

UPP STR	LOW STR	L	DIA	UPPER FL LN	LOWER FL LN	PS	UPPER ST EL	DEPTH HY GR	UPPER HY EL	LOWER HY EL	HYDR GRADE	FR HEAD	VEL VEL	VEL HEAD	JUNC LOSS	TURB LOSS	CURVE LOSS	STR GRADE	INL CAP	DR AREA	PI	Q	TQ	PIPE CAP	REMARKS
53	42	103.98	12	494.00	492.96	1.00	498.50	3.50	494.59	493.96	.00420	0.44	2.95	0.14	0.19	0.00	0.00	4S	11.00	0.88	2.64	2.32	2.32	3.56	1
52	41	34.00	15	494.60	493.66	1.00	498.98	3.73	494.91	494.91	.00010	0.00	0.50	0.00	0.00	0.00	0.00	1	2.29	0.23	2.64	0.61	0.61	6.46	2
51	40	123.00	12	491.80	490.57	1.00	497.10	4.07	493.03	491.57	.00880	1.09	4.27	0.28	0.37	0.00	0.00	3S	8.25	1.27	2.64	3.35	3.35	3.56	3
50	39	115.85	12	489.50	488.34	1.00	495.10	4.60	489.94	489.34	.00380	0.44	2.79	0.12	0.16	0.00	0.00	4S	11.00	0.83	2.64	2.19	2.19	3.57	4
49	48	34.10	48	492.00	489.10	0.50	0.00	0.00	494.25	493.61	.00210	0.07	5.25	0.43	0.57	0.00	0.00		0.00	25.00	2.64	66.00	66.00	418.90	5
48	47	96.35	48	489.10	488.62	0.50	496.70	3.09	493.61	493.28	.00230	0.22	5.49	0.47	0.08	0.03	0.00	4S	11.00	1.12	2.64	2.96	68.96	101.39	6
47	46	31.51	48	488.62	488.46	0.51	496.50	3.22	493.28	492.98	.00230	0.07	5.50	0.47	0.00	0.23	0.00	4S	11.00	0.05	2.64	0.01	69.09	102.36	7
46	45	34.00	48	488.46	488.29	0.50	495.64	2.66	492.98	492.65	.00240	0.08	5.63	0.49	0.04	0.21	0.00	LOW	4.00	0.63	2.64	1.66	70.75	101.57	8
45	44	87.35	48	488.29	487.85	0.50	495.64	2.99	492.65	492.08	.00250	0.22	5.77	0.52	0.06	0.29	0.00	LOW	4.00	0.67	2.64	1.77	72.52	101.95	9
44	43	34.00	48	487.85	487.68	0.50	497.50	5.42	492.08	491.85	.00260	0.09	5.83	0.53	0.02	0.12	0.00	1.49	2.11	0.29	2.64	0.77	73.29	101.58	10
43	42	83.69	48	487.68	487.26	0.50	497.50	5.65	491.85	491.26	.00260	0.22	5.85	0.53	0.00	0.37	0.00	1.49	2.11	0.10	2.64	0.26	73.55	101.76	11
42	41	356.80	48	487.26	485.12	0.60	498.75	7.49	490.30	489.12	.00280	1.01	6.07	0.57	0.07	0.10	0.00	1.49	2.11	0.15	2.64	0.40	76.27	111.25	12
41	40	248.20	48	485.12	482.64	1.00	498.98	9.86	487.40	486.64	.00290	0.72	6.16	0.59	0.04	0.00	0.00	1	2.29	0.22	2.64	0.58	77.46	143.59	13
40	39	306.03	48	482.64	479.58	1.00	496.49	9.85	485.33	484.04	.00320	0.99	6.49	0.65	0.10	0.20	0.00	1	2.29	0.28	2.64	0.74	81.55	143.64	14
39	38	34.00	48	479.58	479.24	1.00	493.67	9.63	484.04	483.34	.00350	0.12	6.80	0.72	0.13	0.45	0.00	LOW	4.00	0.65	2.64	1.72	85.46	143.64	15
