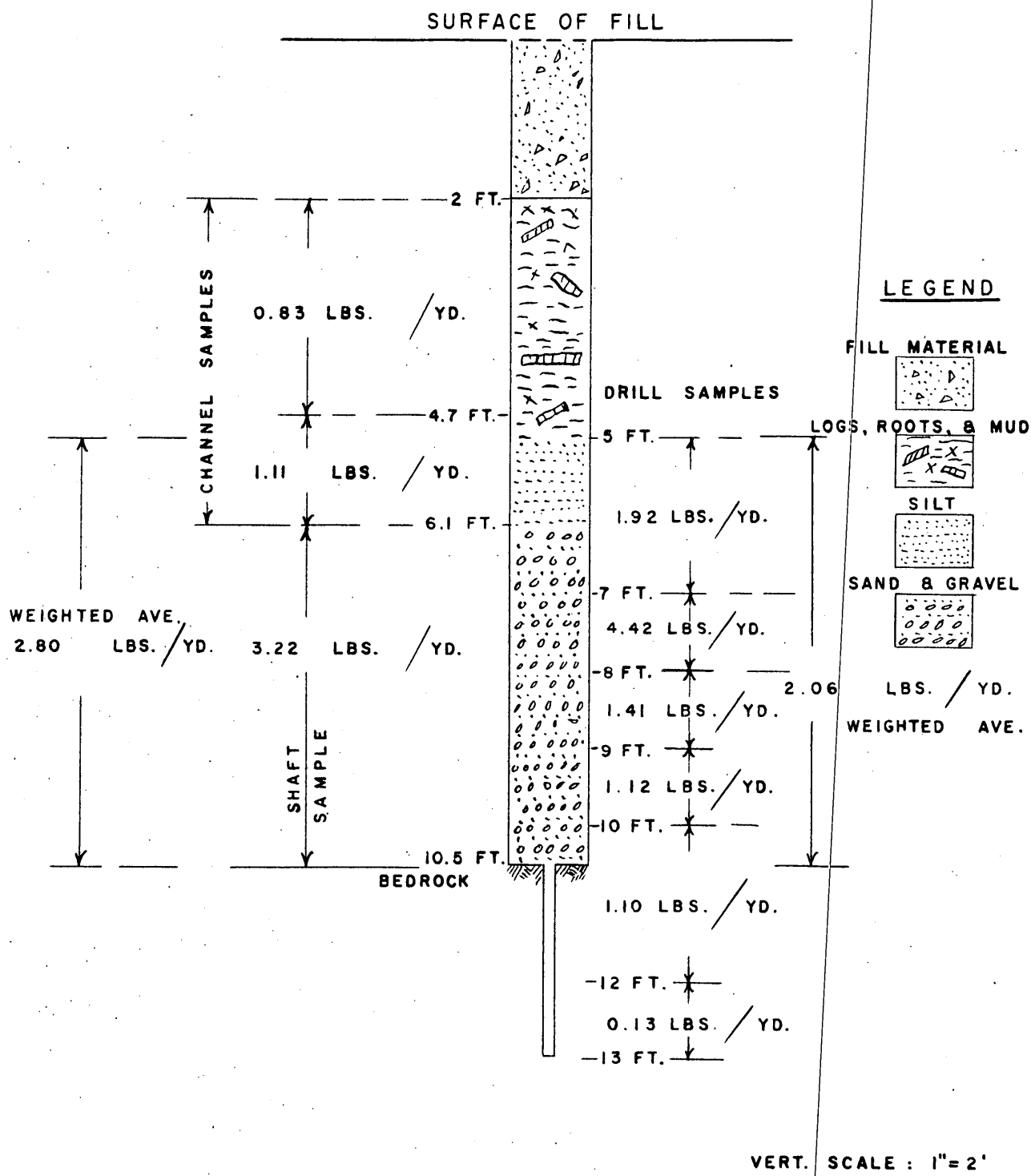
Table 3.--Reserves, pounds of contained oxides, value of contained oxides, and value per cubic yard of Dismal Swamp placer deposit, Elmore County, Idaho

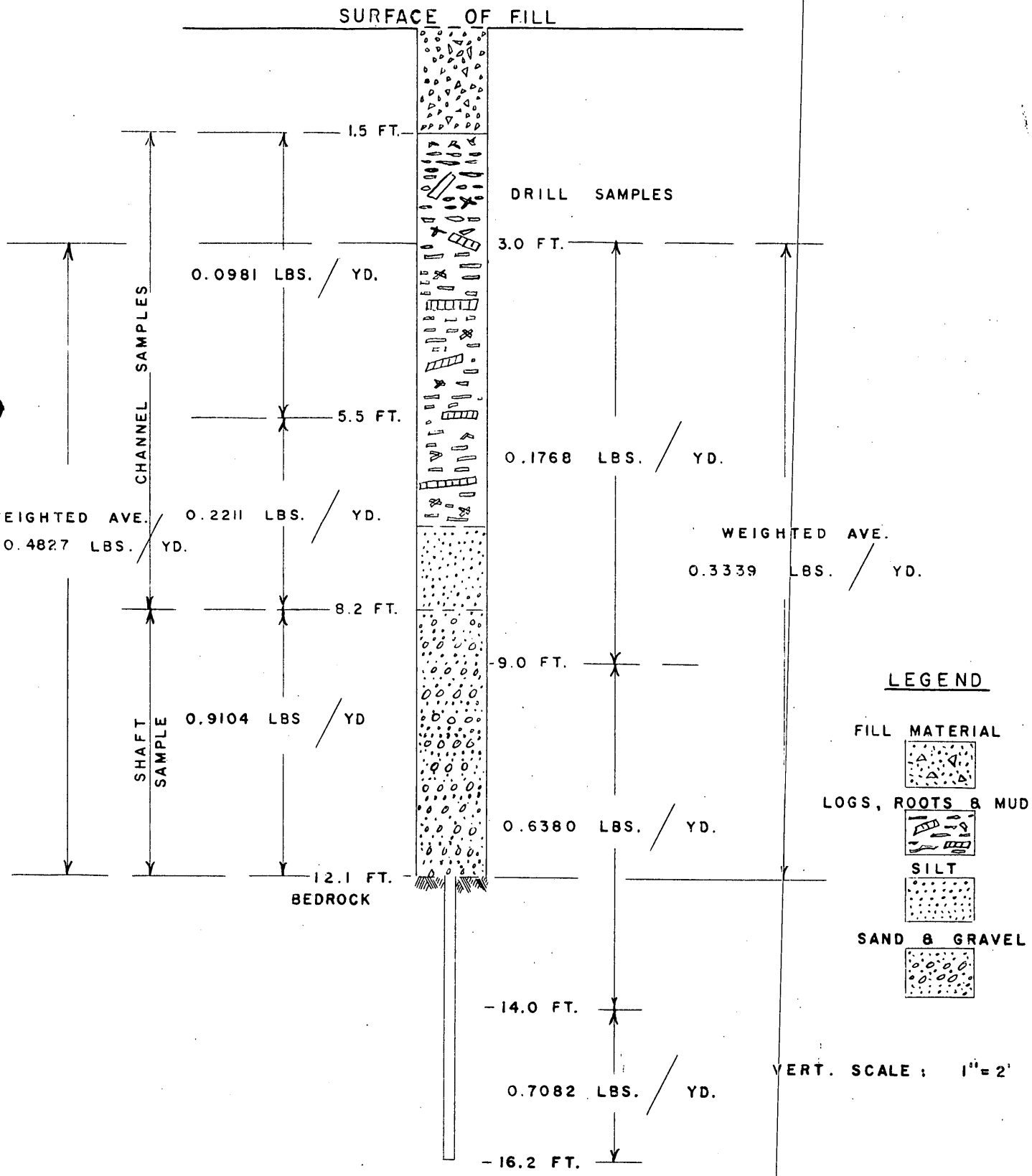
Total "indicated" reserves cubic yards	Pounds of "weakly magnetic" material per cubic yard	Total pounds of "weakly magnetic" material	Total pounds $Nb_2O_5+Ta_2O_5$ in the "weakly magnetic" material	Total pounds U_3O_8 in the "weakly magnetic" material	Value of total pounds $Nb_2O_5+Ta_2O_5$ 3/	Value of total pounds U_3O_8 4/	Total value	Value per cubic yard
34,000	1.40	47,600	6,664 1/ 9,520 5/	71.4 2/ 90.44 6/	$45,315.20 $64,736.00	$535.50 $678.30	$45,850.70 $65,414.30	$1.35 $1.92
	1.87	63,580	8,901.2 1/ 12,716.0 5/	95.37 2/ 120.80 6/	$60,528.16 $86,468.80	$715.28 $906.00	$61,243.44 $87,374.80	$1.80 $2.57

1/ Assuming the "weakly magnetic" material averages 14 percent $Nb_2O_5+Ta_2O_5$.
2/ Assuming the "weakly magnetic" material averages 0.15 percent U_3O_8.
3/ On the basis of $3.40 per pound for material containing 50 percent Nb_2O_5 Ta_2O_5.
4/ On the basis of $7.50 per pound U_3O_8. These figures do not include the 6 cent per ton-mile up to 100 miles haulage allowance.
5/ Assuming the "weakly magnetic" material averages 20 percent $Nb_2O_5+Ta_2O_5$.
6/ Assuming the "weakly magnetic" material averages 0.19 percent U_3O_8.

Recd w/ Final
field team
Report
Aug. 26, 1954



Comparison of drill — and shaft — samples Shaft One — Hole D-8



Comparison of drill — and shaft — samples Shaft Two — Hole D-4.

SAND RECOVERY (Weak Magnetics)

Hole No. D-1	Location: Dismal Swamp	Av. 3.5 Ft. 1.13 lbs/yard	Date 8-10- 53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	0	2.5	2.5	.0106		.0106	.0093	1.1398)		
2	2.5	3.5	1.0	.0051		.0051	.0046	1.1087) 1.43		
3	3.5	4.5	1.0	.0152		.0152	.0077	1.9740)		
4	4.5	5.5	1.0	.0059		.0059	.0108	0.5463		
5	5.5	6.5	1.0	.0097		.0097	.0370	0.2622		
					Bedrock	3.5'				

SAND RECOVERY (Weak Magnetics)

Hole No. D-2	Location: Dismal Swamp	Av. 7.0 Ft. 0.16 lbs/yard	Date 8-11-53

Sample Number	Depth From	Depth To	Footage	Recovered Sand	Recovered Sludge	Recovered Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	2.5	5.7	3.2	Tr.			.0061			
2	5.7	7.5	1.8	.0026		.0026	.0092	0.2826		
3	7.5	8.5	1.0	.0011		.0011	.0063	0.1746		
4	8.5	9.5	1.0	.0011		.0011	.0078	0.1410		
5	9.5	10.0	0.5	.0007		.0007	.0062	0.1129		
6	10.0	11.0	1.0	.0016		.0016	.0125	0.1280		
7	11.0	12.2	1.2				.0097			
Sludge	2.5	12.2	9.7	Discarded						
				Bed rock	9.5 ft.					

SAND RECOVERY (Weak Magnetics)

Hole No. D-3	Location: Dismal Swamp	Av. 6.0 Ft. 0.31 lbs/yard	Date 8-11-53

Sample Number	Depth From	Depth To	Footage	Recovered Sand	Recovered Sludge	Recovered Total Lbs.	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	3	5	2	.0004		.0004	.0046	.0869		
2	5	6	1	.0011		.0011	.0085	.1294		
3	6	7	1	.0060		.0060	.0054	1.1111		
4	7	8	1	.0024		.0024	.0062	.3871		
5	8	9	1				.0077	None		
6	9	10	1				.0077	None		
7	10	11	1				.0085	None		
8	11	12	1				.0092	None		
Sludge	3	12	9		None					

SAND RECOVERY (Weak Magnetics)

Hole No. D-4	Location: Dismal Swamp	Av. 11.0 Ft. 0.45 lbs/yard	Date 8-15-53

Sample Number	Depth From	Depth To	Footage	Recovered Sand	Recovered Sludge	Recovered Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	3	5	2)							
2	5	6	1)							
3	6	7	1)							
4	7	8	1)							
5	8	9	1)	.0026	.0030	.0056	.0317	0.1768		
6	9	10	1)							
7	10	11	1)							
8	11	12	1)							
9	12	13	1)							
10	13	14	1)	.0264	.0025	.0289	.0453	.06380		
11	14	15	1)							
12	15	16.17	1.17)	.0016	.0011	.0127	.0179	0.7082		
Sludge	3	16.17	13.17		.0066					

Bedrock 12.1 ft. (Taken from shaft)

Sludge Cons. $\frac{.0066}{13.17}$ = 0.0005013 lbs/ft. of drive

SAND RECOVERY (Weak Magnetics)

Hole No. D-5	Location: Dismal Swamp	Av. 7.0 Ft. 0.97 lbs/yard	Date 8-14-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total lbs.	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7.5	2.5)							
2	7.5	10.0	2.5)	.0187	.006186	.024886	.0376	.6617)		
								)0.92		
3	10	11	1.0)					)		
4	11	12	1.0)	.0290	.002474	.031474	.0203	1.5512)	12.3	0.19
5	12	13	1.0)							
6	13	14	1.0)	.0165	.002474	.018974	.0234	0.8117		
7	14	16	2.0	.0464	.002474	.048874	.0434	1.1251		
8	16	17	1.0	.0158	.001237	.017037	.0155	1.0959		
9	17	18	1.0)							
10	18	18.5	0.5)	.0211	.001855	.022955	.0233	.9844		
Sludge	5	18.5	13.50		.0167					
						Bedrock 12.5 ft.				
Sludge	.0167 =	.00123704 lbs/ft. of drive								
Cons.	13.5									

SAND RECOVERY (Weak Magnetics)

