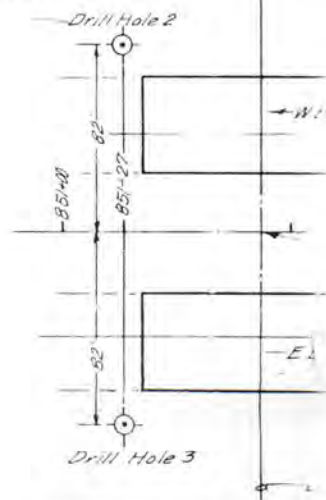
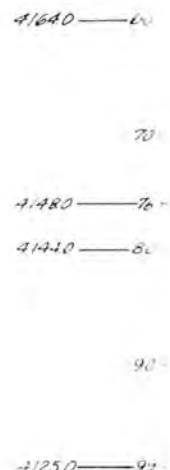
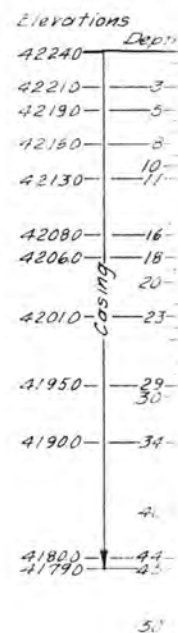
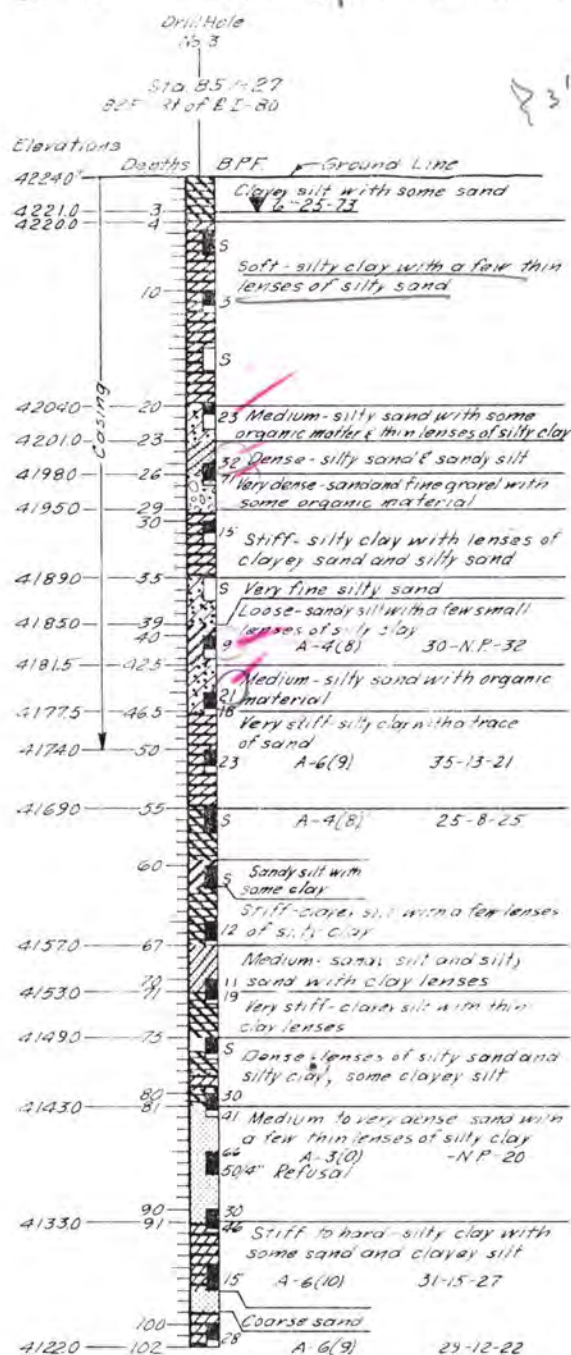
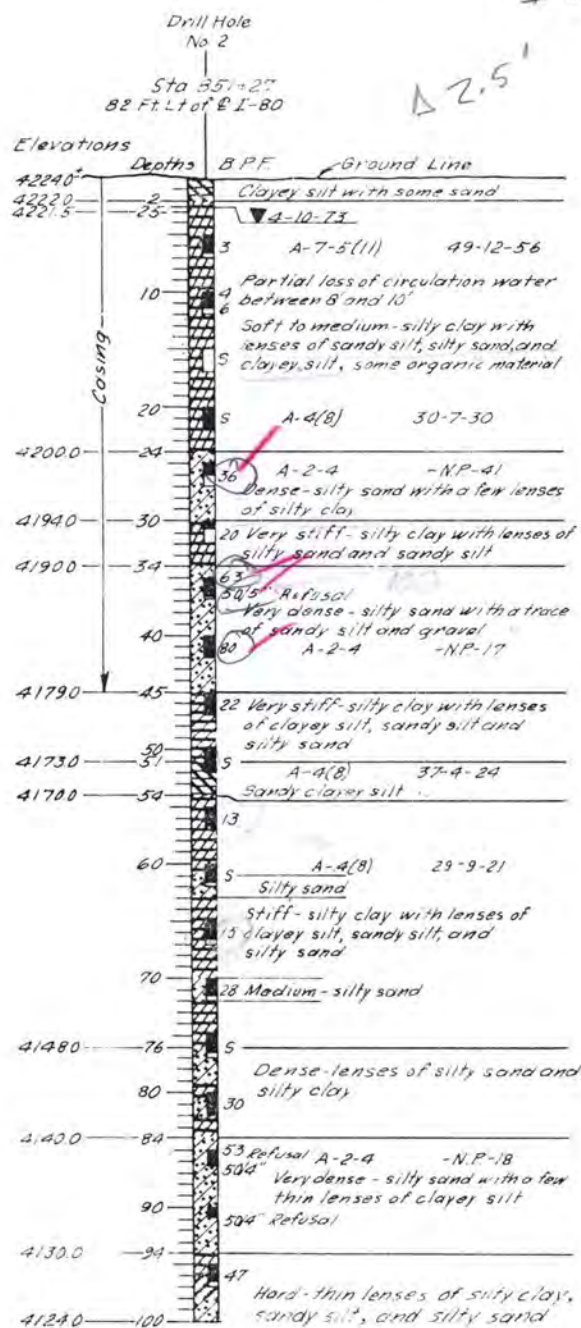