38	37	149.63	48	479.24	478.06	0.79	493.67	10.33	483.34	482.23	.00370	0.55	6.95	0.75	0.06	0.50	0.00	LOW	4.00	0.71	2.64	1.87	87.33	127.56	16
37	36	137.21	48	478.06	477.37	0.50	493.90	11.67	482.23	481.37	.00380	0.52	7.05	0.77	0.04	0.30	0.00	LOW	4.00	0.49	2.64	1.29	88.62	101.86	17
36	35	72.50	48	477.37	477.00	0.51	493.90	12.53	481.37	481.00	.00400	0.29	7.23	0.81	0.08	0.00	0.00	4S	11.00	0.86	2.64	2.27	90.89	102.62	18
																									ITP 481
34	33	141.28	12	492.50	491.09	1.00	497.90	4.40	492.76	492.09	.00360	0.51	2.72	0.12	0.16	0.00	0.00	4S	11.00	0.81	2.64	2.14	2.14	3.56	19
																									ITP 492.09
32	31	123.58	15	490.65	489.41	1.00	495.90	4.00	491.66	490.66	.00550	0.68	3.91	0.24	0.32	0.00	0.00	4S	11.00	1.82	2.64	4.80	4.80	6.47	20
31	30	34.00	18	489.21	488.87	1.00	495.64	4.93	490.56	490.37	.00380	0.13	3.67	0.21	0.04	0.02	0.00	LOW	4.00	0.64	2.64	1.69	6.49	10.50	21
30	29	67.07	18	488.67	488.00	1.00	495.64	5.47	490.34	489.51	.00710	0.48	5.02	0.39	0.32	0.03	0.00	LOW	4.00	0.90	2.64	2.38	8.87	10.50	22
29	28	25.06	18	487.80	487.55	1.00	496.00	6.49	489.51	489.05	.00810	0.20	5.35	0.44	0.10	0.16	0.00	4S	11.00	0.22	2.64	0.58	9.45	10.49	23
																									ITP 489.05
27	26	34.00	15	490.77	490.43	1.00	495.47	3.02	492.45	492.41	.00040	0.01	0.99	0.02	0.03	0.00	0.00	LOW	4.00	0.46	2.64	1.21	1.21	6.46	24
26	25	62.09	15	490.43	489.81	1.00	495.47	3.06	492.41	492.22	.00170	0.10	2.15	0.07	0.08	0.01	0.00	LOW	4.00	0.54	2.64	1.43	2.64	6.46	25
25	13	76.69	15	489.81	489.04	1.00	496.04	3.82	492.22	492.00	.00200	0.15	2.35	0.09	0.03	0.04	0.00	1	2.29	0.09	2.64	0.24	2.98	6.47	26
24	23	34.00	15	490.98	490.64	1.00	495.47	3.24	491.93	491.89	.00040	0.01	1.01	0.02	0.03	0.00	0.00	LOW	2.29	0.47	2.64	1.24	1.24	6.46	27
23	22	32.31	15	490.44	490.12	0.99	495.47	3.78	491.50	491.37	.00140	0.05	1.98	0.06	0.07	0.01	0.00	LOW	4.00	0.45	2.64	1.19	2.43	6.43	28
22	9	106.73	15	489.92	488.85	1.00	495.40	4.23	490.28	490.10	.00140	0.15	1.98	0.06	0.00	0.03	0.00		4.00	0.00	2.64	0.00	2.43	6.47	29
21	20	153.79	12	493.70	492.16	1.00	498.70	4.00	493.54	493.16	.00200	0.30	2.01	0.06	0.08	0.00	0.00	3S	8.75	0.60	2.64	1.58	1.58	3.57	30
20	19	122.83	12	491.96	490.73	1.00	497.20	4.24	492.74	491.73	.00610	0.75	3.55	0.20	0.22	0.04	0.00	4S	11.00	0.46	2.64	1.21	2.79	3.57	31
19	18	62.49	15	490.53	489.90	1.01	496.62	4.84	491.48	491.15	.00330	0.20	3.01	0.14	-0.01	0.14	0.00	1	2.29	0.34	2.64	0.90	3.69	6.49	32
