BFE) and topographic information of the area. Topographic data employed includes aerial photogrammetric mapping augmented by on-the-ground survey performed by VHB during 2015 and 2017. The inconsistency was identified by comparing the on-site topographic data and the FEMA BFEs. Based on this comparison, the delineation of BLSF in this location would not match the 100-year floodplain as shown on the Flood Insurance Rate Map (FIRM), Map Number 25017C0506F dated July 7, 2014 because on-site elevations are higher than the 100-year floodplain on the FIRM. Consequently, BLSF associated with Hop Brook between Union Ave and Landham Road was not included on the plans provided in the ANRAD submission pending further evaluation.

FEMA FIS and Data Review

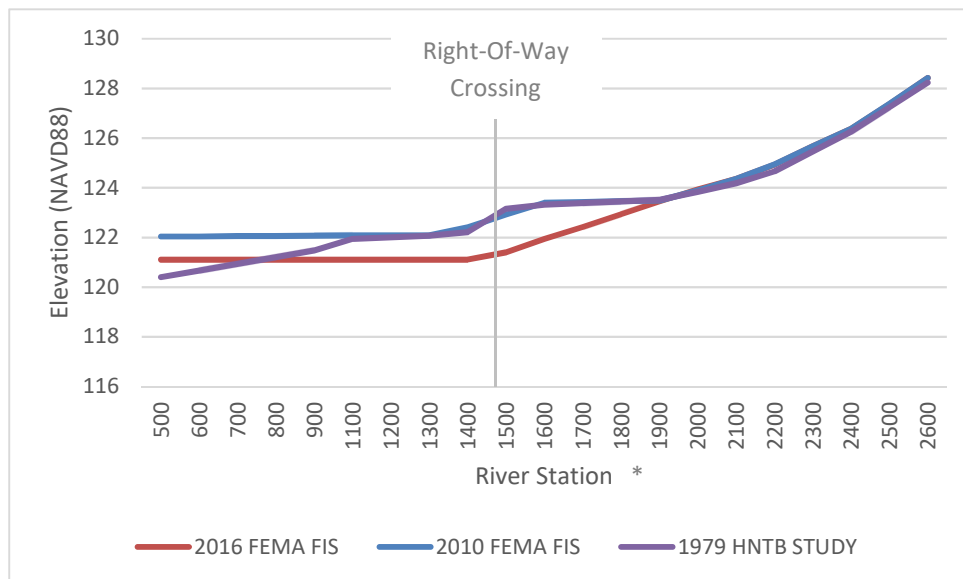
To further evaluate the inconsistencies, VHB requested and received FEMA FIS calculations and backup data in order to resolve the discrepancy. The current 2016 FEMA FIS (Flood Insurance Study Number 25017CV001C, dated July 6, 2016) hydrologic and hydraulic calculations for Hop Brook were completed by Howard, Needles, Tammen and Bergendoff (HNTB) under Contract No. H-4004 in November 1979. Appendix A provides the relevant portions of the 2016 FEMA FIS for Hop Brook. The backup data received from FEMA included the summary results for the 10%, 2%,

Union Station, Suite 219
2 Washington Square
Worcester, MA 01604
P 508.752.1001

1%, 0.2% annual chance events (i.e., 10, 50, 100, and 500-year flood events) for Hop Brook from the 1979 HNTB study. Appendix B provides the backup FEMA Data and summary results from the 1979 HNTB Study. VHB also reviewed the historical 2010 FEMA FIS (Flood Insurance Study Number 25017CV001A, dated June 4, 2010) profile for Hop Brook (Appendix C) as a comparison.

VHB reviewed and compared the water surface elevations for the 1% annual chance event that were reported in the 1979 HNTB Study, the current 2016 FIS, and a historical 2010 FEMA FIS. Figure 1 highlights the reported 1% annual chance flood event water surface elevation from each source:

Figure 1 – Hop Brook 1% Annual Chance Flood Event Water Surface Elevations



* River Station is the stream distance in feet upstream of the confluence of Hop Brook with Landham-Allowance Brook

The 1% annual chance event flood profile based on the 2016 FIS, 2010 FIS, and 1979 HNTB study as illustrated on Figure 1 are not consistent with each other. Floodwater surface elevations differ by approximately 0.5-feet to a maximum of 1.8-feet between River Station 500 and 1900. The Project’s right-of-way crossing with Hop Brook is approximately located at River Station 1470. The three profiles converge at River Station 1900 and remain consistent moving upstream.

A major input into the calculation of the 1% annual chance flood event water surface elevation is the downstream tailwater elevation of the Sudbury River. VHB noted that the Sudbury River tailwater condition was also inconsistent between each source. In discussion with FEMA, they noted that the Sudbury River hydrology and hydraulic study had been updated in 2014 and included as part of the 2016 FEMA FIS. VHB reviewed the 2010 and 2016 FIS for the Sudbury River and noted that the tailwater elevation had been updated from elevation 122 feet to 121 feet as part of the 2014 re-study. Given this and because Hop Brook has not been re-studied since the 1979 HNTB Study, the 1% annual chance flood elevation for Hop Brook should be 121 feet from River Station 0 to 700, where this elevation

meets the previous available study data for Hop Brook (from the 1979 study), and then should follow the 1979 study data from there. However, it appears the 2016 flood profile for Hop Brook had not been correctly updated to reflect this information and instead showed an erroneous elevation of 121 feet all the way to Station 1400.

Conclusions

VHB concluded that the BLSF delineation should use the BFE calculated in the 1979 HNTB Study between River Station 700, where the water surface elevation is above 121 feet, and River Station 1900, where the BFE from the three studies converge. This method is more conservative since the 1979 HNTB Study BFE's are higher than the BFE's from the 2016 Flood Profile, and results in a larger BLSF area. The delineation that was determined using this method also more closely matches the FIRM delineation. At all other locations outside of River Station 700 to 1900, the BLSF for Hop Brook was delineated using the current 2016 FIS and on-site topography, which were generally consistent with the current 2016 FEMA FIRM. In summary, the following sources were used to delineate the BLSF:

- River Station 0 to 700 – 2016 FEMA FIS
- River Station 700 to 1900 – 1979 HNTB Study
- River Station 1900 and up – 2016 FEMA FIS

Appendices:

- Appendix A – 2016 Flood Insurance Study – Hop Brook Profile
- Appendix B – 1979 HNTB Study
- Appendix C – 2010 Flood Insurance Study – Hop Brook Profile
- Appendix D – FEMA FIRM Map No. 25017C0506F – Dated July 7, 2014

Appendix A

2016 Flood Insurance Study – Hop Brook Profile

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Hobbs Brook 2								
A	160 ¹	67	410	0.4	172.6	172.6	173.6	1.0
B	760 ¹	79	232	0.7	173.4	173.4	174.4	1.0
C	1,660 ¹	21	25	6.3	176.4	176.4	176.4	0.0
Hog Brook								
A	355 ²	16	43	9.4	212.4	210.1 ⁴	210.1	0.0
B	475 ²	16	58	6.9	212.4	211.6 ⁴	212.2	0.6
C	608 ²	235	998	0.4	214.5	214.5	214.5	0.0
D	1,595 ²	31	54	7.5	220.5	220.5	220.5	0.0
E	2,662 ²	30	53	7.6	234.7	234.7	235.3	0.6
F	3,515 ²	22	48	8.4	238.6	238.6	238.8	0.2
Hop Brook								
A	1,910 ³	30	165	5.6	123.5	123.5	124.5	1.0
B	4,560 ³	163	724	1.3	133.6	133.6	134.3	0.7
C	6,000 ³	165	703	1.3	137.8	137.8	137.8	0.0
D	8,500 ³	125	720	1.3	138.2	138.2	138.4	0.2
E	9,830 ³	90	311	2.4	138.4	138.4	138.7	0.3
F	11,220 ³	226	914	0.8	138.7	138.7	139.1	0.4
G	12,700 ³	155	574	1.3	141.2	141.2	141.2	0.0
H	14,800 ³	325	1,443	0.5	145.7	145.7	146.3	0.6
I	16,155 ³	54	225	3.3	146.0	146.0	146.7	0.7
J	17,170 ³	45	204	3.7	146.5	146.5	147.3	0.8
K	19,050 ³	55	239	2.7	147.9	147.9	148.9	1.0
L	21,270 ³	60	239	2.6	148.8	148.8	149.8	1.0
M	22,520 ³	124	357	1.8	150.3	150.3	151.3	1.0

¹ Feet above limit of detailed study, limit of detailed study is approximately 660 feet downstream of Mill Street

² Feet above confluence with Assabet River

³ Feet above confluence with Landham-Allowance Brook

⁴ Elevation computed without consideration of backwater effects from Assabet River

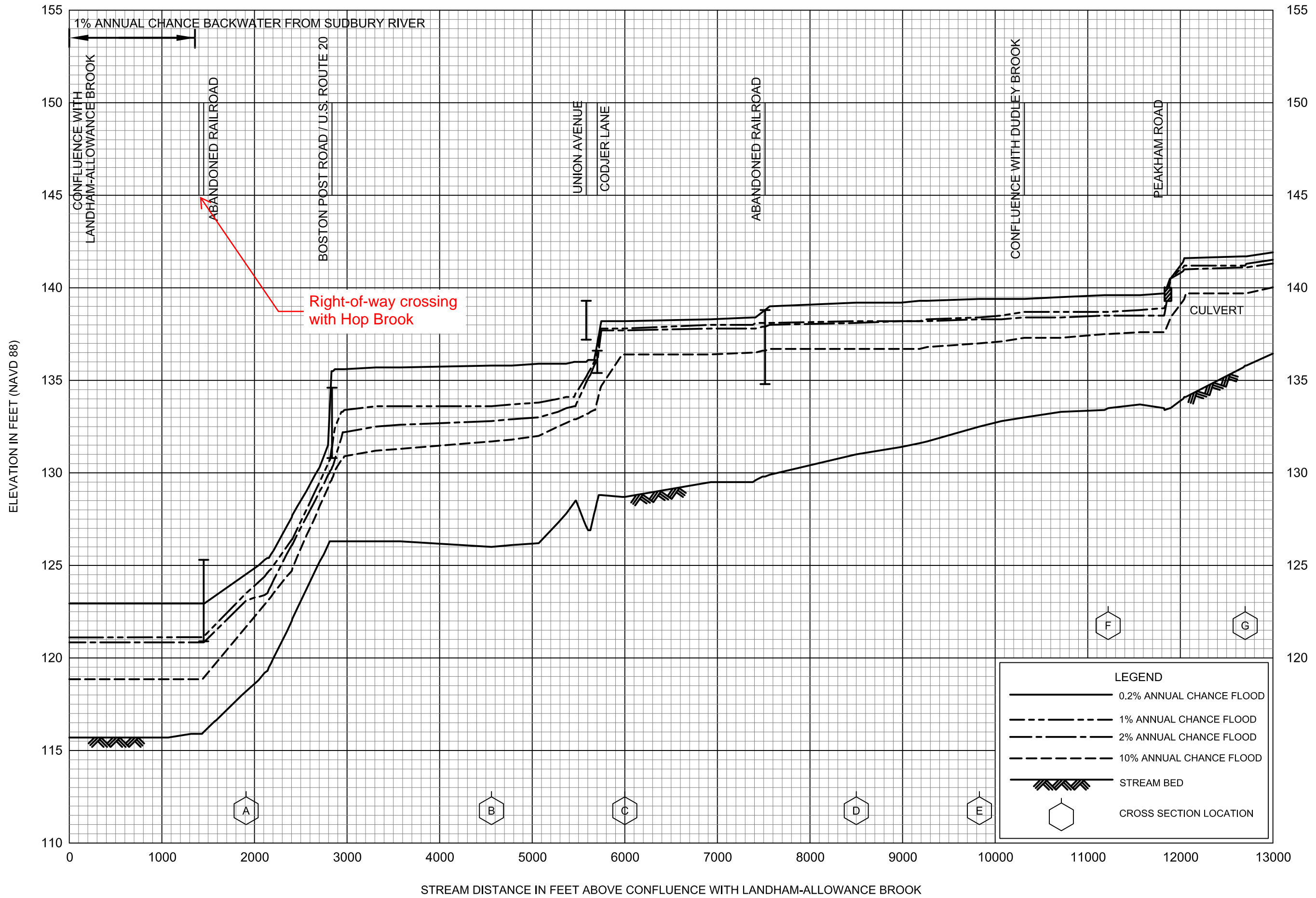
TABLE 12

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HOBBS BROOK 2 – HOG BROOK – HOP BROOK



FLOOD PROFILES

HOP BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

MIDDLESEX COUNTY, MA

(ALL JURISDICTIONS)

Appendix B

1979 HNTB Study

*Elevations in NGVD 1929

FEMA Engineering Library Digitized Data Index

CID:250217

Community:SUDBURY, TOWN OF

County:MIDDLESEX COUNTY

State:MASSACHUSETTS



0253435

Box:

Doc:

Case Number/ Study ID:250217-19811201

Effective Date:12/1/1981

Description:1d. Type 15 Study

Contents:06. Engineering Analysis: Hydraulics (riverine, stillwater, LDS)

Revision Status:

Flooding Source(s):Hop Brook

Notes:

ESD FROM TOWN OF SUDBURY

Scanned by: *W*
QC Staff:

Scan Date: *5/25/2011*
QC Date:

HOP

BROOK

HOP BROCK

SUMMARY FRONTOUT TABLE 150

	SECNO	B	CUSEL	DIFUSP	DIFUSX	DIFKWS	TOPMID	XLCM
8	4.400	470.00	119.17	0.00	0.00	0.00	37.78	0.00
8	4.400	765.00	119.90	0.73	0.00	0.00	42.64	6.00
8	4.400	918.00	120.24	0.34	0.00	0.00	44.96	0.00
8	4.400	1300.00	121.64	1.40	0.00	0.00	313.55	0.00
	4.500	470.00	119.64	0.00	0.47	0.00	40.91	10.00
	4.500	765.00	120.44	0.80	0.54	0.00	46.27	10.00
	4.500	918.00	120.00	0.36	0.55	0.00	48.65	10.00
	4.500	1300.00	122.03	1.23	0.38	0.00	399.14	10.00
	4.600	470.00	119.77	0.00	0.13	0.00	41.79	10.00
	4.600	765.00	120.58	0.81	0.14	0.00	47.20	10.00
	4.600	918.00	120.94	0.36	0.15	0.00	49.61	10.00
	4.600	1300.00	122.11	1.16	0.08	0.00	399.41	10.00
	4.700	470.00	119.84	0.00	0.10	0.00	42.43	10.00
	4.700	765.00	120.69	0.82	0.11	0.00	47.91	10.00
	4.700	918.00	121.07	0.39	0.13	0.00	176.09	10.00
	4.700	1300.00	122.14	1.07	0.04	0.00	399.50	10.00
	10.650	470.00	121.56	0.00	1.70	0.00	222.95	595.00
	10.650	765.00	122.32	0.76	1.64	0.00	374.63	595.00
	10.650	918.00	122.65	0.33	1.58	0.00	379.12	595.00
	10.650	1300.00	123.10	0.45	0.96	0.00	385.40	595.00
	13.700	470.00	122.01	0.00	0.45	0.00	95.04	305.00
	13.700	765.00	122.62	0.61	0.29	0.00	97.30	305.00
	13.700	918.00	122.08	0.26	0.23	0.00	98.28	305.00
	13.700	1300.00	123.30	0.43	0.20	0.00	99.89	305.00
	14.650	470.00	122.25	0.00	0.24	0.00	42.50	95.00
	14.650	765.00	122.93	0.68	0.31	0.00	42.50	95.00
	14.650	918.00	123.21	0.28	0.33	0.00	42.50	95.00
	14.650	1300.00	123.69	0.49	0.39	0.00	42.50	95.00
	14.770	470.00	122.24	0.00	-0.01	0.00	42.50	12.00
	14.770	765.00	123.35	1.11	0.43	0.00	42.50	12.00
	14.770	918.00	123.86	0.51	0.64	0.00	42.50	12.00
	14.770	1300.00	125.15	1.29	1.44	0.00	42.50	12.00
	16.000	470.00	122.44	0.00	0.20	0.00	198.25	123.00
	16.000	765.00	123.54	1.12	0.21	0.00	206.70	123.00
	16.000	918.00	124.10	0.54	0.24	0.00	211.30	123.00
	16.000	1300.00	125.47	1.34	0.37	0.00	228.35	123.00
	19.100	470.00	122.83	0.00	0.39	0.00	34.22	310.00
	19.100	765.00	123.79	0.96	0.23	0.00	43.44	310.00
	19.100	918.00	124.26	0.47	0.14	0.00	46.56	310.00
	19.100	1300.00	125.47	1.21	0.00	0.00	53.58	310.00
	21.700	470.00	123.82	0.00	0.99	0.00	29.78	260.00

D

D/S

A

0.00
0.00
0.00
0.00
42.50
42.50

21.700	765.00	124.74	0.93	0.95	0.00	34.37	260.00
21.700	918.00	125.15	0.41	0.89	0.00	36.38	260.00
21.700	1300.00	126.12	0.97	0.65	0.00	41.18	260.00

SECNO	0	CUSEL	DIFWSP	DIFWSA	DIFWBS	TOTWTD	ALCH
24.000	470.00	125.54	0.00	1.72	0.00	39.82	238.00
24.000	765.00	126.62	1.08	1.87	0.00	45.31	238.00
24.000	918.00	127.10	0.48	1.95	0.00	47.00	238.00
24.000	1300.00	128.16	1.06	2.04	0.00	52.54	238.00
27.400	470.00	129.22	0.00	3.60	0.00	47.34	332.00
27.400	765.00	130.15	0.93	3.53	0.00	70.17	332.00
27.400	918.00	130.42	0.28	3.32	0.00	79.84	332.00
27.400	1300.00	131.04	0.61	2.88	0.00	101.38	332.00
28.250	470.00	129.95	0.00	0.73	0.00	20.00	85.00
28.250	765.00	130.83	0.88	0.60	0.00	20.00	85.00
28.250	918.00	121.31	0.48	0.88	0.00	20.00	85.00
28.250	1300.00	132.24	0.94	1.20	0.00	151.81	85.00
28.650	470.00	130.78	0.00	0.83	0.00	20.00	40.00
28.650	765.00	131.35	0.57	0.52	0.00	20.00	40.00
28.650	918.00	133.04	1.69	1.73	0.00	20.00	40.00
28.650	1300.00	136.18	3.15	3.94	0.00	154.71	40.00
29.400	470.00	131.49	0.00	0.72	0.00	60.59	75.00
29.400	765.00	132.74	1.26	1.41	0.00	69.57	75.00
29.400	918.00	134.02	1.26	0.98	0.00	138.47	75.00
29.400	1300.00	136.29	2.27	0.11	0.00	157.35	75.00
33.550	470.00	131.93	0.00	0.43	0.00	167.27	415.00
33.550	765.00	133.15	1.23	0.39	0.00	216.11	415.00
33.550	918.00	134.28	1.13	0.24	0.00	260.14	415.00
33.550	1300.00	136.44	2.15	0.14	0.00	324.83	415.00
45.600	470.00	132.43	0.00	0.50	0.00	200.77	1205.00
45.600	765.00	133.07	1.04	0.31	0.00	327.74	1205.00
45.600	918.00	134.44	0.98	0.16	0.00	378.05	1205.00
45.600	1300.00	136.50	2.06	0.07	0.00	432.65	1205.00
51.200	470.00	132.69	0.00	0.24	0.00	163.57	560.00
51.200	765.00	133.65	0.96	0.18	0.00	201.40	560.00
51.200	918.00	134.54	0.89	0.09	0.00	246.80	560.00
51.200	1300.00	136.54	2.00	0.03	0.00	354.53	560.00
55.000	470.00	133.46	0.00	0.77	0.00	88.63	380.00
55.000	765.00	134.29	0.83	0.64	0.00	172.87	380.00
55.000	918.00	134.84	0.56	0.31	0.00	178.37	380.00
55.000	1300.00	136.61	1.77	0.08	0.00	220.63	380.00
56.200	470.00	134.23	0.00	0.77	0.00	23.50	120.00
56.200	765.00	134.73	0.50	0.44	0.00	23.50	120.00
56.200	918.00	134.97	0.24	0.13	0.00	23.50	120.00
56.200	1300.00	136.72	1.75	0.11	0.00	358.86	120.00
56.210	470.00	134.22	0.00	-0.01	0.00	154.70	1.00
56.210	765.00	134.69	0.47	-0.04	0.00	157.99	1.00
56.210	918.00	134.92	0.23	-0.05	0.00	159.61	1.00
56.210	1300.00	136.20	1.27	-0.53	0.00	168.63	1.00

MS

MS

B

MS

DD

SECMO	0	EWSEL	DIFWSP	DIFWSX	DIFKUS	TOPWIP	YLCW
56.490	470.00	134.24	0.00	0.02	0.00	154.74	28.00
56.490	765.00	134.73	0.59	0.04	0.00	158.22	28.00
56.490	918.00	134.97	0.24	0.05	0.00	159.99	28.00
56.490	1300.00	134.26	1.29	0.07	0.00	169.10	28.00
56.500	470.00	134.24	0.00	0.00	0.00	22.09	1.00
56.500	765.00	134.74	0.50	0.01	0.00	22.09	1.00
56.500	918.00	134.99	0.25	0.01	0.00	22.09	1.00
56.500	1300.00	134.29	1.30	0.03	0.00	22.09	1.00
57.200	470.00	134.06	0.09	-0.18	0.00	9.80	70.00
57.200	765.00	134.69	2.63	1.95	0.00	111.00	70.00
57.200	918.00	134.50	-0.11	1.60	0.00	108.74	70.00
57.200	1300.00	134.76	0.18	0.47	0.00	112.62	70.00
57.530	470.00	135.26	0.00	1.20	0.00	9.80	33.00
57.530	765.00	138.34	3.11	1.67	0.00	342.95	33.00
57.530	918.00	138.50	0.13	1.91	0.00	346.72	33.00
57.530	1300.00	138.00	0.31	2.04	0.00	355.50	33.00
60.000	470.00	134.97	0.00	1.71	0.00	292.82	247.00
60.000	765.00	138.43	1.46	0.07	0.00	403.65	247.00
60.000	918.00	138.58	0.15	0.08	0.00	411.77	247.00
60.000	1300.00	138.92	0.54	0.12	0.00	430.65	247.00
69.600	470.00	137.07	0.09	0.09	0.00	330.63	960.00
69.600	765.00	138.48	1.42	0.05	0.00	447.56	960.00
69.600	918.00	138.65	0.16	0.07	0.00	452.07	960.00
69.600	1300.00	139.02	0.37	0.10	0.00	462.54	960.00
74.300	470.00	137.10	0.00	0.04	0.00	197.32	470.00
74.300	765.00	138.51	1.41	0.03	0.00	316.44	470.00
74.300	918.00	138.68	0.17	0.03	0.00	318.55	470.00
74.300	1300.00	139.07	0.39	0.05	0.00	323.39	470.00
75.100	470.00	137.07	0.00	-0.01	0.00	22.98	80.00
75.100	765.00	138.38	1.29	-0.13	0.00	22.98	80.00
75.100	918.00	138.49	0.11	-0.19	0.00	22.98	80.00
75.100	1300.00	138.68	0.19	-0.39	0.00	22.98	80.00
75.200	470.00	137.10	0.00	0.01	0.00	22.98	10.00
75.200	765.00	138.39	1.30	0.01	0.00	22.98	10.00
75.200	918.00	138.50	0.11	0.01	0.00	22.98	10.00
75.200	1300.00	138.90	0.39	0.22	0.00	22.98	10.00
76.000	470.00	137.27	0.00	0.17	0.00	260.60	80.00
76.000	765.00	138.71	1.44	0.32	0.00	318.97	80.00
76.000	918.00	138.95	0.24	0.45	0.00	336.34	80.00
76.000	1300.00	139.71	0.76	0.81	0.00	392.02	80.00
85.000	470.00	137.36	0.00	0.09	0.00	200.74	900.00
85.000	765.00	138.78	1.42	0.06	0.00	251.01	900.00
85.000	918.00	139.03	0.25	0.08	0.00	261.01	900.00
85.000	1300.00	139.00	0.77	0.09	0.00	291.00	900.00

SECOMP	B	CMSEL	DIFMSF	DIFMS1	DIFMS2	TRGWRD	XLCH
P1.540	385.00	137.43	0.00	0.07	0.00	367.06	650.00
P1.540	626.00	138.83	1.32	0.05	0.00	434.85	650.00
P1.540	751.00	139.18	0.26	0.06	0.00	482.69	650.00
P1.540	1050.00	139.87	0.78	0.07	0.00	466.17	650.00
P8.340	385.00	137.81	0.00	0.30	0.00	166.30	600.00
P8.340	626.00	138.99	1.17	0.15	0.00	192.10	600.00
P8.340	751.00	139.24	0.26	0.16	0.00	196.73	600.00
P8.340	1050.00	140.00	0.76	0.13	0.00	209.97	600.00
100.040	385.00	137.75	0.00	0.14	0.00	331.77	250.00
100.040	626.00	139.05	1.11	0.08	0.00	358.69	250.00
100.040	751.00	139.33	0.27	0.08	0.00	364.72	250.00
100.040	1050.00	140.08	0.76	0.09	0.00	381.14	250.00
106.900	385.00	138.02	0.00	0.07	0.00	171.10	610.00
106.900	626.00	139.11	1.09	0.06	0.00	177.12	610.00
106.900	751.00	139.38	0.28	0.07	0.00	178.66	610.00
106.900	1050.00	140.15	0.76	0.07	0.00	182.99	610.00
107.950	385.00	138.04	0.00	0.02	0.00	185.41	105.00
107.950	626.00	139.13	1.09	0.02	0.00	199.05	105.00
107.950	751.00	139.41	0.28	0.02	0.00	202.56	105.00
107.950	1050.00	140.17	0.76	0.02	0.00	212.50	105.00
112.200	385.00	138.10	0.00	0.12	0.00	397.30	425.00
112.200	626.00	139.21	1.04	0.08	0.00	508.53	425.00
112.200	751.00	139.49	0.29	0.08	0.00	539.11	425.00
112.200	1050.00	140.26	0.76	0.08	0.00	594.11	425.00
116.700	385.00	138.21	0.00	0.05	0.00	223.16	450.00
116.700	626.00	139.24	1.03	0.03	0.00	238.59	450.00
116.700	751.00	139.53	0.29	0.03	0.00	242.91	450.00
116.700	1050.00	140.29	0.76	0.03	0.00	287.16	450.00
118.570	385.00	138.09	0.00	-0.12	0.00	19.40	187.00
118.570	626.00	138.91	0.82	-0.33	0.00	10.40	187.00
118.570	751.00	139.56	0.65	0.03	0.00	300.33	187.00
118.570	1050.00	140.32	0.76	0.03	0.00	343.55	187.00
119.000	385.00	138.40	0.00	0.37	0.00	10.40	43.00
119.000	626.00	141.64	3.20	2.75	0.00	298.02	43.00
119.000	751.00	141.42	-0.24	1.84	0.00	275.93	43.00
119.000	1050.00	141.74	0.37	1.42	0.00	366.32	43.00
120.000	385.00	140.33	0.00	1.07	0.00	535.47	100.00
120.000	626.00	141.09	1.56	0.23	0.00	608.04	100.00
120.000	751.00	141.97	0.08	0.54	0.00	612.63	100.00
120.000	1050.00	142.27	0.30	0.53	0.00	617.22	100.00
125.000	385.00	140.38	0.00	0.05	0.00	267.63	500.00
125.000	626.00	141.91	1.53	0.02	0.00	318.83	500.00

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D/S

D/S

SECNO	D	CWSEL	RIFWSP	RIFWSX	RIFKWS	TOPWID	XLCH
127.000	385.00	140.43	0.00	0.05	0.00	299.30	200.00
127.000	626.00	141.93	1.50	0.02	0.00	346.34	200.00
127.000	751.00	142.02	0.09	0.03	0.00	370.13	200.00
127.000	1050.00	142.34	0.32	0.04	0.00	372.90	200.00
130.650	385.00	140.73	0.00	0.30	0.00	137.13	365.00
130.650	626.00	142.03	1.30	0.10	0.00	156.06	365.00
130.650	751.00	142.15	0.12	0.13	0.00	158.07	365.00
130.650	1050.00	142.51	0.36	0.17	0.00	164.14	365.00
137.700	385.00	141.67	0.00	0.93	0.00	283.47	705.00
137.700	626.00	142.42	0.75	0.39	0.00	338.96	705.00
137.700	751.00	142.59	0.18	0.44	0.00	341.10	705.00
137.700	1050.00	143.02	0.43	0.52	0.00	346.28	705.00
143.400	385.00	144.08	0.00	2.41	0.00	30.38	570.00
143.400	626.00	144.70	0.62	2.28	0.00	33.64	570.00
143.400	751.00	144.98	0.28	2.39	0.00	35.14	570.00
143.400	1050.00	145.72	0.74	2.70	0.00	39.05	570.00
144.900	385.00	144.92	0.00	0.84	0.00	479.90	150.00
144.900	626.00	146.01	1.09	1.31	0.00	515.03	150.00
144.900	751.00	146.50	0.50	1.52	0.00	517.50	150.00
144.900	1050.00	147.53	1.03	1.81	0.00	522.67	150.00
148.000	385.00	144.92	0.00	0.00	0.00	633.88	310.00
148.000	626.00	146.01	1.08	0.00	0.00	685.05	310.00
148.000	751.00	146.51	0.50	0.00	0.00	697.52	310.00
148.000	1050.00	147.54	1.03	0.00	0.00	692.69	310.00
157.200	385.00	145.06	0.00	0.13	0.00	241.05	920.00
157.200	626.00	146.09	1.04	0.08	0.00	300.23	920.00
157.200	751.00	146.57	0.48	0.07	0.00	301.43	920.00
157.200	1050.00	147.59	1.01	0.05	0.00	303.97	920.00
161.550	385.00	145.39	0.00	0.34	0.00	109.41	435.00
161.550	626.00	146.32	0.93	0.23	0.00	148.81	435.00
161.550	751.00	146.76	0.44	0.19	0.00	160.89	435.00
161.550	1050.00	147.72	0.96	0.13	0.00	187.22	435.00

SUMMARY OF ERRORS

CAUTION SECNO= 4.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 27.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 27.400 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 27.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 27.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 28.250 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 28.250 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 28.250 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 28.250 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 55.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 55.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 57.200 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 57.200 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 57.200 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 57.200 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 57.200 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 57.200 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 118.570 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 118.570 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 119.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 119.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 119.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 119.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 119.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 119.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 143.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 143.400 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 143.400 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 143.400 PROFILE= 4 MINIMUM SPECIFIC ENERGY

226.050	150.38	152.40	0.00	154.00	324.00	0.00	59.00	0.00	2.84	150.34	3.66	150.55
226.050	151.00	152.40	0.00	154.00	328.00	0.00	59.00	0.00	3.40	150.90	5.09	151.31
226.050	151.27	152.40	0.00	154.00	333.00	0.00	59.00	0.00	3.64	151.14	5.73	151.65
226.050	151.85	152.40	0.00	154.00	390.00	0.00	59.00	0.00	4.16	151.66	7.25	152.48
227.220	156.31	155.1000000000	155.40	0.16	325.90	30.00	0.15	2.93	157.93	1.14	157.95	
227.220	156.43	155.1000000000	155.40	0.16	328.37	30.00	0.25	3.46	158.66	1.39	158.69	
227.220	156.49	155.1000000000	155.40	0.17	335.63	30.00	0.30	3.90	158.90	1.50	158.93	
227.220	156.55	155.1000000000	155.40	0.17	390.46	30.00	0.33	4.34	159.34	1.75	159.38	
282.040	158.91	158.70	158.81	160.00	324.00	0.00	59.00	0.00	4.43	158.43	5.62	158.93
282.040	160.32	158.70	160.65	160.00	439.21	92.19	30.00	0.00	6.30	160.30	1.81	160.32
282.040	160.88	158.70	161.51	160.00	401.80	234.29	30.00	0.00	6.58	160.58	1.92	160.60
282.040	160.72	158.70	163.69	160.00	330.51	559.54	30.00	0.00	7.07	161.07	2.22	161.11

SECNO	ESLWC	ELLC	EGFRS	ELTRD	OPR	QWEIR	CLASS	H3	DEPTH	CWSEL	WCH	EG
298-000	160.85	163.30	0.00	168.70	324.00	0.00	1.00	0.03	4.61	160.71	2.99	160.85
298-000	161.46	163.30	0.00	168.79	528.00	0.00	1.00	0.07	5.09	161.19	4.14	161.46
298-000	161.73	163.30	0.00	168.79	633.00	0.00	1.00	0.10	5.29	161.39	4.71	161.73
98-000	162.37	163.30	0.00	168.70	890.00	0.00	1.00	0.22	5.73	161.83	5.99	162.37
307-100	161.09	160.10	161.84	160.00	324.00	0.00	59.00	0.00	4.64	160.96	4.24	161.17
307-100	161.68	160.10	163.73	160.00	528.00	0.00	59.00	0.00	5.31	161.61	3.88	161.76
307-100	161.95	160.10	164.91	160.00	633.00	0.00	59.00	0.00	5.59	161.89	3.42	162.09
307-160	162.58	160.10	168.44	160.00	116.06	776.57	30.00	0.00	6.33	162.63	2.06	162.66
342-700	166.25	166.10	165.83	167.10	158.00	0.00	59.00	0.00	3.19	165.99	5.10	166.39
342-700	167.09	166.10	167.23	167.10	254.21	2.28	30.00	0.00	4.34	167.14	2.73	167.21
342-700	167.42	166.10	167.77	167.10	280.18	28.90	30.00	0.00	4.69	167.49	2.54	167.55
342-700	168.21	166.10	169.19	167.10	313.92	125.03	30.00	0.00	5.14	167.94	2.73	168.01
8 345-470	172.36	173.90	0.00	176.00	158.00	0.00	59.00	0.00	1.85	171.25	7.76	172.19
8 345-470	173.37	173.90	0.00	176.00	258.00	0.00	59.00	0.00	2.57	171.97	9.14	173.26
8 345-470	173.83	173.90	0.00	176.00	309.00	0.00	59.00	0.00	2.90	172.30	9.68	173.76
8 345-470	174.87	173.90	169.64	176.00	435.00	0.00	59.00	0.00	3.64	173.04	10.88	174.87
351-270	172.64	174.70	0.00	176.50	158.00	0.00	59.00	0.00	3.75	172.45	4.38	172.75
351-270	173.86	174.70	0.00	176.50	258.00	0.00	59.00	0.00	4.79	173.49	5.99	174.04
351-270	174.42	174.70	0.00	176.50	309.00	0.00	59.00	0.00	5.24	173.94	6.70	174.64
351-270	175.76	174.70	176.83	176.50	425.09	6.53	30.00	0.00	8.02	176.72	2.81	176.75
225-200	150.26	0.27	0.00	202.51	223.90	98.48	1.62					
225-200	150.87	0.25	0.00	230.32	396.41	128.87	2.72					
225-200	151.13	0.24	0.00	242.37	487.30	142.40	3.30					
225-200	151.70	0.22	0.00	268.08	712.68	172.57	4.76					