Hole No. D-6	Location: Dismal Swamp	Av. 9.0 Ft. 1.06 lbs/yard	Date 8-20-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1	.0047	.00053	.0052	.0071	.7355)		
2	6	7	1)					)		
3	7	8	1)					)		
4	8	9	1)					)		
5	9	10	1)					)1.10		
6	10	11	1)	.0198	.00269	.0225	.0449	.5013)		
7	11	12	1)					)		
8	12	13	1)					)		
9	13	14	1)	.0510	.00162	.0526	.0237	2.2217)		
10	14	15	1	.0046	.00053	.0051	.0094	0.5445		
11	15	16	1)							
12	16	17	1)	.0108	.00108	.0119	.0266	4.4666		
13	17	18	1	.0066	.00053	.0071	.0093	.7664		
Sludge	5	18	13		.0070					
						Bedrock	14.5 ft.			
Sludge Cons.	$\frac{.0070}{13}$ =	.0005385 lbs/ft	of drive							

SLUD RECOVERY (Weak Magnetics)

Hole No. D-7				Location: Dismal Swamp			Av. 10.0 Ft. 0.57 lbs/yard			Date 8-21-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7.5	2.5							
2	7.5	9.0	1.5	.0077	.0031	.0108	.0244	.4434		
3	9	10	1							
4	10	11	1	.0053	.0016	.0069	.0172	.3985		
5	11	12	1					0.54		
6	12	13	1							
7	13	14	1							
8	14	15	1	.0282	.0031	.0313	.0445	.7042	4.2	.0296
9	15	16	1							
10	16	17	1	.0101	.0016	.0117	.0195	.5969		
Sludge	5	17	12		.0094					
Sludge Cons.			$\frac{.0094}{12}$ =	.00078 lbs/ft. of drive						
						Bedrock 15.0 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-8	Location: Dismal Swamp	Av. 5.0 Ft. 2.4 lbs/yard	Date 8-24-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2	.0262	.0019	.0281	.0147	1.9185)		
2	7	8	1	.0519	.0010	.0529	.0120	4.4199)	1.9	.0840
3	8	9	1	.0072	.0010	.0082	.0058	1.4105) 2.16		
4	9	10	1	.0090	.0010	.0100	.0089	1.1228)		
		10½						) 2.06 corrected for Shaft No. 1		
5	10	11	1)							
6	11	12	1)	.0143	.0019	.0152	.0139	1.0962	0.4	.0044
7	12	13	1	Tr.	.0010	.0010	.0079	.1265		
Sludge	5	13	8		.0077					
Sludge Cons:		$\frac{.0077}{8}$	=.00096 lbs.			Bedrock - -	10.5 feet			

SAND RECOVERY (Weak Magnetics)

Hole No. D-9				Location: Dismal Swamp			Av. 7.0 Ft. 1.8 lbs/yard			Date 8-25-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2							
2	7	8	1	.0296	.0047	.0343	.0241	1.4232		
3	8	9	1							
4	9	10	1					1.74		
5	10	11	1							
6	11	12	1	.0684	.0063	.0747	.0378	1.9762		
7	12	13	1	.0088	.0016	.0104	.0091	1.1428		
Sludge	5	13	8		.0126					
						Bedrock	= 12.0 ft.			
Sludge	Cons:	$\frac{.0126}{8}$	= .001575	lbs/ft. of	drive					

SAND RECOVERY (Weak Magnetics)

Hole No. D-10				Location: Dismal Swamp			Av. 4.0 Ft. 1.6 lbs/yard			Date 8-25-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1	.0101	.00077	.0109	.0076	1.4323)		
2	6	7	1	.0222	.00077	.0230	.0099	2.3194)		
3	7	8	1	.0068	.00077	.0076	.0068	1.1101) 1.58	0.9	0.014
4	8	9	1	.0180	.00077	.0188	.0130	1.4448)		
5	9	10	1	.0042	.00077	.0050	.0122	0.4065		
6	10	11	1	.0055	.00077	.0063	.0099	0.6329		
Sludge	5	11	6		.0046					
						Bedrock 9.5	ft.			
Sludge Cons.	$\frac{.0046}{6}$	=.0007666	lbs./ft. of drive							

SAND RECOVERY (Weak Magnetics)

Hole No. D-11	Location: Dismal Swamp	Av. 5.0 Ft. 0.2 lbs/yard	Date 8-26-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2	.0015	.00225	.00375	.0106	.3538		
2	7	8	1)							
3	8	9	1)							
4	9	10	1)	.0016	.003375	.004975	.0298	.1669		
5	10	11	1)							
6	11	12	1)							
7	12	13	1)	.0027	.003375	.026075	.0283	.9214		
Sludge	5	13	8		.0090					

Sludge Cons: $\frac{.0090}{8}$ = .001125 lbs/ft. of drive

Bedrock 10 ft.

SAND RECOVERY (Weak Magnetics)

Hole No. D-12	Location: Dismal Swamp	Av. 6.0 Ft. 1.0 lbs/yard	Date 8-28-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	Nb_2O_5 + Ta_2O_5 Percent	Lbs. oxide per cu. yd.
1	5	7	2)							
2	7	8	1)	.0256	.00387	.02947	.0254	1.1602)		
3	8	9	1)					)		
4	9	10	1)					) 1.06		
5	10	11	1)	.0272	.00387	.03107	.0323	.9619)		
6	11	12	1)							
7	12	13	1)	.0096	.00257	.01217	.0208	.5851		
Sludge	5	13	8		.0103					
Sludge Vol: $\frac{.0103}{8}$ = .0012875 lbs/ft. of drive										
						Bedrock 10.0 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-13				Location: Dismal Swamp			Av. 9.0 Ft. 1.3 lbs/yard			Date 8-28-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total lbs.	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2)					)		
2	7	8	1)	.0111	.00341	.01451	.0181	0.8017)		
3	8	9	1)					)		
4	9	10	1)					) 1.24		
5	10	11	1)					)		
6	11	12	1)					)		
7	12	13	1)					)		
8	13	14	1)	.0819	.00682	.08872	.0609	1.4568)		
9	14	15	1)							
10	15	16	1)	.0145	.00227	.01677	.0167	1.0042		
Sludge	5	16	11		.0125					
						Bedrock	14.0 ft.			
Sludge Cons:	$\frac{.0125}{11}$ = .0011363 lbs/ft. of drive									

SAND RECOVERY (Weak Magnetics)

Hole No. D-14				Location: Dismal Swamp			Av. 6.0 Ft. 1.0 lbs/yard			Date 9-5-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	4	6	2)							
2	6	7	1)	.0102	.0017	.0119	.0189	.6296		
3	7	8	1)							
4	8	9	1)							
5	9	10	1)	.0331	.0017	.0348	.0259	1.3436		
6	10	11	1)							
7	11	12	1)	.0220	.0035	.0255	.0177	1.4407		
Sludge	4	10	6		.0034					
"	10	12	2		.0035					
Sludge	Cons.	$\frac{.0034}{6}$	= .000567	lbs/ft. of drive						
		$\frac{.0035}{2}$	= .00175	lbs/ft. of drive						
						Bedrock 10.0 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-15	Location: Dismal Swamp	Av. 4.0 Ft. 0.6 lbs/yard	Date 9-7-52

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total Lbs.	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2)			)				
2	7	8	1)			)				
3	8	9	1)	.0159	.0031	.0190)	.0292	.6507		
Sludge	5	9	4		.0031					
						Bedrock 7 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-16	Location: Dismal Swamp	Av. 7.0 Ft. 0.9 lbs/yard	Date 9-7-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	lbs. oxide per cu. yd.
1	5	6	1							
2	6	7	1							
3	7	8	1	.0143	.0031	.0174	.0248	.7016		
4	8	9	1							
5	9	10	1							
6	10	11	1							
7	11	12	1	.0274	.0042	.0316	.0299	1.0569		
8	12	13	1							
9	13	14	1	.0118	.0026	.0144	.0168	.8571		
Sludge	5	12	7		.0073					
"	12	14	2		.0026					
Sludge Cons.:		$\frac{.0073}{7}$	= .001043 lbs/ft. of drive							
		$\frac{.0026}{2}$	= .0013 " " " "							
						Bedrock	12.0 ft.			

SAND RECOVERY (Weak Magnetics)

Hole No. D-17				Location: Dismal Swamp			Av. 5.0 Ft. 1.1 lbs/yard			Date 9-8-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2)							
2	7	8	1)							
3	8	9	1)							
4	9	10	1)	.0386	.0020	.0406	.0383	1.0601		
5	10	11	1	.0063	.0022	.0085	.0224	0.3795		
Sludge	5	10	5		.0020					
Sludge	10	11	1		.0022					
						Bedrock	10.0 ft.			

SAND RECOVERY (Weak Magnetics)

Hole No. D-18				Location: Dismal Swamp			Av. 8.0 Ft. 0.7 lbs/yard			Date 9-8-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1							
2	6	7	1							
3	7	8	1							
4	8	9	1	.0100	.00325	.01325	.0332	.3991		
5	9	10	1							
6	10	11	1							
7	11	12	1							
8	12	13	1	.0273	.00325	.03055	.0309	.9887		
9	13	14	1							
10	14	15	1	.0260	.0033	.0293	.0216	1.3565		
Sludge	5	13	8		.0065					
"	13	15	2		.0033					
Sludge	Cons.	$\frac{.0065}{8}$	= .0008125 lbs/ft. of drive							
						Bedrock 12.0 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-19				Location: Dismal Swamp			Av. 6.0 Ft. 0.7 lbs/yard			Date 9-9-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	lbs. oxide per cu. yd.
1	5	6	1							
2	6	7	1	.0080	.0017	.0097	.0126	.7698		
3	7	8	1							
4	8	9	1							
5	9	10	1							
6	10	11	1	.0148	.0035	.0183	.0275	.6654		
7	11	12	1							
8	12	13	1	.0089	.0022	.0111	.0170	.6529		
Sludge	5	11	6		.0052					
"	11	13	2		.0022					
Sludge	Cons.	$\frac{.0052}{6}$	= .000867	lbs./ft. of	drive					
						Bedrock 11.0	ft.			

SAND RECOVERY (Weak Magnetics)

Hole No. D-20	Location: Dismal Swamp	Av. 6.0 Ft. 0.7 lbs/yard	Date 9-10-53

Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	lbs. oxide per cu. yd.
1	5	6	1							
2	6	7	1	.0080	.0019	.0099	.01877	.5274		
3	7	8	1							
4	8	9	1							
5	9	10	1							
6	10	11	1	.0238	.0038	.0276	.03831	.7204		
7	11	12	1	.0045		.0045	.01139	.3951		
Sludge	5	11	6		.0057					
"	11	12	1	Combined with sand sample.						

Sludge Vol.: $\frac{.0057}{6}$ = .00095 lbs./ft. of drive

Bedrock 11.0 ft.

SAND RECOVERY (Weak Magnetics)

Hole No. D-21				Location: Dismal Swamp			Sand only Av. 6.0 Ft. 2.5 lbs/yard			Date 9-10-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1	.0024)	Sludge sample lost	.0024	.00386	.6217)		
2	6	7	1)	)				)		
3	7	8	1)	)				)		
4	8	9	1)	)				) 2.45		
5	9	10	1)	)				)		
6	10	11	1)	.0781)		.0781	.02777	2.8123)		
7	11	12	1	.0075		.0075	.0062	1.2096		
Sludge	5	11	6	Sample Missing						
"	11	12	1	Combined with sand sample						
						Bed rock	11.0 ft.			

SAND RECOVERY (Weak Magnetics)

Hole No. D-22				Location: Dismal Swamp			Av. 8.0 Ft. 2.7 lbs/yard			Date 9-11-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1)					)		
2	6	7	1)					)		
3	7	8	1)					)		
4	8	9	1)					)		
5	9	10	1)	.0192	.0059	.0251	.0292	.8596) 2.36		
6	10	11	1)					)		
7	11	12	1)					)		
8	12	13	1)	.1201	.0036	.1237	.0255	4.8509)		
9	13	14	1)							
10	14	15	1)	.0251	.0018	.0269	.0200	1.3450		
Sludge	5	13	8		.0095					
"	13	15	2		.0018					
						Bedrock 13.0 ft.				

Sludge Cons.: $\frac{.0092}{8}$ = .0011875 lbs/ft. of drive

SAND RECOVERY (Weak Magnetics)

Hole No. D-23				Location: Dismal Swamp			Av. 7.0 Ft. 1.0 lbs/yard			Date 9-11-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	6	1							
2	6	7	1							
3	7	8	1	.0100	.0023	.0123	.0201	.6119		
4	8	9	1					1.01		
5	9	10	1							
6	10	11	1							
7	11	12	1	.0343	.0031	.0374	.0286	1.3077		
8	12	13	1							
9	13	14	1	.0109	.0021	.0130	.0101	1.2871		
Sludge	5	12	7		.0054					
"	12	14	2		.0021					
Sludge Cons.		$\frac{.0054}{4}$ = .00077 lbs/ft. of drive								
						Bedrock 12.0	ft.			

SAND RECOVERY (Weak Magnetics)

Hole No. D-24				Location: Dismal Swamp			Av. 9.0 Ft. 1.8 lbs/yard			Date 9-12-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	0	5	5							
2	5	6	1	.0160	.0032	.0192	.0293	.6553		
3	6	7	1							
4	7	8	1							
5	8	9	1	.0795	.0016	.0811	.0263	3.0837		
6	9	10	1	.0079		.0079	.0054	1.4630		
Sludge	0	9	9		.0048					
"	9	10	1	Combined with sand sample.						
Sludge Cons.:		$\frac{.0048}{9}$	= .00053							
						Bedrock 9.0 ft.				