18	17	34.00	15	489.70	489.36	1.00	495.99	5.04	490.85	490.61	.00360	0.12	3.15	0.15	0.02	0.10	0.00	1	2.29	0.07	2.64	0.18	3.87	6.46	33
17	6	92.52	15	489.16	488.23	1.01	495.99	5.58	490.26	489.48	.00590	0.55	4.06	0.26	0.19	0.04	0.00	1	2.29	0.42	2.64	1.11	4.98	6.48	34
16	15	118.63	12	492.25	491.06	1.00	496.75	2.16	494.59	493.78	.00500	0.60	3.22	0.16	0.21	0.00	0.00	LOW	4.00	0.96	2.64	2.53	2.53	3.57	35
15	14	79.97	15	491.06	490.26	1.00	496.20	2.42	493.78	493.06	.00550	0.44	3.91	0.24	0.21	0.07	0.00	4S	11.00	0.86	2.64	2.27	4.80	6.46	36
14	13	121.68	18	490.26	489.04	1.00	496.00	2.94	493.06	492.00	.00560	0.68	4.44	0.31	0.22	0.16	0.00	4S	11.00	1.15	2.64	3.04	7.84	10.50	37
13	12	34.00	24	489.04	488.70	1.00	496.81	4.81	492.00	491.85	.00270	0.09	3.74	0.22	-0.01	0.07	0.00	1	2.29	0.39	2.64	1.03	11.75	22.62	38
12	11	113.50	24	488.70	487.56	1.00	496.81	4.96	491.85	491.43	.00310	0.35	4.03	0.25	0.06	0.01	0.00	1	2.29	0.34	2.64	0.90	12.65	22.67	39
11	10	57.72	24	487.56	486.98	1.00	497.40	5.97	491.43	491.03	.00380	0.22	4.46	0.31	0.11	0.07	0.00	4S	11.00	0.52	2.64	1.37	14.02	22.68	40
10	9	175.55	24	486.98	485.22	1.00	497.00	5.97	491.03	490.05	.00460	0.80	4.86	0.37	0.11	0.07	0.00	3S	8.75	0.47	2.64	1.24	15.26	22.65	41
9	8	148.94	24	485.22	483.73	1.00	495.90	5.85	490.05	488.15	.00850	1.26	5.63	0.68	0.54	0.10	0.00	4S	11.00	1.19	2.64	3.14	20.83	22.63	42
8	7	83.72	27	483.73	482.89	1.00	496.50	8.35	488.15	487.73	.00510	0.42	5.54	0.48	-0.12	0.12	0.00	4S	11.00	0.46	2.64	1.21	22.04	31.02	43
7	6	59.60	27	482.89	482.49	1.01	495.10	7.37	487.73	487.28	.00510	0.20	5.54	0.48	0.00	0.25	0.00		0.00	0.00	2.64	0.00	22.04	31.13	44



7	6	59.60	27	482.89	482.49	1.01	495.10	7.37	487.75	487.28	.00510	0.20	5.54	0.48	0.00	0.25	0.00	0.00	0.00	2.64	0.00	22.04	31.13	44	
6	5	34.00	27	482.49	482.15	1.00	495.07	7.79	487.28	486.11	.00820	0.28	7.07	0.78	0.48	0.41	0.00	LOW	4.00	0.42	2.64	1.11	28.13	30.97	45
5	4	125.50	27	482.15	480.89	1.00	495.07	8.96	486.11	484.73	.00940	1.18	7.54	0.88	0.20	0.00	0.00	LOW	4.00	0.70	2.64	1.85	29.98	31.03	46
4	3	69.50	30	480.89	480.19	1.01	495.50	10.77	484.73	484.33	.00570	0.40	6.31	0.62	0.00	0.00	0.00	3S	8.75	0.38	2.64	1.00	30.98	41.16	47 484.33
2	1	111.52	30	479.12	478.06	1.00	0.00	0.00	482.32	480.50	.00710	0.79	7.02	0.77	1.03	0.00	0.00	0.00	1.33	2.64	3.50	34.48	41.11	48 ITP 480.50	