SEWID	CWSEL	WE	LOSS	TOFWID	QLOB	QCH	QROP
225.690	150.30	0.05	0.00	99.40	0.00	324.00	0.00
225.690	150.89	0.05	0.01	99.40	0.00	528.00	0.00
225.690	151.14	0.05	0.02	99.40	0.00	633.00	0.00
225.690	151.68	0.05	0.03	99.40	0.00	890.00	0.00
226.050	150.24	0.14	0.04	75.97	0.00	324.00	0.00
226.050	150.90	0.23	0.07	83.79	0.00	528.00	0.00
226.050	151.14	0.28	0.12	87.28	0.00	633.00	0.00
226.050	151.66	0.45	0.20	94.61	0.00	890.00	0.00
226.400	150.56	0.10	0.01	74.81	0.32	311.79	11.90
226.400	151.33	0.11	0.03	105.68	3.17	501.04	23.79
226.400	151.69	0.11	0.04	119.69	5.68	597.44	29.87
226.400	152.51	0.08	0.07	142.10	13.42	831.76	44.82
227.100	152.14	1.53	-0.64	120.41	0.00	324.00	0.00
227.100	152.36	1.41	-0.54	121.09	0.00	528.00	0.00
227.100	152.47	1.35	-0.50	121.41	0.00	633.00	0.00
227.100	152.77	0.56	0.13	122.32	0.00	890.00	0.00
227.220	157.93	5.51	0.00	122.35	0.00	324.00	0.00
227.220	158.66	5.89	0.00	304.50	0.00	519.21	8.79
227.220	158.90	5.97	0.00	315.23	0.17	606.32	26.51
227.220	159.34	6.06	0.00	335.51	2.09	804.62	83.29
230.000	157.95	0.00	0.00	319.17	0.00	324.00	0.00
230.000	158.69	0.00	0.00	326.93	0.02	527.96	0.02
230.000	158.93	0.00	0.00	329.33	0.06	632.89	0.06
230.000	159.39	0.00	0.00	333.87	0.20	889.59	0.20
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281.000	158.31	0.15	0.08	23.27	17.53	243.87	42.60
281.000	158.93	0.26	0.17	24.82	31.46	420.08	76.46
281.000	159.14	0.32	0.22	63.96	39.61	497.90	95.50
281.000	159.99	0.52	-0.05	318.31	138.28	569.43	182.29
282.000	158.42	0.25	0.06	16.70	0.00	324.00	0.00
282.000	159.60	0.05	0.06	246.42	334.93	152.82	40.24
282.000	159.99	0.05	0.07	269.30	410.57	168.97	53.46
282.000	160.69	0.04	0.06	279.69	603.49	177.86	88.65
282.040	158.43	0.02	0.00	16.70	0.00	324.00	0.00
282.040	160.29	0.70	0.00	245.30	334.92	160.68	32.40
282.040	160.58	0.59	0.00	250.11	411.95	179.82	41.23
282.040	161.07	0.39	0.00	258.81	600.59	226.51	62.90
283.000	158.85	0.43	0.00	19.63	0.00	324.00	0.00
283.000	160.28	0.09	0.05	232.69	132.03	359.95	36.02
283.000	160.57	0.08	0.04	235.51	206.64	369.87	56.48
283.000	161.08	0.07	0.03	240.49	373.69	413.72	102.59
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297.000	160.72	0.35	0.00	421.85	167.84	55.33	100.83
297.000	161.23	0.29	0.00	430.29	288.92	65.21	173.87
297.000	161.43	0.29	0.00	433.62	350.80	70.92	211.27
297.000	161.87	0.29	0.00	440.89	502.81	83.88	303.32

SECNO	CUSSEL	ML	DL	DL	DL	DL	DL
297.700	160.69	0.06	0.04	37.50	0.00	324.00	0.00
297.700	161.13	0.09	0.08	37.50	0.00	529.00	0.00
297.700	161.29	0.11	0.11	37.50	0.00	637.00	0.00
297.700	161.61	0.15	0.13	37.50	0.00	899.00	0.00
298.000	160.71	0.02	0.00	37.50	0.00	324.00	0.00
298.000	161.19	0.06	0.00	37.50	0.00	529.00	0.00
298.000	161.39	0.08	0.00	37.50	0.00	637.00	0.00
298.000	161.83	0.15	0.00	37.50	0.00	899.00	0.00
299.000	160.89	0.03	0.01	424.50	195.87	51.47	76.66
299.000	161.51	0.03	0.03	431.34	334.54	41.80	131.66
299.000	161.79	0.03	0.03	434.35	415.75	67.16	160.00
299.000	162.44	0.02	0.05	441.41	580.00	79.15	231.95
306.400	161.04	0.17	0.00	304.41	205.86	67.22	50.92
306.400	161.64	0.14	0.00	356.78	339.80	80.91	108.29
306.400	161.91	0.13	0.00	380.12	403.37	87.06	142.58
306.400	162.55	0.11	0.00	410.10	543.10	97.71	249.19
307.000	161.06	0.02	0.00	337.10	104.65	143.41	75.95
307.000	161.66	0.02	0.00	358.02	209.59	167.44	152.97
307.000	161.93	0.02	0.00	367.46	261.99	179.93	192.09
307.000	162.56	0.02	0.00	375.57	391.39	202.65	295.99
307.100	160.96	0.03	0.06	148.24	86.41	237.59	0.62
307.100	161.61	0.04	0.04	313.62	286.29	234.23	7.49
307.100	161.89	0.03	0.03	323.07	371.74	226.36	34.71
307.100	162.63	0.08	0.00	347.72	311.28	222.97	305.75
308.000	161.23	0.04	0.02	261.53	176.97	56.45	90.58
308.000	161.80	0.04	0.01	281.46	298.85	73.66	125.69
308.000	162.04	0.04	0.01	289.72	361.51	82.12	189.34
308.000	162.66	0.02	0.00	310.63	525.86	99.29	274.85
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342.000	163.93	1.02	0.03	140.49	52.06	85.12	20.82
342.000	164.21	0.95	0.02	152.89	110.74	102.96	44.30
342.000	164.34	0.91	0.02	154.53	141.80	110.44	56.78
342.000	164.61	0.81	0.02	158.20	219.61	127.30	88.08
342.600	165.51	1.07	-0.22	15.45	0.00	158.00	0.00
342.600	166.57	0.48	-0.02	106.04	35.50	217.85	4.45
342.600	166.52	0.44	-0.02	107.62	62.80	237.41	11.79
342.600	166.73	0.52	-0.04	108.63	118.96	298.58	17.45
342.700	165.99	0.11	0.03	17.96	0.00	158.00	3.00
342.700	167.14	0.40	0.00	123.54	100.23	142.13	15.44
342.700	167.49	0.61	0.00	126.16	137.82	145.67	22.31
342.700	167.94	0.78	0.00	129.58	227.55	187.18	36.48
343.600	166.45	0.04	0.04	73.22	1.77	146.31	9.72
343.600	167.22	0.03	0.00	78.82	6.23	223.78	27.99
343.600	167.55	0.03	0.00	81.21	8.96	261.54	38.58
343.600	168.00	0.04	0.00	84.49	15.41	357.10	62.49

SECMO	WSEL	HL	DLOSS	TOPWID	QLOB	QCH	OROB						
345.250	166.61	0.53	0.16	11.00	0.00	158.00	0.00						
345.250	167.26	0.66	0.27	11.00	0.00	258.00	0.00						
345.250	167.51	0.72	0.32	11.00	0.00	309.00	0.00						
345.250	167.84	2.06	-0.47	11.00	0.00	435.00	0.00						
345.470	171.25	0.33	0.02	11.00	0.00	158.00	0.00						
345.470	171.97	0.30	0.05	11.00	0.00	258.00	0.00						
345.470	172.30	0.29	0.05	11.00	0.00	309.00	0.00						
345.470	173.04	0.28	0.00	11.00	0.00	435.00	0.00						
348.000	172.28	0.00	0.09	217.20	0.96	156.58	0.46						
348.000	173.39	0.00	0.13	221.81	2.60	254.04	1.36						
348.000	173.90	0.00	0.15	228.29	3.76	303.31	1.99						
348.000	175.06	0.00	0.18	238.33	7.08	423.48	4.44						
350.900	172.36	0.28	0.08	10.20	0.00	158.00	0.00						
350.900	173.41	0.33	0.13	10.20	0.00	258.00	0.00						
350.900	173.89	0.36	0.16	10.20	0.00	309.00	0.00						
350.900	175.06	0.02	0.00	133.58	140.11	102.69	192.20						
351.270	172.45	0.10	0.01	10.20	0.00	158.00	0.00						
351.270	173.49	0.15	0.03	10.20	0.00	258.00	0.00						
351.270	173.94	0.17	0.05	10.20	0.00	309.00	0.00						
351.270	176.72	1.67	0.00	94.23	79.08	164.09	191.84						
165.700	415.06	0.00	0.00	140.90	385.00	145.93	0.00	145.98	7.10	2.52	340.21	144.45	
165.700	415.00	0.00	0.00	140.90	626.00	146.70	0.00	146.73	4.31	2.24	584.05	301.38	
165.700	415.00	0.00	0.00	140.90	751.00	147.08	0.00	147.11	3.52	2.15	709.40	400.08	
165.700	415.00	0.00	0.00	140.90	1050.00	147.95	0.00	147.97	2.40	1.99	1012.20	677.14	
171.700	600.00	0.00	0.00	141.10	385.00	146.32	0.00	146.49	10.48	3.69	168.35	118.93	
171.700	600.00	0.00	0.00	141.10	626.00	147.00	0.00	147.20	11.84	4.31	255.67	181.94	
171.700	600.00	0.00	0.00	141.10	751.00	147.35	0.00	147.54	11.59	4.45	301.11	220.59	
171.700	600.00	0.00	0.00	141.10	1050.00	148.15	0.00	148.32	10.20	4.57	413.34	328.74	
183.200	1150.00	0.00	0.00	142.50	385.00	147.31	0.00	147.41	7.26	3.02	200.90	142.88	
183.200	1150.00	0.00	0.00	142.50	626.00	147.99	0.00	148.08	6.85	3.23	461.88	239.19	
183.200	1150.00	0.00	0.00	142.50	751.00	148.25	0.00	148.33	6.01	3.13	601.46	304.27	
183.200	1150.00	0.00	0.00	142.50	1050.00	148.84	0.00	148.91	4.24	2.83	928.52	509.85	

EM

SECHO	FILE#	ELTRD	ELLC	ELMIN	P	CWSFL	CRWS	EG	10K45	VCH	AREA	PH
K 190.500	730.00	0.00	0.00	143.30	324.00	147.78	0.00	147.88	6.34	2.80	187.06	128.66
190.500	730.00	0.00	0.00	143.30	528.00	148.43	0.00	148.53	6.42	3.09	340.00	208.37
190.500	730.00	0.00	0.00	143.30	633.00	148.64	0.00	148.76	6.65	3.24	396.73	245.51
190.500	730.00	0.00	0.00	143.30	899.00	149.18	0.00	149.28	6.60	3.45	531.63	346.52
206.500	1400.00	0.00	0.00	145.30	324.00	148.55	0.00	148.57	4.03	1.69	399.66	161.45
206.500	1400.00	0.00	0.00	145.30	528.00	149.11	0.00	149.13	3.43	1.76	593.20	284.92
206.500	1400.00	0.00	0.00	145.30	633.00	149.33	0.00	149.35	3.39	1.83	673.63	343.64
206.500	1400.00	0.00	0.00	145.30	899.00	149.81	0.00	149.84	3.28	1.95	957.25	491.69
212.700	620.00	0.00	0.00	145.60	324.00	148.86	0.00	148.92	7.80	2.41	210.65	116.82
212.700	620.00	0.00	0.00	145.60	528.00	149.41	0.00	149.49	8.73	2.87	300.64	178.69
212.700	620.00	0.00	0.00	145.60	633.00	149.64	0.00	149.72	9.18	3.07	342.17	208.88
212.700	620.00	0.00	0.00	145.60	899.00	150.13	0.00	150.23	9.69	3.42	441.84	285.99
215.700	300.00	0.00	0.00	146.40	324.00	149.18	0.00	149.27	13.83	2.97	154.12	87.13
215.700	300.00	0.00	0.00	146.40	528.00	149.76	0.00	149.90	15.82	3.64	207.77	132.74
215.700	300.00	0.00	0.00	146.40	633.00	150.00	0.00	150.16	16.82	3.94	231.40	154.34
215.700	300.00	0.00	0.00	146.40	899.00	150.51	0.00	150.71	18.67	4.55	283.01	205.97
222.350	645.00	0.00	0.00	147.30	324.00	149.99	0.00	150.04	9.97	2.39	214.94	107.41
222.350	645.00	0.00	0.00	147.30	528.00	150.61	0.00	150.67	9.32	2.70	308.71	172.71
222.350	645.00	0.00	0.00	147.30	633.00	150.88	0.00	150.95	9.20	2.84	352.86	208.75
222.350	645.00	0.00	0.00	147.30	899.00	151.45	0.00	151.52	9.12	3.14	452.43	294.77
225.200	285.00	0.00	0.00	147.30	324.00	150.26	0.00	150.31	9.91	2.59	221.87	102.91
225.200	285.00	0.00	0.00	147.30	528.00	150.87	0.00	150.92	8.65	2.77	353.49	179.56
225.200	285.00	0.00	0.00	147.30	633.00	151.13	0.00	151.18	8.18	2.84	415.80	221.28
225.200	285.00	0.00	0.00	147.30	899.00	151.70	0.00	151.75	7.39	2.97	559.34	327.36
225.690	49.00	0.00	0.00	147.50	324.00	150.30	0.00	150.37	11.88	2.01	161.26	93.99
225.690	49.00	0.00	0.00	147.50	528.00	150.89	0.00	150.98	11.42	2.41	218.84	156.23
225.690	49.00	0.00	0.00	147.50	633.00	151.14	0.00	151.25	11.43	2.59	244.00	187.25
225.690	49.00	0.00	0.00	147.50	899.00	151.68	0.00	151.82	11.68	2.99	297.56	268.44
226.050	36.00	154.00	152.40	147.50	324.00	150.34	0.00	150.55	66.29	3.66	88.60	39.79
226.050	36.00	154.00	152.40	147.50	528.00	150.90	0.00	151.31	117.88	5.09	103.75	48.63
226.050	36.00	154.00	152.40	147.50	633.00	151.14	0.00	151.65	144.72	5.73	110.49	52.62
226.050	36.00	154.00	152.40	147.50	899.00	151.66	150.30	152.48	240.33	7.25	122.74	57.41
226.400	35.00	0.00	0.00	147.50	324.00	150.56	0.00	150.67	19.05	2.67	125.51	74.23
226.400	35.00	0.00	0.00	147.50	528.00	151.33	0.00	151.45	18.67	2.81	195.16	122.19
226.400	35.00	0.00	0.00	147.50	633.00	151.68	0.00	151.80	17.27	2.81	234.63	152.33
226.400	35.00	0.00	0.00	147.50	899.00	152.51	0.00	152.62	11.25	2.71	345.28	265.36
227.100	70.00	0.00	0.00	150.60	324.00	152.14	152.14	152.45	219.07	4.47	72.45	21.89
227.100	70.00	0.00	0.00	150.60	528.00	152.36	152.36	152.80	200.84	5.28	99.92	37.26
227.100	70.00	0.00	0.00	150.60	633.00	152.47	152.47	152.96	192.23	5.60	113.01	45.66
227.100	70.00	0.00	0.00	150.60	899.00	152.77	0.00	153.32	150.01	5.94	149.82	72.67
227.220	12.00	155.40	155.10	155.00	324.00	157.93	0.00	157.95	2.40	1.14	282.98	209.32
227.220	12.00	155.40	155.10	155.00	528.00	158.66	0.00	158.69	2.53	1.39	419.47	331.69
227.220	12.00	155.40	155.10	155.00	633.00	158.99	0.00	158.93	2.68	1.50	492.19	386.59
227.220	12.00	155.40	155.10	155.00	899.00	159.34	0.00	159.38	3.00	1.75	636.51	508.49

CM

SECNO	XLCH	ELTRD	ELLC	ELMIM	Q	CWSFL	CRIMS	EG	10K85	VCH	AREA	.01K	
N	230.000	278.00	0.00	0.00	148.30	324.00	157.95	0.00	157.95	0.01	0.14	2261.42	3534.05
	230.000	278.00	0.00	0.00	148.30	528.00	158.69	0.00	158.69	0.02	0.21	2500.29	4164.29
	230.000	278.00	0.00	0.00	148.30	633.00	158.93	0.00	158.93	0.02	0.25	2578.81	4379.63
	230.000	278.00	0.00	0.00	148.30	890.00	159.39	0.00	159.39	0.03	0.33	2729.45	4800.89
	237.550	755.00	0.00	0.00	149.20	324.00	157.96	0.00	157.96	0.01	0.18	1798.25	2696.67
	237.550	755.00	0.00	0.00	149.20	528.00	158.69	0.00	158.70	0.03	0.27	2041.76	3222.20
	237.550	755.00	0.00	0.00	149.20	633.00	158.93	0.00	158.94	0.03	0.31	2122.83	3402.93
	237.550	755.00	0.00	0.00	149.20	890.00	159.39	0.00	159.39	0.06	0.41	2279.75	3760.08
	245.600	305.00	0.00	0.00	150.20	324.00	157.96	0.00	157.96	0.08	0.34	959.47	1137.53
	245.600	305.00	0.00	0.00	150.20	528.00	158.70	0.00	158.70	0.13	0.48	1128.64	1455.06
	245.600	305.00	0.00	0.00	150.20	633.00	158.94	0.00	158.94	0.16	0.55	1186.09	1565.94
	245.600	305.00	0.00	0.00	150.20	890.00	159.40	0.00	159.41	0.25	0.71	1298.83	1787.56
	249.000	340.00	0.00	0.00	150.40	324.00	157.96	0.00	157.96	0.01	0.17	1950.30	2649.31
	249.000	340.00	0.00	0.00	150.40	528.00	158.70	0.00	158.70	0.03	0.24	2209.54	3246.78
	249.000	340.00	0.00	0.00	150.40	633.00	158.95	0.00	158.95	0.03	0.28	2295.70	3452.07
	249.000	340.00	0.00	0.00	150.40	890.00	159.41	0.00	159.41	0.05	0.36	2462.33	2858.10
	252.000	300.00	0.00	0.00	150.60	324.00	157.96	0.00	157.96	0.04	0.25	1275.45	1698.75
	252.000	300.00	0.00	0.00	150.60	528.00	158.70	0.00	158.71	0.06	0.37	1458.06	2095.94
	252.000	300.00	0.00	0.00	150.60	633.00	158.95	0.00	158.95	0.08	0.42	1519.80	2233.39
	252.000	300.00	0.00	0.00	150.60	890.00	159.41	0.00	159.41	0.13	0.55	1636.42	2506.61
	258.200	620.00	0.00	0.00	150.90	324.00	157.96	0.00	157.97	0.06	0.32	1097.70	1294.39
	258.200	620.00	0.00	0.00	150.90	528.00	158.71	0.00	158.71	0.10	0.45	1303.94	1649.99
	258.200	620.00	0.00	0.00	150.90	633.00	158.95	0.00	158.96	0.13	0.51	1373.94	1775.21
	258.200	620.00	0.00	0.00	150.90	890.00	159.42	0.00	159.42	0.19	0.66	1511.44	2027.09
	261.100	290.00	0.00	0.00	151.00	324.00	157.99	0.00	158.05	1.75	2.22	264.48	148.65
	261.100	290.00	0.00	0.00	151.00	528.00	158.73	0.00	158.77	3.36	2.09	518.58	288.05
	261.100	290.00	0.00	0.00	151.00	633.00	158.98	0.00	159.02	3.31	2.14	607.87	348.14
	261.100	290.00	0.00	0.00	151.00	890.00	159.45	0.00	159.49	3.41	2.31	787.02	482.10
	264.000	490.00	0.00	0.00	151.30	324.00	158.15	0.00	158.17	1.68	1.54	417.37	249.71
	264.000	490.00	0.00	0.00	151.30	528.00	158.86	0.00	158.88	1.83	1.76	588.67	390.40
	264.000	490.00	0.00	0.00	151.30	633.00	159.10	0.00	159.13	2.00	1.89	650.98	447.22
	264.000	490.00	0.00	0.00	151.30	890.00	159.58	0.00	159.61	2.44	2.20	776.37	569.29
	278.800	1280.00	0.00	0.00	151.90	324.00	158.35	0.00	158.36	1.75	1.41	450.03	245.16
	278.800	1280.00	0.00	0.00	151.90	528.00	159.07	0.00	159.08	1.92	1.60	630.43	381.10
	278.800	1280.00	0.00	0.00	151.90	633.00	159.33	0.00	159.35	2.07	1.71	702.63	439.54
	278.800	1280.00	0.00	0.00	151.90	890.00	159.85	0.00	159.87	2.44	1.96	855.80	570.00
	281.000	220.00	0.00	0.00	152.40	324.00	158.31	0.00	158.60	12.44	4.70	91.32	91.88
	281.000	220.00	0.00	0.00	152.40	528.00	158.93	0.00	159.51	22.22	6.74	106.25	112.02
	281.000	220.00	0.00	0.00	152.40	633.00	159.14	0.00	159.87	28.06	7.74	113.85	119.50
	281.000	220.00	0.00	0.00	152.40	890.00	159.99	159.99	160.62	24.12	7.81	278.67	181.20
	282.000	100.00	0.00	0.00	154.00	324.00	158.42	0.00	158.91	37.84	5.63	57.52	52.67
	282.000	100.00	0.00	0.00	154.00	528.00	159.60	0.00	159.62	2.94	1.98	537.77	308.06
	282.000	100.00	0.00	0.00	154.00	633.00	159.99	0.00	160.02	2.73	2.02	639.49	382.90
	282.000	100.00	0.00	0.00	154.00	890.00	160.69	0.00	160.72	2.42	2.07	832.96	572.31

030

Q

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SECNO	XLCN	ELTRD	ELLC	ELPMN	Q	CASHL	CRDMS	EG	INRDS	MOB	AREA	LODR
311.500	350.00	0.00	0.00	157.00	324.00	161.30	0.00	161.33	4.95	2.04	312.28	145.62
311.500	350.00	0.00	0.00	157.00	528.00	161.88	0.00	161.91	5.25	2.32	433.97	230.45
311.500	350.00	0.00	0.00	157.00	633.00	162.12	0.00	162.15	5.34	2.44	493.30	273.91
311.500	350.00	0.00	0.00	157.00	890.00	162.73	0.00	162.76	4.85	2.54	647.33	404.32
318.200	670.00	0.00	0.00	158.00	324.00	161.59	0.00	161.61	3.68	1.75	372.20	168.83
318.200	670.00	0.00	0.00	158.00	528.00	162.18	0.00	162.19	3.73	1.96	532.96	273.37
318.200	670.00	0.00	0.00	158.00	633.00	162.42	0.00	162.44	3.72	2.04	605.41	329.35
318.200	670.00	0.00	0.60	158.00	890.00	163.01	0.00	163.03	3.43	2.14	787.46	489.57
322.800	460.00	0.00	0.00	158.50	324.00	161.89	0.00	161.96	12.65	2.87	322.38	91.08
322.800	460.00	0.00	0.00	158.50	528.00	162.37	0.00	162.39	6.14	2.22	642.57	213.40
322.800	460.00	0.00	0.00	158.50	633.00	162.58	0.00	162.60	4.58	2.00	803.89	295.63
322.800	460.00	0.00	0.00	158.50	890.00	163.13	0.00	163.15	2.75	1.71	1038.51	537.17
326.200	340.00	0.00	0.00	159.00	324.00	162.25	0.00	162.32	12.15	2.83	253.35	92.45
326.200	340.00	0.00	0.00	159.00	528.00	162.60	0.00	162.67	12.88	3.16	364.21	147.14
326.200	340.00	0.00	0.00	159.00	633.00	162.78	0.00	162.85	12.21	3.19	426.72	181.13
326.200	340.00	0.00	0.00	159.00	890.00	163.27	0.00	163.32	9.33	3.06	609.14	291.44
330.600	440.00	0.00	0.00	159.50	324.00	162.46	0.00	162.47	2.25	1.17	685.50	215.83
330.600	440.00	0.00	0.00	159.50	528.00	162.81	0.00	162.81	2.24	1.27	947.84	353.17
330.600	440.00	0.00	0.00	159.50	633.00	162.98	0.00	162.99	2.15	1.30	1081.23	431.52
330.600	440.00	0.00	0.00	159.50	890.00	163.43	0.00	163.43	1.77	1.29	1442.22	468.37
336.500	590.00	0.00	0.00	160.00	158.00	162.63	0.00	162.65	4.71	1.63	187.41	72.77
336.500	590.00	0.00	0.00	160.00	258.00	162.99	0.00	163.02	5.49	1.91	264.34	111.97
336.500	590.00	0.00	0.00	160.00	309.00	163.16	0.00	163.19	5.41	1.99	305.51	132.83
336.500	590.00	0.00	0.00	160.00	435.00	163.58	0.00	163.61	4.82	2.06	421.54	198.89
339.000	250.00	0.00	0.00	161.00	158.00	162.97	0.00	163.04	28.14	3.21	92.37	28.77
339.000	250.00	0.00	0.00	161.00	258.00	163.31	0.00	163.39	28.71	3.55	136.55	48.15
339.000	250.00	0.00	0.00	161.00	309.00	163.47	0.00	163.56	28.82	3.68	157.99	58.38
339.000	250.00	0.00	0.00	161.00	435.00	163.84	0.00	163.93	24.31	3.81	216.88	88.23
342.000	300.00	0.00	0.00	161.50	158.00	163.93	0.00	164.09	45.01	4.29	80.63	23.55
342.000	300.00	0.00	0.00	161.50	258.00	164.21	0.00	164.36	42.12	4.54	123.28	39.75
342.000	300.00	0.00	0.00	161.50	309.00	164.34	0.00	164.48	40.64	4.62	142.19	48.47
342.000	300.00	0.00	0.00	161.50	435.00	164.61	0.00	164.76	37.53	4.78	185.29	71.01
342.600	60.00	0.00	0.00	162.80	158.00	165.51	165.51	166.25	177.80	6.93	22.30	11.85
342.600	60.00	0.00	0.00	162.80	258.00	166.37	166.37	166.81	79.17	5.76	68.46	29.40
342.600	60.00	0.00	0.00	162.80	309.00	166.52	166.52	166.94	73.63	5.83	85.15	36.41
342.600	60.00	0.00	0.00	162.80	435.00	166.73	166.73	167.23	86.99	6.72	106.92	46.64
342.700	10.00	167.10	166.10	162.80	158.00	165.99	0.00	166.39	78.17	5.10	30.96	17.87
342.700	10.00	167.10	166.10	162.80	258.00	167.14	0.00	167.21	11.61	2.73	161.99	75.71
342.700	10.00	167.10	166.10	162.80	309.00	167.49	0.00	167.55	8.63	2.54	205.62	105.21
342.700	10.00	167.10	166.10	162.80	435.00	167.94	0.00	168.01	8.33	2.73	264.01	158.49
343.600	90.00	0.00	0.00	163.00	158.00	166.45	0.00	166.47	2.86	1.24	146.76	118.15
343.600	90.00	0.00	0.00	163.00	258.00	167.22	0.00	167.25	2.21	1.51	205.57	173.51
343.600	90.00	0.00	0.00	163.00	309.00	167.55	0.00	167.58	2.28	1.62	231.95	204.46
343.600	90.00	0.00	0.00	163.00	435.00	168.00	0.00	168.05	2.98	1.98	289.43	232.01

SECNO	XLCH	ELTRD	ELLC	ELMIN	0	COSEL	CRIMS	EG	IOERS	VEN	AREA	.01R
345.250	165.00	0.00	0.00	164.20	158.00	166.61	0.00	167.16	62.67	5.95	26.54	19.76
345.250	165.00	0.00	0.00	164.20	258.00	167.26	0.00	168.17	77.47	7.68	33.61	29.31
345.250	165.00	0.00	0.00	164.20	309.00	167.51	0.00	168.63	85.53	8.48	36.45	33.41
345.250	165.00	0.00	0.00	164.20	435.00	167.84	167.84	169.67	125.15	10.86	49.06	38.88
345.470	22.30	176.00	173.90	169.40	158.00	171.25	171.25	172.19	149.90	7.76	20.35	12.90
345.470	22.30	176.00	173.90	169.40	258.00	171.97	171.97	173.26	136.66	9.14	28.23	22.87
345.470	22.30	176.00	173.90	169.40	309.00	172.30	172.30	173.76	131.24	9.68	31.93	26.97
345.470	22.30	176.00	173.90	169.40	435.00	173.04	173.04	174.87	125.83	10.88	39.99	38.78
348.000	253.00	0.00	0.00	166.40	158.00	172.28	0.00	172.28	0.92	0.16	1039.72	1267.49
348.000	253.00	0.00	0.00	166.40	258.00	173.39	0.00	173.39	0.92	0.21	1276.80	1774.34
348.900	253.00	0.00	0.00	166.40	309.00	173.98	0.00	173.90	0.92	0.23	1392.19	2030.22
348.900	253.00	0.00	0.00	166.40	435.00	175.06	0.00	175.06	0.93	0.27	1661.33	2667.93
350.900	290.00	0.00	0.00	168.70	158.00	172.36	0.00	172.64	19.00	4.23	37.39	36.25
350.900	290.00	0.00	0.00	168.70	258.00	173.41	0.00	173.86	22.93	5.36	48.12	53.88
350.900	290.00	0.00	0.00	168.70	309.00	173.89	0.00	174.42	24.56	5.84	52.91	62.35
350.900	290.00	0.00	0.00	168.70	435.00	175.06	0.00	175.08	1.18	1.58	475.75	400.68
351.270	36.70	176.50	174.70	168.70	158.00	172.45	0.00	172.75	36.66	4.38	36.11	26.10
351.270	36.70	176.50	174.70	168.70	258.00	173.49	0.00	174.04	58.94	5.99	43.55	32.01
351.270	36.70	176.50	174.70	168.70	309.00	173.94	0.00	174.64	69.56	6.79	46.12	37.65
351.270	36.70	176.50	174.70	168.70	435.00	176.72	0.00	176.75	1.39	2.01	390.87	368.68
165.700	385.00	145.93	0.00	0.54	0.00	300.12	415.00					
165.700	626.00	146.70	0.77	0.38	0.00	327.49	415.00					
165.700	751.00	147.08	0.38	0.32	0.00	336.93	415.00					
165.700	1050.00	147.95	0.87	0.23	0.00	358.69	415.00					
171.700	385.00	146.32	0.00	0.39	0.00	125.34	600.00					
171.700	626.00	147.00	0.68	0.30	0.00	131.28	600.00					
171.700	751.00	147.35	0.34	0.27	0.00	134.27	600.00					
171.700	1050.00	148.15	0.80	0.20	0.00	151.49	600.00					
183.200	385.00	147.31	0.00	0.98	0.00	219.46	1150.00					
183.200	626.00	147.99	0.68	0.99	0.00	525.20	1150.00					
183.200	751.00	148.25	0.26	0.91	0.00	534.79	1150.00					
183.200	1050.00	148.86	0.61	0.71	0.00	546.35	1150.00					

SECNO	0	CASEL	DIFWSP	DIFWSP0	DIFWSP5	TOTWTD	RELTH
190.500	324.00	147.78	0.00	0.47	0.00	175.44	730.00
190.500	528.00	148.43	0.45	0.45	0.00	247.89	730.00
190.500	633.00	148.44	0.22	0.41	0.10	253.82	730.00
190.500	890.00	149.18	0.52	0.32	0.10	284.75	730.00
206.500	324.00	148.55	0.00	0.77	0.00	343.83	1400.00
206.500	528.00	149.11	0.56	0.67	0.06	360.90	1400.00
206.500	633.00	149.33	0.22	0.67	0.00	368.87	1400.00
206.500	890.00	149.81	0.49	0.63	0.00	383.94	1400.00
212.700	324.00	148.86	0.00	0.31	0.00	144.57	620.00
212.700	528.00	149.41	0.55	0.31	0.00	177.47	620.00
212.700	633.00	149.64	0.23	0.31	0.10	190.74	620.00
212.700	890.00	150.13	0.49	0.31	0.00	212.48	620.00
215.700	324.00	149.18	0.00	0.32	0.00	87.68	300.00
215.700	528.00	149.76	0.58	0.35	0.00	96.42	300.00
215.700	633.00	150.00	0.24	0.37	0.00	109.82	300.00
215.700	890.00	150.51	0.50	0.38	0.00	104.56	300.00
222.350	324.00	149.99	0.00	0.81	0.00	137.57	665.00
222.350	528.00	150.61	0.62	0.85	0.10	160.55	665.00
222.350	633.00	150.88	0.27	0.88	0.00	169.52	665.00
222.350	890.00	151.45	0.57	0.96	0.00	188.17	665.00
225.200	324.00	150.26	0.00	0.27	0.00	202.51	285.00
225.200	528.00	150.87	0.61	0.26	0.00	230.32	285.00
225.200	633.00	151.13	0.26	0.25	0.00	242.37	285.00
225.200	890.00	151.70	0.56	0.25	0.00	268.08	285.00
225.690	324.00	150.30	0.00	0.04	0.00	77.40	47.00
225.690	528.00	150.87	0.59	0.02	0.00	77.40	47.00
225.690	633.00	151.14	0.25	0.01	0.00	77.40	47.00
225.690	890.00	151.68	0.54	-0.01	0.00	77.40	47.00
226.050	324.00	150.34	0.00	0.04	0.00	75.97	36.00
226.050	528.00	150.90	0.56	0.01	0.00	83.77	36.00
226.050	633.00	151.14	0.24	0.00	0.00	87.28	36.00
226.050	890.00	151.64	0.52	-0.02	0.00	94.61	36.00
226.400	324.00	150.56	0.00	0.21	0.00	74.81	35.00
226.400	528.00	151.33	0.77	0.42	0.00	105.68	35.00
226.400	633.00	151.68	0.35	0.50	0.00	119.67	35.00
226.400	890.00	152.51	0.84	0.45	0.00	142.19	35.00
227.100	324.00	152.14	0.00	1.58	0.00	120.41	70.00
227.100	528.00	152.36	0.23	1.63	0.00	121.87	70.00
227.100	633.00	152.47	0.11	0.77	0.00	121.41	70.00
227.100	890.00	152.77	0.30	0.26	0.00	122.32	70.00
227.220	324.00	157.93	0.00	5.80	0.00	122.35	12.00
227.220	528.00	158.66	0.73	6.30	0.00	304.50	12.00
227.220	633.00	158.90	0.23	6.42	0.00	315.23	12.00
227.220	890.00	159.34	0.44	6.57	0.00	335.51	12.00

SECNO	Q	CWSEL	DIFMSP	DIFMSX	DIFAMS	TOPWID	XLICH
230.000	324.00	157.95	0.00	0.02	0.00	319.17	278.00
230.000	528.00	158.69	0.74	0.03	0.00	326.93	278.00
230.000	633.00	158.93	0.24	0.04	0.00	329.33	278.00
230.000	890.00	159.39	0.45	0.05	0.00	333.87	278.00
237.550	324.00	157.96	0.00	0.00	0.00	320.50	755.00
237.550	528.00	158.69	0.74	0.00	0.00	336.07	755.00
237.550	633.00	158.93	0.24	0.00	0.00	340.47	755.00
237.550	890.00	159.39	0.46	0.00	0.00	348.81	755.00
245.600	324.00	157.96	0.00	0.00	0.00	220.24	805.00
245.600	528.00	158.70	0.74	0.00	0.00	236.53	805.00
245.600	633.00	158.94	0.24	0.01	0.00	241.77	805.00
245.600	890.00	159.40	0.46	0.01	0.00	251.76	805.00
249.000	324.00	157.96	0.00	0.00	0.00	343.46	340.00
249.000	528.00	158.70	0.74	0.00	0.00	354.89	340.00
249.000	633.00	158.95	0.24	0.01	0.00	358.63	340.00
249.000	890.00	159.41	0.46	0.01	0.00	365.76	340.00
252.000	324.00	157.96	0.00	0.00	0.00	240.23	300.00
252.000	528.00	158.70	0.74	0.00	0.00	249.06	300.00
252.000	633.00	158.95	0.24	0.00	0.00	251.49	300.00
252.000	890.00	159.41	0.46	0.00	0.00	256.13	300.00
258.200	324.00	157.76	0.90	0.00	0.00	268.17	620.00
258.200	528.00	158.71	0.75	0.00	0.00	285.42	620.00
258.200	633.00	158.95	0.24	0.01	0.00	290.98	620.00
258.200	890.00	159.42	0.47	0.01	0.00	301.60	620.00
261.100	324.00	157.99	0.00	0.03	0.00	322.25	290.00
261.100	528.00	158.73	0.74	0.02	0.00	359.83	290.00
261.100	633.00	158.98	0.24	0.03	0.00	371.43	290.00
261.100	890.00	159.45	0.47	0.03	0.00	393.67	290.00
266.000	324.00	158.15	0.00	0.16	0.00	233.81	490.00
266.000	528.00	158.86	0.71	0.13	0.00	251.46	490.00
266.000	633.00	159.10	0.24	0.13	0.00	257.58	490.00
266.000	890.00	159.58	0.48	0.13	0.00	269.48	490.00
278.800	324.00	158.35	0.00	0.20	0.00	232.82	1280.00
278.800	528.00	159.07	0.72	0.21	0.00	268.64	1280.00
278.800	633.00	159.33	0.24	0.23	0.00	281.70	1280.00
278.800	890.00	159.85	0.52	0.27	0.00	307.57	1280.00
281.000	324.00	158.31	0.00	-0.04	0.00	23.27	220.00
281.000	528.00	158.93	0.62	-0.14	0.00	24.82	220.00
281.000	633.00	159.14	0.20	-0.20	0.00	63.86	220.00
281.000	890.00	159.99	0.86	0.14	0.00	318.31	220.00
282.000	324.00	158.42	0.00	0.11	0.00	16.70	100.00
282.000	528.00	159.60	1.18	0.66	0.00	246.42	100.00
282.000	633.00	159.99	0.40	0.86	0.00	269.30	100.00
282.000	890.00	160.69	0.70	0.70	0.00	279.69	100.00