SAND RECOVERY (Weak Magnetics)

Hole No. D-25				Location: Dismal Swamp			Av. 6.0 Ft. 0.6 lbs/yard			Date 9-12-53
Sample Number	Depth From	Depth To	Footage	Sand	Sludge	Total lbs.	Cubic Yards	Pounds per Cubic Yard	$Nb_2O_5+Ta_2O_5$ Percent	Lbs. oxide per cu. yd.
1	5	7	2							
2	7	8	1	.0034	.0014	.0048	.0128	.3750		
3	8	9	1							
4	9	10	1							
5	10	11	1	.0105	.0014	.0019	.0159	.7484		
6	11	12	1							
7	12	13	1	.0089	.0027	.0116	.0123	.9430		
Sludge	5	11	6		.0029					
"	11	13	2		.0027					
							Bedrock 11.0 ft.			
Sludge Cons.		$\frac{.0029}{6}$	= .000483 lbs/ft. of drive							

Channel Samples

Shaft No.	Sample No.	Cubic feet	Fraction of cubic yard	Total pounds	Pounds magnetite	Pounds "Magnetic" fraction	Lbs. "weakly magnetic" fraction	Lbs. "non-magnetic" fraction	Pounds of "weakly magnetic" material per cubic yard
2	1	0.44	0.0163	18	Tr.	0.0012	0.0016	0.0042	0.0981
	2	0.33	0.0122	18	0.0002	0.0014	0.0027	0.0040	0.2211
1	3	0.54	0.0200	44	0.0002	0.0018	0.0166	0.0238	0.8300
	4	0.37	0.0137	35	0.0002	0.0066	0.0152	0.0288	1.1095
	5			24	0.0001	0.0033	0.0153	0.0189	2.1263
	6			27	0.0005	0.0016	0.0032	0.0007	0.0700
	7			48	0.0030	0.0179	0.0973	0.0660	3.7125
	8			22	0.0052	0.0042	0.0062	0.0172	2.1109

Hole : Shaft One
Location : Dismal Swamp
Pounds of table concentrates : 94 pounds from 1.89 cubic yards of gravel
Pounds of table concentrates separated magnetically : 11.46

Pounds of "weakly magnetic" material per cubic yard of gravel : 3.22

"Weakly magnetic" fraction

Size fractions	Black sand concentrate pounds	"Magnetite" fraction pounds	"Magnetic" fraction pounds	"Weakly magnetic" fraction pounds	"Non-magnetic" fraction pounds	Total
	11.46	9.1563	.3541	1.0109	.9371	
+48 mesh	.2383		.0159	.2221	.0003	
-48 +65	.1676		.0203	.1455	.0018	
-65 +100	.3095		.0481	.2307	.0307	
-100 mesh	.2955		.0783	.1439	.0733	
TOTALS	1.0109	9.1563	.5167	.7422	1.0432	11.4584
Percent of	11.46 lb. sample	79.9 percent	4.5 percent	6.5 percent	9.1 percent	100.
		(6.5 percent) (94 pounds) = 6.09 pounds "weakly magnetic"				

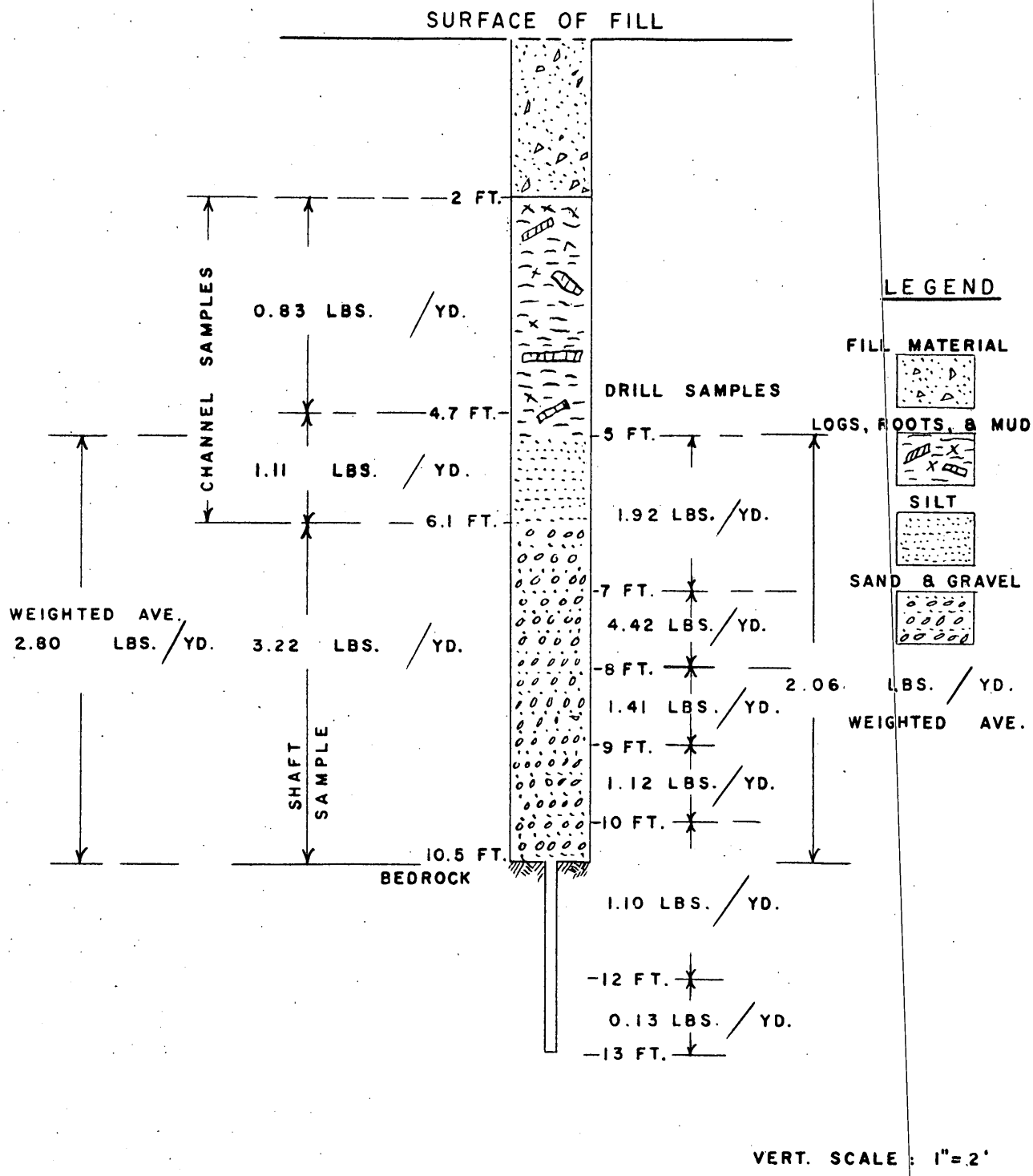
Hole : Shaft Two
Location : Dismal Swamp
Pounds of table concentrates : 6.3532 from 2.4 cubic yards of gravel

Pounds of table concentrates separated magnetically : 6.3532

Pounds of "weakly magnetic" material per cubic yard of gravel : 0.91

Size fractions	Black sand concentrate pounds	"Magnetite" fraction pounds	"Magnetic" fraction pounds	"Weakly magnetic" fraction pounds	"Non-magnetic" fraction pounds	Total
	6.3532	0.9375	0.5692	2.9090	1.9375	
"Weakly magnetic" fraction						
+48 mesh	0.4788		0.0086	0.4616	0.0086	
-48 +65	0.5209		0.0378	0.4610	0.0221	
-65 +100	0.9694		0.1963	0.6818	0.0913	
-100 mesh	0.9399		0.1660	0.5807	0.1932	
TOTALS	2.9090	0.9375	0.9779	2.1851	2.2527	6.3532
Percent of 6.3532 pounds sample	14.7		15.4	34.4	35.5	100.

$\frac{2.1851 \text{ pounds of "weakly magnetic" material}}{2.4 \text{ cubic yards}} = 0.9104$ pounds of "weakly magnetic" material per cubic yard



Comparison of drill — and shaft — samples Shaft One — Hole D-8

Recd. w/ Operator's
final Report

SECRETARY

BUREAU NO. 322

DUPLICATING NO. 42109

TO Draft

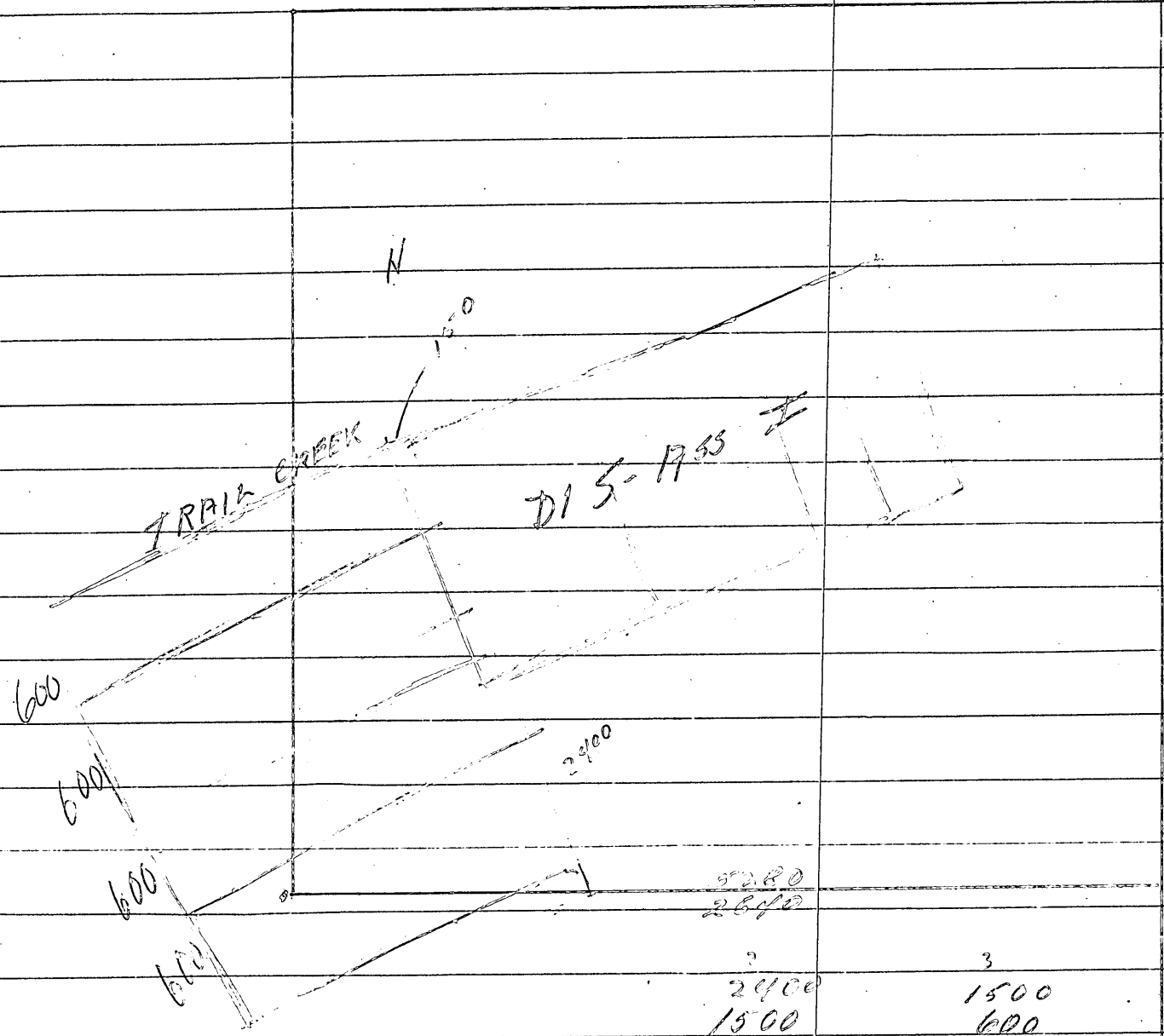
ROOM NO. 1640

BUNDLES ?

1" = 1000

Dismal Assoc. Group I

6 claims - 600' x 1500 - sec. 34



5280
2640

2400
1500

1500
600

1 acre = 43,560 sq. ft.