I-80-3(8)105

IN-2W-35N

Int. I-80 + RR spur near 6200 West



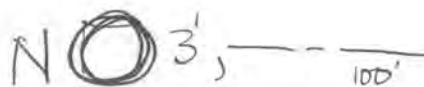
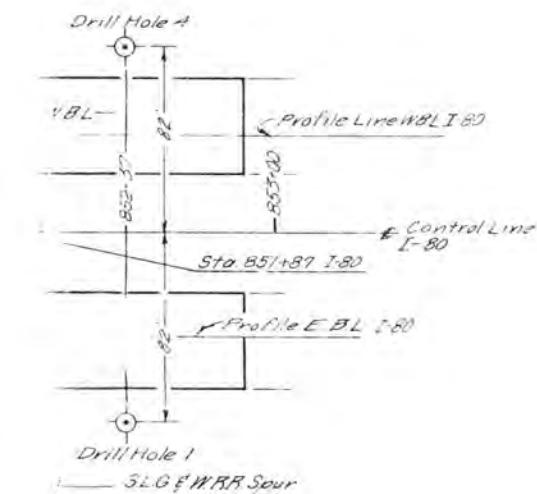


Figure 1

USGS LIQUEFACTION
STUDY

SALT LAKE COUNTY

LOCATION
1N-2W-35N

ACCELERATION REQUIRED TO INDUCE LIQUEFACTION

BORING #	DEPTH TO SAMPLE (ft) h	DEPTH TO WATER (ft) d	TOTAL UNIT WEIGHT (pcf) γ	EFFECTIVE OVERBURDEN PRESSURE (psf) P _{ov}	SPT N	CORRECTED N ₁	CYCLIC STRESS RATIO (τ'/σ' _v)	TAU _{vc} (psf)	STRESS REDUCTION COEFFICIENT r _d	σ _{max} (psf)	COMMENTS	
2	11	4	Assume 120	883	6	8.7	.097	85.6	.98	.10	<i>silty clay w/</i> lenses of sandy silt silty sand and clayey silt	
2	11	4	11	11	6	16.2	.176	155	.98	.18	(adjusted) <i>K</i>	
2	26	4	11	1747	36	38.6	>.480	>838	.94	>.44	dense silty sand	
3	25	3	11	1627	32	36 43	>.480	>781	.94	7.43 7.43	sm	
3	41	3	11	2549	9	7.8 15.3	.08 .168	203 428	.84	.076 .16	sm <i>LL=30</i> Not plastic <i>W=32</i> ←	
3	45	3	11	2779	21	17.2 24.7	.282	783	.82	.27	sm + organics	
4	17	3	11	1166	8	10.3 17.8	.113 .198	131 230	.97	.10 .18	loose silty-sand	
4	25	3	11	1627	25	27.8	.310	504	.94	.27	medium sand - some silt	
4	41	3	11	2549	40	34.7	7.480	1223	.85	.45	dense sand	
1	58	3	11	3528	9	6.2 13.7	.066 .147	232 518	.69	.07 .17	loose silty sand	
CRITICAL ACCELERATION MAP N O .16 ✓					SOILS AND GROUNDWATER MAP N 3 1 .16 35 3 3 12.5 30					CALCULATED BY: Spitz		DATE: 5-23-82

OK