SECNO	0	CMSL	DIFWSP	DIFWSK	DIFWMS	TOPWID	XLCH
282.040	324.00	158.43	0.00	0.02	0.00	16.70	4.00
282.040	528.00	160.30	1.07	0.71	0.00	245.30	4.00
282.040	633.00	160.58	0.29	0.59	0.00	250.11	4.00
282.040	890.00	161.07	0.50	0.30	0.00	258.81	4.00
283.000	324.00	158.85	0.00	0.42	0.00	19.53	96.00
283.000	528.00	160.20	1.42	0.03	0.00	232.69	96.00
283.000	633.00	160.57	0.29	0.01	0.00	235.51	96.00
283.000	890.00	161.00	0.51	0.00	0.00	240.49	96.00
287.550	324.00	160.31	0.00	1.46	0.00	282.15	455.00
287.550	528.00	160.91	0.59	0.63	0.00	289.02	455.00
287.550	633.00	161.11	0.20	0.54	0.00	291.08	455.00
287.550	890.00	161.55	0.44	0.47	0.00	295.49	455.00
297.000	324.00	160.72	0.00	0.41	0.00	421.85	945.00
297.000	528.00	161.23	0.51	0.32	0.00	430.29	945.00
297.000	633.00	161.43	0.29	0.32	0.00	433.62	945.00
297.000	890.00	161.87	0.44	0.32	0.00	440.89	945.00
297.700	324.00	160.69	0.00	-0.03	0.00	37.50	70.00
297.700	528.00	161.13	0.44	-0.10	0.00	37.50	70.00
297.700	633.00	161.29	0.16	-0.14	0.00	37.50	70.00
297.700	890.00	161.61	0.32	-0.26	0.00	37.50	70.00
298.000	324.00	160.71	0.00	0.03	0.00	37.50	30.00
298.000	528.00	161.19	0.48	0.07	0.00	37.50	30.00
298.000	633.00	161.39	0.20	0.10	0.00	37.50	30.00
298.000	890.00	161.83	0.74	0.22	0.00	37.50	30.00
299.000	324.00	160.89	0.00	0.17	0.00	424.59	100.00
299.000	528.00	161.51	0.42	0.31	0.00	431.34	100.00
299.000	633.00	161.79	0.28	0.40	0.00	434.35	100.00
299.000	890.00	162.44	0.65	0.61	0.00	441.41	100.00
304.400	324.00	161.04	0.00	0.16	0.00	304.41	740.00
304.400	528.00	161.64	0.60	0.14	0.00	356.78	740.00
304.400	633.00	161.91	0.27	0.13	0.00	380.12	740.00
304.400	890.00	162.55	0.63	0.11	0.00	410.00	740.00
307.000	324.00	161.06	0.00	0.02	0.00	337.19	60.00
307.000	528.00	161.66	0.60	0.02	0.00	358.02	60.00
307.000	633.00	161.93	0.27	0.01	0.00	367.46	60.00
307.000	890.00	162.56	0.63	0.01	0.00	375.57	60.00
307.100	324.00	160.96	0.00	-0.10	0.00	148.24	10.00
307.100	528.00	161.61	0.65	-0.05	0.00	313.62	10.00
307.100	633.00	161.89	0.28	-0.04	0.00	323.07	10.00
307.100	890.00	162.63	0.74	0.07	0.00	347.72	10.00
308.000	324.00	161.23	0.00	0.26	0.00	261.53	90.00
308.000	528.00	161.80	0.57	0.19	0.00	281.46	90.00
308.000	633.00	162.34	0.24	0.15	0.00	289.72	90.00
308.000	890.00	162.66	0.62	0.03	0.00	310.63	90.00

SECMO	0	OWSEL	DIFWSR	DIFWSX	DIFWFC	TOWWID	ILCH
311.500	324.00	161.30	0.00	0.00	0.00	200.07	351.00
311.500	520.00	161.80	0.57	0.00	0.00	224.44	354.00
311.500	633.00	162.12	0.24	0.00	0.00	236.04	350.00
311.500	890.00	162.73	0.61	0.07	0.00	273.74	352.00
318.200	324.00	161.57	0.00	0.29	0.00	252.14	470.00
318.200	520.00	162.10	0.59	0.30	0.00	271.20	470.00
318.200	633.00	162.42	0.25	0.30	0.00	295.89	470.00
318.200	890.00	163.01	0.50	0.28	0.00	320.67	470.00
322.000	324.00	161.89	0.00	0.30	0.00	618.77	460.00
322.000	520.00	162.37	0.47	0.19	0.00	697.21	460.00
322.000	633.00	162.50	0.22	0.16	0.00	701.02	460.00
322.000	890.00	163.13	0.55	0.13	0.00	712.70	460.00
326.200	324.00	162.25	0.00	0.36	0.00	303.26	300.00
326.200	520.00	162.60	0.35	0.23	0.00	335.30	300.00
326.200	633.00	162.70	0.10	0.20	0.00	352.20	300.00
326.200	890.00	163.27	0.47	0.13	0.00	397.23	300.00
330.600	324.00	162.46	0.00	0.21	0.00	727.72	440.00
330.600	520.00	162.81	0.34	0.21	0.00	764.60	440.00
330.600	633.00	162.99	0.17	0.20	0.00	782.00	440.00
330.600	890.00	163.43	0.45	0.14	0.00	879.86	440.00
334.500	150.00	162.63	0.00	0.17	0.00	195.97	590.00
334.500	250.00	162.99	0.34	0.10	0.00	233.50	590.00
334.500	309.00	163.16	0.17	0.10	0.00	251.41	590.00
334.500	435.00	163.50	0.42	0.16	0.00	295.93	590.00
339.000	150.00	162.97	0.00	0.30	0.00	116.75	250.00
339.000	250.00	163.31	0.34	0.32	0.00	137.17	250.00
339.000	309.00	163.47	0.16	0.31	0.00	145.09	250.00
339.000	435.00	163.84	0.37	0.26	0.00	167.83	250.00
342.000	150.00	163.93	0.00	0.96	0.00	140.49	300.00
342.000	250.00	164.71	0.20	0.90	0.00	152.89	300.00
342.000	309.00	164.34	0.13	0.87	0.00	154.53	300.00
342.000	435.00	164.61	0.20	0.77	0.00	158.20	300.00
342.600	150.00	165.51	0.00	1.50	0.00	15.45	60.00
342.600	250.00	166.37	0.84	2.16	0.00	106.04	60.00
342.600	309.00	166.52	0.16	2.19	0.00	107.62	60.00
342.600	435.00	166.73	0.20	2.11	0.00	108.63	60.00
342.700	150.00	165.99	0.00	0.40	0.00	17.96	10.00
342.700	250.00	167.14	1.15	0.77	0.00	123.54	10.00
342.700	309.00	167.49	0.35	0.96	0.00	126.16	10.00
342.700	435.00	167.90	0.46	1.22	0.00	129.50	10.00
343.600	150.00	166.45	0.00	0.46	0.00	73.22	90.00
343.600	250.00	167.22	0.77	0.00	0.00	70.82	90.00
343.600	309.00	167.55	0.33	0.00	0.00	81.21	90.00
343.600	435.00	168.00	0.45	0.05	0.00	84.49	90.00

SECONO	Q	CASE1	FORMED	FORM	FORMED	FORMED	FORMED	FORMED
345.250	158.00	146.61	0.10	0.16	0.00	11.00	145.00	
345.250	258.00	167.26	0.44	0.44	0.00	11.00	145.00	
345.250	309.00	167.51	0.74	0.09	0.00	11.00	145.00	
345.250	435.00	167.84	0.33	0.16	0.00	11.00	145.00	
345.470	158.00	171.25	0.00	0.44	0.00	11.00	22.30	
345.470	258.00	171.87	0.72	0.71	0.00	11.00	22.30	
345.470	309.00	172.30	0.34	0.70	0.00	11.00	22.30	
345.470	435.00	173.04	0.73	5.19	0.00	11.00	22.30	
348.000	158.00	172.20	0.00	1.03	0.00	217.20	253.00	
348.000	258.00	173.39	1.11	1.45	0.00	224.30	253.00	
348.000	309.00	173.90	1.51	1.60	0.00	228.29	253.00	
348.000	435.00	175.06	1.15	2.02	0.00	238.33	253.00	
350.900	158.00	172.36	0.00	0.00	0.00	10.20	290.00	
350.900	258.00	173.41	1.05	0.02	2.00	10.20	290.00	
350.900	309.00	173.89	0.47	0.00	0.00	10.20	290.00	
350.900	435.00	175.06	1.17	0.00	0.00	133.50	290.00	
351.270	158.00	172.45	0.00	0.00	0.00	10.20	36.70	
351.270	258.00	173.49	1.04	0.07	0.00	10.20	36.70	
351.270	309.00	173.94	0.46	0.06	0.00	10.20	36.70	
351.270	435.00	176.72	2.77	1.65	0.00	54.23	36.70	

CAUTION SECONO= 227.100 PROFILE= 1 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 227.100 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 227.100 PROFILE= 2 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 227.100 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 227.100 PROFILE= 3 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 227.100 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECONO= 281.000 PROFILE= 4 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 281.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECONO= 342.600 PROFILE= 1 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 342.600 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 342.600 PROFILE= 2 CRITICAL DEPTH ASSIGNED
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CAUTION SECONO= 345.250 PROFILE= 4 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 345.250 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECONO= 345.470 PROFILE= 1 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 345.470 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 345.470 PROFILE= 2 CRITICAL DEPTH ASSIGNED
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CAUTION SECONO= 345.470 PROFILE= 3 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 345.470 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 345.470 PROFILE= 4 CRITICAL DEPTH ASSIGNED
CAUTION SECONO= 345.470 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECONO= 345.470 PROFILE= 4

SACNO	ERNO	RUCO	ERKAS	ELTRB	OPR	QWEIR	CLASS	WT	DEPTH	CMSL	LEN	EQ
451.254	207.21	DM-DT	0.20	222.20	0.20	158.33	30.00	0.01	10.75	224.65	0.08	224.47
451.254	208.48	DM-DT	0.18	222.20	0.18	257.94	30.00	0.00	11.25	225.35	0.08	225.09
451.254	209.29	DM-DT	0.18	222.20	0.18	308.89	30.00	0.00	11.47	225.57	0.08	225.29
451.254	209.15	DM-DT	0.16	222.20	0.16	436.42	30.00	0.00	11.97	226.07	0.08	225.89
352.000	172.81	DM	0.02	49.54	25.46	98.61	33.94					
352.000	174.11	DM	0.05	56.87	58.93	120.69	78.37					
352.000	174.71	DM	0.04	60.26	75.96	132.13	100.91					
352.000	176.73	DM	0.09	78.84	123.83	150.18	160.98					

362.250	174.57	DM	0.14	12.30	0.24	157.34	0.43					
362.250	175.48	DM	0.20	15.95	2.91	249.88	5.22					
362.250	175.91	DM	0.22	17.63	5.51	293.61	9.88					
362.250	177.28	DM	0.14	25.63	23.01	374.86	37.13					
363.050	175.18	DM	0.03	14.98	0.00	158.00	0.00					
363.050	176.22	DM	0.04	16.60	0.00	258.00	0.00					
363.050	176.67	DM	0.04	17.31	0.00	309.00	0.00					
363.050	177.79	DM	0.03	19.05	0.00	435.00	0.00					
363.450	186.01	DM	0.09	159.15	16.25	98.76	42.99					
363.450	186.71	DM	0.09	186.60	34.28	148.94	74.77					
363.450	187.32	DM	0.09	198.98	44.88	172.34	91.78					
363.450	188.04	DM	0.09	491.94	71.80	228.40	134.79					
366.000	186.01	DM	0.09	1010.40	0.12	157.84	0.04					
366.000	186.71	DM	0.09	1051.21	0.36	257.51	0.13					
366.000	187.32	DM	0.09	1069.62	0.53	308.25	0.22					
366.000	188.05	DM	0.09	1103.67	1.04	433.43	0.52					

395.000	186.52	DM	0.05	55.86	10.65	134.44	12.91					
395.000	187.21	DM	0.05	104.87	35.57	167.30	55.13					
395.000	187.55	DM	0.04	128.21	51.50	172.68	84.82					
395.000	188.19	DM	0.03	166.95	91.86	179.79	163.44					

SECNO	CUSEL	REL	REL 955	TORWID	REL 00	QCH	DROR
395.350	186.73	0.05	0.01	13.60	0.00	158.00	0.00
395.350	187.24	0.07	0.02	13.60	0.00	258.00	0.00
395.350	187.40	0.07	0.04	13.60	0.00	309.00	0.00
395.350	187.91	0.00	0.15	13.60	0.00	435.00	0.00
395.500	186.70	0.05	0.00	13.60	0.00	158.00	0.00
395.500	187.39	0.13	0.00	13.60	0.00	258.00	0.00
395.500	187.71	0.20	0.00	13.60	0.00	309.00	0.00
395.500	188.57	0.52	0.00	13.60	0.00	435.00	0.00
396.300	186.81	0.11	0.04	11.40	0.00	158.00	0.00
396.300	187.41	0.18	0.07	11.40	0.00	258.00	0.00
396.300	187.72	0.20	0.00	11.40	0.00	309.00	0.00
396.300	188.55	0.24	0.11	11.40	0.00	435.00	0.00
396.530	186.84	0.05	0.00	11.40	0.00	158.00	0.00
396.530	187.51	0.07	0.00	11.40	0.00	258.00	0.00
396.530	187.85	0.00	0.00	11.40	0.00	309.00	0.00
396.530	189.32	0.56	0.00	11.40	0.00	435.00	0.00
397.500	187.59	1.57	-0.40	11.47	0.31	157.39	0.31
397.500	188.37	1.34	-0.20	13.43	2.70	252.59	2.70
397.500	188.72	1.26	-0.22	14.30	4.82	299.36	4.82
397.500	189.50	1.13	-0.13	16.25	12.34	410.32	12.34

413.300	198.04	3.70	0.05	30.76	15.86	92.14	0.00
413.300	198.39	3.63	0.10	36.85	43.81	163.29	0.90
413.300	198.59	3.49	-0.20	40.37	61.55	194.78	2.67
413.300	199.01	3.27	-0.51	47.60	107.57	266.65	10.78
413.800	210.02	0.00	-0.11	62.04	59.95	47.10	0.90
413.800	210.29	0.96	-0.05	84.43	131.20	74.55	2.74
413.800	210.41	0.96	-0.04	94.48	169.72	86.19	3.09
413.800	210.65	0.96	-0.07	115.10	267.69	111.69	5.62
413.850	212.41	2.17	0.00	333.35	72.01	9.62	26.37
413.850	212.61	2.01	0.00	335.01	139.72	17.05	51.23
413.850	212.70	1.95	0.00	335.72	174.41	20.59	63.99
413.850	212.89	1.85	0.00	337.26	260.23	28.86	95.71
414.700	212.41	0.00	0.00	404.12	0.32	157.22	0.46
414.700	212.62	0.00	0.00	406.17	0.68	256.41	0.91
414.700	212.70	0.00	0.00	407.04	0.90	306.92	1.18
414.700	212.89	0.00	0.00	408.94	1.56	431.51	1.93

447.500	212.53	0.15	0.01	53.15	4.41	148.83	4.75
447.500	212.83	0.00	0.03	63.56	9.69	237.06	11.25
447.500	212.97	0.35	0.04	68.18	13.04	280.34	15.63
447.500	213.27	0.51	0.06	78.42	23.08	382.45	29.47
448.100	212.34	0.31	0.21	10.60	0.00	158.00	0.00
448.100	212.83	0.82	-0.02	10.60	0.00	258.00	0.00
448.100	213.17	0.79	0.04	10.60	0.00	309.00	0.00
448.100	213.92	0.75	0.17	10.60	0.00	435.00	0.00

SEEMP	CASEL	40	40-015	440-113	440-118	470-01	480-01	480-01	480-01	480-01	480-01	480-01	480-01
449.020	212.35	0.00	0.00	10.60	0.00	150.00	0.00						
449.020	212.04	0.00	0.00	10.60	0.00	250.00	0.00						
449.020	213.10	0.00	0.00	10.60	0.00	300.00	0.00						
449.020	215.01	0.00	0.00	300.00	0.00	27.96	407.04						
450.000	213.10	0.02	0.07	234.50	31.44	21.26	105.30						
450.000	214.30	0.01	0.13	230.74	54.15	26.46	177.30						
450.000	214.02	0.01	0.15	240.72	65.94	29.41	213.45						
450.000	215.01	0.04	0.09	244.40	95.26	37.45	302.29						
450.250	212.50	0.34	0.20	7.00	0.00	150.00	0.00						
450.250	213.47	0.35	0.35	7.00	0.00	250.00	0.00						
450.250	215.04	0.00	0.00	132.12	222.93	52.31	33.75						
450.250	215.00	0.00	0.00	140.41	311.31	64.90	54.00						
450.700	214.42	1.07	-0.15	7.00	0.00	150.00	0.00						
450.700	215.07	1.00	-0.45	7.00	0.00	250.00	0.00						
450.700	215.62	1.93	-0.22	7.00	0.00	300.00	0.00						
450.700	216.06	2.05	-0.08	7.00	0.00	435.00	0.00						
451.200	215.92	0.17	0.12	89.54	98.44	55.44	3.93						
451.200	217.48	0.03	0.22	119.41	194.10	54.54	7.28						
451.200	218.35	0.01	0.25	120.48	239.54	59.06	9.60						
451.200	220.31	0.01	0.31	142.00	340.13	70.05	14.02						
451.250	224.85	0.00	0.00	44.05	14.04	120.67	21.20						
451.250	225.35	7.00	0.00	47.31	20.04	191.13	30.03						
451.250	225.57	7.26	0.00	40.00	34.61	225.67	40.72						
451.250	226.07	5.03	0.00	52.15	52.00	307.40	75.51						
352.000	73.00	0.00	0.00	149.00	150.00	172.01	0.00	172.91	12.91	3.07	79.67	43.90	
352.000	73.00	0.00	0.00	149.00	250.00	174.11	0.00	174.18	6.71	2.68	148.94	103.52	
352.000	73.00	0.00	0.00	149.00	300.00	174.71	0.00	174.77	4.90	2.58	184.24	139.54	
352.000	73.00	0.00	0.00	149.00	435.00	176.73	0.00	176.76	2.09	2.11	319.62	300.71	
357.700	570.00	0.00	0.00	148.50	150.00	173.22	0.00	173.29	4.42	2.18	92.04	75.10	
357.700	570.00	0.00	0.00	148.50	250.00	174.37	0.00	174.44	3.63	2.34	165.25	135.45	
357.700	570.00	0.00	0.00	148.50	300.00	174.93	0.00	174.99	3.06	2.31	208.89	176.56	
357.700	570.00	0.00	0.00	148.50	435.00	176.02	0.00	176.04	1.34	1.84	392.41	376.36	
362.250	405.00	0.00	0.00	171.00	150.00	174.57	0.00	175.10	69.42	5.88	27.42	10.96	
362.250	405.00	0.00	0.00	171.00	250.00	175.40	0.00	176.21	65.85	6.96	40.31	31.79	
362.250	405.00	0.00	0.00	171.00	300.00	175.91	0.00	176.70	62.91	7.33	47.34	30.94	
362.250	405.00	0.00	0.00	171.00	435.00	177.28	0.00	177.95	38.59	6.98	76.75	70.02	
363.050	00.00	0.00	0.00	172.00	150.00	175.19	0.00	175.43	25.64	3.96	39.05	31.20	
363.050	00.00	0.00	0.00	172.00	250.00	176.22	0.00	176.55	25.34	4.57	54.10	51.25	
363.050	00.00	0.00	0.00	172.00	300.00	176.67	0.00	177.03	25.19	4.84	63.00	61.57	
363.050	00.00	0.00	0.00	172.00	435.00	177.79	0.00	178.20	22.94	5.17	84.11	90.02	
363.450	00.00	102.00	102.50	100.90	150.00	186.01	0.00	186.01	0.24	0.56	410.35	310.90	
363.450	00.00	102.00	102.50	100.90	250.00	186.91	0.00	186.92	0.30	0.69	567.13	467.44	
363.450	00.00	102.00	102.50	100.90	300.00	187.32	0.00	187.32	0.31	0.74	645.96	550.57	
363.450	00.00	102.00	102.50	100.90	435.00	188.04	0.00	188.05	0.37	0.87	809.51	718.61	
364.000	255.00	0.00	0.00	170.00	150.00	170.00	0.00	170.00	0.00	0.00	0.00	0.00	0.00

366.000	255.00	0.00	0.00	170.00	258.00	186.92	0.00	186.92	0.00	0.02	13507.88	32741.02
366.000	255.00	0.00	0.00	170.00	309.00	187.32	0.00	187.32	0.00	0.02	13941.52	34392.68
366.000	255.00	0.00	0.00	170.00	435.00	188.05	0.00	188.05	0.00	0.03	14724.57	37395.48

SECMO	XLCH	ELTRD	ELLC	ELMIN	B	CUSEL	CRMS	EG	10K*5	VCH	AREA	JOIK
373.300	730.00	0.00	0.00	172.00	158.00	186.01	0.00	186.01	0.00	0.02	7891.87	15250.17
373.300	730.00	0.00	0.00	172.00	258.00	186.92	0.00	186.92	0.00	0.03	8796.15	17417.83
373.300	730.00	0.00	0.00	172.00	309.00	187.32	0.00	187.32	0.00	0.03	9217.81	18463.10
373.300	730.00	0.00	0.00	172.00	435.00	188.05	0.00	188.05	0.00	0.05	9987.14	18606.51
378.000	470.00	0.00	0.00	174.00	158.00	186.01	0.00	186.01	0.00	0.05	3119.61	5248.19
378.000	470.00	0.00	0.00	174.00	258.00	186.92	0.00	186.92	0.00	0.08	3506.18	6111.52
378.000	470.00	0.00	0.00	174.00	309.00	187.32	0.00	187.32	0.00	0.09	3689.88	6527.75
378.000	470.00	0.00	0.00	174.00	435.00	188.05	0.00	188.05	0.00	0.11	4028.07	7301.81
382.650	465.00	0.00	0.00	177.00	158.00	186.01	0.00	186.01	0.01	0.12	1583.12	2185.58
382.650	465.00	0.00	0.00	177.00	258.00	186.92	0.00	186.92	0.01	0.16	1973.22	2769.55
382.650	465.00	0.00	0.00	177.00	309.00	187.32	0.00	187.32	0.01	0.18	2166.57	3066.01
382.650	465.00	0.00	0.00	177.00	435.00	188.05	0.00	188.05	0.01	0.23	2533.97	3641.25
387.000	435.00	0.00	0.00	182.00	158.00	186.01	0.00	186.01	0.05	0.23	775.62	704.02
387.000	435.00	0.00	0.00	182.00	258.00	186.92	0.00	186.92	0.06	0.28	1049.46	1067.34
387.000	435.00	0.00	0.00	182.00	309.00	187.32	0.00	187.32	0.06	0.31	1178.65	1255.28
387.000	435.00	0.00	0.00	182.00	435.00	188.05	0.00	188.05	0.07	0.36	1415.19	1622.72
390.400	340.00	0.00	0.00	182.30	158.00	186.01	0.00	186.02	0.27	0.49	448.30	305.52
390.400	340.00	0.00	0.00	182.30	258.00	186.92	0.00	186.92	0.23	0.53	693.07	535.78
390.400	340.00	0.00	0.00	182.30	309.00	187.32	0.00	187.32	0.22	0.55	809.05	661.19
390.400	340.00	0.00	0.00	182.30	435.00	188.05	0.00	188.05	0.23	0.62	1022.75	914.34
392.900	250.00	0.00	0.00	182.50	158.00	186.14	0.00	186.24	15.14	3.25	81.15	40.60
392.900	250.00	0.00	0.00	182.50	258.00	186.99	0.00	187.04	7.92	2.80	195.77	91.66
392.900	250.00	0.00	0.00	182.50	309.00	187.38	0.00	187.42	5.53	2.50	283.12	131.42
392.900	250.00	0.00	0.00	182.50	435.00	188.08	0.00	188.10	3.25	2.12	511.88	241.41
395.000	210.00	0.00	0.00	183.00	158.00	186.52	0.00	186.80	33.10	4.62	48.43	27.46
395.000	210.00	0.00	0.00	183.00	258.00	187.21	0.00	187.44	25.00	4.63	104.70	51.60
395.000	210.00	0.00	0.00	183.00	309.00	187.55	0.00	187.72	19.84	4.38	143.56	69.37
395.000	210.00	0.00	0.00	183.00	435.00	188.19	0.00	188.30	13.01	3.92	239.98	120.61
395.350	35.00	0.00	0.00	182.70	158.00	186.73	0.00	186.87	10.06	3.02	52.27	49.81
395.350	35.00	0.00	0.00	182.70	258.00	187.24	0.00	187.53	18.33	4.36	59.21	60.26
395.350	35.00	0.00	0.00	182.70	309.00	187.48	0.00	187.86	22.36	4.95	62.47	65.35
395.350	35.00	0.00	0.00	182.70	435.00	187.91	0.00	188.54	33.81	6.36	68.36	74.81
395.500	22.70	190.00	188.00	182.70	158.00	186.78	0.00	186.92	9.63	2.98	53.01	50.90
395.500	22.70	190.00	188.00	182.70	258.00	187.39	0.00	187.66	16.58	4.22	61.20	63.36
395.500	22.70	190.00	188.00	182.70	309.00	187.71	0.00	188.06	19.20	4.70	65.70	70.51
395.500	22.70	190.00	188.00	182.70	435.00	188.57	0.00	189.06	23.46	5.63	77.32	89.80
396.300	72.00	0.00	0.00	183.20	158.00	186.81	0.00	187.07	20.65	4.10	38.55	34.77
396.300	72.00	0.00	0.00	183.20	258.00	187.41	0.00	187.91	33.10	5.68	45.39	44.85
396.300	72.00	0.00	0.00	183.20	309.00	187.73	0.00	188.34	37.42	6.30	49.05	50.51
396.300	72.00	0.00	0.00	183.20	435.00	188.55	0.00	189.41	43.70	7.45	58.42	65.80
396.530	23.00	191.00	188.30	183.20	158.00	186.86	0.00	187.11	19.61	4.03	39.19	35.00
396.530	23.00	191.00	188.30	183.20	258.00	187.51	0.00	187.98	30.65	5.54	46.54	46.60
396.530	23.00	191.00	188.30	183.20	309.00	187.85	0.00	188.43	34.44	6.13	50.40	52.45
396.530	23.00	191.00	188.30	183.20	435.00	189.32	0.00	189.97	28.81	6.47	67.26	81.04

SECNO	LCN	ELTRD	ELLC	ELNIM	0	CWSEL	CRIMS	EG	10K8S	VCH	AREA	.01R	
8	397.500	97.44	0.00	0.00	185.00	150.00	187.59	187.59	188.56	162.30	7.92	20.30	12.40
8	397.500	97.44	0.00	0.00	185.00	250.00	188.37	188.37	189.64	137.92	9.12	30.06	21.97
8	397.500	97.44	0.00	0.00	185.00	309.00	188.72	188.72	190.11	130.30	9.59	34.91	27.07
8	397.500	97.44	0.00	0.00	185.00	435.00	189.50	189.50	191.11	116.35	10.52	46.84	40.33
Y	401.550	485.00	0.00	0.00	185.50	150.00	190.00	0.00	191.20	39.91	4.71	41.01	25.01
Y	401.550	485.00	0.00	0.00	185.50	250.00	191.67	0.00	192.00	36.01	5.19	73.85	42.99
Y	401.550	485.00	0.00	0.00	185.50	309.00	192.00	0.00	192.32	33.42	5.28	92.14	53.45
Y	401.550	485.00	0.00	0.00	185.50	435.00	192.66	0.00	192.91	25.58	5.09	147.28	86.01
	404.500	295.00	0.00	0.00	184.10	150.00	191.97	0.00	192.25	31.75	4.34	43.58	28.04
	404.500	295.00	0.00	0.00	184.10	250.00	192.68	0.00	192.99	31.75	4.92	77.77	45.79
	404.500	295.00	0.00	0.00	184.10	309.00	192.96	0.00	193.26	31.00	5.07	97.66	55.50
	404.500	295.00	0.00	0.00	184.10	435.00	193.43	0.00	193.73	30.47	5.39	143.83	78.81
	407.300	289.00	0.00	0.00	184.00	150.00	192.39	0.00	192.44	3.30	1.87	112.75	86.94
	407.300	289.00	0.00	0.00	184.00	250.00	193.15	0.00	193.21	4.01	2.29	175.10	128.91
	407.300	289.00	0.00	0.00	184.00	309.00	193.42	0.00	193.49	4.35	2.47	202.92	148.20
	407.300	289.00	0.00	0.00	184.00	435.00	193.91	0.00	194.00	5.28	2.88	258.76	189.27
	409.300	289.00	0.00	0.00	191.00	150.00	192.95	0.00	193.33	76.08	4.96	32.66	18.11
	409.300	289.00	0.00	0.00	191.00	250.00	193.55	0.00	194.06	67.44	5.77	47.36	31.42
8	409.300	289.00	0.00	0.00	191.00	309.00	193.79	0.00	194.37	67.76	6.19	53.77	37.54
8	409.300	289.00	0.00	0.00	191.00	435.00	194.34	194.34	194.87	53.22	6.29	105.49	59.63
	410.000	70.00	0.00	0.00	194.00	100.00	194.39	0.00	194.52	256.06	3.61	39.73	6.75
	410.000	70.00	0.00	0.00	194.00	200.00	194.68	0.00	194.83	141.97	3.92	71.08	17.46
	410.000	70.00	0.00	0.00	194.00	259.00	194.84	0.00	195.00	100.84	3.85	90.45	25.79
	410.000	70.00	0.00	0.00	194.00	385.00	195.20	0.00	195.34	73.32	4.08	127.85	44.96
8	413.300	330.00	0.00	0.00	196.50	100.00	198.04	0.00	198.35	97.10	4.75	27.56	10.96
8	413.300	330.00	0.00	0.00	196.50	200.00	198.39	198.39	198.96	137.64	6.63	39.34	17.73
8	413.300	330.00	0.00	0.00	196.50	259.00	198.59	198.59	199.22	133.33	7.05	47.09	22.43
8	413.300	330.00	0.00	0.00	196.50	385.00	199.01	199.01	199.75	126.41	7.86	65.49	34.24
8	413.800	50.00	0.00	0.00	209.00	100.00	210.02	210.02	210.25	140.38	5.11	35.96	9.12
8	413.800	50.00	0.00	0.00	209.00	200.00	210.29	210.29	210.61	163.98	6.43	55.26	16.24
8	413.800	50.00	0.00	0.00	209.00	259.00	210.41	210.41	210.76	163.53	6.81	65.83	20.25
8	413.800	50.00	0.00	0.00	209.00	385.00	210.65	210.65	211.05	161.52	7.53	91.25	30.29
	413.850	5.00	210.00	208.10	210.00	100.00	212.41	0.00	212.41	0.34	0.44	475.68	186.20
	413.850	5.00	210.00	208.10	210.00	200.00	212.61	0.00	212.62	0.81	0.72	544.15	231.70
	413.850	5.00	210.00	208.10	210.00	259.00	212.70	0.00	212.70	1.06	0.85	573.15	252.12
	413.850	5.00	210.00	208.10	210.00	385.00	212.89	0.00	212.89	1.65	1.11	637.21	299.56
	414.700	90.00	0.00	0.00	196.00	150.00	212.41	0.00	212.41	0.00	0.04	3893.71	8801.35
	414.700	90.00	0.00	0.00	196.00	250.00	212.62	0.00	212.62	0.00	0.07	3976.77	9046.92
	414.700	90.00	0.00	0.00	196.00	309.00	212.70	0.00	212.70	0.00	0.08	4011.96	9151.78
	414.700	90.00	0.00	0.00	196.00	435.00	212.89	0.00	212.89	0.00	0.11	4089.71	9385.14
	423.700	900.00	0.00	0.00	193.00	150.00	212.41	0.00	212.41	0.00	0.04	3737.97	8697.17
	423.700	900.00	0.00	0.00	193.00	250.00	212.62	0.00	212.62	0.00	0.07	3800.57	8918.97
	423.700	900.00	0.00	0.00	193.00	309.00	212.70	0.00	212.70	0.00	0.08	3828.19	9017.36
	423.700	900.00	0.00	0.00	193.00	435.00	212.89	0.00	212.89	0.00	0.11	3889.17	9235.84