12600000
2400
3600000

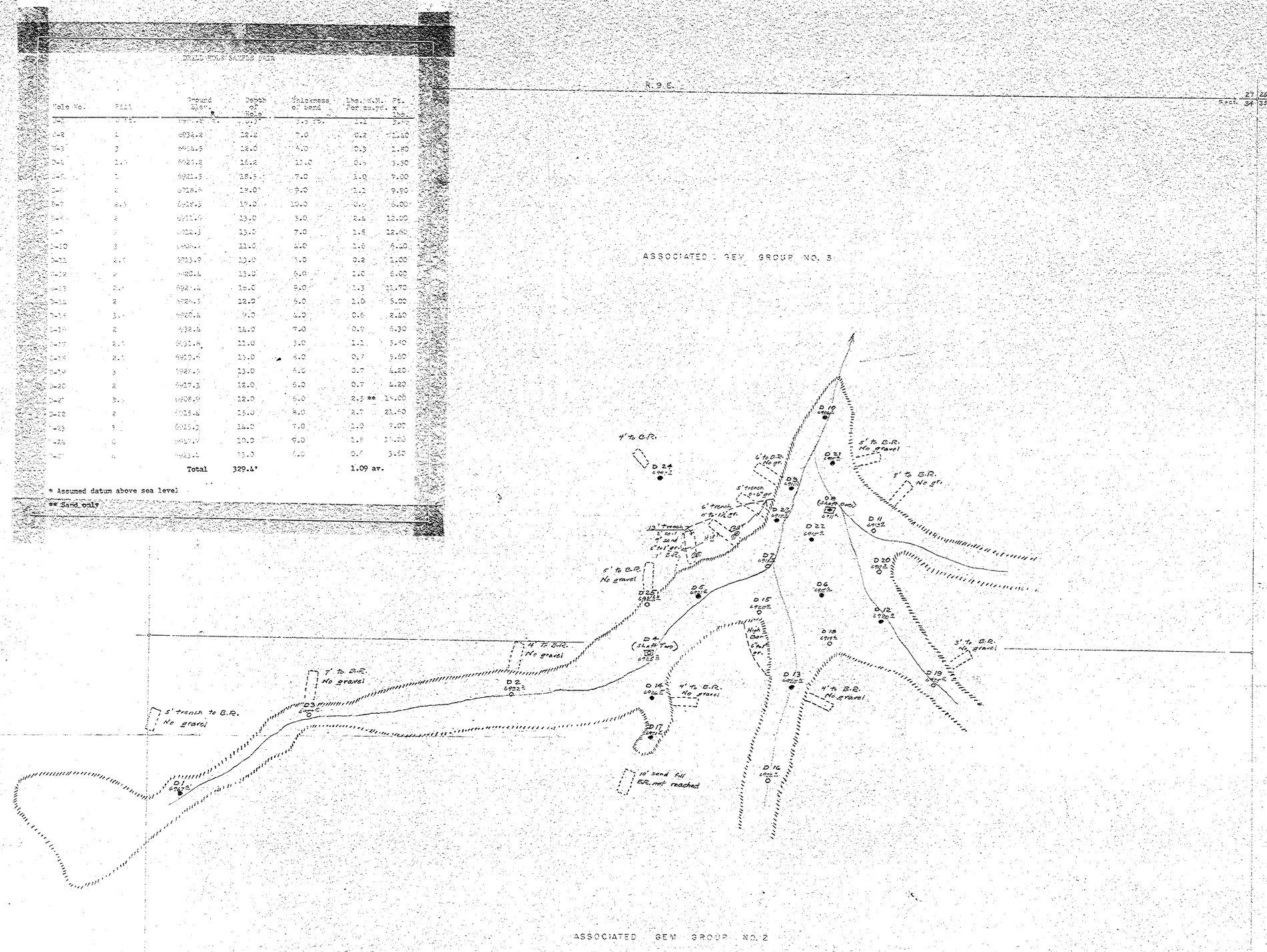
900,000 / 43,560 = 20.66 ACRES

DRILL HOLE SAMPLE DATA

Hole No.	Fill	Ground Elev.	Depth of Hole	Thickness of sand	Lbs. W.M. Per cu.yd.	Ft. x Lbs.
D-1	[illegible]	[illegible]	[illegible]	5.5 [illegible]	1.2	[illegible]
D-2	1	6934.2	12.2	7.0	0.2	1.40
D-3	3	6934.5	12.0	4.0	0.3	1.20
D-4	1.[illegible]	6921.2	16.2	11.0	0.5	5.50
D-5	1	6921.5	18.5	7.0	1.0	7.00
D-6	2	6918.6	18.0	9.0	1.1	9.90
D-7	2.5	6918.5	17.0	10.0	0.6	6.00
D-8	2	6911.6	13.0	5.0	2.4	12.00
D-9	[illegible]	6912.3	15.0	7.0	1.8	12.60
D-10	3	6908.7	11.0	4.0	1.6	6.40
D-11	2.5	6913.9	10.0	5.0	0.2	1.00
D-12	2	6920.4	13.0	6.0	1.0	6.00
D-13	2.[illegible]	6921.4	16.0	9.0	1.3	11.70
D-14	2	6924.5	12.0	6.0	1.0	6.00
D-15	3.[illegible]	6920.4	9.0	4.0	0.6	2.40
D-16	2	6932.4	16.0	7.0	0.9	6.30
D-17	2.5	6931.8	11.0	5.0	1.1	5.40
D-18	2.[illegible]	6919.4	15.0	8.0	0.7	5.60
D-19	3	6928.5	13.0	6.0	0.7	4.20
D-20	2	6917.3	12.0	6.0	0.7	4.20
D-21	3.[illegible]	6908.9	12.0	6.0	2.5 **	14.00
D-22	2	6925.4	15.0	8.0	2.7	21.60
D-23	3	6915.3	14.0	7.0	1.0	7.00
D-24	0	6917.7	10.0	9.0	1.9	17.10
D-25	4	6923.1	15.0	6.0	0.6	3.60
		Total	329.4'		1.09 av.	

* Assumed datum above sea level

** Sand only



EXPLANATION

D 5 Number of hole
6921.5 Ground elevation
● Hole with > 1 lb. weak mags./yd.
○ Hole with < 1 lb. weak mags./yd.
▣ Shaft
[illegible] Bulldozer trench with channel sample

DMEA NO. 2891

Contract No. Idm-E545

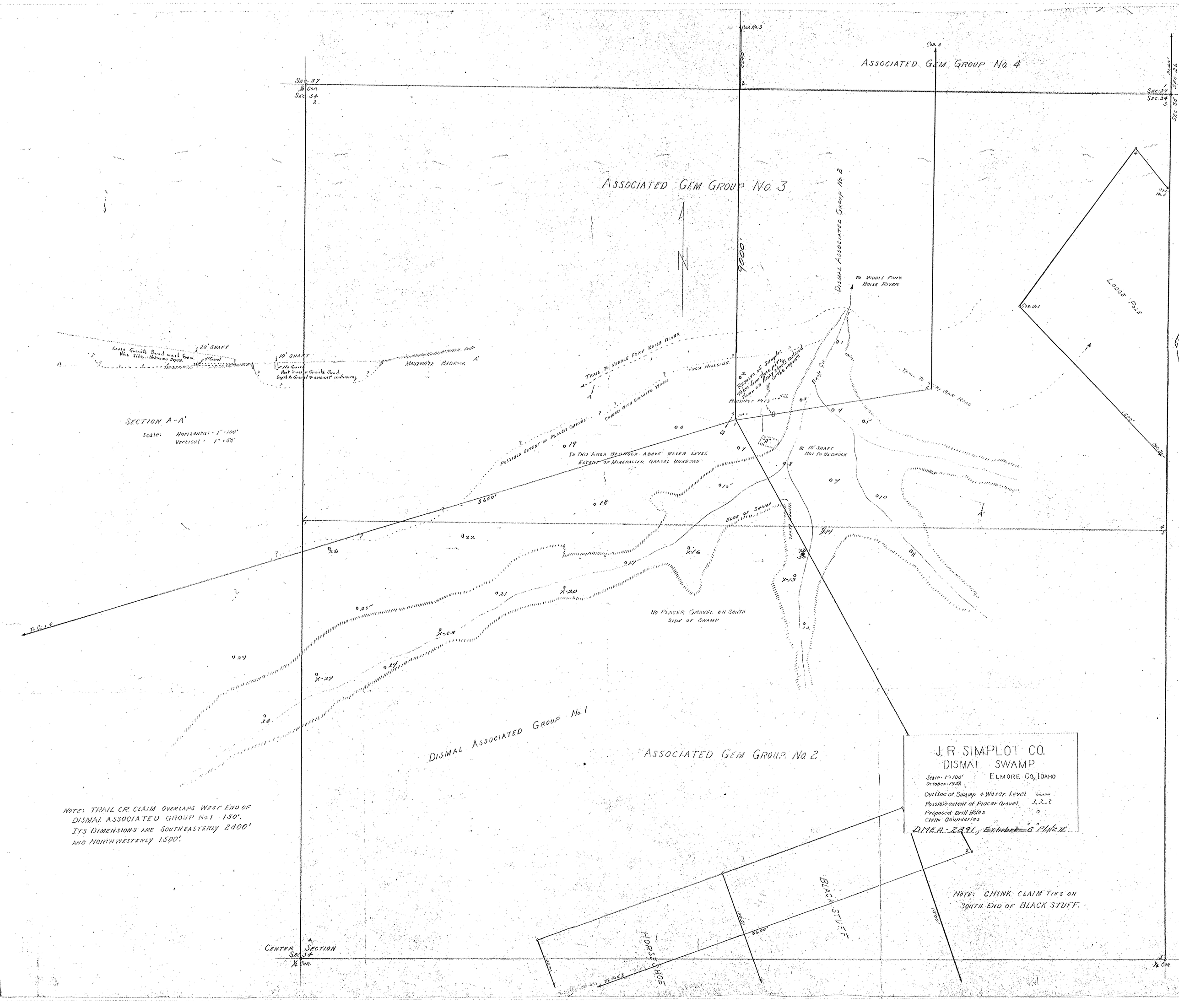
DISMAL SWAMP

J.R. SIMPLOT COMPANY

Scale: 0 100 200 300 ft.

Date Jan. 1954 Drawn by S.A.R.

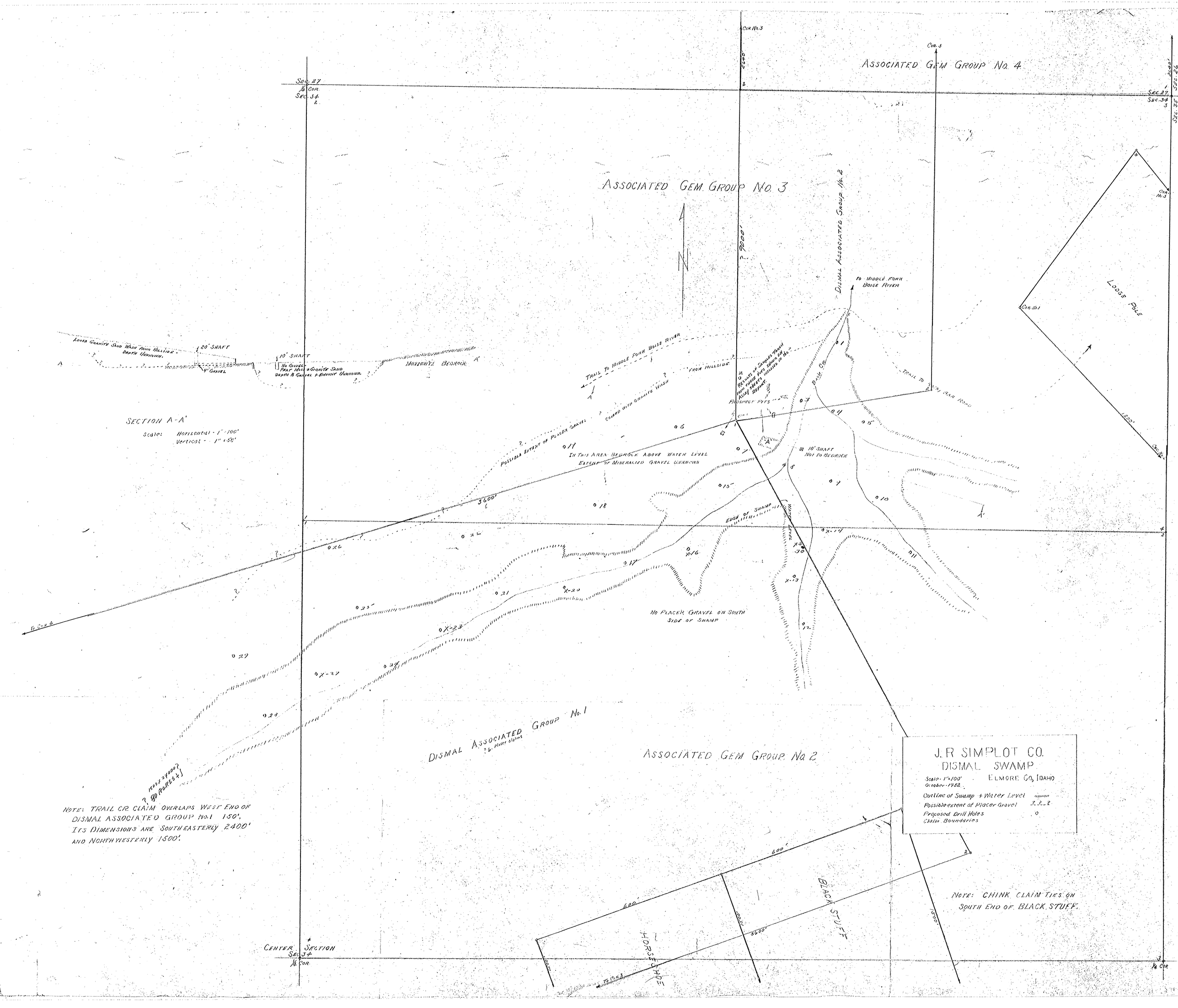
PLATE I.

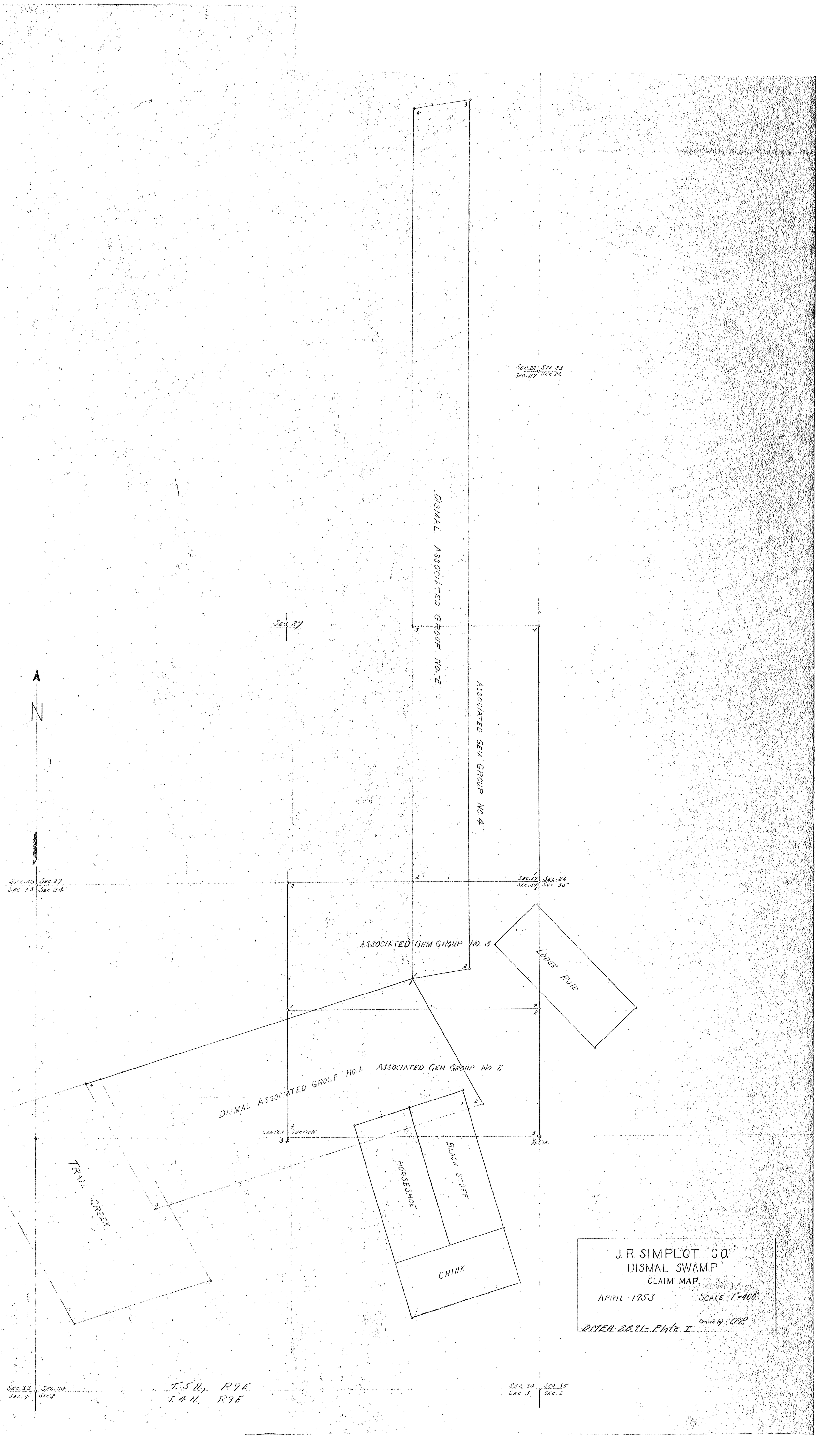


J. R SIMPLOT CO.
DISMAL SWAMP
Scale - 1" = 100'
October - 1952
ELMORE CO., IDAHO
Outline of Swamp + Water Level
Possible extent of Placer Gravel
Proposed Drill Holes
Claim Boundaries
DMEA - 2391, ~~Exhibit~~ "G" Plate II