SECON	ALCM	EL 149	EL 151	EL 153	EL 155	EL 157	EL 159	EL 161	EL 163	EL 165	EL 167	EL 169	EL 171
429.100	540.00	0.00	0.00	158.00	158.00	212.40	0.00	212.40	0.00	0.00	0.00	0.00	0.00
429.100	540.00	0.00	0.00	158.00	258.00	212.40	0.00	212.40	0.00	0.00	0.00	0.00	0.00
429.100	540.00	0.00	0.00	158.00	309.00	212.40	0.00	212.40	0.00	0.00	0.00	0.00	0.00
429.100	540.00	0.00	0.00	158.00	435.00	212.40	0.00	212.40	0.00	0.00	0.00	0.00	0.00
439.000	990.00	0.00	0.00	202.00	158.00	212.40	0.00	212.40	0.00	0.17	1158.33	1423.58	
439.000	990.00	0.00	0.00	202.00	258.00	212.40	0.00	212.40	0.00	0.27	2238.25	1714.30	
439.000	990.00	0.00	0.00	202.00	309.00	212.40	0.00	212.40	0.00	0.32	1273.22	1754.15	
439.000	990.00	0.00	0.00	202.00	435.00	212.40	0.00	212.40	0.00	0.43	1352.79	1845.77	
447.500	850.00	0.00	0.00	208.50	158.00	212.57	0.00	212.57	3.45	1.74	1402.27	85.00	
447.500	850.00	0.00	0.00	208.50	258.00	212.57	0.00	212.57	6.59	2.57	119.95	144.52	
447.500	850.00	0.00	0.00	208.50	309.00	212.57	0.00	212.57	8.18	2.93	128.80	148.16	
447.500	850.00	0.00	0.00	208.50	435.00	212.57	0.00	212.57	11.85	3.71	158.64	128.10	
448.100	60.00	0.00	0.00	210.20	158.00	212.80	0.00	212.80	99.71	6.95	22.72	15.82	
448.100	60.00	0.00	0.00	210.20	258.00	212.80	212.80	214.16	136.13	9.25	27.89	22.11	
448.100	60.00	0.00	0.00	210.20	309.00	212.80	212.80	214.46	132.01	9.82	31.46	26.89	
448.100	60.00	0.00	0.00	210.20	435.00	212.80	212.80	215.81	125.89	11.01	39.50	38.77	
449.020	92.00	215.40	214.60	210.20	158.00	212.85	0.00	212.85	98.80	6.94	22.78	15.40	
449.020	92.00	215.40	214.60	210.20	258.00	212.85	0.00	214.16	134.51	9.22	27.99	22.25	
449.020	92.00	215.40	214.60	210.20	309.00	212.85	0.00	214.46	130.45	9.79	31.58	27.05	
449.020	92.00	215.40	214.60	210.20	435.00	212.85	0.00	215.81	0.15	0.47	1545.09	1141.65	
450.000	98.00	0.00	0.00	210.00	158.00	213.00	0.00	213.00	0.77	0.74	481.39	130.20	
450.000	98.00	0.00	0.00	210.00	258.00	213.00	0.00	214.30	0.40	0.44	645.01	487.79	
450.000	98.00	0.00	0.00	210.00	309.00	213.00	0.00	214.60	0.33	0.45	739.90	539.00	
450.000	98.00	0.00	0.00	210.00	435.00	213.00	0.00	215.81	0.28	0.48	1030.31	829.17	
450.250	25.00	0.00	0.00	210.00	158.00	212.50	212.50	213.77	144.15	9.02	17.51	13.16	
450.250	25.00	0.00	0.00	210.00	258.00	212.50	212.50	215.22	138.12	10.43	24.28	21.95	
450.250	25.00	0.00	0.00	210.00	309.00	212.50	212.50	215.88	1.39	1.48	374.01	262.08	
450.250	25.00	0.00	0.00	210.00	435.00	212.50	0.00	215.82	1.44	1.55	478.35	362.69	
450.700	52.50	220.34	218.00	211.90	158.00	214.42	214.42	215.70	203.67	9.04	17.44	11.47	
450.700	52.50	220.00	218.00	211.90	258.00	214.42	214.42	217.26	158.40	11.88	21.71	13.62	
450.700	52.50	220.00	218.00	211.90	309.00	214.42	214.42	218.00	367.04	12.65	24.44	14.11	
450.700	52.50	220.00	218.00	211.90	435.00	214.42	214.42	220.00	394.21	14.21	30.60	22.02	
451.200	42.00	0.00	0.00	214.00	158.00	215.97	0.00	215.97	21.58	3.04	94.93	34.10	
451.200	42.00	0.00	0.00	214.00	258.00	215.97	0.00	217.50	3.07	1.71	253.21	147.23	
451.200	42.00	0.00	0.00	214.00	309.00	215.97	0.00	218.36	1.65	1.45	352.15	249.32	
451.200	42.00	0.00	0.00	214.00	435.00	215.97	0.00	220.32	0.65	1.17	611.82	539.33	
451.250	5.00	222.20	214.10	214.10	158.00	224.85	0.00	224.87	0.33	1.18	208.53	276.88	
451.250	5.00	222.20	214.10	214.10	258.00	224.85	0.00	225.39	0.70	1.79	230.88	307.43	
451.250	5.00	222.20	214.10	214.10	309.00	224.85	0.00	225.62	0.92	2.07	241.56	322.17	
451.250	5.00	222.20	214.10	214.10	435.00	224.85	0.00	226.15	1.48	2.70	266.75	357.36	
352.000	158.00	172.81	0.00	0.36	0.00	69.54	73.40						
352.000	258.00	174.11	1.39	0.62	0.00	56.87	73.40						
352.000	309.00	174.71	0.60	0.77	0.00	60.26	73.40						
352.000	435.00	176.73	2.01	0.01	0.00	58.84	73.40						
357.700	158.00	173.22	0.44	0.41	0.00	50.86	570.00						

357.700	258.00	174.37	1.15	0.24	0.00	73.94	570.00
357.700	309.00	174.93	0.56	0.21	0.00	82.85	570.00
357.700	435.00	176.82	1.90	0.10	0.00	107.42	570.00
362.250	158.00	174.57	0.00	1.35	0.00	12.30	455.00
362.250	258.00	175.48	0.91	1.11	0.00	15.95	455.00
362.250	309.00	175.91	0.43	0.98	0.00	17.63	455.00
362.250	435.00	177.28	1.37	0.46	0.00	25.63	455.00
363.050	158.00	175.19	0.00	0.62	0.00	14.98	80.00
363.050	258.00	176.22	1.03	0.74	0.00	16.60	80.00
363.050	309.00	176.67	0.45	0.76	0.00	17.31	80.00
363.050	435.00	177.79	1.12	0.51	0.00	19.05	80.00
363.450	158.00	186.01	0.00	10.82	0.00	159.15	40.00
363.450	258.00	186.91	0.91	10.69	0.00	186.60	40.00
363.450	309.00	187.32	0.41	10.65	0.00	198.98	40.00
363.450	435.00	188.04	0.72	10.25	0.00	491.94	40.00
366.000	158.00	186.01	0.00	0.00	0.00	1010.40	255.00
366.000	258.00	186.92	0.91	0.01	0.00	1051.21	255.00
366.000	309.00	187.32	0.41	0.01	0.00	1069.62	255.00
366.000	435.00	188.05	0.72	0.01	0.00	1103.67	255.00

SFCNO	0	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOFWID	XLEN
373.300	158.00	186.01	0.00	0.00	0.00	980.81	730.00
373.300	258.00	186.92	0.91	0.00	0.00	1021.46	730.00
373.300	309.00	187.32	0.41	0.00	0.00	1039.87	730.00
373.300	435.00	188.05	0.72	0.00	0.00	1200.26	730.00
378.000	158.00	186.01	0.00	0.00	0.00	410.31	470.00
378.000	258.00	186.92	0.91	0.00	0.00	442.06	470.00
378.000	309.00	187.32	0.41	0.00	0.00	456.37	470.00
378.000	435.00	188.05	0.72	0.00	0.00	481.15	470.00
382.650	158.00	186.01	0.00	0.00	0.00	400.57	465.00
382.650	258.00	186.92	0.91	0.00	0.00	459.53	465.00
382.650	309.00	187.32	0.41	0.00	0.00	486.11	465.00
382.650	435.00	188.05	0.72	0.00	0.00	530.00	465.00
387.000	158.00	186.01	0.00	0.00	0.00	292.19	435.00
387.000	258.00	186.92	0.91	0.00	0.00	311.54	435.00
387.000	309.00	187.32	0.41	0.00	0.00	320.27	435.00
387.000	435.00	188.05	0.72	0.00	0.00	335.42	435.00
390.400	158.00	186.01	0.00	0.00	0.00	260.22	340.00
390.400	258.00	186.92	0.91	0.00	0.00	279.28	340.00
390.400	309.00	187.32	0.41	0.00	0.00	287.87	340.00
390.400	435.00	188.05	0.72	0.00	0.00	303.53	340.00
392.900	158.00	186.14	0.00	0.12	0.00	74.09	250.00
392.900	258.00	186.99	0.85	0.06	0.00	195.34	250.00
392.900	309.00	187.38	0.39	0.05	0.00	251.10	250.00
392.900	435.00	188.08	0.71	0.03	0.00	544.91	250.00
395.000	158.00	186.52	0.00	0.38	0.00	55.86	210.00
395.000	258.00	187.21	0.70	0.23	0.00	104.87	210.00
395.000	309.00	187.55	0.33	0.17	0.00	128.21	210.00
395.000	435.00	188.19	0.64	0.11	0.00	168.95	210.00
395.350	158.00	186.73	0.00	0.21	0.00	13.60	35.00
395.350	258.00	187.24	0.51	0.03	0.00	13.60	35.00
395.350	309.00	187.48	0.24	-0.07	0.00	13.60	35.00
395.350	435.00	187.91	0.43	-0.28	0.00	13.60	35.00
395.580	158.00	186.78	0.00	0.05	0.00	13.60	22.70
395.580	258.00	187.39	0.60	0.15	0.00	13.60	22.70
395.580	309.00	187.71	0.33	0.24	0.00	13.60	22.70
395.580	435.00	188.57	0.85	0.66	0.00	13.60	22.70
396.300	158.00	186.81	0.00	0.02	0.00	11.40	72.00
396.300	258.00	187.41	0.60	0.02	0.00	11.40	72.00
396.300	309.00	187.73	0.32	0.01	0.00	11.40	72.00
396.300	435.00	188.55	0.82	-0.02	0.00	11.40	72.00
396.530	158.00	186.86	0.00	0.06	0.00	11.40	23.00
396.530	258.00	187.51	0.64	0.10	0.00	11.40	23.00
396.530	309.00	187.85	0.34	0.12	0.00	11.40	23.00
396.530	435.00	189.32	1.48	0.78	0.00	11.40	23.00

	SECTID	Q	CWSEL	DIFWSP	DIFWS1	DIFWS	TOPWID	XLCH
8	397.500	150.00	187.59	0.00	0.72	0.00	11.47	97.00
8	397.500	250.00	188.37	0.79	0.84	0.00	13.43	97.00
8	397.500	300.00	188.72	0.35	0.88	0.00	14.30	97.00
8	397.500	435.00	189.50	0.79	0.18	0.00	16.25	97.00
	401.550	150.00	190.88	0.00	3.29	0.00	32.03	405.00
	401.550	250.00	191.67	0.78	3.29	0.00	51.65	405.00
	401.550	300.00	192.00	0.33	3.28	0.00	59.85	405.00
	401.550	435.00	192.64	0.44	3.15	0.00	106.16	405.00
	404.500	150.00	191.97	0.00	1.09	0.00	29.38	295.00
	404.500	250.00	192.68	0.71	1.02	0.00	67.52	295.00
	404.500	300.00	192.96	0.27	0.96	0.00	82.15	295.00
	404.500	435.00	193.43	0.48	0.78	0.00	108.75	295.00
	407.300	150.00	192.39	0.00	0.42	0.00	68.32	280.00
	407.300	250.00	193.15	0.76	0.46	0.00	95.54	280.00
	407.300	300.00	193.42	0.28	0.46	0.00	105.44	280.00
	407.300	435.00	193.97	0.49	0.48	0.00	121.47	280.00
	409.300	150.00	192.95	0.00	0.56	0.00	22.26	200.00
	409.300	250.00	193.55	0.60	0.41	0.00	26.65	200.00
	409.300	300.00	193.79	0.24	0.37	0.00	28.40	200.00
8	409.300	435.00	194.34	0.55	0.43	0.00	136.82	200.00
	410.000	100.00	194.39	0.00	1.44	0.00	104.85	70.00
	410.000	200.00	194.68	0.29	1.13	0.00	108.52	70.00
	410.000	250.00	194.86	0.18	1.07	0.00	110.73	70.00
	410.000	385.00	195.20	0.34	0.86	0.00	114.87	70.00
	413.300	100.00	198.04	0.00	3.65	0.00	30.76	330.00
8	413.300	200.00	198.39	0.35	3.71	0.00	36.85	330.00
8	413.300	250.00	198.59	0.20	3.73	0.00	40.37	330.00
8	413.300	385.00	199.01	0.42	3.81	0.00	47.68	330.00
8	413.000	100.00	210.02	0.00	11.98	0.00	62.04	50.00
8	413.000	200.00	210.29	0.26	11.90	0.00	84.43	50.00
8	413.000	250.00	210.41	0.12	11.81	0.00	94.48	50.00
8	413.000	385.00	210.65	0.24	11.61	0.00	115.10	50.00
	413.850	100.00	212.41	0.00	2.39	0.00	333.35	5.00
	413.850	200.00	212.61	0.20	2.33	0.00	335.01	5.00
	413.850	250.00	212.75	0.09	2.29	0.00	335.72	5.00
	413.850	385.00	212.89	0.19	2.24	0.00	337.26	5.00
	414.700	150.00	212.41	0.00	0.00	0.00	404.12	90.00
	414.700	250.00	212.62	0.21	0.00	0.00	406.17	90.00
	414.700	300.00	212.70	0.09	0.00	0.00	407.04	90.00
	414.700	435.00	212.89	0.19	0.01	0.00	408.94	90.00
	423.700	150.00	212.41	0.00	0.00	0.00	317.52	900.00
	423.700	250.00	212.62	0.21	0.00	0.00	318.70	900.00
	423.700	300.00	212.70	0.09	0.00	0.00	319.22	900.00
	423.700	435.00	212.89	0.19	0.00	0.00	320.37	900.00

SECNO	D	CMSEL	PIEMSE	PIEMSD	PIEMSS	TOPWID	PLEN
429.100	158.00	212.41	0.00	0.00	0.00	578.31	540.00
429.100	258.00	212.62	0.21	0.00	0.00	617.28	540.00
429.100	309.00	212.70	0.09	0.00	0.00	633.74	540.00
429.100	435.00	212.89	0.19	0.00	0.00	669.98	540.00
439.000	158.00	212.41	0.00	0.00	0.00	379.68	990.00
439.000	258.00	212.62	0.21	0.00	0.00	399.42	990.00
439.000	309.00	212.70	0.09	0.00	0.00	407.76	990.00
439.000	435.00	212.90	0.19	0.00	0.00	426.13	990.00
447.500	158.00	212.53	0.00	0.12	0.00	53.15	850.00
447.500	258.00	212.83	0.31	0.22	0.00	63.56	850.00
447.500	309.00	212.97	0.14	0.27	0.00	68.18	850.00
447.500	435.00	213.27	0.30	0.38	0.00	78.47	850.00
448.100	158.00	212.34	0.00	-0.18	0.00	10.60	60.00
448.100	258.00	212.83	0.49	0.00	0.00	10.60	60.00
448.100	309.00	213.17	0.34	0.20	0.00	10.60	60.00
448.100	435.00	213.92	0.76	0.65	0.00	10.60	60.00
449.020	158.00	212.35	0.00	0.00	0.00	10.60	92.00
449.020	258.00	212.84	0.49	0.01	0.00	10.60	92.00
449.020	309.00	213.18	0.34	0.01	0.00	10.60	92.00
449.020	435.00	215.81	2.63	1.88	0.00	399.97	92.00
450.000	158.00	213.18	0.00	0.83	0.00	234.50	98.00
450.000	258.00	214.30	1.11	1.46	0.00	238.74	98.00
450.000	309.00	214.82	0.52	1.64	0.00	240.72	98.00
450.000	435.00	215.81	0.99	0.00	0.00	244.49	98.00
450.250	158.00	212.50	0.00	-0.68	0.00	7.00	25.00
450.250	258.00	213.47	0.97	-0.83	0.00	7.00	25.00
450.250	309.00	215.06	1.60	0.25	0.00	132.12	25.00
450.250	435.00	215.80	0.74	-0.01	0.00	148.41	25.00
450.780	158.00	216.85	0.00	1.92	0.00	7.00	52.50
450.780	258.00	217.07	0.64	1.60	0.00	7.00	52.50
450.780	309.00	218.02	0.55	0.55	0.00	7.00	52.50
450.780	435.00	216.85	1.25	1.06	0.00	7.00	52.50
451.200	158.00	215.92	0.00	1.49	0.00	89.54	42.00
451.200	258.00	217.48	1.56	2.42	0.00	110.41	42.00
451.200	309.00	218.35	0.86	2.73	0.00	120.48	42.00
451.200	435.00	220.31	1.96	3.45	0.00	142.00	42.00
451.250	158.00	224.85	0.00	8.93	0.00	44.05	5.00
451.250	258.00	225.35	0.50	7.87	0.00	47.31	5.00
451.250	309.00	225.57	0.22	7.22	0.00	48.80	5.00
451.250	435.00	226.07	0.50	5.76	0.00	52.15	5.00

CAUTION SECNO= 397.500 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 397.500 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 397.500 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 397.500 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 397.500 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 397.500 PROFILE= 3 MINIMUM SPECIFIC ENERGY

 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

HOP BROOK

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
14.770	123.81	121.60	122.48	126.00	470.00	0.00	59.00	0.00	5.64	122.24	3.01	122.38
14.770	124.55	121.60	123.53	126.00	765.00	0.00	10.00	0.00	6.75	123.35	3.41	123.53
14.770	124.87	121.60	124.08	126.00	918.00	0.00	10.00	0.00	7.26	123.86	3.73	124.08
14.770	125.48	121.60	125.44	126.00	1300.00	0.00	10.00	0.00	8.55	125.15	4.32	125.44
28.650	131.16	131.50	0.00	135.40	470.00	0.00	59.00	0.00	3.68	130.78	6.71	131.48
28.650	132.63	131.50	132.72	135.40	765.00	0.00	10.00	0.00	4.25	131.35	9.38	132.72
28.650	133.32	131.50	134.02	135.40	918.00	0.00	10.00	0.00	5.94	133.04	7.96	134.02
28.650	134.90	131.50	137.69	135.40	1130.00	179.94	30.00	0.00	9.08	136.18	4.19	136.36
57.530	136.15	136.10	135.99	137.30	470.00	0.00	59.00	0.00	5.86	135.26	9.85	136.76
57.530	138.76	136.10	141.81	137.30	442.98	323.68	30.00	0.00	8.96	138.36	2.62	138.41
57.530	139.66	136.10	143.96	137.30	473.92	450.76	30.00	0.00	9.10	138.50	2.98	138.55
57.530	142.62	136.10	151.54	137.30	492.33	810.45	30.00	0.00	9.40	138.80	3.73	138.88
75.200	137.44	139.50	0.00	142.00	470.00	0.00	59.00	0.00	6.60	137.10	3.21	137.26
75.200	138.86	139.50	0.00	142.00	765.00	0.00	59.00	0.00	7.89	138.39	4.34	138.69
75.200	139.08	139.50	0.00	142.00	918.00	0.00	59.00	0.00	8.00	138.50	5.14	138.91
75.200	139.62	139.50	139.64	142.00	1300.00	0.00	10.00	0.00	8.40	138.90	6.92	139.64
119.000	139.83	140.80	0.00	140.00	385.00	0.00	59.00	0.00	3.96	138.46	10.46	140.16
119.000	141.74	140.80	142.42	140.00	626.00	0.00	59.00	0.00	7.16	141.66	5.30	141.87
* 119.000	142.68	140.80	144.61	140.00	751.00	0.00	59.00	0.00	6.92	141.42	7.73	141.92
* 119.000	140.75	140.80	0.00	140.00	1050.00	0.00	59.00	0.00	7.24	141.74	8.20	142.22

A

HOP BROOK

SUMMARY PRINTOUT TABLE 105

SECNO	CWSEL	HL	OLOSS	TOPWID	QLOB	QCH	QROB	
13.700	122.01	0.45	0.00	95.06	29.42	412.98	27.60	
13.700	122.62	0.45	0.07	97.30	85.80	601.37	77.83	
13.700	122.88	0.45	0.10	98.28	121.18	687.80	109.02	
13.700	123.30	0.56	0.15	99.89	209.09	904.69	186.22	
14.650	122.25	0.08	0.01	42.50	0.00	470.00	0.00	
14.650	122.93	0.12	0.02	42.50	0.00	765.00	0.00	
14.650	123.21	0.14	0.02	42.50	0.00	918.00	0.00	
14.650	123.69	0.21	0.02	42.50	0.00	1300.00	0.00	
14.770	122.24	0.02	0.01	42.50	0.00	470.00	0.00	
14.770	123.35	0.39	0.00	42.50	0.00	765.00	0.00	
14.770	123.86	0.60	0.00	42.50	0.00	918.00	0.00	
14.770	125.15	1.29	0.00	42.50	0.00	1300.00	0.00	
16.000	122.44	0.10	0.01	198.25	105.47	321.39	43.14	
16.000	123.56	0.06	0.01	206.70	253.10	408.19	103.71	
16.000	124.10	0.05	0.02	211.30	331.38	450.75	135.86	
16.000	125.47	0.04	0.03	228.35	533.98	548.12	217.91	
*	27.400	129.22	3.27	-0.43	47.36	23.46	434.87	11.68
*	27.400	130.15	2.48	-0.32	70.17	96.98	619.61	48.41
*	27.400	130.42	2.52	-0.41	79.86	140.68	705.30	72.01
*	27.400	131.04	2.48	-0.48	101.38	259.06	890.65	150.29
	28.250	129.95	0.92	0.08	20.00	0.00	470.00	0.00
*	28.250	130.83	1.05	0.05	20.00	0.00	765.00	0.00
*	28.250	131.31	1.01	0.12	20.00	0.00	918.00	0.00
	28.250	132.24	0.25	0.09	151.81	195.99	525.85	578.16
	28.650	130.78	0.28	0.05	20.00	0.00	470.00	0.00
	28.650	131.35	0.09	0.00	20.00	0.00	765.00	0.00
	28.650	133.04	0.70	0.00	20.00	0.00	918.00	0.00
	28.650	136.18	3.89	0.00	154.71	255.85	747.45	296.70
	29.400	131.49	0.17	0.05	60.59	39.21	418.62	12.17
	29.400	132.76	0.16	0.11	69.57	111.80	620.13	33.06
	29.400	134.02	0.09	0.08	138.47	177.76	689.59	50.65
	29.400	136.29	0.03	0.01	157.35	305.85	787.28	206.87
	56.500	134.24	0.00	0.00	22.09	0.00	470.00	0.00
	56.500	134.74	0.00	0.00	22.09	0.00	765.00	0.00
	56.500	134.99	0.00	0.00	22.09	0.00	918.00	0.00
	56.500	136.29	0.00	0.00	22.09	0.00	1300.00	0.00
*	57.200	134.06	1.31	-0.06	9.80	0.00	470.00	0.00
*	57.200	136.69	0.09	0.02	111.08	274.63	307.97	182.39
*	57.200	136.58	0.14	0.01	108.74	324.98	377.28	215.74

57.200 136.76 0.18 0.03 112.62 470.83 516.39 312.78

SECNO	CWSEL	HL	OLOSS	TDFWID	QLDB	QCH	QROB
57.530	135.26	0.55	0.06	9.80	0.00	470.00	0.00
57.530	138.36	1.55	0.00	342.95	123.09	216.72	425.18
57.530	138.50	1.70	0.00	346.72	161.90	250.45	505.64
57.530	138.80	1.65	0.00	355.50	276.67	324.61	698.72
60.000	136.97	0.09	0.15	292.82	158.58	228.91	82.52
60.000	138.43	0.04	0.00	403.65	339.18	239.24	186.58
60.000	138.58	0.04	0.00	411.77	412.79	275.33	229.88
60.000	138.92	0.06	0.01	430.65	601.40	356.05	342.55

74.300	137.10	0.10	0.03	197.32	31.18	389.14	49.68
74.300	138.51	0.06	0.01	316.44	197.48	437.67	129.85
74.300	138.68	0.07	0.02	318.55	257.48	499.66	160.85
74.300	139.07	0.10	0.02	323.39	422.60	636.31	241.09
75.100	137.09	0.04	0.02	22.98	0.00	470.00	0.00
75.100	138.38	0.04	0.07	22.98	0.00	765.00	0.00
75.100	138.49	0.06	0.10	22.98	0.00	918.00	0.00
75.100	138.68	0.10	0.21	22.98	0.00	1300.00	0.00
75.200	137.10	0.01	0.00	22.98	0.00	470.00	0.00
75.200	138.39	0.01	0.00	22.98	0.00	765.00	0.00
75.200	138.50	0.01	0.00	22.98	0.00	918.00	0.00
75.200	138.90	0.18	0.00	22.98	0.00	1300.00	0.00
76.000	137.27	0.01	0.01	260.60	116.34	213.85	139.80
76.000	138.71	0.01	0.03	318.87	225.28	265.49	274.23
76.000	138.95	0.01	0.04	336.34	274.15	307.39	336.46
76.000	139.71	0.01	0.07	392.02	399.02	391.65	509.34

116.700	138.21	0.05	0.00	223.16	343.73	35.79	5.47
116.700	139.24	0.03	0.00	238.59	557.89	53.98	14.13
116.700	139.53	0.04	0.00	242.91	668.40	63.70	18.90
116.700	140.29	0.04	0.00	287.16	929.26	85.68	35.06
118.570	138.09	0.81	0.40	10.40	0.00	385.00	0.00
* 118.570	138.91	2.35	-0.44	10.40	0.00	626.00	0.00
118.570	139.56	0.04	0.01	300.33	438.00	137.77	175.22
118.570	140.32	0.04	0.00	343.55	626.22	159.07	264.70
119.000	138.46	0.62	0.11	10.40	0.00	385.00	0.00
119.000	141.66	0.30	0.22	298.02	358.87	253.82	13.31
* 119.000	141.42	0.46	-0.08	275.93	373.53	370.35	7.12
* 119.000	141.74	0.51	-0.12	306.32	630.66	393.15	26.19
120.000	140.33	0.00	0.17	535.47	321.12	27.61	36.27
120.000	141.89	0.00	0.02	608.84	525.70	35.18	65.12
120.000	141.97	0.00	0.05	612.63	630.87	41.80	78.33
120.000	142.27	0.01	0.05	617.22	883.62	56.27	110.11

HOP BROOK

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
*	4.400	0.00	0.00	0.00	116.40	470.00	119.17	119.17	120.09	137.34	7.78	63.56	40.11
*	4.400	0.00	0.00	0.00	116.40	765.00	119.90	119.90	121.10	120.21	8.99	93.02	69.77
*	4.400	0.00	0.00	0.00	116.40	918.00	120.24	120.24	121.56	113.06	9.45	108.08	86.34
*	4.400	0.00	0.00	0.00	116.40	1300.00	121.64	121.64	122.35	44.22	7.60	296.12	195.50
	4.500	10.00	0.00	0.00	116.40	470.00	119.64	0.00	120.21	65.16	6.18	82.01	58.23
	4.500	10.00	0.00	0.00	116.40	765.00	120.44	0.00	121.23	62.71	7.34	117.08	96.60
	4.500	10.00	0.00	0.00	116.40	918.00	120.80	0.00	121.68	61.99	7.82	134.00	116.59
	4.500	10.00	0.00	0.00	116.40	1300.00	122.03	0.00	122.42	24.91	6.03	433.90	260.48
	4.600	10.00	0.00	0.00	116.40	470.00	119.77	0.00	120.28	54.06	5.83	87.50	63.92
	4.600	10.00	0.00	0.00	116.40	765.00	120.58	0.00	121.29	53.90	6.99	123.59	104.20
	4.600	10.00	0.00	0.00	116.40	918.00	120.94	0.00	121.74	53.77	7.48	141.08	125.19
	4.600	10.00	0.00	0.00	116.40	1300.00	122.11	0.00	122.45	21.92	5.72	465.56	277.64
	4.700	10.00	0.00	0.00	116.40	470.00	119.86	0.00	120.33	47.55	5.61	91.50	68.16
	4.700	10.00	0.00	0.00	116.40	765.00	120.69	0.00	121.35	48.19	6.75	128.66	110.20
	4.700	10.00	0.00	0.00	116.40	918.00	121.07	120.23	121.80	47.08	7.16	155.93	133.79
	4.700	10.00	0.00	0.00	116.40	1300.00	122.14	0.00	122.47	20.95	5.61	476.92	284.03
	10.650	595.00	0.00	0.00	116.50	470.00	121.56	0.00	121.82	17.12	4.49	171.89	113.60
	10.650	595.00	0.00	0.00	116.50	765.00	122.32	0.00	122.48	11.86	4.19	427.10	222.10
	10.650	595.00	0.00	0.00	116.50	918.00	122.65	0.00	122.77	9.74	3.96	548.05	294.08
	10.650	595.00	0.00	0.00	116.50	1300.00	123.10	0.00	123.22	9.82	4.20	719.41	414.85
	13.700	305.00	0.00	0.00	116.60	470.00	122.01	0.00	122.26	13.45	4.29	150.15	128.17
	13.700	305.00	0.00	0.00	116.60	765.00	122.62	0.00	123.00	19.32	5.55	207.51	174.03
	13.700	305.00	0.00	0.00	116.60	918.00	122.88	0.00	123.32	21.59	6.06	233.13	197.56
	13.700	305.00	0.00	0.00	116.60	1300.00	123.30	0.00	123.93	29.31	7.41	275.56	240.11
	14.650	95.00	0.00	0.00	116.60	470.00	122.25	0.00	122.36	6.02	2.65	177.46	191.51
	14.650	95.00	0.00	0.00	116.60	765.00	122.93	0.00	123.14	9.69	3.71	206.36	245.74
	14.650	95.00	0.00	0.00	116.60	918.00	123.21	0.00	123.48	11.62	4.21	218.12	269.26
	14.650	95.00	0.00	0.00	116.60	1300.00	123.69	0.00	124.15	17.29	5.44	238.83	312.63
	14.770	12.00	126.00	121.60	116.60	470.00	122.24	0.00	122.38	22.87	3.01	156.00	98.29
	14.770	12.00	126.00	121.60	116.60	765.00	123.35	0.00	123.53	7.35	3.41	224.44	282.24
	14.770	12.00	126.00	121.60	116.60	918.00	123.86	0.00	124.08	7.82	3.73	246.00	328.23
	14.770	12.00	126.00	121.60	116.60	1300.00	125.15	0.00	125.44	8.11	4.32	300.85	456.42
	16.000	123.00	0.00	0.00	117.30	470.00	122.44	0.00	122.50	5.17	2.24	335.10	206.71
	16.000	123.00	0.00	0.00	117.30	765.00	123.56	0.00	123.61	3.35	2.17	563.35	417.95
	16.000	123.00	0.00	0.00	117.30	918.00	124.10	0.00	124.15	2.84	2.14	676.93	544.91
	16.000	123.00	0.00	0.00	117.30	1300.00	125.47	0.00	125.51	1.94	2.07	976.75	932.29
	19.100	310.00	0.00	0.00	118.80	470.00	122.83	0.00	123.24	35.99	5.17	93.06	78.34
	19.100	310.00	0.00	0.00	118.80	765.00	123.79	0.00	124.38	36.36	6.25	131.39	126.87
	19.100	310.00	0.00	0.00	118.80	918.00	124.26	0.00	124.91	34.81	6.59	152.85	155.59
	19.100	310.00	0.00	0.00	118.80	1300.00	125.47	0.00	126.18	28.71	7.02	213.11	242.61
	21.700	260.00	0.00	0.00	120.00	470.00	123.82	0.00	124.61	60.25	7.60	75.36	60.55

21.700	260.00	0.00	0.00	120.00	765.00	124.74	0.00	125.88	66.27	9.31	105.13	93.98
21.700	260.00	0.00	0.00	120.00	918.00	125.15	0.00	126.44	68.26	10.01	119.54	111.11
21.700	260.00	0.00	0.00	120.00	1300.00	126.12	0.00	127.69	67.45	11.23	157.20	158.28

SECNO	XLCH	ELTRD	ELLC	ELMIN	R	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K	
24.080	238.00	0.00	0.00	122.40	470.00	125.54	0.00	126.14	66.85	6.78	84.05	57.48	
24.080	238.00	0.00	0.00	122.40	765.00	126.62	0.00	127.30	50.96	7.39	130.00	107.17	
24.080	238.00	0.00	0.00	122.40	918.00	127.10	0.00	127.82	46.54	7.65	152.85	134.57	
24.080	238.00	0.00	0.00	122.40	1300.00	128.16	0.00	128.97	40.72	8.28	205.79	203.73	
*	27.400	332.00	0.00	0.00	126.00	470.00	129.22	129.22	130.14	98.68	8.01	70.95	47.31
*	27.400	332.00	0.00	0.00	126.00	765.00	130.15	130.15	131.08	74.94	8.49	124.99	88.37
*	27.400	332.00	0.00	0.00	126.00	918.00	130.42	130.42	131.42	76.09	8.99	145.75	105.24
*	27.400	332.00	0.00	0.00	126.00	1300.00	131.04	131.04	132.13	74.69	9.81	201.47	150.42
	28.250	85.00	0.00	0.00	127.10	470.00	129.95	0.00	131.15	118.81	8.80	53.44	43.12
*	28.250	85.00	0.00	0.00	127.10	765.00	130.83	130.83	132.63	123.81	10.76	71.08	68.75
*	28.250	85.00	0.00	0.00	127.10	918.00	131.31	131.31	133.32	118.55	11.39	80.61	84.31
	28.250	85.00	0.00	0.00	127.10	1300.00	132.24	132.07	132.47	18.37	5.29	426.77	303.29
	28.650	40.00	135.40	131.50	127.10	470.00	130.78	0.00	131.48	49.03	6.71	70.04	67.12
	28.650	40.00	135.40	131.50	127.10	765.00	131.35	0.00	132.72	79.22	9.38	81.57	85.95
	28.650	40.00	135.40	131.50	127.10	918.00	133.04	0.00	134.02	37.76	7.96	115.31	149.39
	28.650	40.00	135.40	131.50	127.10	1300.00	136.18	0.00	136.36	5.29	4.19	552.21	565.23
	29.400	75.00	0.00	0.00	127.00	470.00	131.49	0.00	131.69	14.53	3.78	148.63	123.30
	29.400	75.00	0.00	0.00	127.00	765.00	132.76	0.00	132.98	11.92	4.17	231.18	221.58
	29.400	75.00	0.00	0.00	127.00	918.00	134.02	0.00	134.19	6.93	3.69	325.87	348.64
	29.400	75.00	0.00	0.00	127.00	1300.00	136.29	0.00	136.39	3.20	3.09	656.19	726.32
	33.550	415.00	0.00	0.00	127.00	470.00	131.93	0.00	131.97	4.01	2.30	381.10	234.85
	33.550	415.00	0.00	0.00	127.00	765.00	133.15	0.00	133.19	2.79	2.26	616.07	458.14
	33.550	415.00	0.00	0.00	127.00	918.00	134.28	0.00	134.31	1.53	1.88	885.36	742.77
	33.550	415.00	0.00	0.00	127.00	1300.00	136.44	0.00	136.45	0.71	1.55	1526.34	1538.29
	45.600	1205.00	0.00	0.00	126.70	470.00	132.43	0.00	132.49	6.21	2.71	349.80	188.62
	45.600	1205.00	0.00	0.00	126.70	765.00	133.47	0.00	133.51	3.82	2.43	644.72	391.53
B	45.600	1205.00	0.00	0.00	126.70	918.00	134.44	0.00	134.46	1.79	1.85	999.53	686.23
	45.600	1205.00	0.00	0.00	126.70	1300.00	136.50	0.00	136.51	0.64	1.33	1814.60	1619.03
	51.200	560.00	0.00	0.00	126.90	470.00	132.69	0.00	132.74	4.20	2.42	358.88	229.45
	51.200	560.00	0.00	0.00	126.90	765.00	133.65	0.00	133.71	4.22	2.75	535.89	372.18
	51.200	560.00	0.00	0.00	126.90	918.00	134.54	0.00	134.58	2.67	2.40	730.87	561.79
	51.200	560.00	0.00	0.00	126.90	1300.00	136.54	0.00	136.56	1.11	1.85	1342.98	1231.22
*	55.000	380.00	0.00	0.00	129.30	470.00	133.46	132.75	134.21	67.23	7.05	80.35	57.32
	55.000	380.00	0.00	0.00	129.30	765.00	134.29	134.29	134.84	47.31	6.89	199.62	111.22
	55.000	380.00	0.00	0.00	129.30	918.00	134.84	0.00	135.17	27.95	5.76	296.61	173.63
	55.000	380.00	0.00	0.00	129.30	1300.00	136.61	0.00	136.71	7.25	3.65	636.26	482.65
	56.200	120.00	0.00	0.00	127.00	470.00	134.23	0.00	134.38	4.89	3.06	153.53	212.49
	56.200	120.00	0.00	0.00	127.00	765.00	134.73	0.00	135.06	10.34	4.63	165.17	237.93
	56.200	120.00	0.00	0.00	127.00	918.00	134.97	0.00	135.42	13.41	5.37	170.89	250.70
	56.200	120.00	0.00	0.00	127.00	1300.00	136.72	0.00	136.73	0.53	1.33	1721.12	1784.50
	56.210	1.00	138.00	140.00	127.00	470.00	134.22	0.00	134.39	5.82	3.31	146.53	194.78
	56.210	1.00	138.00	140.00	127.00	765.00	134.69	0.00	135.08	12.38	5.04	156.51	217.41
	56.210	1.00	138.00	140.00	127.00	918.00	134.92	131.28	135.44	16.08	5.86	161.42	228.90
	56.210	1.00	138.00	140.00	127.00	1300.00	136.20	132.29	136.96	19.15	7.10	188.75	297.07