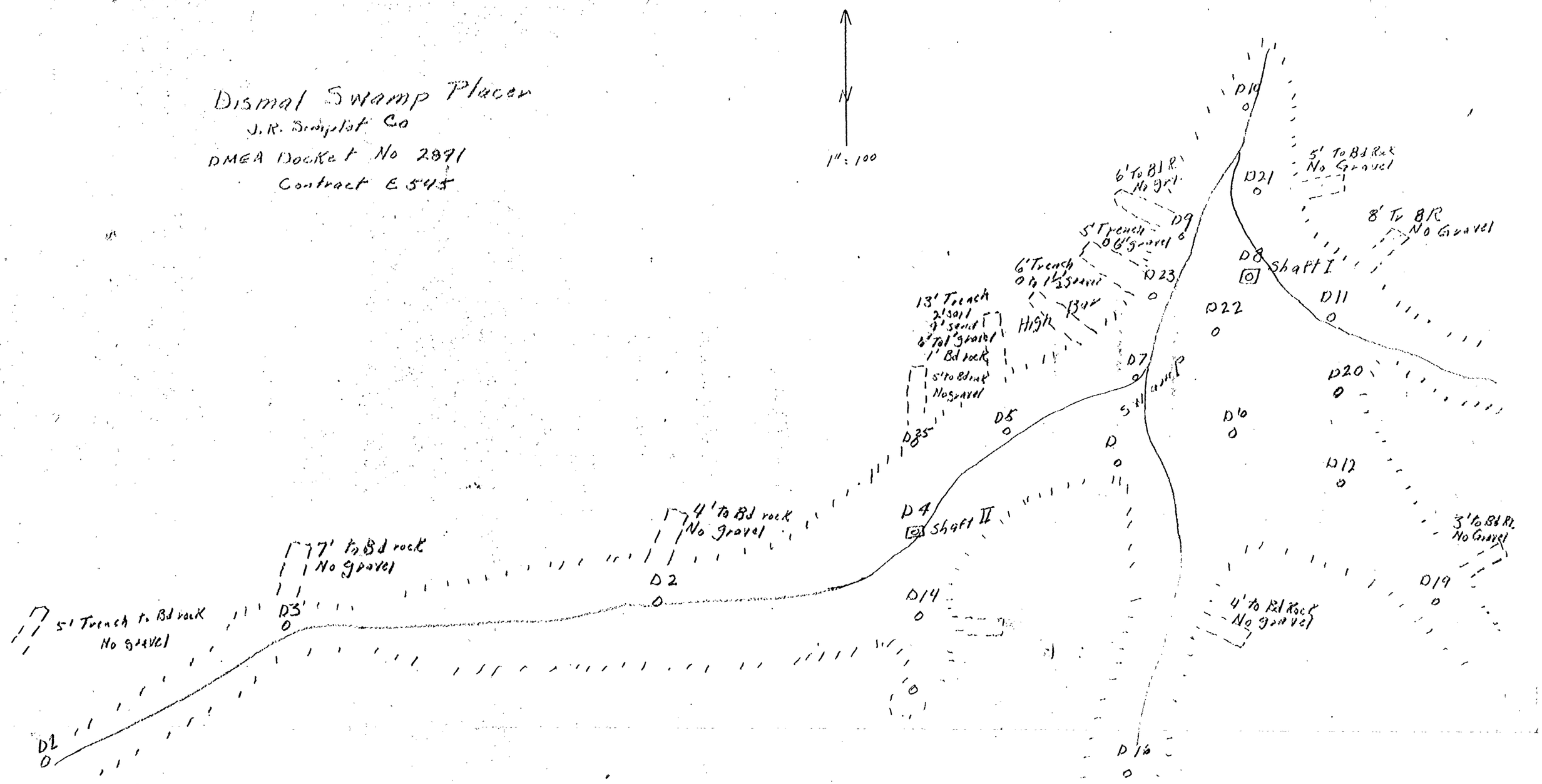
NOTE: TRAIL CR CLAIM OVERLAPS WEST END OF DISMAL ASSOCIATED GROUP No. 1 150'. ITS DIMENSIONS ARE SOUTHEASTERLY 2400' AND NORTHWESTERLY 1500'.

NOTE: CHINK CLAIM TIES ON SOUTH END OF BLACK STUFF.


ASSOCIATED GEM GROUP No. 4
ASSOCIATED GEM GROUP No. 3
ASSOCIATED GEM GROUP No. 2
DISMAL ASSOCIATED GROUP No. 1
DISMAL ASSOCIATED GROUP No. 2
Sec. 27
1/4 Cor.
Sec. 34
Cor. No. 3
Cor. 3
Loose Pole
Cor. No. 1
1500'
2400'
3600'
To Middle Fork Boise River
Trail to Middle Fork Boise River
From Hillside
Trail to Dam Bar Road
Prospect Pits
Results of Samples taken from these pits shown on Assay Sheets indexed in No. 2 Report.
Possible Extent of Placer Gravel
Covered with Granite Wash
In This Area Bedrock Above Water Level
Extent of Mineralized Gravel Unknown
10' Shaft Not to Bedrock
Edge of Swamp
Water Level
No Placer Gravel on South Side of Swamp
Loose Granite Sand Wash from Hillside - Depth Unknown.
20' Shaft
4' Gravel
10' Shaft
No Gravel - Peat Moss & Granite Sand
Depth & Gravel & Amount Unknown.
Monzonite Bedrock
Section A-A'
Scale: Horizontal - 1" = 100'
Vertical - 1" = 50'
Note: Trail Cr. Claim Overlaps West End of Dismal Associated Group No. 1 150'. Its Dimensions are Southeasterly 2400' and Northwesterly 1500'.
Center Section
Sec. 34
1/4 Cor.
Black Stuff
Horse Stuff
600'
Note: Chink Claim Ties on South End of Black Stuff.
J. R. SIMPLOT CO.
DISMAL SWAMP
Scale - 1" = 100'
October - 1952
Elmore Co, Idaho
Outline of Swamp + Water Level
Possible extent of Placer Gravel
Proposed Drill Holes
Claim Boundaries


N
Sec. 22 Sec. 23
Sec. 27 Sec. 26
Sec. 27
DISMAL ASSOCIATED GROUP NO. 2
ASSOCIATED GEM GROUP NO. 4
Sec. 23 Sec. 27
Sec. 33 Sec. 34
Sec. 27 Sec. 26
Sec. 34 Sec. 35
ASSOCIATED GEM GROUP NO. 3
LODGE POLE
DISMAL ASSOCIATED GROUP NO. 1
ASSOCIATED GEM GROUP NO 2
CENTER SECTION
1/4 COR.
TRAIL CREEK
HORSESHOE
BLACK STUFF
CHINK
Sec. 33 Sec. 34
Sec. 4 Sec. 3
T. 5 N., R 9 E.
T. 4 N., R 9 E.
Sec. 34 Sec. 35
Sec. 3 Sec. 2
J. R. SIMPLOT CO.
DISMAL SWAMP
CLAIM MAP
APRIL - 1953
SCALE - 1" = 400'
Drawn by: CCP
DMEA 2891 - Plate I

Dismal Swamp Placer
J.R. Sengstat Co
DMEA Docket No 2871
Contract E 545

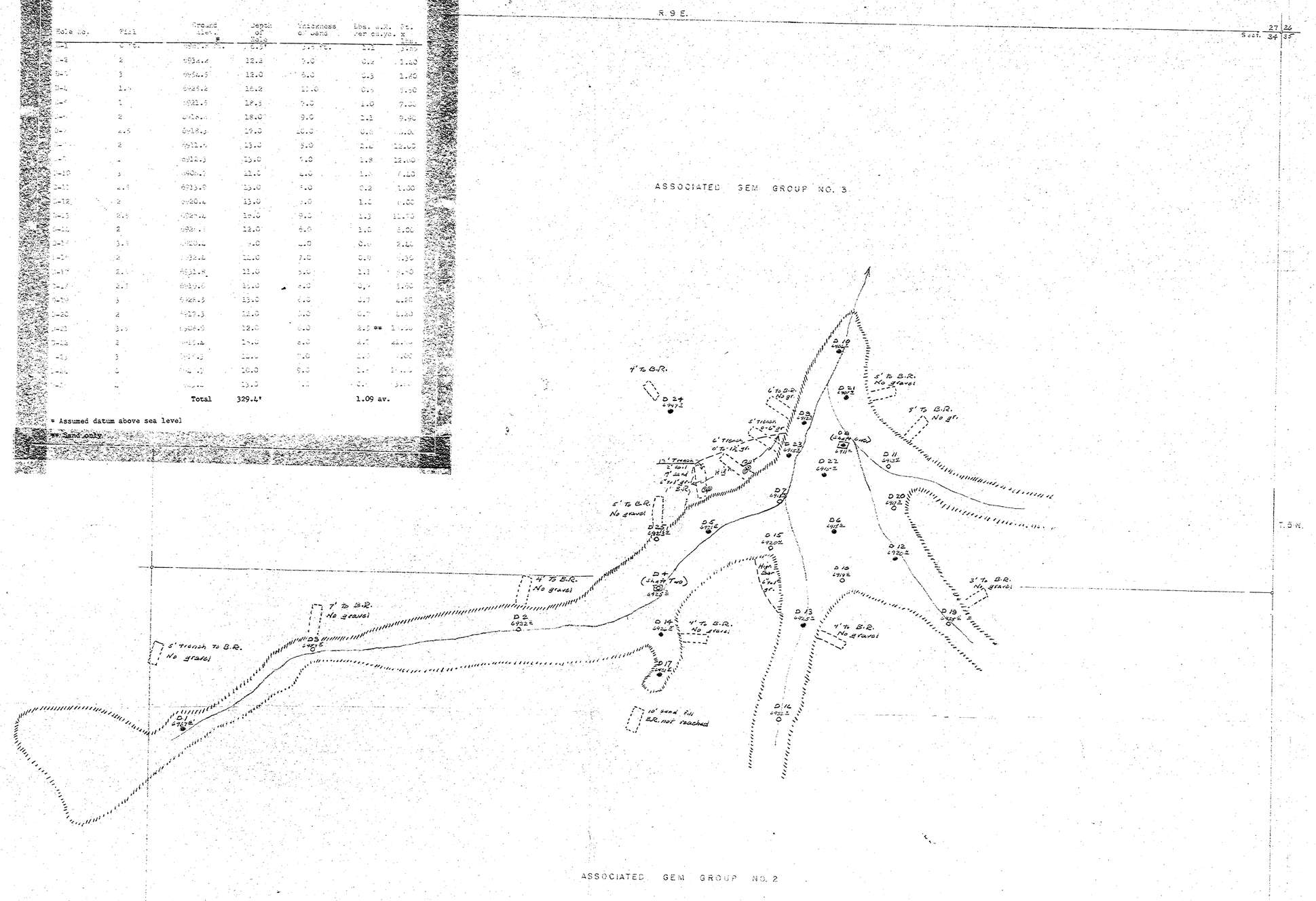


DRILL HOLE LOGS [illegible]

Hole No.	Fill	Ground Elev. *	Depth of Hole	Thickness of Sand	Lbs. W.M. Per cu.yd.	Ft. x Lbs.
D-1	0 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D-2	2	6934.2	12.2	9.0	0.2	1.80
D-3	3	6934.5	12.0	6.0	0.3	1.80
D-4	1.5	6925.2	16.2	11.0	0.5	5.50
D-5	1	6921.5	18.5	9.0	1.0	9.00
D-6	2	6916.[illegible]	18.0	9.0	1.1	9.90
D-7	2.5	6918.[illegible]	19.0	10.0	0.8	[illegible]
D-8	2	6911.0	13.0	9.0	1.4	12.60
D-9	1	6912.5	15.0	7.0	1.8	12.60
D-10	3	6906.5	11.0	4.0	1.8	7.20
D-11	2.5	6915.9	15.0	4.0	0.2	1.00
D-12	2	6920.4	13.0	3.0	1.0	3.00
D-13	2.5	6924.4	14.0	9.0	1.3	11.70
D-14	2	6924.[illegible]	12.0	6.0	1.0	6.00
D-15	3.5	6920.[illegible]	[illegible].0	4.0	0.6	2.40
D-16	2	6922.[illegible]	12.0	7.0	0.9	6.30
D-17	2.5	6921.8	11.0	5.0	1.8	9.00
D-18	2.5	6919.[illegible]	11.0	6.0	0.7	4.20
D-19	3	6926.5	13.0	4.0	0.7	2.80
D-20	2	6929.5	12.0	4.0	0.7	2.80
D-21	3.5	6928.9	12.0	6.0	2.5 **	15.00
D-22	2	6912.[illegible]	14.0	6.0	4.7	28.20
D-23	3	[illegible]	12.0	7.0	1.5	10.50
D-24	0	[illegible]	16.0	9.0	1.[illegible]	[illegible]
D-25	[illegible]	[illegible]	13.0	[illegible]	[illegible]	[illegible]
		Total	329.4'		1.09 av.	

* Assumed datum above sea level

** Sand only



EXPLANATION

D 5 Number of hole

6921.5 Ground elevation

● Hole with > 1 lb. weak mags./yd.

○ Hole with < 1 lb. weak mags./yd.

Shaft

Trench with channel sample

DMEA NO. 2851

Contract No. 1dm-E545

DISMAL SWAMP

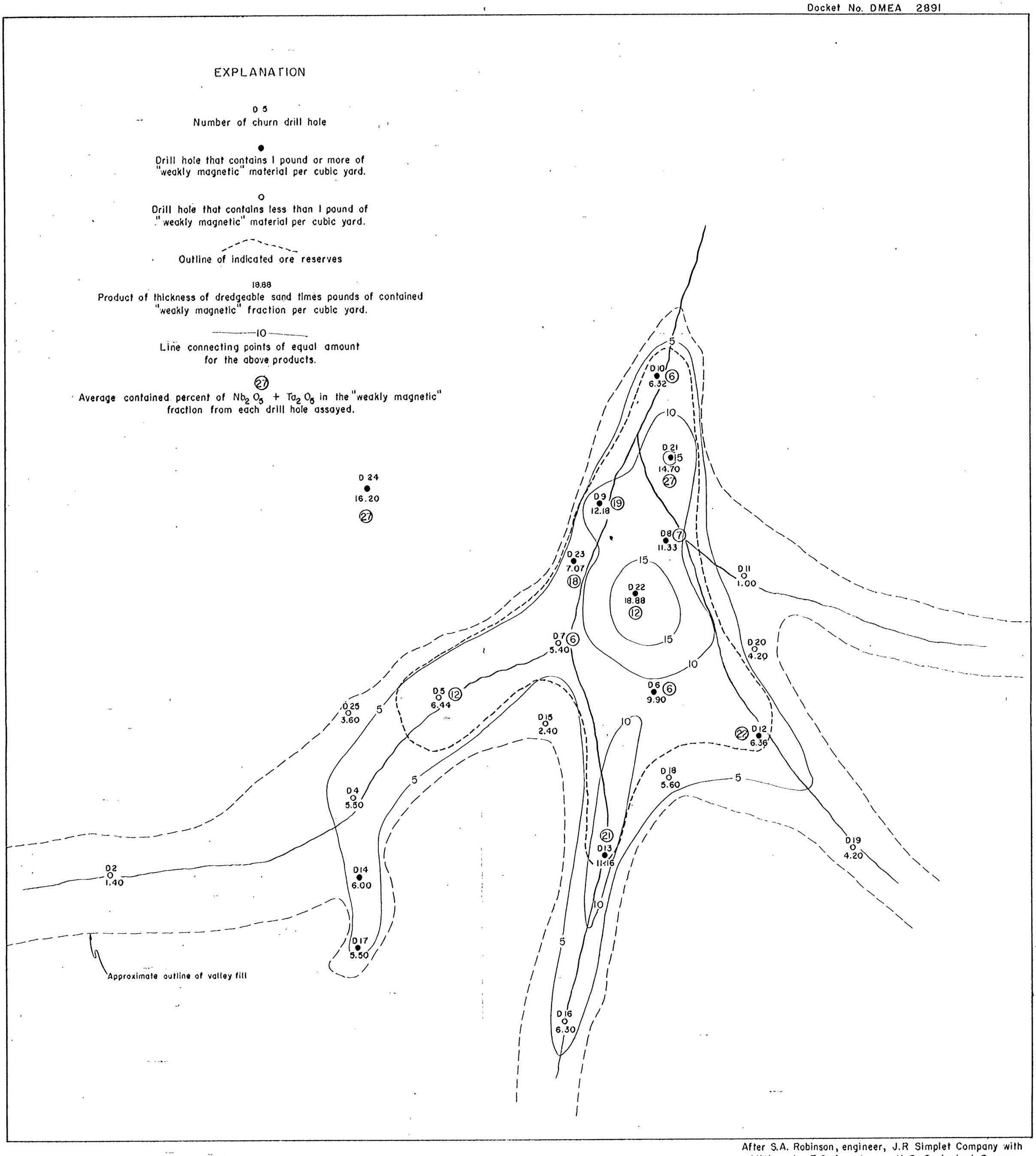
J.R. SIMPLOT COMPANY

Scale: 0 100 200 300 M.

Date Jan. 1954 Drawn by S.A.R.

PLATE I

Operator's final report



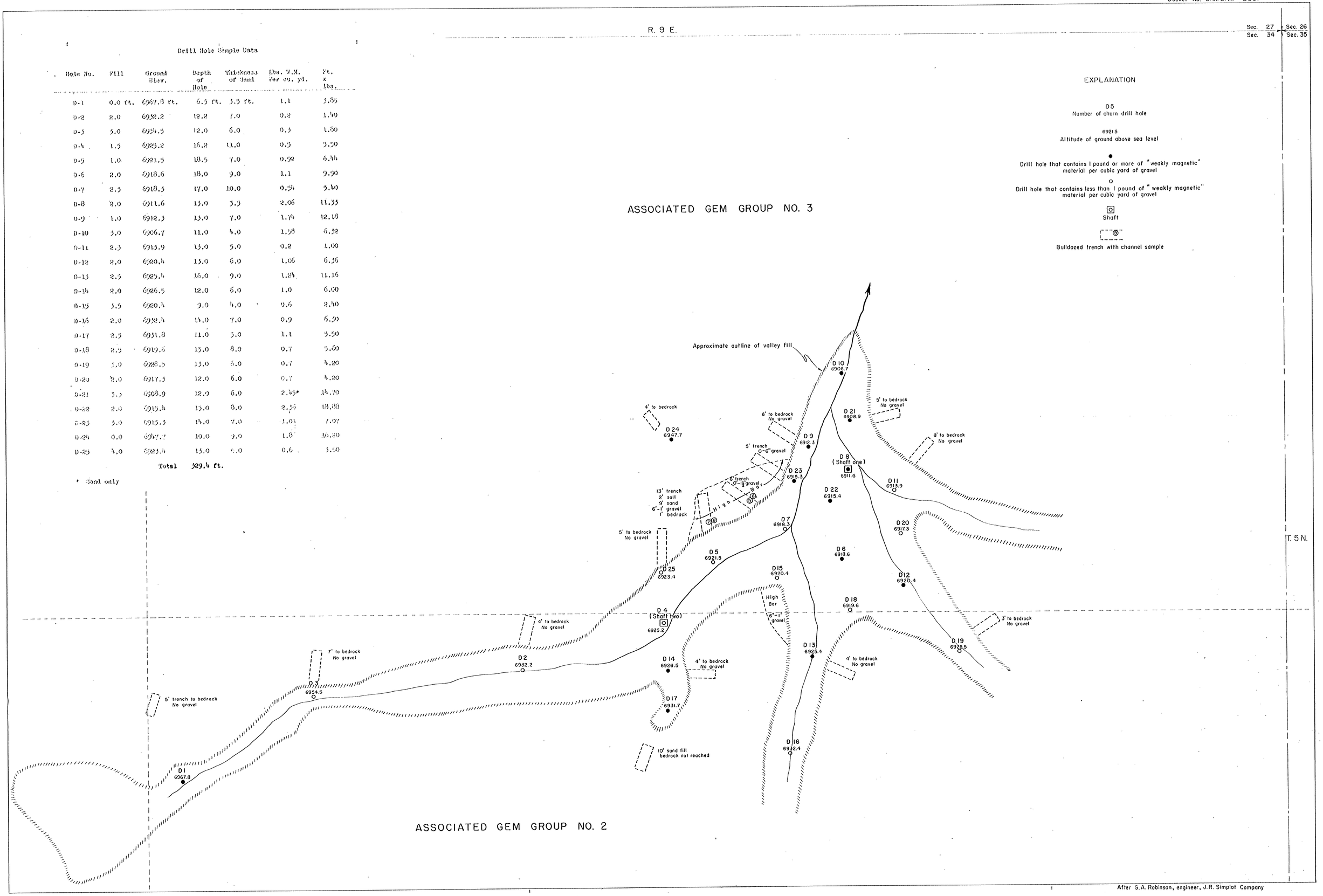
After S.A. Robinson, engineer, J.R Simplet Company with additions by F.C. Armstrong, U.S. Geological Survey.

FIGURE 4. — ASSAY AND ORE RESERVE MAP, DISMAL SWAMP PLACER DEPOSIT
ELMORE COUNTY, IDAHO

Drill Hole Sample Data

Hole No.	Fill	Ground Elev.	Depth of Hole	Thickness of Sand	Lbs. S.M. Per cu. yd.	Ft. x lbs.
D-1	0.0 ft.	6967.8 ft.	6.5 ft.	3.5 ft.	1.1	3.85
D-2	2.0	6932.2	12.2	7.0	0.2	1.40
D-3	3.0	6954.5	12.0	6.0	0.3	1.80
D-4	1.5	6925.2	16.2	11.0	0.5	5.50
D-5	1.0	6921.5	18.5	7.0	0.92	6.44
D-6	2.0	6918.6	18.0	9.0	1.1	9.90
D-7	2.5	6918.3	17.0	10.0	0.34	3.40
D-8	2.0	6911.6	13.0	3.5	2.06	11.33
D-9	1.0	6912.3	13.0	7.0	1.74	12.18
D-10	3.0	6906.7	11.0	4.0	1.58	6.32
D-11	2.5	6913.9	13.0	5.0	0.2	1.00
D-12	2.0	6920.4	13.0	6.0	1.06	6.36
D-13	2.5	6925.4	16.0	9.0	1.24	11.16
D-14	2.0	6926.5	12.0	6.0	1.0	6.00
D-15	3.5	6920.4	9.0	4.0	0.6	2.40
D-16	2.0	6932.4	14.0	7.0	0.9	6.30
D-17	2.5	6931.8	11.0	5.0	1.1	5.50
D-18	2.5	6919.6	13.0	8.0	0.7	5.60
D-19	3.0	6928.5	13.0	6.0	0.7	4.20
D-20	2.0	6917.3	12.0	6.0	0.7	4.20
D-21	3.0	6908.9	12.0	6.0	2.45*	14.70
D-22	2.0	6915.4	13.0	8.0	2.35	18.80
D-23	3.0	6915.3	14.0	7.0	1.03	7.21
D-24	0.0	6947.7	10.0	9.0	1.8	16.20
D-25	4.0	6923.4	13.0	6.0	0.6	3.60
		Total	329.4 ft.			