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
56.490	28.00	138.00	140.00	127.00	470.00	134.24	0.00	134.40	5.80	3.30	146.66	195.08
56.490	28.00	138.00	140.00	127.00	765.00	134.73	0.00	135.11	12.20	5.02	157.19	218.99
56.490	28.00	138.00	140.00	127.00	918.00	134.97	131.28	135.49	15.79	5.83	162.31	231.00
56.490	28.00	138.00	140.00	127.00	1300.00	136.26	132.29	137.01	18.67	7.05	190.18	300.84
56.500	1.00	0.00	0.00	127.00	470.00	134.24	0.00	134.40	5.61	3.25	144.40	198.44
56.500	1.00	0.00	0.00	127.00	765.00	134.74	0.00	135.12	11.87	4.92	155.35	222.02
56.500	1.00	0.00	0.00	127.00	918.00	134.99	0.00	135.49	15.39	5.71	160.80	234.03
56.500	1.00	0.00	0.00	127.00	1300.00	136.29	0.00	137.02	18.73	6.85	189.76	300.41
* 57.200	70.00	0.00	0.00	129.40	470.00	134.06	134.06	136.15	186.90	11.61	40.49	34.38
* 57.200	70.00	0.00	0.00	129.40	765.00	136.69	136.69	136.86	12.79	4.65	300.71	213.95
* 57.200	70.00	0.00	0.00	129.40	918.00	136.58	136.58	136.85	20.22	5.78	289.05	204.13
57.200	70.00	0.00	0.00	129.40	1300.00	136.76	0.00	137.23	34.74	7.71	308.49	220.56
57.530	33.00	137.30	136.10	129.40	470.00	135.26	0.00	136.76	151.89	9.85	47.73	38.14
57.530	33.00	137.30	136.10	129.40	765.00	138.36	0.00	138.41	3.03	2.62	640.29	439.60
57.530	33.00	137.30	136.10	129.40	918.00	138.50	0.00	138.55	3.84	2.98	685.49	468.36
57.530	33.00	137.30	136.10	129.40	1300.00	138.80	0.00	138.88	5.74	3.73	792.63	542.48
60.000	247.00	0.00	0.00	129.50	470.00	136.97	0.00	137.00	1.90	1.80	542.45	341.35
60.000	247.00	0.00	0.00	129.50	765.00	138.43	0.00	138.45	1.04	1.53	1055.96	749.89
60.000	247.00	0.00	0.00	129.50	918.00	138.58	0.00	138.60	1.29	1.73	1116.20	806.73
60.000	247.00	0.00	0.00	129.50	1300.00	138.92	0.00	138.95	1.88	2.15	1260.73	947.88
69.600	960.00	0.00	0.00	130.20	470.00	137.07	0.00	137.07	0.65	1.06	919.15	583.62
69.600	960.00	0.00	0.00	130.20	765.00	138.48	0.00	138.49	0.46	1.03	1451.49	1123.05
69.600	960.00	0.00	0.00	130.20	918.00	138.65	0.00	138.65	0.58	1.18	1523.93	1200.83
69.600	960.00	0.00	0.00	130.20	1300.00	139.02	0.00	139.03	0.87	1.49	1694.97	1392.74
74.300	470.00	0.00	0.00	130.40	470.00	137.10	0.00	137.19	3.83	2.65	286.35	240.31
74.300	470.00	0.00	0.00	130.40	765.00	138.51	0.00	138.56	2.37	2.40	673.15	496.91
74.300	470.00	0.00	0.00	130.40	918.00	138.68	0.00	138.74	2.86	2.68	726.75	542.64
74.300	470.00	0.00	0.00	130.40	1300.00	139.07	0.00	139.15	3.92	3.25	850.82	656.48
75.100	80.00	0.00	0.00	130.50	470.00	137.09	0.00	137.25	5.35	3.21	146.29	203.15
75.100	80.00	0.00	0.00	130.50	765.00	138.38	0.00	138.68	7.94	4.35	175.98	271.43
75.100	80.00	0.00	0.00	130.50	918.00	138.49	0.00	138.90	10.96	5.14	178.44	277.34
75.100	80.00	0.00	0.00	130.50	1300.00	138.68	0.00	139.46	20.42	7.11	182.72	287.72
75.200	10.00	142.00	139.50	130.50	470.00	137.10	0.00	137.26	5.34	3.21	146.42	203.45
75.200	10.00	142.00	139.50	130.50	765.00	138.39	0.00	138.69	7.91	4.34	176.18	271.92
75.200	10.00	142.00	139.50	130.50	918.00	138.50	0.00	138.91	10.90	5.14	178.73	278.04
75.200	10.00	142.00	139.50	130.50	1300.00	138.90	0.00	139.64	18.70	6.92	187.99	300.63
76.000	80.00	0.00	0.00	130.60	470.00	137.27	0.00	137.29	0.98	1.29	672.65	473.58
76.000	80.00	0.00	0.00	130.60	765.00	138.71	0.00	138.72	0.70	1.27	1073.06	912.69
76.000	80.00	0.00	0.00	130.60	918.00	138.95	0.00	138.96	0.84	1.42	1151.14	1000.41
76.000	80.00	0.00	0.00	130.60	1300.00	139.71	0.00	139.73	0.98	1.64	1427.63	1313.63
85.000	900.00	0.00	0.00	131.70	470.00	137.36	0.00	137.37	1.17	1.41	587.62	435.42
85.000	900.00	0.00	0.00	131.70	765.00	138.78	0.00	138.79	0.95	1.48	905.25	786.83
85.000	900.00	0.00	0.00	131.70	918.00	139.03	0.00	139.04	1.13	1.66	969.30	861.93
85.000	900.00	0.00	0.00	131.70	1300.00	139.80	0.00	139.82	1.35	1.95	1182.05	1118.71

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
91.500	650.00	0.00	0.00	132.40	385.00	137.43	0.00	137.44	0.90	1.04	734.54	406.70
91.500	650.00	0.00	0.00	132.40	626.00	138.83	0.00	138.83	0.47	0.90	1306.97	917.48
91.500	650.00	0.00	0.00	132.40	751.00	139.09	0.00	139.09	0.52	0.99	1421.56	1037.76
91.500	650.00	0.00	0.00	132.40	1050.00	139.87	0.00	139.87	0.53	1.08	1777.20	1441.51
98.300	680.00	0.00	0.00	133.20	385.00	137.81	0.00	137.91	13.98	3.37	213.51	102.98
98.300	680.00	0.00	0.00	133.20	626.00	138.98	0.00	139.03	5.89	2.67	424.95	258.04
98.300	680.00	0.00	0.00	133.20	751.00	139.24	0.00	139.30	6.12	2.83	476.39	303.55
98.300	680.00	0.00	0.00	133.20	1050.00	140.00	0.00	140.06	5.36	2.91	630.20	453.68
100.800	250.00	0.00	0.00	133.40	385.00	137.95	0.00	137.95	0.79	0.98	741.59	433.70
100.800	250.00	0.00	0.00	133.40	626.00	139.05	0.00	139.06	0.62	1.01	1124.05	797.09
100.800	250.00	0.00	0.00	133.40	751.00	139.33	0.00	139.33	0.69	1.11	1220.97	901.46
100.800	250.00	0.00	0.00	133.40	1050.00	140.08	0.00	140.09	0.73	1.23	1502.68	1228.88
106.900	610.00	0.00	0.00	133.90	385.00	138.02	0.00	138.03	1.71	1.36	468.99	294.35
106.900	610.00	0.00	0.00	133.90	626.00	139.11	0.00	139.13	1.53	1.52	659.67	506.78
106.900	610.00	0.00	0.00	133.90	751.00	139.39	0.00	139.41	1.74	1.68	709.32	568.61
106.900	610.00	0.00	0.00	133.90	1050.00	140.15	0.00	140.18	1.95	1.95	846.78	752.57
107.950	105.00	0.00	0.00	134.00	385.00	138.04	0.00	138.07	4.13	1.83	349.77	189.43
107.950	105.00	0.00	0.00	134.00	626.00	139.13	0.00	139.15	2.69	1.80	559.60	381.75
107.950	105.00	0.00	0.00	134.00	751.00	139.41	0.00	139.44	2.90	1.96	615.97	441.06
107.950	105.00	0.00	0.00	134.00	1050.00	140.17	0.00	140.21	2.85	2.15	773.90	622.10
112.200	425.00	0.00	0.00	134.20	385.00	138.16	0.00	138.17	1.67	1.27	656.55	297.66
112.200	425.00	0.00	0.00	134.20	626.00	139.21	0.00	139.21	0.90	1.11	1131.49	658.15
112.200	425.00	0.00	0.00	134.20	751.00	139.49	0.00	139.50	0.92	1.17	1282.60	783.58
112.200	425.00	0.00	0.00	134.20	1050.00	140.26	0.00	140.26	0.79	1.19	1721.54	1180.22
116.700	450.00	0.00	0.00	134.40	385.00	138.21	0.00	138.22	1.11	0.98	603.03	365.45
116.700	450.00	0.00	0.00	134.40	626.00	139.24	0.00	139.25	1.02	1.13	840.43	618.49
116.700	450.00	0.00	0.00	134.40	751.00	139.53	0.00	139.54	1.15	1.25	909.83	699.87
116.700	450.00	0.00	0.00	134.40	1050.00	140.29	0.00	140.30	1.26	1.45	1103.07	936.92
118.570	187.00	0.00	0.00	134.10	385.00	138.09	0.00	139.43	82.90	9.29	41.46	42.28
118.570	187.00	0.00	0.00	134.10	626.00	138.91	138.91	141.34	121.83	12.52	50.01	56.71
118.570	187.00	0.00	0.00	134.10	751.00	139.56	0.00	139.59	3.41	2.43	636.92	406.59
118.570	187.00	0.00	0.00	134.10	1050.00	140.32	0.00	140.35	2.95	2.46	884.53	611.69
119.000	43.00	140.00	140.80	134.50	385.00	138.46	137.95	140.16	206.38	10.46	36.81	26.80
119.000	43.00	140.00	140.80	134.50	626.00	141.66	141.11	141.87	49.82	5.30	249.59	88.69
119.000	43.00	140.00	140.80	134.50	751.00	141.42	141.42	141.92	106.07	7.73	208.13	72.92
119.000	43.00	140.00	140.80	134.50	1050.00	141.74	141.74	142.22	119.53	8.20	266.62	96.04
120.000	100.00	0.00	0.00	134.80	385.00	140.33	0.00	140.33	0.17	0.50	1453.00	933.13
120.000	100.00	0.00	0.00	134.80	626.00	141.89	0.00	141.89	0.11	0.49	2346.24	1875.90
120.000	100.00	0.00	0.00	134.80	751.00	141.97	0.00	141.97	0.15	0.57	2395.50	1933.44
120.000	100.00	0.00	0.00	134.80	1050.00	142.27	0.00	142.27	0.24	0.74	2578.40	2160.56
125.000	500.00	0.00	0.00	135.90	385.00	140.38	0.00	140.39	2.09	1.42	499.24	266.20
125.000	500.00	0.00	0.00	135.90	626.00	141.91	0.00	141.92	0.88	1.17	947.46	668.61
125.000	500.00	0.00	0.00	135.90	751.00	142.00	0.00	142.01	1.16	1.35	976.31	698.02
125.000	500.00	0.00	0.00	135.90	1050.00	142.30	0.00	142.32	1.70	1.70	1078.62	805.84

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
	127.000	200.00	0.00	0.00	136.50	385.00	140.43	0.00	140.45	3.76	1.77	439.25	198.45
	127.000	200.00	0.00	0.00	136.50	626.00	141.93	0.00	141.94	1.11	1.24	935.05	594.44
G	127.000	200.00	0.00	0.00	136.50	751.00	142.02	0.00	142.03	1.43	1.43	970.42	627.21
	127.000	200.00	0.00	0.00	136.50	1050.00	142.34	0.00	142.36	1.99	1.76	1088.24	744.03
	130.650	365.00	0.00	0.00	137.30	385.00	140.73	0.00	140.83	16.35	3.67	203.45	95.22
	130.650	365.00	0.00	0.00	137.30	626.00	142.03	0.00	142.08	6.39	2.89	394.28	247.62
	130.650	365.00	0.00	0.00	137.30	751.00	142.15	0.00	142.22	8.03	3.29	412.88	265.04
	130.650	365.00	0.00	0.00	137.30	1050.00	142.51	0.00	142.61	10.68	4.00	470.66	321.27
	137.700	705.00	0.00	0.00	138.80	385.00	141.67	0.00	141.73	15.98	3.04	275.46	96.30
	137.700	705.00	0.00	0.00	138.80	626.00	142.42	0.00	142.45	7.62	2.52	517.24	226.72
	137.700	705.00	0.00	0.00	138.80	751.00	142.59	0.00	142.63	7.81	2.64	577.68	268.65
	137.700	705.00	0.00	0.00	138.80	1050.00	143.02	0.00	143.07	7.51	2.81	726.06	383.17
	143.400	570.00	0.00	0.00	141.10	385.00	144.08	0.00	144.84	87.99	7.25	59.62	41.04
	143.400	570.00	0.00	0.00	141.10	626.00	144.70	144.62	145.89	103.22	9.13	79.66	61.62
*	143.400	570.00	0.00	0.00	141.10	751.00	144.98	144.98	146.36	107.83	9.89	89.46	72.32
*	143.400	570.00	0.00	0.00	141.10	1050.00	145.72	145.72	147.37	101.70	10.96	116.91	104.12
	144.900	150.00	0.00	0.00	140.30	385.00	144.92	0.00	144.92	0.09	0.31	1356.42	1277.60
	144.900	150.00	0.00	0.00	140.30	626.00	146.01	0.00	146.01	0.09	0.38	1896.58	2034.76
	144.900	150.00	0.00	0.00	140.30	751.00	146.50	0.00	146.50	0.09	0.40	2152.30	2439.45
	144.900	150.00	0.00	0.00	140.30	1050.00	147.53	0.00	147.54	0.10	0.45	2689.61	3389.67
	148.000	310.00	0.00	0.00	140.50	385.00	144.92	0.00	144.93	0.36	0.62	1020.75	643.02
	148.000	310.00	0.00	0.00	140.50	626.00	146.01	0.00	146.01	0.24	0.61	1736.80	1265.48
H	148.000	310.00	0.00	0.00	140.50	751.00	146.51	0.00	146.51	0.21	0.60	2076.84	1626.26
	148.000	310.00	0.00	0.00	140.50	1050.00	147.54	0.00	147.54	0.17	0.61	2789.88	2511.26
	157.200	920.00	0.00	0.00	140.70	385.00	145.06	0.00	145.08	3.24	1.96	401.75	213.92
	157.200	920.00	0.00	0.00	140.70	626.00	146.09	0.00	146.11	2.15	1.85	684.98	427.27
	157.200	920.00	0.00	0.00	140.70	751.00	146.57	0.00	146.59	1.80	1.80	829.48	560.34
	157.200	920.00	0.00	0.00	140.70	1050.00	147.59	0.00	147.61	1.37	1.75	1136.61	896.41
	161.550	435.00	0.00	0.00	140.80	385.00	145.39	0.00	145.57	17.22	3.98	154.12	92.77
	161.550	435.00	0.00	0.00	140.80	626.00	146.32	0.00	146.47	12.55	3.98	276.66	176.70
I	161.550	435.00	0.00	0.00	140.80	751.00	146.76	0.00	146.89	10.44	3.87	344.70	232.48
	161.550	435.00	0.00	0.00	140.80	1050.00	147.72	0.00	147.82	7.42	3.68	511.33	385.50

HOP BROOK

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4.400	470.00	119.17	0.00	0.00	0.00	37.78	0.00
*	4.400	765.00	119.90	0.73	0.00	0.00	42.66	0.00
*	4.400	918.00	120.24	0.34	0.00	0.00	44.96	0.00
*	4.400	1300.00	121.64	1.40	0.00	0.00	313.55	0.00
	4.500	470.00	119.64	0.00	0.47	0.00	40.91	10.00
	4.500	765.00	120.44	0.80	0.54	0.00	46.27	10.00
	4.500	918.00	120.80	0.36	0.55	0.00	48.65	10.00
	4.500	1300.00	122.03	1.23	0.38	0.00	399.14	10.00
	4.600	470.00	119.77	0.00	0.13	0.00	41.79	10.00
	4.600	765.00	120.58	0.81	0.14	0.00	47.20	10.00
	4.600	918.00	120.94	0.36	0.15	0.00	49.61	10.00
	4.600	1300.00	122.11	1.16	0.08	0.00	399.41	10.00
	4.700	470.00	119.86	0.00	0.10	0.00	42.43	10.00
	4.700	765.00	120.69	0.82	0.11	0.00	47.91	10.00
	4.700	918.00	121.07	0.39	0.13	0.00	176.09	10.00
	4.700	1300.00	122.14	1.07	0.04	0.00	399.50	10.00
	10.650	470.00	121.56	0.00	1.70	0.00	222.95	595.00
	10.650	765.00	122.32	0.76	1.64	0.00	374.63	595.00
	10.650	918.00	122.65	0.33	1.58	0.00	379.12	595.00
	10.650	1300.00	123.10	0.45	0.96	0.00	385.40	595.00
	13.700	470.00	122.01	0.00	0.45	0.00	95.06	305.00
	13.700	765.00	122.62	0.61	0.29	0.00	97.30	305.00
	13.700	918.00	122.88	0.26	0.23	0.00	98.28	305.00
	13.700	1300.00	123.30	0.43	0.20	0.00	99.89	305.00
	14.650	470.00	122.25	0.00	0.24	0.00	42.50	95.00
D/S	14.650	765.00	122.93	0.68	0.31	0.00	42.50	95.00
	14.650	918.00	123.21	0.28	0.33	0.00	42.50	95.00
	14.650	1300.00	123.69	0.49	0.39	0.00	42.50	95.00
	14.770	470.00	122.24	0.00	-0.01	0.00	42.50	12.00
O/S	14.770	765.00	123.35	1.11	0.43	0.00	42.50	12.00
	14.770	918.00	123.86	0.51	0.66	0.00	42.50	12.00
	14.770	1300.00	125.15	1.29	1.46	0.00	42.50	12.00
	16.000	470.00	122.44	0.00	0.20	0.00	198.25	123.00
	16.000	765.00	123.56	1.12	0.21	0.00	206.70	123.00
	16.000	918.00	124.10	0.54	0.24	0.00	211.30	123.00
	16.000	1300.00	125.47	1.36	0.32	0.00	228.35	123.00
	19.100	470.00	122.83	0.00	0.39	0.00	36.22	310.00
A	19.100	765.00	123.79	0.96	0.23	0.00	43.44	310.00
	19.100	918.00	124.26	0.47	0.16	0.00	46.56	310.00
	19.100	1300.00	125.47	1.21	0.00	0.00	53.58	310.00
	21.700	470.00	123.82	0.00	0.99	0.00	29.78	260.00

21.700	765.00	124.74	0.93	0.95	0.00	34.37	260.00
21.700	918.00	125.15	0.41	0.89	0.00	36.38	260.00
21.700	1300.00	126.12	0.97	0.65	0.00	41.18	260.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
24.080	470.00	125.54 ✓	0.00	1.72	0.00	39.82	238.00
24.080	765.00	126.62	1.08	1.87	0.00	45.31	238.00
24.080	918.00	127.10	0.48	1.95	0.00	47.80	238.00
24.080	1300.00	128.16	1.06	2.04	0.00	52.54	238.00
* 27.400	470.00	129.22	0.00	3.68	0.00	47.36	332.00
* 27.400	765.00	130.15 ✓	0.93	3.53	0.00	70.17	332.00
* 27.400	918.00	130.42 ✓	0.28	3.32	0.00	79.86	332.00
* 27.400	1300.00	131.04 ✓	0.61	2.88	0.00	101.38	332.00
28.250	470.00	129.95 ✓	0.00	0.73	0.00	20.00	85.00
* 28.250	765.00	130.83 ✓	0.88	0.68	0.00	20.00	85.00
* 28.250	918.00	131.31 ✓	0.48	0.88	0.00	20.00	85.00
* 28.250	1300.00	132.24 ✓	0.94	1.20	0.00	151.81	85.00
28.650	470.00	130.78 ✓	0.00	0.83	0.00	20.00	40.00
28.650	765.00	131.35 ✓	0.57	0.52	0.00	20.00	40.00
28.650	918.00	133.04 ✓	1.69	1.73	0.00	20.00	40.00
28.650	1300.00	136.18 ✓	3.15	3.94	0.00	154.71	40.00
29.400	470.00	131.49 ✓	0.00	0.72	0.00	60.59	75.00
29.400	765.00	132.76 ✓	1.26	1.41	0.00	69.57	75.00
29.400	918.00	134.02 ✓	1.26	0.98	0.00	138.47	75.00
29.400	1300.00	136.29 ✓	2.27	0.11	0.00	157.35	75.00
33.550	470.00	131.93 ✓	0.00	0.43	0.00	167.27	415.00
33.550	765.00	133.15 ✓	1.23	0.39	0.00	216.11	415.00
33.550	918.00	134.28 ✓	1.13	0.26	0.00	260.14	415.00
33.550	1300.00	136.44 ✓	2.15	0.14	0.00	324.83	415.00
45.600	470.00	132.43 ✓	0.00	0.50	0.00	240.77	1205.00
45.600	765.00	133.47 ✓	1.04	0.31	0.00	327.74	1205.00
45.600	918.00	134.44 ✓	0.98	0.16	0.00	378.05	1205.00
45.600	1300.00	136.50 ✓	2.06	0.07	0.00	432.65	1205.00
51.200	470.00	132.69 ✓	0.00	0.26	0.00	163.57	560.00
51.200	765.00	133.65 ✓	0.96	0.18	0.00	201.40	560.00
51.200	918.00	134.54 ✓	0.89	0.09	0.00	246.80	560.00
51.200	1300.00	136.54 ✓	2.00	0.03	0.00	354.53	560.00
55.000	470.00	133.46 ✓	0.00	0.77	0.00	88.63	380.00
* 55.000	765.00	134.29 ✓	0.83	0.64	0.00	172.87	380.00
55.000	918.00	134.84 ✓	0.56	0.31	0.00	178.39	380.00
55.000	1300.00	136.61 ✓	1.77	0.08	0.00	220.63	380.00
56.200	470.00	134.23 ✓	0.00	0.77	0.00	23.50	120.00
56.200	765.00	134.73 ✓	0.50	0.44	0.00	23.50	120.00
56.200	918.00	134.97 ✓	0.24	0.13	0.00	23.50	120.00
56.200	1300.00	136.72 ✓	1.75	0.11	0.00	358.86	120.00
56.210	470.00	134.22 ✓	0.00	-0.01	0.00	154.70	1.00
56.210	765.00	134.69 ✓	0.47	-0.04	0.00	157.99	1.00
56.210	918.00	134.92 ✓	0.23	-0.05	0.00	159.61	1.00
56.210	1300.00	136.20 ✓	1.27	-0.53	0.00	168.63	1.00

SECNO	R	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
56.490	470.00	134.24	0.00	0.02	0.00	154.74	28.00
56.490	765.00	134.73	0.50	0.04	0.00	158.22	28.00
56.490	918.00	134.97	0.24	0.05	0.00	159.90	28.00
56.490	1300.00	136.26	1.29	0.07	0.00	169.10	28.00
56.500	470.00	134.24	0.00	0.00	0.00	22.09	1.00
56.500	765.00	134.74	0.50	0.01	0.00	22.09	1.00
56.500	918.00	134.99	0.25	0.01	0.00	22.09	1.00
56.500	1300.00	136.29	1.30	0.03	0.00	22.09	1.00
57.200	470.00	134.06	0.00	-0.18	0.00	9.80	70.00
57.200	765.00	136.69	2.63	1.95	0.00	111.08	70.00
57.200	918.00	136.58	-0.11	1.60	0.00	108.74	70.00
57.200	1300.00	136.76	0.18	0.47	0.00	112.62	70.00
57.530	470.00	135.26	0.00	1.20	0.00	9.80	33.00
57.530	765.00	138.36	3.11	1.67	0.00	342.95	33.00
57.530	918.00	138.50	0.13	1.91	0.00	346.72	33.00
57.530	1300.00	138.80	0.31	2.04	0.00	355.50	33.00
60.000	470.00	136.97	0.00	1.71	0.00	292.82	247.00
60.000	765.00	138.43	1.46	0.07	0.00	403.65	247.00
60.000	918.00	138.58	0.15	0.08	0.00	411.77	247.00
60.000	1300.00	138.92	0.34	0.12	0.00	430.65	247.00
69.600	470.00	137.07	0.00	0.09	0.00	330.63	960.00
69.600	765.00	138.48	1.42	0.05	0.00	447.56	960.00
69.600	918.00	138.65	0.16	0.07	0.00	452.07	960.00
69.600	1300.00	139.02	0.37	0.10	0.00	462.54	960.00
74.300	470.00	137.10	0.00	0.04	0.00	197.32	470.00
74.300	765.00	138.51	1.41	0.03	0.00	316.44	470.00
74.300	918.00	138.68	0.17	0.03	0.00	318.55	470.00
74.300	1300.00	139.07	0.39	0.05	0.00	323.39	470.00
75.100	470.00	137.09	0.00	-0.01	0.00	22.98	80.00
75.100	765.00	138.38	1.29	-0.13	0.00	22.98	80.00
75.100	918.00	138.49	0.11	-0.19	0.00	22.98	80.00
75.100	1300.00	138.68	0.19	-0.39	0.00	22.98	80.00
75.200	470.00	137.10	0.00	0.01	0.00	22.98	10.00
75.200	765.00	138.39	1.30	0.01	0.00	22.98	10.00
75.200	918.00	138.50	0.11	0.01	0.00	22.98	10.00
75.200	1300.00	138.90	0.39	0.22	0.00	22.98	10.00
76.000	470.00	137.27	0.00	0.17	0.00	260.60	80.00
76.000	765.00	138.71	1.44	0.32	0.00	318.87	80.00
76.000	918.00	138.95	0.24	0.45	0.00	336.34	80.00
76.000	1300.00	139.71	0.76	0.81	0.00	392.02	80.00
85.000	470.00	137.36	0.00	0.09	0.00	200.74	900.00
85.000	765.00	138.78	1.42	0.06	0.00	251.01	900.00
85.000	918.00	139.03	0.25	0.08	0.00	261.01	900.00
85.000	1300.00	139.80	0.77	0.09	0.00	291.80	900.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
91.500	385.00	137.43	0.00	0.07	0.00	367.06	650.00
91.500	626.00	138.83	1.39	0.05	0.00	434.85	650.00
91.500	751.00	139.09	0.26	0.06	0.00	442.69	650.00
91.500	1050.00	139.87	0.78	0.07	0.00	466.17	650.00
98.300	385.00	137.81	0.00	0.38	0.00	166.38	680.00
98.300	626.00	138.98	1.17	0.15	0.00	192.10	680.00
98.300	751.00	139.24	0.26	0.16	0.00	196.73	680.00
98.300	1050.00	140.00	0.76	0.13	0.00	209.97	680.00
100.800	385.00	137.95	0.00	0.14	0.00	331.77	250.00
100.800	626.00	139.05	1.11	0.08	0.00	358.69	250.00
100.800	751.00	139.33	0.27	0.08	0.00	364.72	250.00
100.800	1050.00	140.08	0.76	0.09	0.00	381.14	250.00
106.900	385.00	138.02	0.00	0.07	0.00	171.10	610.00
106.900	626.00	139.11	1.09	0.06	0.00	177.12	610.00
106.900	751.00	139.39	0.28	0.07	0.00	178.66	610.00
106.900	1050.00	140.15	0.76	0.07	0.00	182.99	610.00
107.950	385.00	138.04	0.00	0.02	0.00	185.41	105.00
107.950	626.00	139.13	1.09	0.02	0.00	199.05	105.00
107.950	751.00	139.41	0.28	0.02	0.00	202.56	105.00
107.950	1050.00	140.17	0.76	0.02	0.00	212.50	105.00
112.200	385.00	138.16	0.00	0.12	0.00	397.38	425.00
112.200	626.00	139.21	1.04	0.08	0.00	508.53	425.00
112.200	751.00	139.49	0.29	0.08	0.00	539.11	425.00
112.200	1050.00	140.26	0.76	0.08	0.00	594.11	425.00
116.700	385.00	138.21	0.00	0.05	0.00	223.16	450.00
116.700	626.00	139.24	1.03	0.03	0.00	238.59	450.00
116.700	751.00	139.53	0.29	0.03	0.00	242.91	450.00
116.700	1050.00	140.29	0.76	0.03	0.00	287.16	450.00
118.570	385.00	138.09	0.00	-0.12	0.00	10.40	187.00
118.570	626.00	138.91	0.82	-0.33	0.00	10.40	187.00
118.570	751.00	139.56	0.65	0.03	0.00	300.33	187.00
118.570	1050.00	140.32	0.76	0.03	0.00	343.55	187.00
119.000	385.00	138.46	0.00	0.37	0.00	10.40	43.00
119.000	626.00	141.66	3.20	2.75	0.00	298.02	43.00
119.000	751.00	141.42	-0.24	1.86	0.00	275.93	43.00
119.000	1050.00	141.74	0.32	1.42	0.00	306.32	43.00
120.000	385.00	140.33	0.00	1.87	0.00	535.47	100.00
120.000	626.00	141.89	1.56	0.23	0.00	608.84	100.00
120.000	751.00	141.97	0.08	0.56	0.00	612.63	100.00
120.000	1050.00	142.27	0.30	0.53	0.00	617.22	100.00
125.000	385.00	140.38	0.00	0.05	0.00	267.63	500.00
125.000	626.00	141.91	1.53	0.02	0.00	318.83	500.00
125.000	751.00	142.00	0.09	0.02	0.00	321.85	500.00
125.000	1050.00	142.30	0.31	0.04	0.00	341.46	500.00

E

F

D/S

U/S

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
127.000	385.00	140.43	0.00	0.05	0.00	299.30	200.00
127.000	626.00	141.93	1.50	0.02	0.00	366.34	200.00
127.000	751.00	142.02	0.09	0.03	0.00	370.13	200.00
127.000	1050.00	142.34	0.32	0.04	0.00	372.90	200.00
130.650	385.00	140.73	0.00	0.30	0.00	137.13	365.00
130.650	626.00	142.03	1.30	0.10	0.00	156.06	365.00
130.650	751.00	142.15	0.12	0.13	0.00	158.07	365.00
130.650	1050.00	142.51	0.36	0.17	0.00	164.16	365.00
137.700	385.00	141.67	0.00	0.93	0.00	283.47	705.00
137.700	626.00	142.42	0.75	0.39	0.00	338.96	705.00
137.700	751.00	142.59	0.18	0.44	0.00	341.10	705.00
137.700	1050.00	143.02	0.43	0.52	0.00	346.28	705.00
143.400	385.00	144.08	0.00	2.41	0.00	30.38	570.00
143.400	626.00	144.70	0.62	2.28	0.00	33.66	570.00
* 143.400	751.00	144.98	0.28	2.39	0.00	35.16	570.00
* 143.400	1050.00	145.72	0.74	2.70	0.00	39.05	570.00
144.900	385.00	144.92	0.00	0.84	0.00	479.90	150.00
144.900	626.00	146.01	1.09	1.31	0.00	515.03	150.00
144.900	751.00	146.50	0.50	1.52	0.00	517.50	150.00
144.900	1050.00	147.53	1.03	1.81	0.00	522.67	150.00
148.000	385.00	144.92	0.00	0.00	0.00	633.88	310.00
148.000	626.00	146.01	1.08	0.00	0.00	685.05	310.00
148.000	751.00	146.51	0.50	0.00	0.00	687.52	310.00
148.000	1050.00	147.54	1.03	0.00	0.00	692.69	310.00
157.200	385.00	145.06	0.00	0.13	0.00	241.05	920.00
157.200	626.00	146.09	1.04	0.08	0.00	300.23	920.00
157.200	751.00	146.57	0.48	0.07	0.00	301.43	920.00
157.200	1050.00	147.59	1.01	0.05	0.00	303.97	920.00
161.550	385.00	145.39	0.00	0.34	0.00	109.41	435.00
161.550	626.00	146.32	0.93	0.23	0.00	148.81	435.00
161.550	751.00	146.76	0.44	0.19	0.00	160.89	435.00
161.550	1050.00	147.72	0.96	0.13	0.00	187.22	435.00

SUMMARY OF ERRORS

CAUTION SECNO= 4.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4.400 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 27.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 27.400 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 27.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 27.400 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 27.400 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 27.400 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 28.250 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 28.250 PROFILE= 2 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 28.250 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 28.250 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 55.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 55.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 57.200 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 57.200 PROFILE= 1 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 57.200 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 57.200 PROFILE= 2 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 57.200 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 57.200 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 118.570 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 118.570 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 119.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 119.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 119.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 119.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 119.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 119.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 143.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 143.400 PROFILE= 3 MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 143.400 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 143.400 PROFILE= 4 MINIMUM SPECIFIC ENERGY

226.050	150.38	152.40	0.00	154.00	324.00	0.00	59.00	0.00	2.84	150.34	3.66	150.55
226.050	151.00	152.40	0.00	154.00	528.00	0.00	59.00	0.00	3.40	150.90	5.09	151.31
226.050	151.27	152.40	0.00	154.00	633.00	0.00	59.00	0.00	3.64	151.14	5.73	151.65
226.050	151.85	152.40	0.00	154.00	890.00	0.00	59.00	0.00	4.16	151.66	7.25	152.48

227.220	156.31	155.10*****	155.40	0.16	325.90	30.00	0.15	2.93	157.93	1.14	157.95
227.220	156.43	155.10*****	155.40	0.16	528.37	30.00	0.25	3.66	158.66	1.39	158.69
227.220	156.49	155.10*****	155.40	0.17	635.63	30.00	0.30	3.90	158.90	1.50	158.93
227.220	156.55	155.10*****	155.40	0.17	890.46	30.00	0.33	4.34	159.34	1.75	159.38

282.040	158.91	158.70	158.81	160.00	324.00	0.00	59.00	0.00	4.43	158.43	5.62	158.93
282.040	160.32	158.70	160.65	160.00	439.21	92.19	30.00	0.00	6.30	160.30	1.81	160.32
282.040	160.88	158.70	161.51	160.00	401.84	234.29	30.00	0.00	6.58	160.58	1.92	160.60
282.040	160.72	158.70	163.69	160.00	330.51	559.54	30.00	0.00	7.07	161.07	2.22	161.11