* Sand only



After S.A. Robinson, engineer, J.R. Simplot Company

FIGURE 3.—MAP OF DISMAL SWAMP PLACER DEPOSIT SHOWING CHURN DRILL HOLES, TRENCHES AND SHAFTS, ELMORE COUNTY, IDAHO

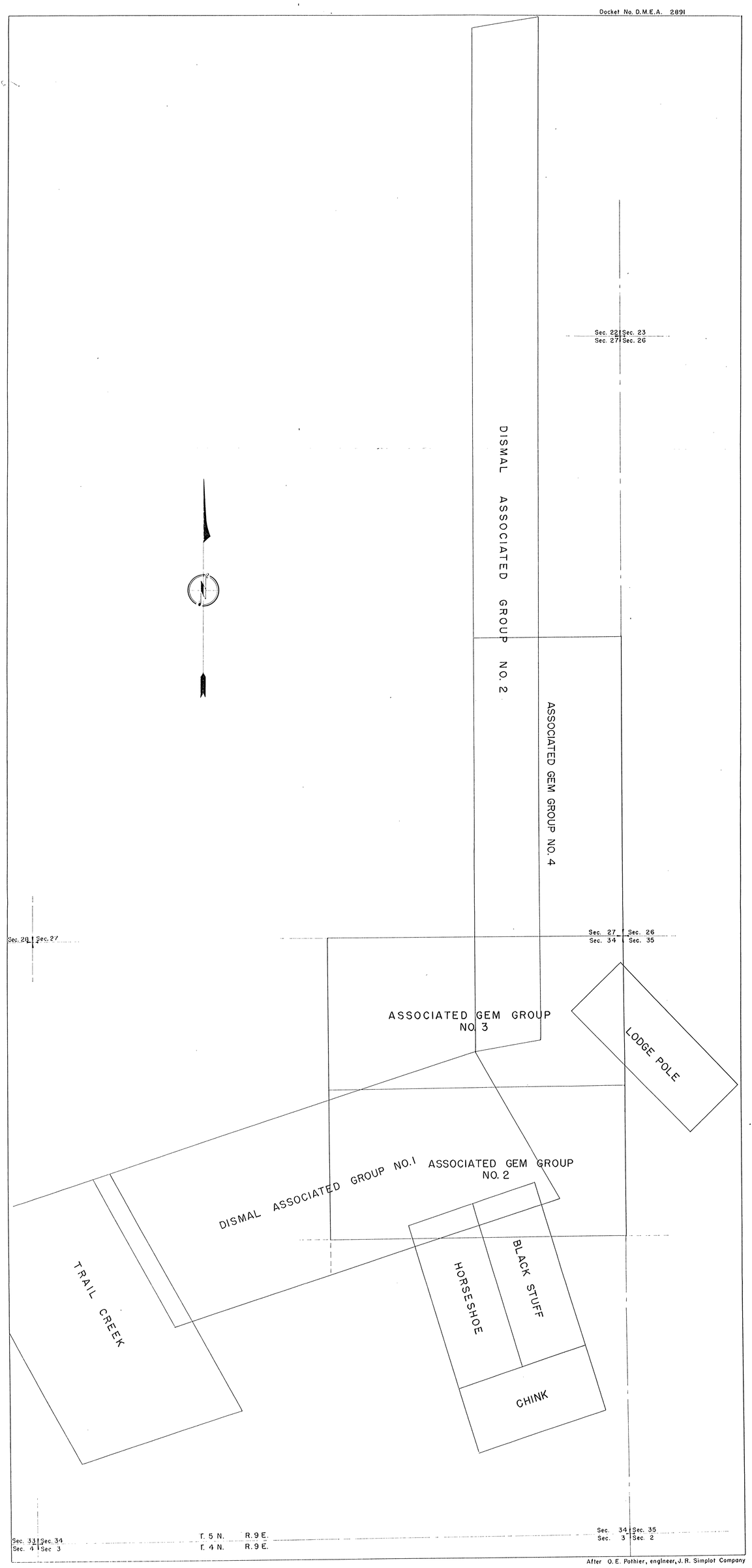


FIGURE 2.—CLAIM MAP OF DISMAL SWAMP PLACER DEPOSIT, ELMORE COUNTY, IDAHO

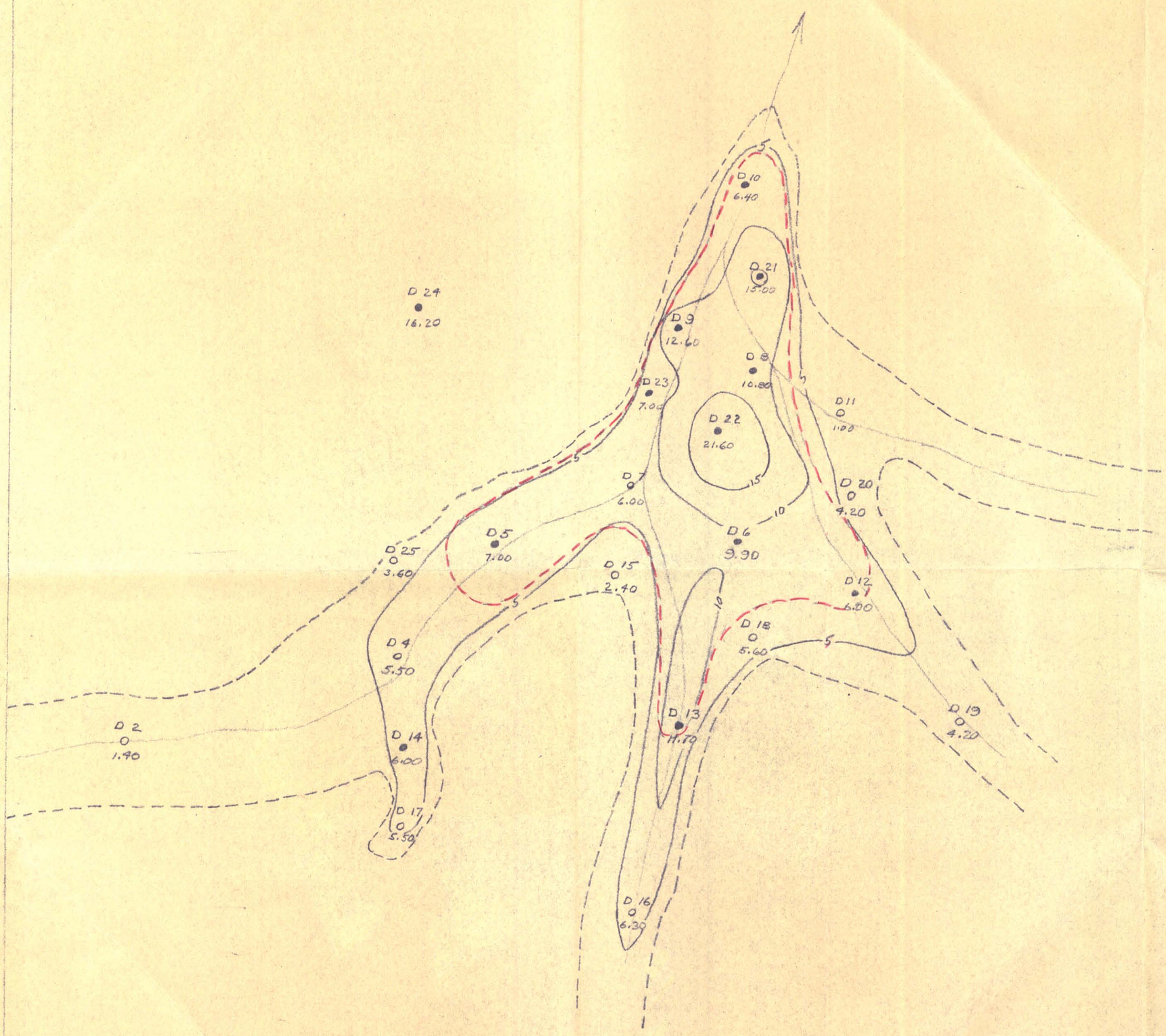
0 400 800 1200 1600 2000 FEET

Table 1.--Analyses of selected fractions of churn drill samples 1/ from Dismal Swamp placer prospect, Elmore County, Idaho

Drill Hole No.	Footage	U. S. Geological Survey Analyses: Nb Percent	Ta Percent	eU 2/ Percent	U Percent	J. R. Simplot Company Analyses: Nb_2O_5 + Ta_2O_5 Percent	Thickness 6/ of dredgeable gravel in drill hole	Approximate average Nb_2O_5 3/ + Ta_2O_5 4/ content of the "weakly magnetic" fraction from each drill hole Percent	Approximate average U_3O_8 5/ content of the "weakly magnetic" fraction from each drill hole Percent	Approximate Nb_2O_5 to Ta_2O_5 ratio	Remarks
5	5-18½	5.	0.2	0.68	0.13		7	12.	0.15	25:1	"Weakly magnetic" fraction? May be reject from black mineral separate of "weakly magnetic" fraction.
5	5-18½	2.	0.08	0.35	0.081						Sludge from above sample.
5	5-10	30.	1.	0.46	0.19						Black minerals of "weakly magnetic" fraction.
5	10-12					12.3					"Weakly magnetic" fraction.
6	5-18	4.	0.1	0.23	0.080		9	6.	0.09	45:1	Reject from black mineral separate of "weakly magnetic" fraction?
7	5-17	4.	0.1	0.36	0.10		10	6.	0.12	45:1	Reject from black mineral separate of "weakly magnetic" fraction?
7	11-15					4.2					"Weakly magnetic" fraction.
8	5-13	2.	0.08	0.30	0.080		5	7.	0.09	30:1	Reject from black mineral separate (below) of "weakly magnetic" fraction?
8	5-13	10.		0.13							Black minerals of "weakly magnetic" fraction.
8	7-8					1.9					"Weakly magnetic" fraction.
8	10-12					0.4					"Weakly magnetic" fraction.
9	5-13	13.	0.5	0.35	0.15		7	19.	0.18	30:1	"Weakly magnetic" fraction.
9	5-13	0.06		0.037							"Non-magnetic" fraction.
9	5-13	3.		0.19							"Magnetic" fraction.
10	5-11	3.	0.1	0.34	0.10		4	6.	0.12	35:1	Reject from black mineral separate (below) of "weakly magnetic" fraction?
10	5-11	8.	0.6	0.17	0.11						Black minerals of "weakly magnetic" fraction?
10	5-9					0.9					"Weakly magnetic" fraction.
12	5-13	15.	0.7	0.45	0.12		6	22.	0.14	25:1	"Weakly magnetic" fraction.
13	5-16	14.	0.6	0.46	0.18		9	21.	0.21	25:1	"Weakly magnetic" fraction.
13	5-16	0.04		0.070							"Non-magnetic" fraction.
13	5-16	4.		0.16							"Magnetic" fraction.
21	5-12	18.	1.0	0.40	0.17		6	27.	0.20	20:1	"Weakly magnetic" fraction.
21	5-12	0.06		0.075							"Non-magnetic" fraction.
21	5-12	5.		0.27							"Magnetic" fraction.
22	5-15	8.	0.7	0.53	0.14		8	12.	0.16	15:1	"Weakly magnetic" fraction.
23	5-14	12.	0.9	0.45	0.20		7	18.	0.24	15:1	"Weakly magnetic" fraction.
24	0-10	18.	1.0	0.39	0.15		9	27.	0.18	25:1	"Weakly magnetic" fraction.
24	0-10	0.1		0.055							"Non-magnetic" fraction.
24	0-10	4.		0.10							"Magnetic" fraction.
Averages excluding drill hole No. 24							7.1	14.	0.15		

1/ All samples of gravels sand-sized except the one indicated as sludge under Remarks.
2/ Estimate only; insufficient sample for accurate routine analyses.
3/ The factor for converting Nb to Nb_2O_5 is 1.43.
4/ The factor for converting Ta to Ta_2O_5 is 1.22.
5/ The factor for converting U to U_3O_8 is 1.18.
6/ Taken from J. R. Simplot Company's logs of individual holes.

4a



EXPLANATION

D 5 Number of hole

● Hole with > 1 lb. weak mags./yd.

O Hole with < 1 lb. weak mags./yd.

5.60 Ft. sand X lbs. weak mags./yd.

—5— Isobars on ft. X lb. values.

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CONTRACT NO. Idm E545

DISMAL SWAMP

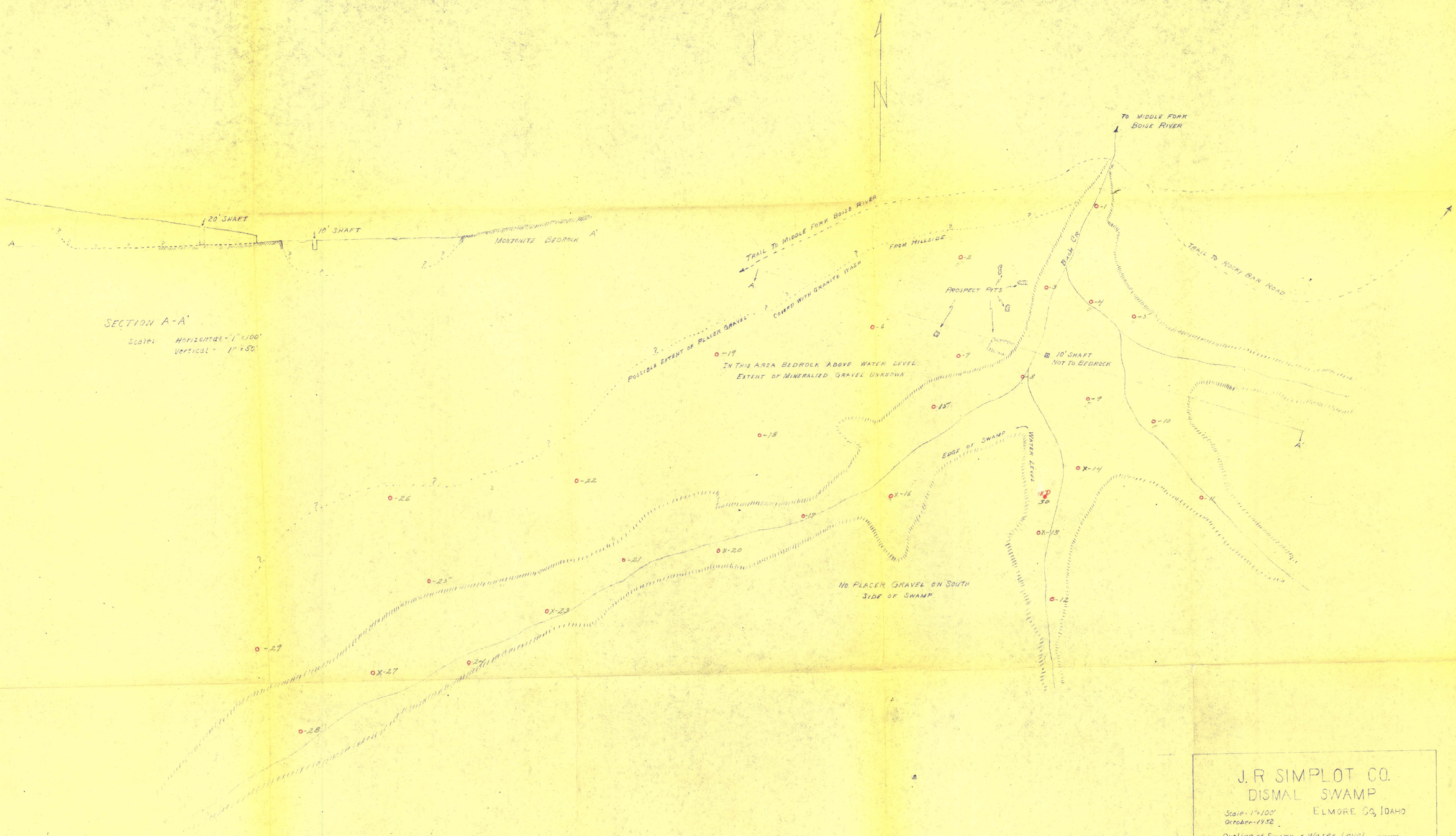
J. R. SIMPLOT COMPANY

Scale 0 100 200 300 ft.

Date Jan. 1954 Drawn by S.A.R.

PLATE II

Operator's Final Report



J. R SIMPLOT CO.
DISMAL SWAMP
Scale - 1" = 100'
October - 1952
ELMORE CO, IDAHO
Outline of Swamp + Water Level
Possible extent of Placer Gravel
Proposed Drill Holes

PLATE - "II"

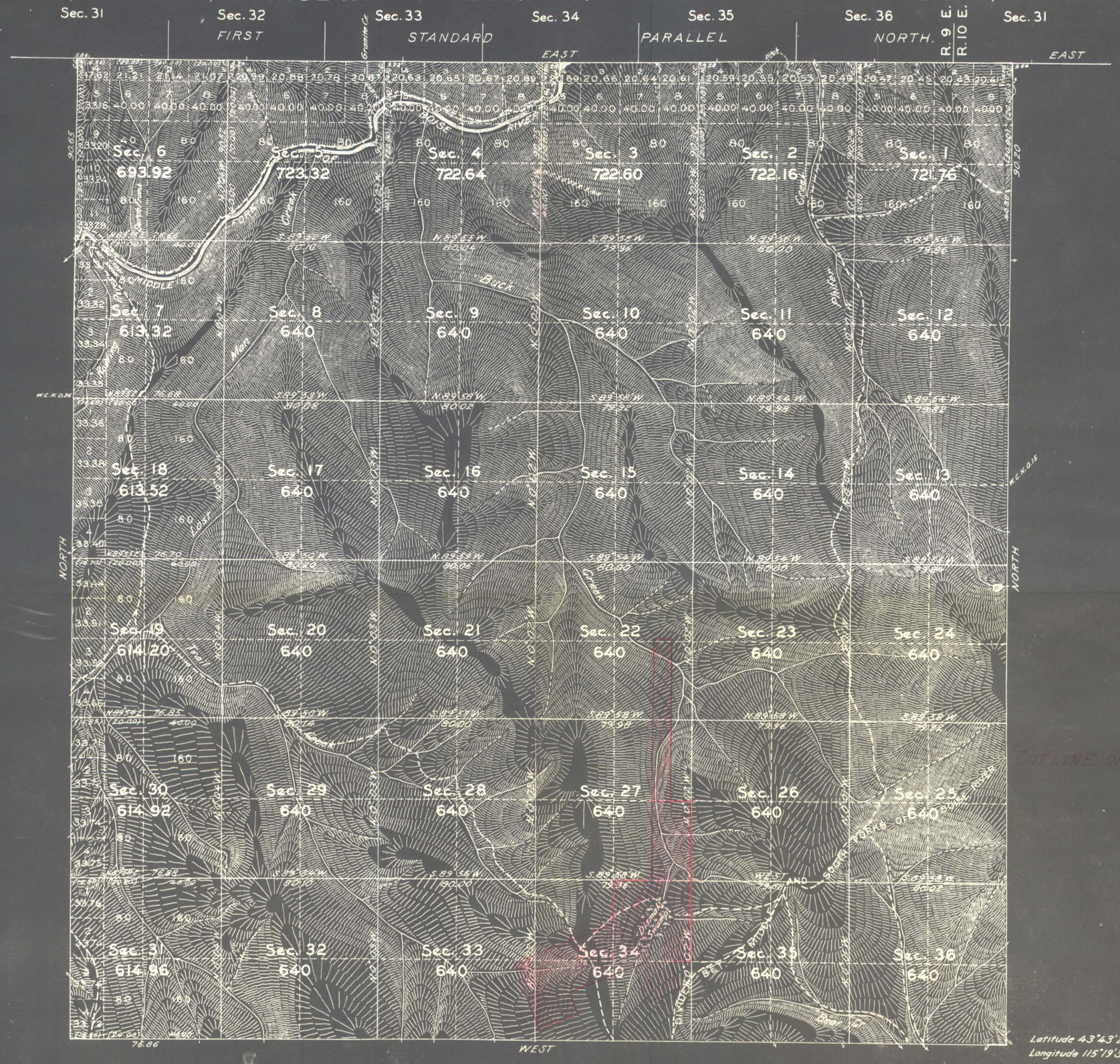
dmcw 2891

(4-675b)

accepted GLO 12/3/29
FILING OF PLAT WITHDRAWN 4/4/30

ORIGINAL

TOWNSHIP Nº 5 NORTH, RANGE Nº 9 EAST OF THE BOISE MERIDIAN, IDAHO.



Latitude 43°43'23" N.
Longitude 115°19'30" W.

10 5 0 10 20 40 80

Mean Magnetic Declination, 20°45' E. Scale: 40 Chains to an Inch. Area Surveyed, 23377.32 Acres.

LINES DESIGNATED	BY WHOM SURVEYED	GROUP Nº	GROUP DATE	MILEAGE MLS.	MILEAGE CHS.	WHEN SURVEYED BEGUN	WHEN SURVEYED COMPLETED
Exterior (S.E.&W.)	Geo. M. Kurtzweil	194	Sept. 11, 1926	18	17.71	June 20, 1927	Sept. 15, 1928
Subdivisional	" " "	"	" " "	60	35.32	May 17, 1928	" 14, "
Meander							
Miscellaneous	" " "	"	" " "		61.80	Aug. 23, 1927	" 15, "

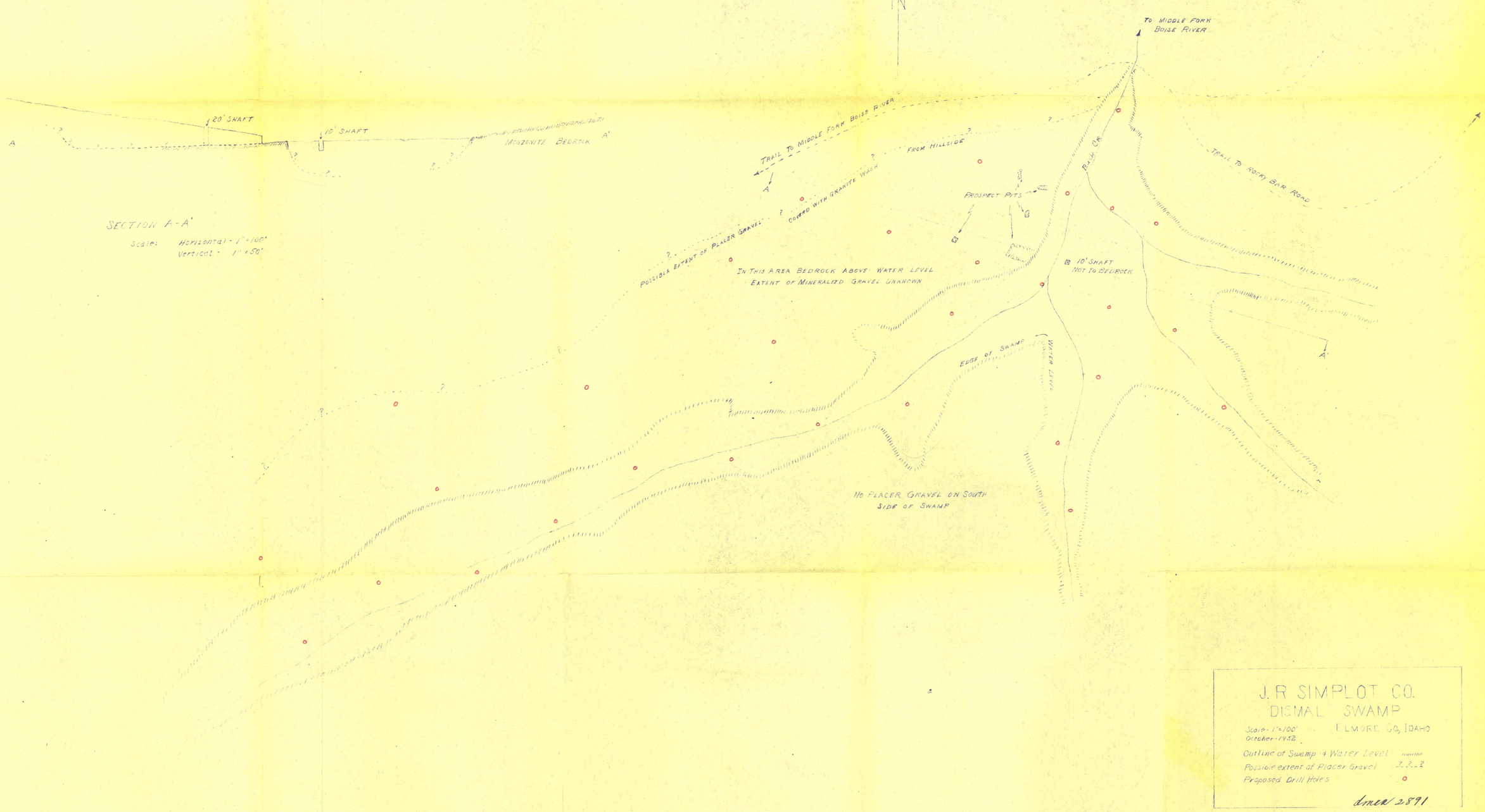
Office of U.S. Supervisor of Surveys
Denver, Colorado, Nov. 6, 1929.
The above plat of Township No. 5 North, Range No. 9 East of the Boise Meridian, Idaho, is strictly conformable to the field notes of the survey thereof which have been examined and approved.

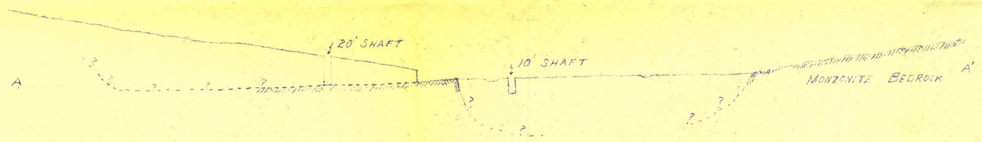
U.S. Supervisor of Surveys.

DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
Washington, D.C., Nov. 29, 1929.
The survey represented by this plat having been correctly executed in accordance with the requirements of law and the regulations of this office, is hereby accepted.

Acting Assistant Commissioner.

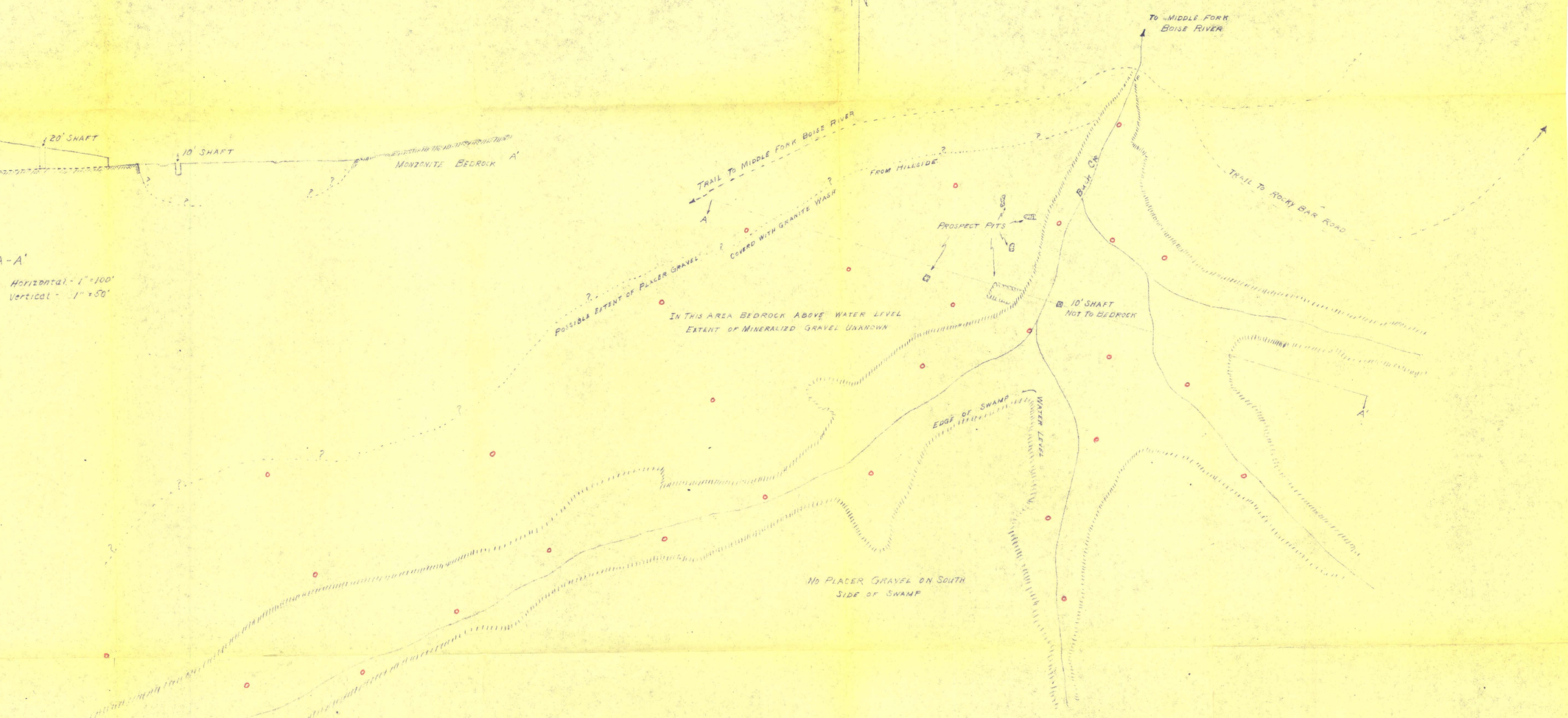
O.G.E.


20' SHAFT
10' SHAFT
MONZONITE BEDROCK
A
A'
SECTION A-A'
Scale: Horizontal - 1" = 100'
Vertical - 1" = 50'
TO MIDDLE FORK BOISE RIVER
TRAIL TO MIDDLE FORK BOISE RIVER
FROM HILLSIDE
COVERED WITH GRANITE WASH
POSSIBLE EXTENT OF PLACER GRAVEL
PROSPECT PITS
PALK CR.
TRAIL TO ROCKY BAR ROAD
IN THIS AREA BEDROCK ABOVE WATER LEVEL
EXTENT OF MINERALIZED GRAVEL UNKNOWN
10' SHAFT
NOT TO BEDROCK
EDGE OF SWAMP
WATER LEVEL
NO PLACER GRAVEL ON SOUTH
SIDE OF SWAMP
J.R SIMPLOT CO.
DISMAL SWAMP
Scale - 1" = 100'
October - 1952
ELMORE CO, IDAHO
Outline of Swamp & Water Level
Possible extent of Placer Gravel
Proposed Drill Holes
dmcr 2891



SECTION A-A'

Scale: Horizontal - 1" = 100'
Vertical - 1" = 50'



J. R SIMPLOT CO.
DISMAL SWAMP
Scale - 1" = 100'
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ELMORE Co, IDAHO
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dmea 2891