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
298.000	160.85	163.30	0.00	168.70	324.00	0.00	1.00	0.03	4.61	160.71	2.98	160.85
298.000	161.46	163.30	0.00	168.70	528.00	0.00	1.00	0.07	5.09	161.19	4.16	161.46
298.000	161.73	163.30	0.00	168.70	633.00	0.00	1.00	0.10	5.29	161.39	4.71	161.73
298.000	162.37	163.30	0.00	168.70	890.00	0.00	1.00	0.22	5.73	161.83	5.90	162.37
307.100	161.09	160.10	161.84	160.00	324.00	0.00	59.00	0.00	4.66	160.96	4.24	161.17
307.100	161.68	160.10	163.73	160.00	528.00	0.00	59.00	0.00	5.31	161.61	3.88	161.76
307.100	161.95	160.10	164.91	160.00	633.00	0.00	59.00	0.00	5.59	161.89	3.42	162.00
307.100	162.58	160.10	168.44	160.00	116.06	776.57	30.00	0.00	6.33	162.63	2.06	162.66
342.700	166.25	166.10	165.83	167.10	158.00	0.00	59.00	0.00	3.19	165.99	5.10	166.39
342.700	167.09	166.10	167.23	167.10	254.21	2.28	30.00	0.00	4.34	167.14	2.73	167.21
342.700	167.42	166.10	167.77	167.10	280.18	28.90	30.00	0.00	4.69	167.49	2.54	167.55
342.700	168.21	166.10	169.19	167.10	313.92	125.03	30.00	0.00	5.14	167.94	2.73	168.01
* 345.470	172.36	173.90	0.00	176.00	158.00	0.00	59.00	0.00	1.85	171.25	7.76	172.19
* 345.470	173.37	173.90	0.00	176.00	258.00	0.00	59.00	0.00	2.57	171.97	9.14	173.26
* 345.470	173.83	173.90	0.00	176.00	309.00	0.00	59.00	0.00	2.90	172.30	9.68	173.76
* 345.470	174.87	173.90	169.64	176.00	435.00	0.00	59.00	0.00	3.64	173.04	10.88	174.87
351.270	172.64	174.70	0.00	176.50	158.00	0.00	59.00	0.00	3.75	172.45	4.38	172.75
351.270	173.86	174.70	0.00	176.50	258.00	0.00	59.00	0.00	4.79	173.49	5.99	174.04
351.270	174.42	174.70	0.00	176.50	309.00	0.00	59.00	0.00	5.24	173.94	6.70	174.64
351.270	175.76	174.70	176.83	176.50	425.09	6.53	30.00	0.00	8.02	176.72	2.01	176.75

225.200	150.26	0.27	0.00	202.51	223.90	98.48	1.62					
225.200	150.87	0.25	0.00	230.32	396.41	128.87	2.72					
225.200	151.13	0.24	0.00	242.37	487.30	142.40	3.30					
225.200	151.70	0.22	0.00	268.08	712.68	172.57	4.76					

SECNO	CWSEL	HL	OLOSS	TOPWID	QLOB	QCH	QROB
225.690	150.30	0.05	0.00	99.40	0.00	324.00	0.00
225.690	150.89	0.05	0.01	99.40	0.00	528.00	0.00
225.690	151.14	0.05	0.02	99.40	0.00	633.00	0.00
225.690	151.68	0.05	0.03	99.40	0.00	890.00	0.00
226.050	150.34	0.14	0.04	75.97	0.00	324.00	0.00
226.050	150.90	0.23	0.09	83.79	0.00	528.00	0.00
226.050	151.14	0.28	0.12	87.28	0.00	633.00	0.00
226.050	151.66	0.45	0.20	94.61	0.00	890.00	0.00
226.400	150.56	0.10	0.01	74.81	0.32	311.79	11.90
226.400	151.33	0.11	0.03	105.68	3.17	501.04	23.79
226.400	151.68	0.11	0.04	119.69	5.68	597.44	29.87
226.400	152.51	0.08	0.07	142.10	13.42	831.76	44.82
* 227.100	152.14	1.53	-0.64	120.41	0.00	324.00	0.00
* 227.100	152.36	1.41	-0.54	121.09	0.00	528.00	0.00
* 227.100	152.47	1.35	-0.50	121.41	0.00	633.00	0.00
227.100	152.77	0.56	0.13	122.32	0.00	890.00	0.00
227.220	157.93	5.51	0.00	122.35	0.00	324.00	0.00
227.220	158.66	5.89	0.00	304.50	0.00	519.21	8.79
227.220	158.90	5.97	0.00	315.23	0.17	606.32	26.51
227.220	159.34	6.06	0.00	335.51	2.09	804.62	83.29
230.000	157.95	0.00	0.00	319.17	0.00	324.00	0.00
230.000	158.69	0.00	0.00	326.93	0.02	527.96	0.02
230.000	158.93	0.00	0.00	329.33	0.06	632.89	0.06
230.000	159.39	0.00	0.00	333.87	0.20	889.59	0.20

281.000	158.31	0.15	0.08	23.27	17.53	263.87	42.60
281.000	158.93	0.26	0.17	24.82	31.46	420.08	76.46
281.000	159.14	0.32	0.22	63.86	39.61	497.90	95.50
* 281.000	159.99	0.52	-0.05	318.31	138.28	569.43	182.29
282.000	158.42	0.25	0.06	16.70	0.00	324.00	0.00
282.000	159.60	0.05	0.06	246.42	334.93	152.82	40.24
282.000	159.99	0.05	0.07	269.30	410.57	168.97	53.46
282.000	160.69	0.04	0.06	279.69	603.49	197.86	88.65
282.040	158.43	0.02	0.00	16.70	0.00	324.00	0.00
282.040	160.30	0.70	0.00	245.30	334.92	160.68	32.40
282.040	160.58	0.59	0.00	250.11	411.95	179.82	41.23
282.040	161.07	0.39	0.00	258.81	600.59	226.51	62.90
283.000	158.85	0.43	0.00	19.63	0.00	324.00	0.00
283.000	160.28	0.09	0.05	232.69	132.03	359.95	36.02
283.000	160.57	0.08	0.04	235.51	206.64	369.87	56.48
283.000	161.08	0.07	0.03	240.49	373.69	413.72	102.59

297.000	160.72	0.35	0.00	421.85	167.84	55.33	100.83
297.000	161.23	0.29	0.00	430.29	288.92	65.21	173.87
297.000	161.43	0.29	0.00	433.62	350.80	70.92	211.27
297.000	161.87	0.29	0.00	440.89	502.81	83.88	303.32

SECNO	CWSEL	HL	DLOSS	TOPWID	QLOB	QCH	QROB
297.700	160.69	0.06	0.04	37.50	0.00	324.00	0.00
297.700	161.13	0.09	0.08	37.50	0.00	528.00	0.00
297.700	161.29	0.11	0.11	37.50	0.00	633.00	0.00
297.700	161.61	0.15	0.18	37.50	0.00	890.00	0.00
298.000	160.71	0.02	0.00	37.50	0.00	324.00	0.00
298.000	161.19	0.06	0.00	37.50	0.00	528.00	0.00
298.000	161.39	0.08	0.00	37.50	0.00	633.00	0.00
298.000	161.83	0.15	0.00	37.50	0.00	890.00	0.00
299.000	160.89	0.03	0.01	424.59	195.87	51.47	76.66
299.000	161.51	0.03	0.03	431.34	334.54	61.81	131.66
299.000	161.79	0.03	0.03	434.35	405.75	67.16	160.10
299.000	162.44	0.02	0.05	441.41	580.40	79.15	230.45
306.400	161.04	0.17	0.00	304.41	205.86	67.22	50.92
306.400	161.64	0.14	0.00	356.78	338.80	80.91	108.29
306.400	161.91	0.13	0.00	380.12	403.37	87.06	142.58
306.400	162.55	0.11	0.00	410.00	543.10	97.71	249.19
307.000	161.06	0.02	0.00	337.10	104.65	143.41	75.95
307.000	161.66	0.02	0.00	358.02	208.59	167.44	151.97
307.000	161.93	0.02	0.00	367.46	261.98	178.93	192.08
307.000	162.56	0.02	0.00	375.57	391.38	202.65	295.98
307.100	160.96	0.03	0.06	148.24	86.41	237.59	0.00
307.100	161.61	0.04	0.04	313.62	286.28	234.23	7.49
307.100	161.89	0.03	0.03	323.07	371.74	226.36	34.90
307.100	162.63	0.08	0.00	347.72	311.28	222.97	355.75
308.000	161.23	0.04	0.02	261.53	176.97	56.45	90.58
308.000	161.80	0.04	0.01	281.46	298.85	73.66	155.49
308.000	162.04	0.04	0.01	289.72	361.51	82.12	189.37
308.000	162.66	0.02	0.00	310.63	515.86	99.29	274.85
342.000	163.93	1.02	0.03	140.49	52.06	85.12	20.82
342.000	164.21	0.95	0.02	152.89	110.74	102.96	44.30
342.000	164.34	0.91	0.02	154.53	141.80	110.44	56.76
342.000	164.61	0.81	0.02	158.20	219.61	127.30	88.08
* 342.600	165.51	1.07	-0.22	15.45	0.00	158.00	0.00
* 342.600	166.37	0.48	-0.02	106.84	35.50	217.85	4.65
* 342.600	166.52	0.44	-0.02	107.62	62.80	237.41	8.79
* 342.600	166.73	0.52	-0.04	108.63	118.96	298.58	17.45
342.700	165.99	0.11	0.03	17.96	0.00	158.00	0.00
342.700	167.14	0.40	0.00	123.54	100.23	142.13	15.64
342.700	167.49	0.61	0.00	126.16	137.82	148.87	22.31
342.700	167.94	0.78	0.00	129.58	215.35	183.18	36.48
343.600	166.45	0.04	0.04	73.22	1.97	146.31	9.72
343.600	167.22	0.03	0.00	78.82	6.23	223.78	27.99
343.600	167.55	0.03	0.00	81.21	8.96	261.54	38.50
343.600	168.00	0.04	0.00	84.49	15.41	357.10	62.49

SECNO	CWSEL	HL	DLOSS	TOPWID	GLOB	GCH	GR0B						
345.250	166.61	0.53	0.16	11.00	0.00	158.00	0.00						
345.250	167.26	0.66	0.27	11.00	0.00	258.00	0.00						
345.250	167.51	0.72	0.32	11.00	0.00	309.00	0.00						
* 345.250	167.84	2.06	-0.47	11.00	0.00	435.00	0.00						
* 345.470	171.25	0.33	0.02	11.00	0.00	158.00	0.00						
* 345.470	171.97	0.30	0.05	11.00	0.00	258.00	0.00						
* 345.470	172.30	0.29	0.05	11.00	0.00	309.00	0.00						
* 345.470	173.04	0.28	0.00	11.00	0.00	435.00	0.00						
348.000	172.28	0.00	0.09	217.20	0.96	156.58	0.46						
348.000	173.39	0.00	0.13	224.81	2.60	254.04	1.36						
348.000	173.90	0.00	0.15	228.29	3.70	303.31	1.99						
348.000	175.06	0.00	0.18	238.33	7.08	423.48	4.44						
350.900	172.36	0.28	0.08	10.20	0.00	158.00	0.00						
350.900	173.41	0.33	0.13	10.20	0.00	258.00	0.00						
350.900	173.89	0.36	0.16	10.20	0.00	309.00	0.00						
350.900	175.06	0.02	0.00	133.58	140.11	102.69	192.20						
351.270	172.45	0.10	0.01	10.20	0.00	158.00	0.00						
351.270	173.49	0.15	0.03	10.20	0.00	258.00	0.00						
351.270	173.94	0.17	0.05	10.20	0.00	309.00	0.00						
351.270	176.72	1.67	0.00	94.23	79.08	164.09	191.84						
165.700	415.00	0.00	0.00	140.90	385.00	145.93	0.00	145.98	7.10	2.52	340.21	144.45	
165.700	415.00	0.00	0.00	140.90	626.00	146.70	0.00	146.73	4.31	2.24	584.05	301.38	
165.700	415.00	0.00	0.00	140.90	751.00	147.08	0.00	147.11	3.52	2.15	709.40	400.08	
165.700	415.00	0.00	0.00	140.90	1050.00	147.95	0.00	147.97	2.40	1.99	1012.20	677.14	
171.700	600.00	0.00	0.00	141.10	385.00	146.32	0.00	146.49	10.48	3.69	168.35	118.93	
171.700	600.00	0.00	0.00	141.10	626.00	147.00	0.00	147.20	11.84	4.31	255.67	181.94	
171.700	600.00	0.00	0.00	141.10	751.00	147.35	0.00	147.54	11.59	4.45	301.11	220.59	
171.700	600.00	0.00	0.00	141.10	1050.00	148.15	0.00	148.33	10.20	4.57	413.34	328.74	
183.200	1150.00	0.00	0.00	142.50	385.00	147.31	0.00	147.41	7.26	3.02	208.90	142.88	
183.200	1150.00	0.00	0.00	142.50	626.00	147.99	0.00	148.08	6.85	3.23	461.88	239.19	
183.200	1150.00	0.00	0.00	142.50	751.00	148.25	0.00	148.33	6.01	3.13	601.06	306.27	
183.200	1150.00	0.00	0.00	142.50	1050.00	148.86	0.00	148.91	4.24	2.83	928.52	509.85	

J

EM

	SECNO	XLCH	ELTRD	ELLC	ELMIN	R	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
	190.500	730.00	0.00	0.00	143.30	324.00	147.78	0.00	147.88	6.34	2.80	187.06	128.66
K	190.500	730.00	0.00	0.00	143.30	528.00	148.43	0.00	148.53	6.42	3.09	340.00	208.37
	190.500	730.00	0.00	0.00	143.30	633.00	148.66	0.00	148.76	6.65	3.24	396.73	245.53
	190.500	730.00	0.00	0.00	143.30	890.00	149.18	0.00	149.28	6.60	3.45	531.63	346.52
	206.500	1600.00	0.00	0.00	145.30	324.00	148.55	0.00	148.57	4.03	1.69	399.66	161.45
	206.500	1600.00	0.00	0.00	145.30	528.00	149.11	0.00	149.13	3.43	1.76	593.20	284.92
	206.500	1600.00	0.00	0.00	145.30	633.00	149.33	0.00	149.35	3.39	1.83	673.63	343.64
	206.500	1600.00	0.00	0.00	145.30	890.00	149.81	0.00	149.84	3.28	1.95	857.25	491.60
	212.700	620.00	0.00	0.00	145.60	324.00	148.86	0.00	148.92	7.80	2.41	210.65	116.02
	212.700	620.00	0.00	0.00	145.60	528.00	149.41	0.00	149.49	8.73	2.87	300.64	178.69
V	212.700	620.00	0.00	0.00	145.60	633.00	149.64	0.00	149.72	9.18	3.07	342.17	208.88
	212.700	620.00	0.00	0.00	145.60	890.00	150.13	0.00	150.23	9.69	3.42	441.84	285.90
	215.700	300.00	0.00	0.00	146.40	324.00	149.18	0.00	149.27	13.83	2.97	154.12	87.13
	215.700	300.00	0.00	0.00	146.40	528.00	149.76	0.00	149.90	15.82	3.64	207.77	132.74
	215.700	300.00	0.00	0.00	146.40	633.00	150.00	0.00	150.16	16.82	3.94	231.40	154.34
	215.700	300.00	0.00	0.00	146.40	890.00	150.51	0.00	150.71	18.67	4.55	283.01	205.97
	222.350	665.00	0.00	0.00	147.30	324.00	149.99	0.00	150.04	9.97	2.39	214.94	102.61
	222.350	665.00	0.00	0.00	147.30	528.00	150.61	0.00	150.67	9.32	2.70	308.71	172.91
	222.350	665.00	0.00	0.00	147.30	633.00	150.88	0.00	150.95	9.20	2.84	352.86	208.75
	222.350	665.00	0.00	0.00	147.30	890.00	151.45	0.00	151.52	9.12	3.14	452.43	294.77
	225.200	285.00	0.00	0.00	147.30	324.00	150.26	0.00	150.31	9.91	2.59	221.87	102.91
	225.200	285.00	0.00	0.00	147.30	528.00	150.87	0.00	150.92	8.65	2.77	353.49	179.56
M	225.200	285.00	0.00	0.00	147.30	633.00	151.13	0.00	151.18	8.18	2.84	415.80	221.28
	225.200	285.00	0.00	0.00	147.30	890.00	151.70	0.00	151.75	7.39	2.97	559.34	327.36
	225.690	49.00	0.00	0.00	147.50	324.00	150.30	0.00	150.37	11.88	2.01	161.26	93.99
	225.690	49.00	0.00	0.00	147.50	528.00	150.89	0.00	150.98	11.42	2.41	218.84	156.23
	225.690	49.00	0.00	0.00	147.50	633.00	151.14	0.00	151.25	11.43	2.59	244.00	187.25
	225.690	49.00	0.00	0.00	147.50	890.00	151.68	0.00	151.82	11.68	2.99	297.56	260.44
	226.050	36.00	154.00	152.40	147.50	324.00	150.34	0.00	150.55	66.29	3.66	88.60	39.79
	226.050	36.00	154.00	152.40	147.50	528.00	150.90	0.00	151.31	117.88	5.09	103.75	48.63
	226.050	36.00	154.00	152.40	147.50	633.00	151.14	0.00	151.65	144.72	5.73	110.49	52.62
	226.050	36.00	154.00	152.40	147.50	890.00	151.66	150.30	152.48	240.33	7.25	122.74	57.41
	226.400	35.00	0.00	0.00	147.50	324.00	150.56	0.00	150.67	19.05	2.67	125.51	74.23
	226.400	35.00	0.00	0.00	147.50	528.00	151.33	0.00	151.45	18.67	2.81	195.16	122.19
	226.400	35.00	0.00	0.00	147.50	633.00	151.68	0.00	151.80	17.27	2.81	234.63	152.33
	226.400	35.00	0.00	0.00	147.50	890.00	152.51	0.00	152.62	11.25	2.71	345.28	265.36
*	227.100	70.00	0.00	0.00	150.60	324.00	152.14	152.14	152.45	219.07	4.47	72.45	21.89
*	227.100	70.00	0.00	0.00	150.60	528.00	152.36	152.36	152.80	200.84	5.28	99.92	37.26
*	227.100	70.00	0.00	0.00	150.60	633.00	152.47	152.47	152.96	192.23	5.60	113.01	45.66
	227.100	70.00	0.00	0.00	150.60	890.00	152.77	0.00	153.32	150.01	5.94	149.82	72.67
	227.220	12.00	155.40	155.10	155.00	324.00	157.93	0.00	157.95	2.40	1.14	282.98	209.32
	227.220	12.00	155.40	155.10	155.00	528.00	158.66	0.00	158.69	2.53	1.39	419.47	331.69
	227.220	12.00	155.40	155.10	155.00	633.00	158.90	0.00	158.93	2.68	1.50	492.19	386.59
	227.220	12.00	155.40	155.10	155.00	890.00	159.34	0.00	159.38	3.06	1.75	636.51	508.49

EM

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10KWS	VCH	AREA	.01K	
N	230.000	278.00	0.00	0.00	148.30	324.00	157.95	0.00	157.95	0.01	0.14	2261.42	3534.05
N	230.000	278.00	0.00	0.00	148.30	528.00	158.69	0.00	158.69	0.02	0.21	2500.29	4164.29
N	230.000	278.00	0.00	0.00	148.30	633.00	158.93	0.00	158.93	0.02	0.25	2578.81	4379.63
N	230.000	278.00	0.00	0.00	148.30	890.00	159.39	0.00	159.39	0.03	0.33	2729.45	4800.89
	237.550	755.00	0.00	0.00	149.20	324.00	157.96	0.00	157.96	0.01	0.18	1798.25	2696.67
	237.550	755.00	0.00	0.00	149.20	528.00	158.69	0.00	158.70	0.03	0.27	2041.76	3222.20
	237.550	755.00	0.00	0.00	149.20	633.00	158.93	0.00	158.94	0.03	0.31	2122.83	3402.93
	237.550	755.00	0.00	0.00	149.20	890.00	159.39	0.00	159.39	0.06	0.41	2279.75	3760.08
	245.600	805.00	0.00	0.00	150.20	324.00	157.96	0.00	157.96	0.08	0.34	959.47	1137.53
	245.600	805.00	0.00	0.00	150.20	528.00	158.70	0.00	158.70	0.13	0.48	1128.64	1455.06
	245.600	805.00	0.00	0.00	150.20	633.00	158.94	0.00	158.94	0.16	0.55	1186.09	1565.94
	245.600	805.00	0.00	0.00	150.20	890.00	159.40	0.00	159.41	0.25	0.71	1298.83	1787.56
	249.000	340.00	0.00	0.00	150.40	324.00	157.96	0.00	157.96	0.01	0.17	1950.30	2649.31
	249.000	340.00	0.00	0.00	150.40	528.00	158.70	0.00	158.70	0.03	0.24	2209.54	3246.78
	249.000	340.00	0.00	0.00	150.40	633.00	158.95	0.00	158.95	0.03	0.28	2295.70	3452.07
	249.000	340.00	0.00	0.00	150.40	890.00	159.41	0.00	159.41	0.05	0.36	2462.33	3858.10
	252.000	300.00	0.00	0.00	150.60	324.00	157.96	0.00	157.96	0.04	0.25	1275.45	1698.75
	252.000	300.00	0.00	0.00	150.60	528.00	158.70	0.00	158.71	0.06	0.37	1458.06	2095.94
	252.000	300.00	0.00	0.00	150.60	633.00	158.95	0.00	158.95	0.08	0.42	1518.80	2233.39
	252.000	300.00	0.00	0.00	150.60	890.00	159.41	0.00	159.41	0.13	0.55	1636.42	2506.61
	258.200	620.00	0.00	0.00	150.90	324.00	157.96	0.00	157.97	0.06	0.32	1097.70	1294.39
	258.200	620.00	0.00	0.00	150.90	528.00	158.71	0.00	158.71	0.10	0.45	1303.94	1649.99
	258.200	620.00	0.00	0.00	150.90	633.00	158.95	0.00	158.96	0.13	0.51	1373.94	1775.21
	258.200	620.00	0.00	0.00	150.90	890.00	159.42	0.00	159.42	0.19	0.66	1511.44	2027.09
	261.100	290.00	0.00	0.00	151.00	324.00	157.99	0.00	158.05	4.75	2.22	264.48	148.65
	261.100	290.00	0.00	0.00	151.00	528.00	158.73	0.00	158.77	3.36	2.09	518.58	288.05
	261.100	290.00	0.00	0.00	151.00	633.00	158.98	0.00	159.02	3.31	2.14	607.89	348.14
	261.100	290.00	0.00	0.00	151.00	890.00	159.45	0.00	159.49	3.41	2.31	787.02	482.10
	266.000	490.00	0.00	0.00	151.30	324.00	158.15	0.00	158.17	1.68	1.54	417.37	249.71
	266.000	490.00	0.00	0.00	151.30	528.00	158.86	0.00	158.88	1.83	1.76	588.67	390.40
	266.000	490.00	0.00	0.00	151.30	633.00	159.10	0.00	159.13	2.00	1.89	650.98	447.22
	266.000	490.00	0.00	0.00	151.30	890.00	159.58	0.00	159.61	2.44	2.20	776.37	569.29
	278.800	1280.00	0.00	0.00	151.90	324.00	158.35	0.00	158.36	1.75	1.41	450.03	245.16
	278.800	1280.00	0.00	0.00	151.90	528.00	159.07	0.00	159.08	1.92	1.60	630.43	381.10
	278.800	1280.00	0.00	0.00	151.90	633.00	159.33	0.00	159.35	2.07	1.71	702.63	439.54
	278.800	1280.00	0.00	0.00	151.90	890.00	159.85	0.00	159.87	2.44	1.96	855.80	570.00
	281.000	220.00	0.00	0.00	152.40	324.00	158.31	0.00	158.60	12.44	4.70	91.32	91.88
	281.000	220.00	0.00	0.00	152.40	528.00	158.93	0.00	159.51	22.22	6.74	106.25	112.02
	281.000	220.00	0.00	0.00	152.40	633.00	159.14	0.00	159.89	28.06	7.74	113.85	119.50
	281.000	220.00	0.00	0.00	152.40	890.00	159.99	159.99	160.62	24.12	7.81	278.67	181.20
	282.000	100.00	0.00	0.00	154.00	324.00	158.42	0.00	158.91	37.84	5.63	57.52	52.67
	282.000	100.00	0.00	0.00	154.00	528.00	159.60	0.00	159.62	2.94	1.98	537.77	308.06
	282.000	100.00	0.00	0.00	154.00	633.00	159.99	0.00	160.02	2.73	2.02	639.49	382.90
	282.000	100.00	0.00	0.00	154.00	890.00	160.69	0.00	160.72	2.42	2.07	832.96	572.31

X

SECNO	XLCH	ELTRD	ELLC	ELMIN	R	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
282.040	4.00	160.00	158.70	154.00	324.00	158.43	0.00	158.93	37.57	5.62	57.64	52.86
282.040	4.00	160.00	158.70	154.00	528.00	160.30	0.00	160.32	2.02	1.81	566.19	371.73
282.040	4.00	160.00	158.70	154.00	633.00	160.58	0.00	160.60	2.14	1.92	634.31	433.06
282.040	4.00	160.00	158.70	154.00	890.00	161.07	0.00	161.11	2.55	2.22	760.81	556.92
283.000	96.00	0.00	0.00	155.00	324.00	158.85	0.00	159.35	51.09	5.67	57.11	45.33
283.000	96.00	0.00	0.00	155.00	528.00	160.28	0.00	160.47	16.87	4.21	248.83	128.56
283.000	96.00	0.00	0.00	155.00	633.00	160.57	0.00	160.72	14.32	4.05	316.55	167.28
283.000	96.00	0.00	0.00	155.00	890.00	161.08	0.00	161.21	12.58	4.08	438.09	250.91
287.550	455.00	0.00	0.00	155.10	324.00	160.31	0.00	160.37	15.18	3.11	253.22	83.15
287.550	455.00	0.00	0.00	155.10	528.00	160.91	0.00	160.94	9.00	2.67	421.18	175.96
287.550	455.00	0.00	0.00	155.10	633.00	161.11	0.00	161.15	8.62	2.71	480.78	215.66
287.550	455.00	0.00	0.00	155.10	890.00	161.55	0.00	161.59	8.11	2.81	610.15	312.59
297.000	945.00	0.00	0.00	156.00	324.00	160.72	0.00	160.73	2.62	1.45	529.78	200.01
297.000	945.00	0.00	0.00	156.00	528.00	161.23	0.00	161.24	2.40	1.51	747.56	341.02
297.000	945.00	0.00	0.00	156.00	633.00	161.43	0.00	161.44	2.44	1.57	834.79	405.54
297.000	945.00	0.00	0.00	156.00	890.00	161.87	0.00	161.89	2.50	1.69	1027.47	562.80
297.700	70.00	0.00	0.00	156.10	324.00	160.69	0.00	160.83	12.69	3.00	107.91	90.95
297.700	70.00	0.00	0.00	156.10	528.00	161.13	0.00	161.41	21.07	4.24	124.46	115.04
297.700	70.00	0.00	0.00	156.10	633.00	161.29	0.00	161.65	25.87	4.85	130.57	124.46
297.700	70.00	0.00	0.00	156.10	890.00	161.61	0.00	162.22	38.20	6.24	142.71	144.00
298.000	30.00	168.70	163.30	156.10	324.00	160.71	0.00	160.85	12.33	2.98	108.86	92.28
298.000	30.00	168.70	163.30	156.10	528.00	161.19	0.00	161.46	19.73	4.16	126.97	118.87
298.000	30.00	168.70	163.30	156.10	633.00	161.39	0.00	161.73	23.59	4.71	134.29	130.34
298.000	30.00	168.70	163.30	156.10	890.00	161.83	0.00	162.37	31.89	5.90	150.80	157.60
299.000	100.00	0.00	0.00	156.50	324.00	160.89	0.00	160.89	1.74	1.21	605.10	245.96
299.000	100.00	0.00	0.00	156.50	528.00	161.51	0.00	161.52	1.46	1.23	871.70	436.99
299.000	100.00	0.00	0.00	156.50	633.00	161.79	0.00	161.79	1.39	1.26	991.98	536.81
299.000	100.00	0.00	0.00	156.50	890.00	162.44	0.00	162.45	1.23	1.29	1277.38	804.09
306.400	740.00	0.00	0.00	156.50	324.00	161.04	0.00	161.06	3.70	1.78	399.23	168.51
306.400	740.00	0.00	0.00	156.50	528.00	161.64	0.00	161.66	3.26	1.84	599.96	292.32
306.400	740.00	0.00	0.00	156.50	633.00	161.91	0.00	161.93	3.10	1.87	699.64	359.80
306.400	740.00	0.00	0.00	156.50	890.00	162.55	0.00	162.56	2.55	1.85	950.03	556.88
307.000	60.00	0.00	0.00	156.30	324.00	161.06	0.00	161.09	3.98	1.89	382.24	162.42
307.000	60.00	0.00	0.00	156.30	528.00	161.66	0.00	161.68	3.29	1.90	589.97	291.27
307.000	60.00	0.00	0.00	156.30	633.00	161.93	0.00	161.95	3.06	1.91	687.84	361.80
307.000	60.00	0.00	0.00	156.30	890.00	162.56	0.00	162.58	2.55	1.90	922.05	557.35
307.100	10.00	160.00	160.10	156.30	324.00	160.96	0.00	161.17	59.54	4.24	117.48	41.99
307.100	10.00	160.00	160.10	156.30	528.00	161.61	0.00	161.76	71.11	3.88	197.53	62.61
307.100	10.00	160.00	160.10	156.30	633.00	161.89	0.00	162.00	48.81	3.42	269.29	90.60
307.100	10.00	160.00	160.10	156.30	890.00	162.63	0.00	162.66	2.94	2.06	841.71	518.84
308.000	90.00	0.00	0.00	157.00	324.00	161.23	0.00	161.24	2.84	1.56	421.63	192.30
308.000	90.00	0.00	0.00	157.00	528.00	161.80	0.00	161.82	2.93	1.75	580.04	308.21
308.000	90.00	0.00	0.00	157.00	633.00	162.04	0.00	162.06	3.03	1.85	649.09	363.85
308.000	90.00	0.00	0.00	157.00	890.00	162.66	0.00	162.68	2.88	1.97	832.79	524.67

R

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
S	311.500	350.00	0.00	0.00	157.40	324.00	161.30	0.00	161.33	4.95	2.04	312.28	145.62
	311.500	350.00	0.00	0.00	157.40	528.00	161.88	0.00	161.91	5.25	2.32	433.97	230.45
	311.500	350.00	0.00	0.00	157.40	633.00	162.12	0.00	162.15	5.34	2.44	490.30	273.91
	311.500	350.00	0.00	0.00	157.40	890.00	162.73	0.00	162.76	4.85	2.54	647.33	404.32
	318.200	670.00	0.00	0.00	158.00	324.00	161.59	0.00	161.61	3.68	1.75	372.20	168.83
	318.200	670.00	0.00	0.00	158.00	528.00	162.18	0.00	162.19	3.73	1.96	532.96	273.37
	318.200	670.00	0.00	0.00	158.00	633.00	162.42	0.00	162.44	3.72	2.04	605.41	328.35
	318.200	670.00	0.00	0.00	158.00	890.00	163.01	0.00	163.03	3.43	2.14	787.46	480.57
	322.800	460.00	0.00	0.00	158.50	324.00	161.89	0.00	161.96	12.65	2.87	322.88	91.08
	322.800	460.00	0.00	0.00	158.50	528.00	162.37	0.00	162.39	6.14	2.22	642.57	213.00
	322.800	460.00	0.00	0.00	158.50	633.00	162.58	0.00	162.60	4.58	2.00	803.89	295.63
	322.800	460.00	0.00	0.00	158.50	890.00	163.13	0.00	163.15	2.75	1.71	1188.51	537.17
	326.200	340.00	0.00	0.00	159.00	324.00	162.25	0.00	162.32	12.15	2.83	253.35	92.95
	326.200	340.00	0.00	0.00	159.00	528.00	162.60	0.00	162.67	12.88	3.16	364.21	147.14
	326.200	340.00	0.00	0.00	159.00	633.00	162.78	0.00	162.85	12.21	3.19	426.72	181.13
	326.200	340.00	0.00	0.00	159.00	890.00	163.27	0.00	163.32	9.33	3.06	609.14	291.44
T	330.600	440.00	0.00	0.00	159.50	324.00	162.46	0.00	162.47	2.25	1.17	685.50	215.83
	330.600	440.00	0.00	0.00	159.50	528.00	162.81	0.00	162.81	2.24	1.27	947.84	353.12
	330.600	440.00	0.00	0.00	159.50	633.00	162.98	0.00	162.99	2.15	1.30	1081.23	431.52
	330.600	440.00	0.00	0.00	159.50	890.00	163.43	0.00	163.43	1.77	1.29	1442.22	668.37
	336.500	590.00	0.00	0.00	160.00	158.00	162.63	0.00	162.65	4.71	1.63	187.41	72.77
	336.500	590.00	0.00	0.00	160.00	258.00	162.99	0.00	163.02	5.40	1.91	264.34	111.07
	336.500	590.00	0.00	0.00	160.00	309.00	163.16	0.00	163.19	5.41	1.99	305.51	132.83
	336.500	590.00	0.00	0.00	160.00	435.00	163.58	0.00	163.61	4.82	2.06	421.54	198.09
	339.000	250.00	0.00	0.00	161.00	158.00	162.97	0.00	163.04	30.16	3.21	92.37	28.77
	339.000	250.00	0.00	0.00	161.00	258.00	163.31	0.00	163.39	28.71	3.55	136.55	48.15
	339.000	250.00	0.00	0.00	161.00	309.00	163.47	0.00	163.56	28.02	3.68	157.99	58.38
	339.000	250.00	0.00	0.00	161.00	435.00	163.84	0.00	163.93	24.31	3.81	216.08	88.23
	342.000	300.00	0.00	0.00	161.50	158.00	163.93	0.00	164.09	45.01	4.29	80.63	23.55
	342.000	300.00	0.00	0.00	161.50	258.00	164.21	0.00	164.36	42.12	4.54	123.28	39.75
	342.000	300.00	0.00	0.00	161.50	309.00	164.34	0.00	164.48	40.64	4.62	142.19	48.47
	342.000	300.00	0.00	0.00	161.50	435.00	164.61	0.00	164.76	37.53	4.78	185.29	71.01
*	342.600	60.00	0.00	0.00	162.80	158.00	165.51	165.51	166.25	177.80	6.93	22.80	11.85
*	342.600	60.00	0.00	0.00	162.80	258.00	166.37	166.37	166.81	79.17	5.76	68.46	29.00
*	342.600	60.00	0.00	0.00	162.80	309.00	166.52	166.52	166.94	73.63	5.83	85.15	36.01
*	342.600	60.00	0.00	0.00	162.80	435.00	166.73	166.73	167.23	86.99	6.72	106.92	46.64
	342.700	10.00	167.10	166.10	162.80	158.00	165.99	0.00	166.39	78.17	5.10	30.96	17.87
	342.700	10.00	167.10	166.10	162.80	258.00	167.14	0.00	167.21	11.61	2.73	161.99	75.71
	342.700	10.00	167.10	166.10	162.80	309.00	167.49	0.00	167.55	8.63	2.54	205.62	105.21
	342.700	10.00	167.10	166.10	162.80	435.00	167.94	0.00	168.01	8.33	2.73	264.01	150.69
	343.600	90.00	0.00	0.00	163.00	158.00	166.45	0.00	166.47	2.06	1.24	146.76	110.15
	343.600	90.00	0.00	0.00	163.00	258.00	167.22	0.00	167.25	2.21	1.51	205.57	173.51
	343.600	90.00	0.00	0.00	163.00	309.00	167.55	0.00	167.58	2.28	1.62	231.95	204.86
	343.600	90.00	0.00	0.00	163.00	435.00	168.00	0.00	168.05	2.98	1.98	269.43	252.01

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
345.250	165.00	0.00	0.00	164.20	158.00	166.61	0.00	167.16	62.67	5.95	26.54	19.96
345.250	165.00	0.00	0.00	164.20	258.00	167.26	0.00	168.17	77.47	7.68	33.61	29.31
345.250	165.00	0.00	0.00	164.20	309.00	167.51	0.00	168.63	85.53	8.48	36.45	33.41
* 345.250	165.00	0.00	0.00	164.20	435.00	167.84	167.84	169.67	125.15	10.86	40.06	38.88
* 345.470	22.30	176.00	173.90	169.40	158.00	171.25	171.25	172.19	149.90	7.76	20.35	12.90
* 345.470	22.30	176.00	173.90	169.40	258.00	171.97	171.97	173.26	136.66	9.14	28.23	22.07
* 345.470	22.30	176.00	173.90	169.40	309.00	172.30	172.30	173.76	131.24	9.68	31.93	26.97
* 345.470	22.30	176.00	173.90	169.40	435.00	173.04	173.04	174.87	125.83	10.88	39.99	38.78
348.000	253.00	0.00	0.00	166.40	158.00	172.28	0.00	172.28	0.02	0.16	1030.72	1267.49
348.000	253.00	0.00	0.00	166.40	258.00	173.39	0.00	173.39	0.02	0.21	1276.80	1774.34
348.000	253.00	0.00	0.00	166.40	309.00	173.90	0.00	173.90	0.02	0.23	1392.19	2030.22
348.000	253.00	0.00	0.00	166.40	435.00	175.06	0.00	175.06	0.03	0.27	1661.33	2667.03
350.900	290.00	0.00	0.00	168.70	158.00	172.36	0.00	172.64	19.00	4.23	37.39	36.25
350.900	290.00	0.00	0.00	168.70	258.00	173.41	0.00	173.86	22.93	5.36	48.12	53.88
350.900	290.00	0.00	0.00	168.70	309.00	173.89	0.00	174.42	24.56	5.84	52.91	62.35
350.900	290.00	0.00	0.00	168.70	435.00	175.06	0.00	175.08	1.18	1.58	475.75	400.68
351.270	36.70	176.50	174.70	168.70	158.00	172.45	0.00	172.75	36.66	4.38	36.11	26.10
351.270	36.70	176.50	174.70	168.70	258.00	173.49	0.00	174.04	58.94	5.99	43.05	33.61
351.270	36.70	176.50	174.70	168.70	309.00	173.94	0.00	174.64	69.56	6.70	46.12	37.05
351.270	36.70	176.50	174.70	168.70	435.00	176.72	0.00	176.75	1.39	2.01	390.87	368.68
165.700	385.00	145.93	0.00	0.54	0.00	300.12	415.00					
165.700	626.00	146.70	0.77	0.38	0.00	327.49	415.00					
165.700	751.00	147.08	0.38	0.32	0.00	336.93	415.00					
165.700	1050.00	147.95	0.87	0.23	0.00	358.69	415.00					
171.700	385.00	146.32	0.00	0.39	0.00	125.34	600.00					
171.700	626.00	147.00	0.68	0.30	0.00	131.28	600.00					
171.700	751.00	147.35	0.34	0.27	0.00	134.27	600.00					
171.700	1050.00	148.15	0.80	0.20	0.00	151.49	600.00					
183.200	385.00	147.31	0.00	0.98	0.00	219.46	1150.00					
183.200	626.00	147.99	0.68	0.99	0.00	525.20	1150.00					
183.200	751.00	148.25	0.26	0.91	0.00	534.79	1150.00					
183.200	1050.00	148.86	0.61	0.71	0.00	546.35	1150.00					

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
190.500	324.00	147.78	0.00	0.47	0.00	195.64	730.00
190.500	528.00	148.43	0.65	0.45	0.00	249.09	730.00
190.500	633.00	148.66	0.22	0.41	0.00	253.82	730.00
190.500	890.00	149.18	0.52	0.32	0.00	264.75	730.00
206.500	324.00	148.55	0.00	0.77	0.00	343.03	1600.00
206.500	528.00	149.11	0.56	0.67	0.00	360.90	1600.00
206.500	633.00	149.33	0.22	0.67	0.00	368.07	1600.00
206.500	890.00	149.81	0.49	0.63	0.00	383.94	1600.00
212.700	324.00	148.86	0.00	0.31	0.00	144.57	620.00
212.700	528.00	149.41	0.55	0.31	0.00	177.47	620.00
212.700	633.00	149.64	0.23	0.31	0.00	190.74	620.00
212.700	890.00	150.13	0.49	0.31	0.00	212.48	620.00
215.700	324.00	149.18	0.00	0.32	0.00	87.68	300.00
215.700	528.00	149.76	0.58	0.35	0.00	96.42	300.00
215.700	633.00	150.00	0.24	0.37	0.00	100.02	300.00
215.700	890.00	150.51	0.50	0.38	0.00	104.56	300.00
222.350	324.00	149.99	0.00	0.81	0.00	139.59	665.00
222.350	528.00	150.61	0.62	0.85	0.00	160.55	665.00
222.350	633.00	150.88	0.27	0.88	0.00	169.52	665.00
222.350	890.00	151.45	0.57	0.94	0.00	188.17	665.00
225.200	324.00	150.26	0.00	0.27	0.00	202.51	285.00
225.200	528.00	150.87	0.61	0.26	0.00	230.32	285.00
225.200	633.00	151.13	0.26	0.25	0.00	242.37	285.00
225.200	890.00	151.70	0.56	0.25	0.00	268.08	285.00
225.690	324.00	150.30	0.00	0.04	0.00	99.40	49.00
225.690	528.00	150.89	0.59	0.02	0.00	99.40	49.00
225.690	633.00	151.14	0.25	0.01	0.00	99.40	49.00
225.690	890.00	151.68	0.54	-0.01	0.00	99.40	49.00
226.050	324.00	150.34	0.00	0.04	0.00	75.97	36.00
226.050	528.00	150.90	0.56	0.01	0.00	83.79	36.00
226.050	633.00	151.14	0.24	0.00	0.00	87.28	36.00
226.050	890.00	151.66	0.52	-0.02	0.00	94.61	36.00
226.400	324.00	150.56	0.00	0.21	0.00	74.81	35.00
226.400	528.00	151.33	0.77	0.42	0.00	105.68	35.00
226.400	633.00	151.68	0.35	0.54	0.00	119.69	35.00
226.400	890.00	152.51	0.84	0.85	0.00	142.10	35.00
* 227.100	324.00	152.14	0.00	1.58	0.00	120.41	70.00
* 227.100	528.00	152.36	0.23	1.03	0.00	121.09	70.00
* 227.100	633.00	152.47	0.11	0.79	0.00	121.41	70.00
227.100	890.00	152.77	0.30	0.26	0.00	122.32	70.00
227.220	324.00	157.93	0.00	5.80	0.00	122.35	12.00
227.220	528.00	158.66	0.73	6.30	0.00	304.50	12.00
227.220	633.00	158.90	0.23	6.42	0.00	315.23	12.00
227.220	890.00	159.34	0.44	6.57	0.00	335.51	12.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
230.000	324.00	157.95	0.00	0.02	0.00	319.17	278.00
230.000	528.00	158.69	0.74	0.03	0.00	326.93	278.00
230.000	633.00	158.93	0.24	0.04	0.00	329.33	278.00
230.000	890.00	159.39	0.45	0.05	0.00	333.87	278.00
237.550	324.00	157.96	0.00	0.00	0.00	320.50	755.00
237.550	528.00	158.69	0.74	0.00	0.00	336.07	755.00
237.550	633.00	158.93	0.24	0.00	0.00	340.47	755.00
237.550	890.00	159.39	0.46	0.00	0.00	348.81	755.00
245.600	324.00	157.96	0.00	0.00	0.00	220.24	805.00
245.600	528.00	158.70	0.74	0.00	0.00	236.53	805.00
245.600	633.00	158.94	0.24	0.01	0.00	241.77	805.00
245.600	890.00	159.40	0.46	0.01	0.00	251.76	805.00
249.000	324.00	157.96	0.00	0.00	0.00	343.46	340.00
249.000	528.00	158.70	0.74	0.00	0.00	354.89	340.00
249.000	633.00	158.95	0.24	0.01	0.00	358.63	340.00
249.000	890.00	159.41	0.46	0.01	0.00	365.76	340.00
252.000	324.00	157.96	0.00	0.00	0.00	240.23	300.00
252.000	528.00	158.70	0.74	0.00	0.00	249.06	300.00
252.000	633.00	158.95	0.24	0.00	0.00	251.49	300.00
252.000	890.00	159.41	0.46	0.00	0.00	256.13	300.00
258.200	324.00	157.96	0.00	0.00	0.00	268.17	620.00
258.200	528.00	158.71	0.75	0.00	0.00	285.42	620.00
258.200	633.00	158.95	0.24	0.01	0.00	290.98	620.00
258.200	890.00	159.42	0.47	0.01	0.00	301.60	620.00
261.100	324.00	157.99	0.00	0.03	0.00	322.25	290.00
261.100	528.00	158.73	0.74	0.02	0.00	359.83	290.00
261.100	633.00	158.98	0.24	0.03	0.00	371.43	290.00
261.100	890.00	159.45	0.47	0.03	0.00	393.67	290.00
266.000	324.00	158.15	0.00	0.16	0.00	233.81	490.00
266.000	528.00	158.86	0.71	0.13	0.00	251.46	490.00
266.000	633.00	159.10	0.24	0.13	0.00	257.58	490.00
266.000	890.00	159.58	0.48	0.13	0.00	269.48	490.00
278.800	324.00	158.35	0.00	0.20	0.00	232.82	1280.00
278.800	528.00	159.07	0.72	0.21	0.00	268.64	1280.00
278.800	633.00	159.33	0.26	0.23	0.00	281.70	1280.00
278.800	890.00	159.85	0.52	0.27	0.00	307.57	1280.00
281.000	324.00	158.31	0.00	-0.04	0.00	23.27	220.00
281.000	528.00	158.93	0.62	-0.14	0.00	24.82	220.00
281.000	633.00	159.14	0.20	-0.20	0.00	63.86	220.00
* 281.000	890.00	159.99	0.86	0.14	0.00	318.31	220.00
282.000	324.00	158.42	0.00	0.11	0.00	16.70	100.00
282.000	528.00	159.60	1.18	0.66	0.00	246.42	100.00
282.000	633.00	159.99	0.40	0.86	0.00	269.30	100.00
282.000	890.00	160.69	0.70	0.70	0.00	279.69	100.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
282.040	324.00	158.43	0.00	0.02	0.00	16.70	4.00
282.040	528.00	160.30	1.87	0.71	0.00	245.30	4.00
282.040	633.00	160.58	0.28	0.59	0.00	250.11	4.00
282.040	890.00	161.07	0.50	0.38	0.00	258.81	4.00
283.000	324.00	158.85	0.00	0.42	0.00	19.63	96.00
283.000	528.00	160.28	1.42	-0.03	0.00	232.69	96.00
283.000	633.00	160.57	0.29	-0.01	0.00	235.51	96.00
283.000	890.00	161.08	0.51	0.00	0.00	240.49	96.00
287.550	324.00	160.31	0.00	1.46	0.00	283.15	455.00
287.550	528.00	160.91	0.59	0.63	0.00	289.02	455.00
287.550	633.00	161.11	0.20	0.54	0.00	291.08	455.00
287.550	890.00	161.55	0.44	0.47	0.00	295.49	455.00
297.000	324.00	160.72	0.00	0.41	0.00	421.85	945.00
297.000	528.00	161.23	0.51	0.32	0.00	430.29	945.00
297.000	633.00	161.43	0.20	0.32	0.00	433.62	945.00
297.000	890.00	161.87	0.44	0.32	0.00	440.89	945.00
297.700	324.00	160.69	0.00	-0.03	0.00	37.50	70.00
297.700	528.00	161.13	0.44	-0.10	0.00	37.50	70.00
297.700	633.00	161.29	0.16	-0.14	0.00	37.50	70.00
297.700	890.00	161.61	0.32	-0.26	0.00	37.50	70.00
298.000	324.00	160.71	0.00	0.03	0.00	37.50	30.00
298.000	528.00	161.19	0.48	0.07	0.00	37.50	30.00
298.000	633.00	161.39	0.20	0.10	0.00	37.50	30.00
298.000	890.00	161.83	0.44	0.22	0.00	37.50	30.00
299.000	324.00	160.89	0.00	0.17	0.00	424.59	100.00
299.000	528.00	161.51	0.62	0.31	0.00	431.34	100.00
299.000	633.00	161.79	0.28	0.40	0.00	434.35	100.00
299.000	890.00	162.44	0.65	0.61	0.00	441.41	100.00
306.400	324.00	161.04	0.00	0.16	0.00	304.41	740.00
306.400	528.00	161.64	0.60	0.14	0.00	356.78	740.00
306.400	633.00	161.91	0.27	0.13	0.00	380.12	740.00
306.400	890.00	162.55	0.63	0.11	0.00	410.00	740.00
307.000	324.00	161.06	0.00	0.02	0.00	337.10	60.00
307.000	528.00	161.66	0.60	0.02	0.00	358.02	60.00
307.000	633.00	161.93	0.27	0.01	0.00	367.46	60.00
307.000	890.00	162.56	0.63	0.01	0.00	375.57	60.00
307.100	324.00	160.96	0.00	-0.10	0.00	148.24	10.00
307.100	528.00	161.61	0.65	-0.05	0.00	313.62	10.00
307.100	633.00	161.89	0.28	-0.04	0.00	323.07	10.00
307.100	890.00	162.63	0.74	0.07	0.00	347.72	10.00
308.000	324.00	161.23	0.00	0.26	0.00	261.53	90.00
308.000	528.00	161.80	0.57	0.19	0.00	281.46	90.00
308.000	633.00	162.04	0.24	0.15	0.00	289.72	90.00
308.000	890.00	162.66	0.62	0.03	0.00	310.63	90.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
311.500	324.00	161.30	0.00	0.08	0.00	200.07	350.00
311.500	528.00	161.88	0.57	0.08	0.00	224.44	350.00
311.500	633.00	162.12	0.24	0.08	0.00	236.84	350.00
311.500	890.00	162.73	0.61	0.07	0.00	273.74	350.00
318.200	324.00	161.59	0.00	0.29	0.00	252.14	670.00
318.200	528.00	162.18	0.59	0.30	0.00	291.20	670.00
318.200	633.00	162.42	0.25	0.30	0.00	299.89	670.00
318.200	890.00	163.01	0.59	0.28	0.00	320.67	670.00
322.800	324.00	161.89	0.00	0.30	0.00	618.72	460.00
322.800	528.00	162.37	0.47	0.19	0.00	697.21	460.00
322.800	633.00	162.58	0.22	0.16	0.00	701.82	460.00
322.800	890.00	163.13	0.55	0.13	0.00	712.70	460.00
326.200	324.00	162.25	0.00	0.36	0.00	303.26	340.00
326.200	528.00	162.60	0.35	0.23	0.00	335.38	340.00
326.200	633.00	162.78	0.18	0.20	0.00	352.20	340.00
326.200	890.00	163.27	0.49	0.13	0.00	397.23	340.00
330.600	324.00	162.46	0.00	0.21	0.00	727.72	440.00
330.600	528.00	162.81	0.34	0.21	0.00	764.68	440.00
330.600	633.00	162.98	0.17	0.20	0.00	782.80	440.00
330.600	890.00	163.43	0.45	0.16	0.00	879.86	440.00
336.500	158.00	162.63	0.00	0.17	0.00	195.97	590.00
336.500	258.00	162.99	0.36	0.18	0.00	233.58	590.00
336.500	309.00	163.16	0.17	0.18	0.00	251.41	590.00
336.500	435.00	163.58	0.42	0.16	0.00	295.93	590.00
339.000	158.00	162.97	0.00	0.34	0.00	116.75	250.00
339.000	258.00	163.31	0.34	0.32	0.00	137.19	250.00
339.000	309.00	163.47	0.16	0.31	0.00	146.09	250.00
339.000	435.00	163.84	0.37	0.26	0.00	167.83	250.00
342.000	158.00	163.93	0.00	0.96	0.00	140.49	300.00
342.000	258.00	164.21	0.28	0.90	0.00	152.89	300.00
342.000	309.00	164.34	0.13	0.87	0.00	154.53	300.00
342.000	435.00	164.61	0.28	0.77	0.00	158.20	300.00
* 342.600	158.00	165.51	0.00	1.58	0.00	15.45	60.00
* 342.600	258.00	166.37	0.86	2.16	0.00	106.84	60.00
* 342.600	309.00	166.52	0.16	2.19	0.00	107.62	60.00
* 342.600	435.00	166.73	0.20	2.11	0.00	108.63	60.00
342.700	158.00	165.99	0.00	0.48	0.00	17.96	10.00
342.700	258.00	167.14	1.15	0.77	0.00	123.54	10.00
342.700	309.00	167.49	0.35	0.96	0.00	126.16	10.00
342.700	435.00	167.94	0.46	1.22	0.00	129.58	10.00
343.600	158.00	166.45	0.00	0.46	0.00	73.22	90.00
343.600	258.00	167.22	0.77	0.08	0.00	78.82	90.00
343.600	309.00	167.55	0.33	0.06	0.00	81.21	90.00
343.600	435.00	168.00	0.45	0.05	0.00	84.49	90.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
345.250	158.00	166.61	0.00	0.16	0.00	11.00	165.00
345.250	258.00	167.26	0.64	0.04	0.00	11.00	165.00
345.250	309.00	167.51	0.26	-0.03	0.00	11.00	165.00
* 345.250	435.00	167.84	0.33	-0.16	0.00	11.00	165.00
* 345.470	158.00	171.25	0.00	4.64	0.00	11.00	22.30
* 345.470	258.00	171.97	0.72	4.71	0.00	11.00	22.30
* 345.470	309.00	172.30	0.34	4.79	0.00	11.00	22.30
* 345.470	435.00	173.04	0.73	5.19	0.00	11.00	22.30
348.000	158.00	172.28	0.00	1.03	0.00	217.20	253.00
348.000	258.00	173.39	1.11	1.43	0.00	224.81	253.00
348.000	309.00	173.90	0.51	1.60	0.00	228.29	253.00
348.000	435.00	175.06	1.15	2.02	0.00	238.33	253.00
350.900	158.00	172.36	0.00	0.08	0.00	10.20	290.00
350.900	258.00	173.41	1.05	0.02	0.00	10.20	290.00
350.900	309.00	173.89	0.47	-0.01	0.00	10.20	290.00
350.900	435.00	175.06	1.17	0.01	0.00	133.58	290.00
351.270	158.00	172.45	0.00	0.09	0.00	10.20	36.70
351.270	258.00	173.49	1.04	0.07	0.00	10.20	36.70
351.270	309.00	173.94	0.46	0.06	0.00	10.20	36.70
351.270	435.00	176.72	2.77	1.65	0.00	94.23	36.70

CAUTION SECNO= 227.100 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 227.100 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 227.100 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 227.100 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 227.100 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 227.100 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 281.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 281.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 342.600 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 342.600 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 342.600 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 342.600 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 342.600 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 342.600 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 342.600 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 342.600 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 345.250 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 345.250 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 345.470 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 345.470 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 345.470 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 345.470 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 345.470 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 345.470 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 345.470 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 345.470 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 345.470 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE USEL

363.450	183.41	182.505814771.50		182.80	0.22	158.10	30.00	0.00	5.11	186.01	0.56	186.01
363.450	185.94	182.50*****		182.80	0.21	257.98	30.00	0.00	6.01	186.91	0.69	186.92
363.450	187.69	182.50*****		182.80	0.21	309.07	30.00	0.00	6.42	187.32	0.74	187.32
363.450	193.38	182.50*****		182.80	0.21	435.47	30.00	0.00	7.14	188.04	0.87	188.05
395.580	186.92	188.00	0.00	190.00	158.00	0.00	1.00	0.05	4.08	186.78	2.98	186.92
395.580	187.66	188.00	0.00	190.00	258.00	0.00	1.00	0.15	4.69	187.39	4.22	187.66
395.580	188.04	188.00	188.06	190.00	309.00	0.00	10.00	0.21	5.01	187.71	4.70	188.06
395.580	188.89	188.00	189.06	190.00	435.00	0.00	10.00	0.44	5.87	188.57	5.63	189.06
396.530	187.24	188.30	0.00	191.40	158.00	0.00	59.00	0.00	3.66	186.86	4.03	187.11
396.530	188.06	188.30	0.00	191.40	258.00	0.00	59.00	0.00	4.31	187.51	5.54	187.98
396.530	188.49	188.30	188.45	191.40	309.00	0.00	59.00	0.00	4.65	187.85	6.13	188.43
396.530	189.55	188.30	189.97	191.40	435.00	0.00	10.00	0.00	6.12	189.32	6.47	189.97
413.850	210.36	208.102716980.25		210.00	0.10	107.96	30.00	0.12	2.41	212.41	0.44	212.41
413.850	210.80	208.10*****		210.00	0.10	208.41	30.00	0.19	2.61	212.61	0.72	212.62
413.850	210.96	208.10*****		210.00	0.10	259.18	30.00	0.21	2.70	212.70	0.85	212.70
413.850	211.27	208.10*****		210.00	0.10	388.46	30.00	0.23	2.89	212.89	1.11	212.89
449.020	213.10	214.60	0.00	215.00	158.00	0.00	1.00	0.00	2.15	212.35	6.94	213.10
449.020	214.16	214.60	0.00	215.00	258.00	0.00	1.00	0.01	2.64	212.84	9.22	214.16
449.020	214.66	214.60	214.17	215.00	309.00	0.00	1.00	0.01	2.98	213.18	9.79	214.66
449.020	215.81	214.60	215.92	215.00	397.20	38.11	30.00	0.01	5.61	215.81	0.47	215.81
* 450.780	215.71	218.80	0.00	220.00	158.00	0.00	59.00	0.00	2.52	214.42	9.06	215.70
* 450.780	217.15	218.80	0.00	220.00	258.00	0.00	59.00	0.00	3.17	215.07	11.88	217.26
* 450.780	218.32	218.80	0.00	220.00	309.00	0.00	59.00	0.00	3.72	215.62	12.65	218.10
* 450.780	219.61	218.80	219.36	220.00	435.00	0.00	59.00	0.00	4.96	216.86	14.21	220.00

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
451.250	217.21	214.105814812.00		222.20	0.20	158.33	30.00	0.01	10.75	224.85	1.18	224.87
451.250	218.48	214.10*****		222.20	0.18	257.94	30.00	0.00	11.25	225.35	1.79	225.39
451.250	219.26	214.10*****		222.20	0.18	308.89	30.00	0.00	11.47	225.57	2.07	225.62
451.250	221.15	214.10*****		222.20	0.16	436.42	30.00	0.00	11.97	226.07	2.70	226.15
352.000	172.81	0.14	0.02	49.54	25.46	98.61	33.94					
352.000	174.11	0.08	0.05	56.87	58.93	120.69	78.37					
352.000	174.71	0.07	0.06	60.26	75.96	132.13	100.91					
352.000	176.73	0.01	0.00	78.84	123.83	150.18	160.98					

362.250	174.57	1.68	0.14	12.30	0.24	157.34	0.43					
362.250	175.48	1.58	0.20	15.95	2.91	249.88	5.22					
362.250	175.91	1.49	0.22	17.63	5.51	293.61	9.88					
362.250	177.28	0.90	0.19	25.63	23.01	374.86	37.13					
363.050	175.19	0.30	0.03	14.98	0.00	158.00	0.00					
363.050	176.22	0.29	0.04	16.60	0.00	258.00	0.00					
363.050	176.67	0.29	0.04	17.31	0.00	309.00	0.00					
363.050	177.79	0.23	0.03	19.05	0.00	435.00	0.00					
363.450	186.01	10.58	0.00	159.15	16.25	98.76	42.99					
363.450	186.91	10.37	0.00	186.60	34.28	148.94	74.77					
363.450	187.32	10.29	0.00	198.98	44.88	172.34	91.78					
363.450	188.04	9.84	0.00	491.94	71.80	228.40	134.79					
366.000	186.01	0.00	0.00	1010.40	0.12	157.84	0.04					
366.000	186.92	0.00	0.00	1051.21	0.36	257.51	0.13					
366.000	187.32	0.00	0.00	1069.62	0.53	308.25	0.22					
366.000	188.05	0.00	0.00	1103.67	1.04	433.43	0.52					

395.000	186.52	0.51	0.05	55.86	10.65	134.44	12.91					
395.000	187.21	0.35	0.05	104.87	35.57	167.30	55.13					
395.000	187.55	0.27	0.04	128.21	51.50	172.68	84.82					
395.000	188.19	0.17	0.03	168.95	91.86	179.79	163.35					

	SECNO	CWSEL	HL	OLOSS	TOPWID	QLOB	QCH	QROB
	395.350	186.73	0.05	0.01	13.60	0.00	158.00	0.00
	395.350	187.24	0.07	0.02	13.60	0.00	258.00	0.00
	395.350	187.48	0.07	0.06	13.60	0.00	309.00	0.00
	395.350	187.91	0.08	0.15	13.60	0.00	435.00	0.00
	395.580	186.78	0.05	0.00	13.60	0.00	158.00	0.00
	395.580	187.39	0.13	0.00	13.60	0.00	258.00	0.00
	395.580	187.71	0.20	0.00	13.60	0.00	309.00	0.00
	395.580	188.57	0.52	0.00	13.60	0.00	435.00	0.00
	396.300	186.81	0.11	0.04	11.40	0.00	158.00	0.00
	396.300	187.41	0.18	0.07	11.40	0.00	258.00	0.00
	396.300	187.73	0.20	0.08	11.40	0.00	309.00	0.00
	396.300	188.55	0.24	0.11	11.40	0.00	435.00	0.00
	396.530	186.86	0.05	0.00	11.40	0.00	158.00	0.00
	396.530	187.51	0.07	0.00	11.40	0.00	258.00	0.00
	396.530	187.85	0.08	0.00	11.40	0.00	309.00	0.00
	396.530	189.32	0.56	0.00	11.40	0.00	435.00	0.00
*	397.500	187.59	1.57	-0.48	11.47	0.31	157.39	0.31
*	397.500	188.37	1.34	-0.28	13.43	2.70	252.59	2.70
*	397.500	188.72	1.26	-0.22	14.30	4.82	299.36	4.82
*	397.500	189.50	1.13	-0.13	16.25	12.34	410.32	12.34

	413.300	198.04	3.78	0.05	30.76	15.86	92.14	0.00
*	413.300	198.39	3.63	0.18	36.85	43.81	163.29	0.90
*	413.300	198.59	3.49	-0.28	40.37	61.55	194.78	2.67
*	413.300	199.01	3.27	-0.51	47.68	107.57	266.65	10.78
*	413.800	210.02	0.80	-0.11	62.04	59.95	47.10	0.95
*	413.800	210.29	0.96	-0.05	84.43	131.20	74.55	2.24
*	413.800	210.41	0.96	-0.06	94.48	169.72	86.19	3.09
*	413.800	210.65	0.96	-0.07	115.10	267.69	111.69	5.62
	413.850	212.41	2.17	0.00	333.35	72.01	9.62	26.37
	413.850	212.61	2.01	0.00	335.01	139.72	17.05	51.23
	413.850	212.70	1.95	0.00	335.72	174.41	20.59	63.99
	413.850	212.89	1.85	0.00	337.26	260.43	28.86	95.71
	414.700	212.41	0.00	0.00	404.12	0.32	157.22	0.46
	414.700	212.62	0.00	0.00	406.17	0.68	256.41	0.91
	414.700	212.70	0.00	0.00	407.04	0.90	306.92	1.18
	414.700	212.89	0.00	0.00	408.94	1.56	431.51	1.93

	447.500	212.53	0.15	0.01	53.15	4.41	148.83	4.75
	447.500	212.83	0.28	0.03	63.56	9.69	237.06	11.25
	447.500	212.97	0.35	0.04	68.18	13.04	280.34	15.63
	447.500	213.27	0.51	0.06	78.42	23.08	382.45	29.47
	448.100	212.34	0.31	0.21	10.60	0.00	158.00	0.00
*	448.100	212.83	0.82	-0.02	10.60	0.00	258.00	0.00
*	448.100	213.17	0.79	0.04	10.60	0.00	309.00	0.00
*	448.100	213.92	0.75	0.17	10.60	0.00	435.00	0.00

SECNO	CWSEL	HL	LOSS	TOPWID	QLOB	QCH	QROB						
449.020	212.35	0.00	0.00	10.60	0.00	158.00	0.00						
449.020	212.84	0.00	0.00	10.60	0.00	258.00	0.00						
449.020	213.18	0.00	0.00	10.60	0.00	309.00	0.00						
449.020	215.81	0.00	0.00	399.97	0.00	27.96	407.04						
450.000	213.18	0.02	0.07	234.50	31.44	21.26	105.30						
450.000	214.30	0.01	0.13	238.74	54.15	26.46	177.38						
450.000	214.82	0.01	0.15	240.72	65.94	29.41	213.65						
450.000	215.81	0.00	0.00	244.49	95.26	37.45	302.29						
* 450.250	212.50	0.36	0.20	7.00	0.00	158.00	0.00						
* 450.250	213.47	0.35	0.35	7.00	0.00	258.00	0.00						
* 450.250	215.06	0.00	0.00	132.12	222.93	52.31	33.75						
450.250	215.80	0.00	0.00	148.41	311.31	66.90	56.80						
* 450.780	214.42	1.07	-0.15	7.00	0.00	158.00	0.00						
* 450.780	215.07	1.88	-0.45	7.00	0.00	258.00	0.00						
* 450.780	215.62	1.93	-0.22	7.00	0.00	309.00	0.00						
* 450.780	216.86	2.05	-0.08	7.00	0.00	435.00	0.00						
451.200	215.92	0.17	0.12	89.54	98.64	55.44	3.93						
451.200	217.48	0.03	0.22	110.41	194.18	56.54	7.28						
451.200	218.35	0.01	0.25	120.48	239.54	59.86	9.60						
451.200	220.31	0.01	0.31	142.00	348.13	70.05	16.82						
451.250	224.85	8.88	0.00	44.05	16.04	120.67	21.28						
451.250	225.35	7.88	0.00	47.31	28.04	191.13	38.83						
451.250	225.57	7.26	0.00	48.80	34.61	225.67	48.72						
451.250	226.07	5.83	0.00	52.15	52.00	307.48	75.51						
352.000	73.00	0.00	0.00	169.00	158.00	172.81	0.00	172.91	12.91	3.07	79.67	43.98	
352.000	73.00	0.00	0.00	169.00	258.00	174.11	0.00	174.18	6.21	2.68	148.94	103.52	
352.000	73.00	0.00	0.00	169.00	309.00	174.71	0.00	174.77	4.90	2.58	184.24	139.54	
352.000	73.00	0.00	0.00	169.00	435.00	176.73	0.00	176.76	2.09	2.11	319.62	300.71	
357.700	570.00	0.00	0.00	168.50	158.00	173.22	0.00	173.29	4.42	2.18	92.86	75.18	
357.700	570.00	0.00	0.00	168.50	258.00	174.37	0.00	174.44	3.63	2.34	165.25	135.45	
357.700	570.00	0.00	0.00	168.50	309.00	174.93	0.00	174.99	3.06	2.31	208.89	176.56	
357.700	570.00	0.00	0.00	168.50	435.00	176.82	0.00	176.86	1.34	1.84	392.41	376.36	
362.250	455.00	0.00	0.00	171.00	158.00	174.57	0.00	175.10	69.42	5.88	27.42	18.96	
362.250	455.00	0.00	0.00	171.00	258.00	175.48	0.00	176.21	65.85	6.96	40.31	31.79	
362.250	455.00	0.00	0.00	171.00	309.00	175.91	0.00	176.70	62.91	7.33	47.34	38.96	
362.250	455.00	0.00	0.00	171.00	435.00	177.28	0.00	177.95	38.59	6.98	76.75	70.02	
363.050	80.00	0.00	0.00	172.00	158.00	175.19	0.00	175.43	25.64	3.96	39.85	31.20	
363.050	80.00	0.00	0.00	172.00	258.00	176.22	0.00	176.55	25.34	4.59	56.18	51.25	
363.050	80.00	0.00	0.00	172.00	309.00	176.67	0.00	177.03	25.19	4.84	63.88	61.57	
363.050	80.00	0.00	0.00	172.00	435.00	177.79	0.00	178.20	22.94	5.17	84.11	90.82	
363.450	40.00	182.80	182.50	180.90	158.00	186.01	0.00	186.01	0.26	0.56	410.35	310.90	
363.450	40.00	182.80	182.50	180.90	258.00	186.91	0.00	186.92	0.30	0.69	567.13	467.44	
363.450	40.00	182.80	182.50	180.90	309.00	187.32	0.00	187.32	0.31	0.74	645.96	550.57	
363.450	40.00	182.80	182.50	180.90	435.00	188.04	0.00	188.05	0.37	0.87	809.51	718.61	
366.000	255.00	0.00	0.00	170.00	158.00	186.01	0.00	186.01	0.00	0.01	12572.89	29206.69	

EM

EW

W

366.000	255.00	0.00	0.00	170.00	258.00	186.92	0.00	186.92	0.00	0.02	13507.88	32741.02
366.000	255.00	0.00	0.00	170.00	309.00	187.32	0.00	187.32	0.00	0.02	13941.52	34392.68
366.000	255.00	0.00	0.00	170.00	435.00	188.05	0.00	188.05	0.00	0.03	14724.57	37395.68

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
373.300	730.00	0.00	0.00	172.00	158.00	186.01	0.00	186.01	0.00	0.02	7891.87	15250.17
373.300	730.00	0.00	0.00	172.00	258.00	186.92	0.00	186.92	0.00	0.03	8796.15	17417.83
373.300	730.00	0.00	0.00	172.00	309.00	187.32	0.00	187.32	0.00	0.03	9217.81	18463.10
373.300	730.00	0.00	0.00	172.00	435.00	188.05	0.00	188.05	0.00	0.05	9987.14	18606.51
378.000	470.00	0.00	0.00	174.00	158.00	186.01	0.00	186.01	0.00	0.05	3119.61	5248.19
378.000	470.00	0.00	0.00	174.00	258.00	186.92	0.00	186.92	0.00	0.08	3506.18	6111.52
378.000	470.00	0.00	0.00	174.00	309.00	187.32	0.00	187.32	0.00	0.09	3689.88	6527.75
378.000	470.00	0.00	0.00	174.00	435.00	188.05	0.00	188.05	0.00	0.11	4028.07	7301.84
382.650	465.00	0.00	0.00	177.00	158.00	186.01	0.00	186.01	0.01	0.12	1583.12	2185.58
382.650	465.00	0.00	0.00	177.00	258.00	186.92	0.00	186.92	0.01	0.16	1973.22	2769.55
382.650	465.00	0.00	0.00	177.00	309.00	187.32	0.00	187.33	0.01	0.18	2166.57	3066.01
382.650	465.00	0.00	0.00	177.00	435.00	188.05	0.00	188.05	0.01	0.23	2533.97	3641.25
387.000	435.00	0.00	0.00	182.00	158.00	186.01	0.00	186.01	0.05	0.23	775.62	704.02
387.000	435.00	0.00	0.00	182.00	258.00	186.92	0.00	186.92	0.06	0.28	1049.46	1067.34
387.000	435.00	0.00	0.00	182.00	309.00	187.33	0.00	187.33	0.06	0.31	1178.65	1255.28
387.000	435.00	0.00	0.00	182.00	435.00	188.05	0.00	188.05	0.07	0.36	1415.19	1622.72
390.400	340.00	0.00	0.00	182.30	158.00	186.01	0.00	186.02	0.27	0.49	448.30	305.52
390.400	340.00	0.00	0.00	182.30	258.00	186.92	0.00	186.92	0.23	0.53	693.07	535.78
390.400	340.00	0.00	0.00	182.30	309.00	187.33	0.00	187.33	0.22	0.55	809.05	661.19
390.400	340.00	0.00	0.00	182.30	435.00	188.05	0.00	188.05	0.23	0.62	1022.25	914.34
392.900	250.00	0.00	0.00	182.50	158.00	186.14	0.00	186.24	15.14	3.25	81.15	40.60
392.900	250.00	0.00	0.00	182.50	258.00	186.99	0.00	187.04	7.92	2.80	195.77	91.66
392.900	250.00	0.00	0.00	182.50	309.00	187.38	0.00	187.42	5.53	2.50	283.12	131.42
392.900	250.00	0.00	0.00	182.50	435.00	188.08	0.00	188.10	3.25	2.12	511.88	241.41
395.000	210.00	0.00	0.00	183.00	158.00	186.52	0.00	186.80	33.10	4.62	48.43	27.46
395.000	210.00	0.00	0.00	183.00	258.00	187.21	0.00	187.44	25.00	4.63	104.70	51.60
395.000	210.00	0.00	0.00	183.00	309.00	187.55	0.00	187.72	19.84	4.38	143.56	69.37
395.000	210.00	0.00	0.00	183.00	435.00	188.19	0.00	188.30	13.01	3.92	239.98	120.61
395.350	35.00	0.00	0.00	182.70	158.00	186.73	0.00	186.87	10.06	3.02	52.27	49.81
395.350	35.00	0.00	0.00	182.70	258.00	187.24	0.00	187.53	18.33	4.36	59.21	60.26
395.350	35.00	0.00	0.00	182.70	309.00	187.48	0.00	187.86	22.36	4.95	62.47	65.35
395.350	35.00	0.00	0.00	182.70	435.00	187.91	0.00	188.54	33.81	6.36	68.36	74.81
395.580	22.70	190.00	188.00	182.70	158.00	186.78	0.00	186.92	9.63	2.98	53.01	50.90
395.580	22.70	190.00	188.00	182.70	258.00	187.39	0.00	187.66	16.58	4.22	61.20	63.36
395.580	22.70	190.00	188.00	182.70	309.00	187.71	0.00	188.06	19.20	4.70	65.70	70.51
395.580	22.70	190.00	188.00	182.70	435.00	188.57	0.00	189.06	23.46	5.63	77.32	89.80
396.300	72.00	0.00	0.00	183.20	158.00	186.81	0.00	187.07	20.65	4.10	38.55	34.77
396.300	72.00	0.00	0.00	183.20	258.00	187.41	0.00	187.91	33.10	5.68	45.39	44.85
396.300	72.00	0.00	0.00	183.20	309.00	187.73	0.00	188.34	37.42	6.30	49.05	50.51
396.300	72.00	0.00	0.00	183.20	435.00	188.55	0.00	189.41	43.70	7.45	58.42	65.80
396.530	23.00	191.40	188.30	183.20	158.00	186.86	0.00	187.11	19.61	4.03	39.19	35.68
396.530	23.00	191.40	188.30	183.20	258.00	187.51	0.00	187.98	30.65	5.54	46.54	46.60
396.530	23.00	191.40	188.30	183.20	309.00	187.85	0.00	188.43	34.44	6.13	50.40	52.65
396.530	23.00	191.40	188.30	183.20	435.00	189.32	0.00	189.97	28.81	6.47	67.26	81.04

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K	
	*	397.500	97.00	0.00	0.00	185.00	158.00	187.59	187.59	188.56	162.30	7.92	20.30	12.40
	*	397.500	97.00	0.00	0.00	185.00	258.00	188.37	188.37	189.64	137.92	9.12	30.06	21.97
	*	397.500	97.00	0.00	0.00	185.00	309.00	188.72	188.72	190.11	130.30	9.59	34.91	27.07
	*	397.500	97.00	0.00	0.00	185.00	435.00	189.50	189.50	191.13	116.35	10.52	46.84	40.33
		401.550	405.00	0.00	0.00	185.50	158.00	190.88	0.00	191.20	39.91	4.71	41.01	25.01
Y		401.550	405.00	0.00	0.00	185.50	258.00	191.67	0.00	192.00	36.01	5.19	73.85	42.99
		401.550	405.00	0.00	0.00	185.50	309.00	192.00	0.00	192.32	33.42	5.28	92.14	53.45
		401.550	405.00	0.00	0.00	185.50	435.00	192.66	0.00	192.91	25.58	5.09	147.28	86.01
		404.500	295.00	0.00	0.00	186.10	158.00	191.97	0.00	192.25	31.75	4.34	43.58	28.04
		404.500	295.00	0.00	0.00	186.10	258.00	192.68	0.00	192.99	31.75	4.92	77.77	45.79
		404.500	295.00	0.00	0.00	186.10	309.00	192.96	0.00	193.26	31.00	5.07	97.66	55.50
		404.500	295.00	0.00	0.00	186.10	435.00	193.43	0.00	193.73	30.47	5.39	143.83	78.81
		407.300	280.00	0.00	0.00	186.80	158.00	192.39	0.00	192.44	3.30	1.87	112.75	86.94
		407.300	280.00	0.00	0.00	186.80	258.00	193.15	0.00	193.21	4.01	2.29	175.10	128.91
		407.300	280.00	0.00	0.00	186.80	309.00	193.42	0.00	193.49	4.35	2.47	202.92	148.20
		407.300	280.00	0.00	0.00	186.80	435.00	193.91	0.00	194.00	5.28	2.88	258.76	189.27
		409.300	200.00	0.00	0.00	191.00	158.00	192.95	0.00	193.33	76.08	4.96	32.66	18.11
		409.300	200.00	0.00	0.00	191.00	258.00	193.55	0.00	194.06	67.44	5.77	47.36	31.42
		409.300	200.00	0.00	0.00	191.00	309.00	193.79	0.00	194.37	67.76	6.19	53.77	37.54
	*	409.300	200.00	0.00	0.00	191.00	435.00	194.34	194.34	194.87	53.22	6.29	105.49	59.63
		410.000	70.00	0.00	0.00	194.00	108.00	194.39	0.00	194.52	256.06	3.61	39.73	6.75
		410.000	70.00	0.00	0.00	194.00	208.00	194.68	0.00	194.83	141.97	3.92	71.08	17.46
		410.000	70.00	0.00	0.00	194.00	259.00	194.86	0.00	195.00	100.84	3.85	90.45	25.79
		410.000	70.00	0.00	0.00	194.00	385.00	195.20	0.00	195.36	73.32	4.08	127.85	44.96
		413.300	330.00	0.00	0.00	196.50	108.00	198.04	0.00	198.35	97.10	4.75	27.56	10.96
	*	413.300	330.00	0.00	0.00	196.50	208.00	198.39	198.39	198.96	137.64	6.63	39.34	17.73
	*	413.300	330.00	0.00	0.00	196.50	259.00	198.59	198.59	199.22	133.33	7.05	47.09	22.43
	*	413.300	330.00	0.00	0.00	196.50	385.00	199.01	199.01	199.75	126.41	7.86	65.49	34.24
	*	413.800	50.00	0.00	0.00	209.00	108.00	210.02	210.02	210.25	140.38	5.11	35.96	9.12
	*	413.800	50.00	0.00	0.00	209.00	208.00	210.29	210.29	210.61	163.98	6.43	55.26	16.24
	*	413.800	50.00	0.00	0.00	209.00	259.00	210.41	210.41	210.76	163.53	6.81	65.83	20.25
	*	413.800	50.00	0.00	0.00	209.00	385.00	210.65	210.65	211.05	161.52	7.53	91.25	30.29
		413.850	5.00	210.00	208.10	210.00	108.00	212.41	0.00	212.41	0.34	0.44	475.68	186.20
		413.850	5.00	210.00	208.10	210.00	208.00	212.61	0.00	212.62	0.81	0.72	544.15	231.70
		413.850	5.00	210.00	208.10	210.00	259.00	212.70	0.00	212.70	1.06	0.85	573.15	252.12
		413.850	5.00	210.00	208.10	210.00	385.00	212.89	0.00	212.89	1.65	1.11	637.21	299.56
		414.700	90.00	0.00	0.00	196.00	158.00	212.41	0.00	212.41	0.00	0.04	3893.71	8801.35
		414.700	90.00	0.00	0.00	196.00	258.00	212.62	0.00	212.62	0.00	0.07	3976.77	9046.92
		414.700	90.00	0.00	0.00	196.00	309.00	212.70	0.00	212.70	0.00	0.08	4011.96	9151.78
		414.700	90.00	0.00	0.00	196.00	435.00	212.89	0.00	212.89	0.00	0.11	4089.71	9385.14
		423.700	900.00	0.00	0.00	193.00	158.00	212.41	0.00	212.41	0.00	0.04	3737.97	8697.17
		423.700	900.00	0.00	0.00	193.00	258.00	212.62	0.00	212.62	0.00	0.07	3800.57	8918.97
		423.700	900.00	0.00	0.00	193.00	309.00	212.70	0.00	212.70	0.00	0.08	3828.19	9017.36
		423.700	900.00	0.00	0.00	193.00	435.00	212.89	0.00	212.89	0.00	0.11	3889.17	9235.84

Z

AA

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
429.100	540.00	0.00	0.00	198.00	158.00	212.41	0.00	212.41	0.00	0.04	4012.23	8513.37
429.100	540.00	0.00	0.00	198.00	258.00	212.62	0.00	212.62	0.00	0.07	4134.84	8778.11
429.100	540.00	0.00	0.00	198.00	309.00	212.70	0.00	212.70	0.00	0.08	4189.01	8892.15
429.100	540.00	0.00	0.00	198.00	435.00	212.89	0.00	212.89	0.00	0.11	4313.35	9148.22
439.000	990.00	0.00	0.00	202.00	158.00	212.41	0.00	212.41	0.01	0.17	1158.33	1623.58
439.000	990.00	0.00	0.00	202.00	258.00	212.62	0.00	212.62	0.02	0.27	1238.25	1714.30
439.000	990.00	0.00	0.00	202.00	309.00	212.70	0.00	212.71	0.03	0.32	1273.22	1754.15
439.000	990.00	0.00	0.00	202.00	435.00	212.90	0.00	212.90	0.06	0.43	1352.79	1845.23
447.500	850.00	0.00	0.00	208.50	158.00	212.53	0.00	212.57	3.45	1.76	102.27	85.00
447.500	850.00	0.00	0.00	208.50	258.00	212.83	0.00	212.93	6.59	2.57	119.95	100.52
447.500	850.00	0.00	0.00	208.50	309.00	212.97	0.00	213.09	8.18	2.93	128.80	108.06
447.500	850.00	0.00	0.00	208.50	435.00	213.27	0.00	213.46	11.85	3.71	150.64	126.35
448.100	60.00	0.00	0.00	210.20	158.00	212.34	0.00	213.09	99.71	6.95	22.72	15.82
* 448.100	60.00	0.00	0.00	210.20	258.00	212.83	212.83	214.16	136.13	9.25	27.89	22.11
* 448.100	60.00	0.00	0.00	210.20	309.00	213.17	213.17	214.66	132.01	9.82	31.46	26.89
* 448.100	60.00	0.00	0.00	210.20	435.00	213.92	213.92	215.81	125.89	11.01	39.50	38.77
449.020	92.00	215.00	214.60	210.20	158.00	212.35	0.00	213.10	98.88	6.94	22.78	15.89
449.020	92.00	215.00	214.60	210.20	258.00	212.84	0.00	214.16	134.51	9.22	27.99	22.25
449.020	92.00	215.00	214.60	210.20	309.00	213.18	0.00	214.66	130.45	9.79	31.58	27.05
449.020	92.00	215.00	214.60	210.20	435.00	215.81	0.00	215.81	0.15	0.47	1515.09	1141.65
450.000	98.00	0.00	0.00	210.00	158.00	213.18	0.00	213.18	0.77	0.74	401.39	180.24
450.000	98.00	0.00	0.00	210.00	258.00	214.30	0.00	214.30	0.40	0.66	665.01	407.70
450.000	98.00	0.00	0.00	210.00	309.00	214.82	0.00	214.82	0.33	0.65	789.90	539.00
450.000	98.00	0.00	0.00	210.00	435.00	215.81	0.00	215.81	0.28	0.68	1030.31	829.17
* 450.250	25.00	0.00	0.00	210.00	158.00	212.50	212.50	213.77	144.15	9.02	17.51	13.16
* 450.250	25.00	0.00	0.00	210.00	258.00	213.47	213.47	215.22	138.12	10.63	24.28	21.95
* 450.250	25.00	0.00	0.00	210.00	309.00	215.06	215.06	215.08	1.39	1.48	374.01	262.18
450.250	25.00	0.00	0.00	210.00	435.00	215.80	0.00	215.82	1.44	1.65	478.35	362.69
* 450.780	52.50	220.00	218.80	211.90	158.00	214.42	214.42	215.70	203.67	9.06	17.44	11.07
* 450.780	52.50	220.00	218.80	211.90	258.00	215.07	215.07	217.26	358.60	11.88	21.71	13.62
* 450.780	52.50	220.00	218.80	211.90	309.00	215.62	215.62	218.10	367.84	12.65	24.44	16.11
* 450.780	52.50	220.00	218.80	211.90	435.00	216.86	216.86	220.00	390.21	14.21	30.60	22.02
451.200	42.00	0.00	0.00	214.00	158.00	215.92	0.00	215.99	21.58	3.04	94.93	34.01
451.200	42.00	0.00	0.00	214.00	258.00	217.48	0.00	217.50	3.07	1.71	253.21	147.23
451.200	42.00	0.00	0.00	214.00	309.00	218.35	0.00	218.36	1.65	1.45	352.15	240.32
451.200	42.00	0.00	0.00	214.00	435.00	220.31	0.00	220.32	0.65	1.17	611.82	539.33
451.250	5.00	222.20	214.10	214.10	158.00	224.85	0.00	224.87	0.33	1.18	208.53	276.88
451.250	5.00	222.20	214.10	214.10	258.00	225.35	0.00	225.39	0.70	1.79	230.88	307.43
451.250	5.00	222.20	214.10	214.10	309.00	225.57	0.00	225.62	0.92	2.07	241.56	322.17
451.250	5.00	222.20	214.10	214.10	435.00	226.07	0.00	226.15	1.48	2.70	266.75	357.36
352.000	158.00	172.81	0.00	0.36	0.00	49.54	73.00					
352.000	258.00	174.11	1.30	0.62	0.00	56.87	73.00					
352.000	309.00	174.71	0.60	0.77	0.00	60.26	73.00					
352.000	435.00	176.73	2.01	0.01	0.00	78.84	73.00					
357.700	158.00	173.22	0.00	0.41	0.00	50.06	570.00					

357.700	258.00	174.37	1.15	0.26	0.00	73.94	570.00
357.700	309.00	174.93	0.56	0.21	0.00	82.85	570.00
357.700	435.00	176.82	1.90	0.10	0.00	107.42	570.00
362.250	158.00	174.57	0.00	1.35	0.00	12.30	455.00
362.250	258.00	175.48	0.91	1.11	0.00	15.95	455.00
362.250	309.00	175.91	0.43	0.98	0.00	17.63	455.00
362.250	435.00	177.28	1.37	0.46	0.00	25.63	455.00
363.050	158.00	175.19	0.00	0.62	0.00	14.98	80.00
363.050	258.00	176.22	1.03	0.74	0.00	16.60	80.00
363.050	309.00	176.67	0.45	0.76	0.00	17.31	80.00
363.050	435.00	177.79	1.12	0.51	0.00	19.05	80.00
363.450	158.00	186.01	0.00	10.82	0.00	159.15	40.00
363.450	258.00	186.91	0.91	10.69	0.00	186.60	40.00
363.450	309.00	187.32	0.41	10.65	0.00	198.98	40.00
363.450	435.00	188.04	0.72	10.25	0.00	491.94	40.00
366.000	158.00	186.01	0.00	0.00	0.00	1010.40	255.00
366.000	258.00	186.92	0.91	0.01	0.00	1051.21	255.00
366.000	309.00	187.32	0.41	0.01	0.00	1069.62	255.00
366.000	435.00	188.05	0.72	0.01	0.00	1103.67	255.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
373.300	158.00	186.01	0.00	0.00	0.00	980.81	730.00
373.300	258.00	186.92	0.91	0.00	0.00	1021.46	730.00
373.300	309.00	187.32	0.41	0.00	0.00	1039.87	730.00
373.300	435.00	188.05	0.72	0.00	0.00	1200.26	730.00
378.000	158.00	186.01	0.00	0.00	0.00	410.31	470.00
378.000	258.00	186.92	0.91	0.00	0.00	442.06	470.00
378.000	309.00	187.32	0.41	0.00	0.00	456.37	470.00
378.000	435.00	188.05	0.72	0.00	0.00	481.15	470.00
382.650	158.00	186.01	0.00	0.00	0.00	400.57	465.00
382.650	258.00	186.92	0.91	0.00	0.00	459.53	465.00
382.650	309.00	187.32	0.41	0.00	0.00	486.11	465.00
382.650	435.00	188.05	0.72	0.00	0.00	530.00	465.00
387.000	158.00	186.01	0.00	0.00	0.00	292.19	435.00
387.000	258.00	186.92	0.91	0.00	0.00	311.54	435.00
387.000	309.00	187.33	0.41	0.00	0.00	320.27	435.00
387.000	435.00	188.05	0.72	0.00	0.00	335.42	435.00
390.400	158.00	186.01	0.00	0.00	0.00	260.22	340.00
390.400	258.00	186.92	0.91	0.00	0.00	279.28	340.00
390.400	309.00	187.33	0.41	0.00	0.00	287.87	340.00
390.400	435.00	188.05	0.72	0.00	0.00	303.53	340.00
392.900	158.00	186.14	0.00	0.12	0.00	74.09	250.00
392.900	258.00	186.99	0.85	0.06	0.00	195.34	250.00
392.900	309.00	187.38	0.39	0.05	0.00	251.10	250.00
392.900	435.00	188.08	0.71	0.03	0.00	544.91	250.00
395.000	158.00	186.52	0.00	0.38	0.00	55.86	210.00
395.000	258.00	187.21	0.70	0.23	0.00	104.87	210.00
395.000	309.00	187.55	0.33	0.17	0.00	128.21	210.00
395.000	435.00	188.19	0.64	0.11	0.00	168.95	210.00
395.350	158.00	186.73	0.00	0.21	0.00	13.60	35.00
395.350	258.00	187.24	0.51	0.03	0.00	13.60	35.00
395.350	309.00	187.48	0.24	-0.07	0.00	13.60	35.00
395.350	435.00	187.91	0.43	-0.28	0.00	13.60	35.00
395.580	158.00	186.78	0.00	0.05	0.00	13.60	22.70
395.580	258.00	187.39	0.60	0.15	0.00	13.60	22.70
395.580	309.00	187.71	0.33	0.24	0.00	13.60	22.70
395.580	435.00	188.57	0.85	0.66	0.00	13.60	22.70
396.300	158.00	186.81	0.00	0.02	0.00	11.40	72.00
396.300	258.00	187.41	0.60	0.02	0.00	11.40	72.00
396.300	309.00	187.73	0.32	0.01	0.00	11.40	72.00
396.300	435.00	188.55	0.82	-0.02	0.00	11.40	72.00
396.530	158.00	186.86	0.00	0.06	0.00	11.40	23.00
396.530	258.00	187.51	0.64	0.10	0.00	11.40	23.00
396.530	309.00	187.85	0.34	0.12	0.00	11.40	23.00
396.530	435.00	189.32	1.48	0.78	0.00	11.40	23.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	397.500	158.00	187.59	0.00	0.72	0.00	11.47	97.00
*	397.500	258.00	188.37	0.78	0.86	0.00	13.43	97.00
*	397.500	309.00	188.72	0.35	0.88	0.00	14.30	97.00
*	397.500	435.00	189.50	0.78	0.18	0.00	16.25	97.00
	401.550	158.00	190.88	0.00	3.29	0.00	32.03	405.00
	401.550	258.00	191.67	0.78	3.29	0.00	51.65	405.00
	401.550	309.00	192.00	0.33	3.28	0.00	59.85	405.00
	401.550	435.00	192.66	0.66	3.15	0.00	106.16	405.00
	404.500	158.00	191.97	0.00	1.09	0.00	29.38	295.00
	404.500	258.00	192.68	0.71	1.02	0.00	67.52	295.00
	404.500	309.00	192.96	0.27	0.96	0.00	82.15	295.00
	404.500	435.00	193.43	0.48	0.78	0.00	108.75	295.00
	407.300	158.00	192.39	0.00	0.42	0.00	68.32	280.00
	407.300	258.00	193.15	0.76	0.46	0.00	95.54	280.00
	407.300	309.00	193.42	0.28	0.46	0.00	105.44	280.00
	407.300	435.00	193.91	0.49	0.48	0.00	121.47	280.00
	409.300	158.00	192.95	0.00	0.56	0.00	22.26	200.00
	409.300	258.00	193.55	0.60	0.41	0.00	26.65	200.00
	409.300	309.00	193.79	0.24	0.37	0.00	28.40	200.00
*	409.300	435.00	194.34	0.55	0.43	0.00	136.82	200.00
	410.000	108.00	194.39	0.00	1.44	0.00	104.85	70.00
	410.000	208.00	194.68	0.29	1.13	0.00	108.52	70.00
	410.000	259.00	194.86	0.18	1.07	0.00	110.73	70.00
	410.000	385.00	195.20	0.34	0.86	0.00	114.87	70.00
	413.300	108.00	198.04	0.00	3.65	0.00	30.76	330.00
*	413.300	208.00	198.39	0.35	3.71	0.00	36.85	330.00
*	413.300	259.00	198.59	0.20	3.73	0.00	40.37	330.00
*	413.300	385.00	199.01	0.42	3.81	0.00	47.68	330.00
*	413.800	108.00	210.02	0.00	11.98	0.00	62.04	50.00
*	413.800	208.00	210.29	0.26	11.90	0.00	84.43	50.00
*	413.800	259.00	210.41	0.12	11.81	0.00	94.48	50.00
*	413.800	385.00	210.65	0.24	11.64	0.00	115.10	50.00
	413.850	108.00	212.41	0.00	2.39	0.00	333.35	5.00
	413.850	208.00	212.61	0.20	2.33	0.00	335.01	5.00
	413.850	259.00	212.70	0.09	2.29	0.00	335.72	5.00
	413.850	385.00	212.89	0.19	2.24	0.00	337.26	5.00
	414.700	158.00	212.41	0.00	0.00	0.00	404.12	90.00
	414.700	258.00	212.62	0.21	0.00	0.00	406.17	90.00
	414.700	309.00	212.70	0.09	0.00	0.00	407.04	90.00
	414.700	435.00	212.89	0.19	0.01	0.00	408.94	90.00
	423.700	158.00	212.41	0.00	0.00	0.00	317.52	900.00
	423.700	258.00	212.62	0.21	0.00	0.00	318.70	900.00
	423.700	309.00	212.70	0.09	0.00	0.00	319.22	900.00
	423.700	435.00	212.89	0.19	0.00	0.00	320.37	900.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
429.100	158.00	212.41	0.00	0.00	0.00	578.31	540.00
429.100	258.00	212.62	0.21	0.00	0.00	617.28	540.00
429.100	309.00	212.70	0.09	0.00	0.00	633.74	540.00
429.100	435.00	212.89	0.19	0.00	0.00	669.98	540.00
439.000	158.00	212.41	0.00	0.00	0.00	379.68	990.00
439.000	258.00	212.62	0.21	0.00	0.00	399.42	990.00
439.000	309.00	212.70	0.09	0.00	0.00	407.76	990.00
439.000	435.00	212.90	0.19	0.00	0.00	426.13	990.00
447.500	158.00	212.53	0.00	0.12	0.00	53.15	850.00
447.500	258.00	212.83	0.31	0.22	0.00	63.56	850.00
447.500	309.00	212.97	0.14	0.27	0.00	68.18	850.00
447.500	435.00	213.27	0.30	0.38	0.00	78.42	850.00
448.100	158.00	212.34	0.00	-0.18	0.00	10.60	60.00
* 448.100	258.00	212.83	0.49	0.00	0.00	10.60	60.00
* 448.100	309.00	213.17	0.34	0.20	0.00	10.60	60.00
* 448.100	435.00	213.92	0.76	0.65	0.00	10.60	60.00
449.020	158.00	212.35	0.00	0.00	0.00	10.60	92.00
449.020	258.00	212.84	0.49	0.01	0.00	10.60	92.00
449.020	309.00	213.18	0.34	0.01	0.00	10.60	92.00
449.020	435.00	215.81	2.63	1.88	0.00	399.97	92.00
450.000	158.00	213.18	0.00	0.83	0.00	234.50	98.00
450.000	258.00	214.30	1.11	1.46	0.00	238.74	98.00
450.000	309.00	214.82	0.52	1.64	0.00	240.72	98.00
450.000	435.00	215.81	0.99	0.00	0.00	244.49	98.00
* 450.250	158.00	212.50	0.00	-0.68	0.00	7.00	25.00
* 450.250	258.00	213.47	0.97	-0.83	0.00	7.00	25.00
* 450.250	309.00	215.06	1.60	0.25	0.00	132.12	25.00
450.250	435.00	215.80	0.74	-0.01	0.00	148.41	25.00
* 450.780	158.00	214.42	0.00	1.92	0.00	7.00	52.50
* 450.780	258.00	215.07	0.64	1.60	0.00	7.00	52.50
* 450.780	309.00	215.62	0.55	0.55	0.00	7.00	52.50
* 450.780	435.00	216.86	1.25	1.06	0.00	7.00	52.50
451.200	158.00	215.92	0.00	1.49	0.00	89.54	42.00
451.200	258.00	217.48	1.56	2.42	0.00	110.41	42.00
451.200	309.00	218.35	0.86	2.73	0.00	120.48	42.00
451.200	435.00	220.31	1.96	3.45	0.00	142.00	42.00
451.250	158.00	224.85	0.00	8.93	0.00	44.05	5.00
451.250	258.00	225.35	0.50	7.87	0.00	47.31	5.00
451.250	309.00	225.57	0.22	7.22	0.00	48.80	5.00
451.250	435.00	226.07	0.50	5.76	0.00	52.15	5.00

CAUTION SECNO= 397.500 PROFILE= 1 CRITICAL DEPTH ASSUMED
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CAUTION SECNO= 397.500 PROFILE= 2 CRITICAL DEPTH ASSUMED
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CAUTION SECNO= 397.500 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 397.500 PROFILE= 3 MINIMUM SPECIFIC ENERGY

Appendix C

2010 Flood Insurance Study – Hop Brook Profile

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Hobbs Brook 2								
A	160 ¹	67	410	0.4	172.6	172.6	173.6	1.0
B	760 ¹	79	232	0.7	173.4	173.4	174.4	1.0
C	1,660 ¹	21	25	6.3	176.4	176.4	176.4	0.0
Hog Brook								
A	355 ²	16	43	9.4	210.1	210.1	210.1	0.0
B	475 ²	16	58	6.9	211.6	211.6	212.2	0.6
C	608 ²	235	998	0.4	214.5	214.5	214.5	0.0
D	1,595 ²	31	54	7.5	220.5	220.5	220.5	0.0
E	2,662 ²	30	53	7.6	234.7	234.7	235.3	0.6
F	3,515 ²	22	48	8.4	238.6	238.6	238.8	0.2
Hop Brook								
A	1,910 ³	30	165	5.6	123.5	123.5	124.5	1.0
B	4,560 ³	163	724	1.3	133.6	133.6	134.3	0.7
C	6,000 ³	165	703	1.3	137.8	137.8	137.8	0.0
D	8,500 ³	125	720	1.3	138.2	138.2	138.4	0.2
E	9,830 ³	90	311	2.4	138.4	138.4	138.7	0.3
F	11,220 ³	226	914	0.8	138.7	138.7	139.1	0.4
G	12,700 ³	155	574	1.3	141.2	141.2	141.2	0.0
H	14,800 ³	325	1,443	0.5	145.7	145.7	146.3	0.6
I	16,155 ³	54	225	3.3	146.0	146.0	146.7	0.7
J	17,170 ³	45	204	3.7	146.5	146.5	147.3	0.8
K	19,050 ³	55	239	2.7	147.9	147.9	148.9	1.0
L	21,270 ³	60	239	2.6	148.8	148.8	149.8	1.0
M	22,520 ³	124	357	1.8	150.3	150.3	151.3	1.0

¹ Feet above limit of detailed study, limit of detailed study is approximately 660 feet downstream of Mill Street

² Feet above confluence with Assabet River

³ Feet above confluence with Landham-Allowance Brook

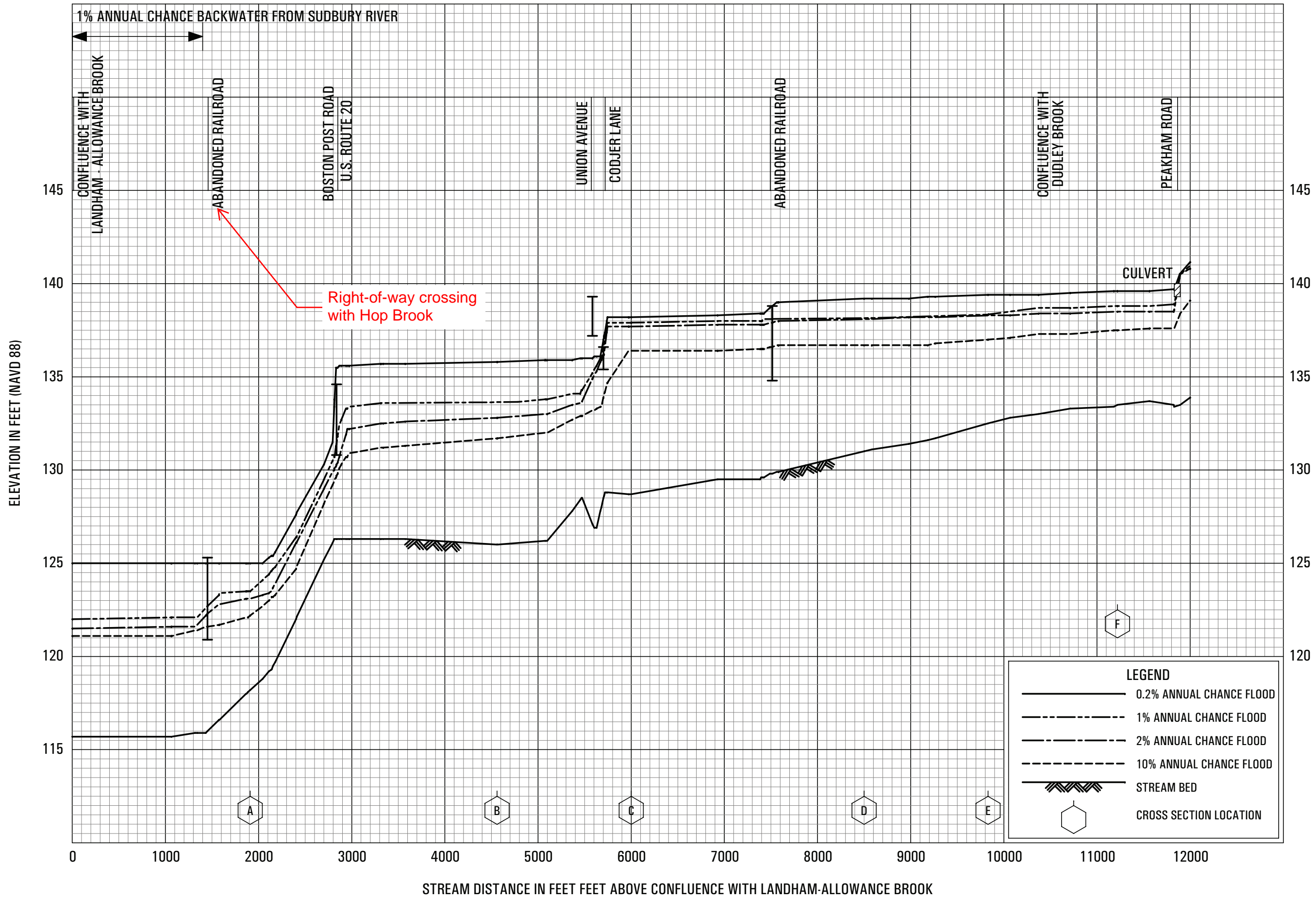
TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HOBBS BROOK 2 – HOG BROOK – HOP BROOK



FLOOD PROFILES

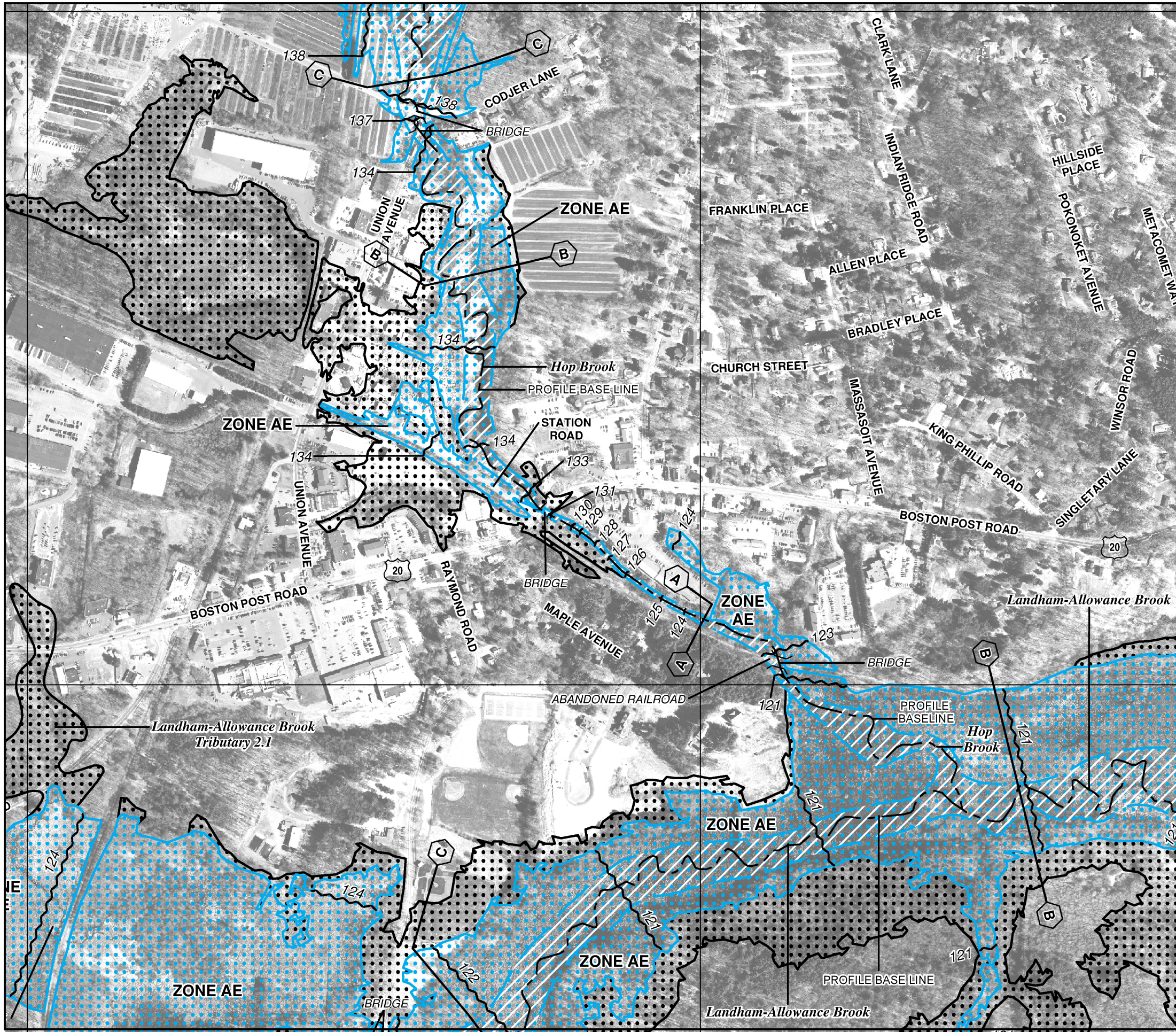
HOP BROOK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

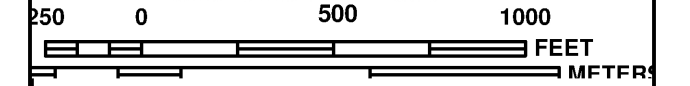
Ref: 12970.02
January 23, 2018
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Appendix D

FEMA FIRM Map No. 25017C0506F – Dated July 7, 2014



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0506F

FIRM
FLOOD INSURANCE RATE MAP
MIDDLESEX COUNTY,
MASSACHUSETTS
(ALL JURISDICTIONS)

PANEL 506 OF 656
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FRAMINGHAM, TOWN OF	250193	0506	F
SUDBURY, TOWN OF	250217	0506	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
25017C0506F
MAP REVISED
JULY 7, 2014

Federal Emergency Management Agency

46° 93' 000" N

JOINS PANEL 0507

46° 92' 000" N

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov