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Sunlight Basin, Wyoming,
August 28, 1951

SUMMARY REPORT ON SULPHUR DEPOSIT "B" CONTINENTAL SULPHUR AND PHOSPHATE CORPORATION SUNLIGHT BASIN, PARK COUNTY, WYOMING.

INTRODUCTION

This report concerns itself principally with the mapping, sampling by diamond drill and Parmanco auger drill, and tonnage and sulphur content estimates of the sulphur deposit known as Deposit "B", located in Sunlight Basin, Park County, Wyoming, and shown on the E. W. Krampart map to be situated along the boundry line between sections 6 and 7, Township 54 North, Range 106 West.

SULPHUR OCCURRENCE

Free sulphur occurs on Deposit "B" in areas of bleached, highly altered andesitic rocks devoid of vegetation as a cementing material of surface debris and to a lesser degree as incrustations along minute fractures within the highly altered andesite, diminishing rapidly in extent from the present surface of the ground downward. Impregnation of the surface debris with sulphur is heaviest near the bases of steep hillsides. There has definitely been no replacement of the rock by sulphur. The color of the highly altered country rock changes from nearly white (yellowish where sulphur is present) at the surface to gray to black downward. In places decomposition extends to depths of 30 ft. and more white at other places hard, only partly altered andesite is found within a foot or two of the present surface. The amount of sulphur present decreases rapidly from the surface downward and highest values are found within the upper four feet. Nevertheless deeper holes were drilled to explore the possibility of a lower sulphur horizon, but none was found on Deposit "B" on which the greatest depth considered for tonnage estimates was 6.6 feet. Laterally, the occurrence of sulphur in the white bleached rock is extremely erratic away from central, or vent points from which hydrogen sulphide and carbon dioxide gases issue in minor, but detectable amounts. This makes tonnage and value estimations somewhat difficult and subject to some error. It is felt, however, that tonnage and value estimated given in this report will tend to be high rather than low when compared with actual amounts of sulphur recovered if and when mined.

MAPPING

Plane tabling of Deposit "B" was done on a scale of 1 inch equaly 100 feet. The map which accompanies this report as Plate 1 shows all surface features, survey stations, locations of all diamond drill holes, Parmanco auger drill holes as well as locations of 5 diamond drill holes put down during 1949; it shows 3 benches and 6 lines along which auger drill holes were spaced, as well as locations of 18 sections constructed from the plan map; it also shows locations of Blocks 1 to 9 of sulphur ore as determined from drilling results and cross sections; it also shows edge of timber lines and change of slope lines. The data presented on the map is based on 172 elevation and distance determinations which are ties in with the R. C. Rader claim resurvey as well as with the topographic map under preparation by the United States Geological Survey.

Plage 2 attached to this report shows 18 cross sections based on survey notes, plan map and drill log data. The locations of the sections are shown on Plate 1. Percentage determinations of sulphur are by ignition test only. With exception of auger drill hole B-7 and Jones Drilling Co. (July 1951) B-7Y which holes

did not show any higher grade sulphur, all holes drilled, as well as all old holes drilled in 1949 are shown on the sections. Tonnage and aver. sulphur content estimates are based on data set forth on the sections which show drill hole data as well as observations at every hole drilled, and channel samples at holes drilled on the benches.

DRILLING

Diamond drilling by the Jones drilling Company was started on Deposit "B" on June 30th, 1951, and discontinued on July 17th, after the Parmanco auger drill arrived on the property. 4 holes, B-1X to B-3X and B-7Y were finished by Jones Drilling Company. The Parmanco drill started operations on July 23rd, and finished drilling on Deposit "B" on August 17th, 1951, the drill operated during 23 days of above period. A total of 66 holes averaging 13.1 ft. in depth were drilled to a total depth of 866.8 ft. from which, together with 68.79 ft. of channel sampling, 281 samples of approx. 3 ft. width each, resulted. 53½ nine hour man days were consumed in the drilling. Where hard ground was encountered near the surface, several holes (not counted in above summary) were drilled near a location to make sure no soft ground was passed up on the drilling campaign.

A log of each hole drilled has been kept. The log sheet shows the number of the hole, its location with respect to plan map co-ordinate system, the survey number and surface elevation, total depth of hole, name of drill operator, dates started and finished, number, description and widths of samples and sulphur content of samples. Moving time from hole to hole is carried under "Remarks" on each drill log. The size of the auger hole is 4¼ inches. The hole is collared with a piece of casing welded to a square pan in which the sample accumulates while the auger drill rotates. Samples were packed in oblong boxes and removed to the laboratory at noon and at the end of each shift.

While the Parmanco drill has operated very successfully, the steep slope of the lower part of Deposit "B" necessitated the digging of benches by caterpillar bulldozer, the time for which is not included in above man-days report. The drill was moved by Dodge Power Wagon and at times, at highly inaccessible places, by the bulldozer. At the present time (August 27) the drill has also finished drilling on Deposit "D" where it drilled a total of 47 holes to a total depth of 750.1 ft. and an average depth of 16 ft. per hole, resulting in 256 drill hole and channel samples of about 3 ft. width each.

LABORATORY

Layout work and setting up of laboratory was done during the last days of July and early in August. The crushing and quartering equipment consists of 1 laboratory crusher and 1 old style Braun Pulverizer drived by a 3HP Briggs-Stratton 4 cycle gasoline powered engine, either independently or jointly; 4 Jones channel samplers of different sizes and one bucking board and muller. One quarter of each original sample after the first break to about ¼" size is saved and stored in boxes marked with hole number and sample number, placed in consecutive order on sample box shelves so that each sample can be made immediately available for future inspection if desired. After pulverizing the final sample to minus 60 mesh it is halved and each half is stored separately with assay laboratory number and hole and sample number, so that a duplicate pulp sample is always available for carbon disulphide or other tests. Weighing is done on a pulp scale and ignition is done over three Brunsen burners using Butane gas.

TONNAGE AND VALUE CALCULATIONS.

Tonnage and Value Calculations are based on the results of above described work and equipment and details of calculations are kept on record for inspection if desired. The weight of a cubic foot of material in place was assumed as 130 lbs. on actual weight tests having been made sofar. Blocks calculated represent spaces between sections, with average values of sections calculated by geometrical averages. Where more than one hole is present at one point, the average value and depth of such holes was worked out and used at the respective point.

The number of Blocks, together with ore tonnage in short tons, average sulphur content in % and total amount of free sulphur contained in each block, are set forth on the following page. There are 11,738 short tons of ore averaging 28% of sulphur which would represent 2,991 tons of free sulphur present in fine of the Blocks calculated, while the sulphur content of the remaining four Blocks range from 11.4% to 18.7T.

BLACK NO.	Ore. Short tons.	Aver. % Sulphur	FRee Sulphur Long tons	Aver. Depth	Froe S. Long tons
1	1801.8	23.0	377	4.0	377.0
2	3705.0	17.3	583	4.75	
3	587.6	11.4	61	5.65	
4	582.86	33.75	178.8	3.5	178.8
5	1043.77	27.3	259.0	5.85	259.0
6	6100.38	30.3	1680.4	6.6	1680.4
7	2209.35	24.7	496.1	5.15	496.1
8	1388.53	14.3	180.5	4.65	
9	836.55	18.7	142.2	4.95	
	18256		3958		2991

The above are the closest estimates which can be made on the data available. They may vary to some extent when actual mining of the ore is undertaken. The occurrence of sulphur is very erratic and far less in amount than one is led to believe by only casual observation of the deposit. Incrustation of minute fractures make much of the rock appear as solid sulphur to the eye, which, however, is not the case. The sulphur content drops off rapidly as soon as the base of the surface debris is reached in the drill holes or shows up in the bank of the benches on which some of holes were drilled. In the latter case channel samples were resorted to and their widths added to the log of the drill hole in order to get a true section from the durface downward.

Respectfully submitted,

Harald W. C. Prommel
Consulting Geologist and Mining Engineer
Denver, Colorado

Sunlight Basin, Wyoming
August 27, 1951

Total Holes Surveyed on "B"		72
Hole not drilled	B-14	Not Surveyed
" " "	B-15	Not Surveyed
" " "	B-16	Not Surveyed
" " "	B-17	Not Surveyed
" " "	B-58	Surveyed
" " "	B-59	Surveyed
" " "	B-60	Surveyed
" " "	B-62	Surveyed
Total Holes Drilled		64
Plus Hole	B-11B	
	B-13½	2
		66

"B" DEBOIT

HOLE		DEPTH		GRADES	ELEVATION
B-1	TD	20'	Expr. hole -	no samples saved	
B-2	TD	30'6"	Expr. hole -	no samples saved	7474.2
B-3	TD	20'	Expr. hole		7485.0
	Channel	0-2'6"		23%	
		0-2'		13.5	
		2'-5½'		13.5	
		5'-8½'		11.0	
		8½'-11½'		8.5	
		11½'-14½'		no samples	
		14½'-20'		no samples	
B-4	TD	10'			
	Channel	0-2'6"		2%	7484.8
		0-4'		11.5	
		4'-7'4"		7.5	
		7'4"-10'		no sample	
B-5	TD	4'			
	Channel	0-2'6"		12%	7467.4
		0-4'		4.5	
		Unable to continue			
B-6	TD	10'			
	Channel	0-4'4"		10%	
		0-4'		6.	
		4'-7'4"		4.5	
		7'4"-10'8"		4.5	
		10'8"-14'		4.5	
		14'-17'4"		3.5	
		17'4"-10'			
B-7	TD	12'			
	Channel	0-2'6"		6.5%	7530.6
		0-4'		no samples	
		4'-12'	See Jones Core Drilling B-7		
B-8	TD	20'6"			
	Channel	0-1'6"		7%	7519.0
		0-4'		2.5	
		4'-7'4"		10.0	
		7'4"-10'8"		8.0	
		10'8"-14'		6.5	
		14'-17'4"		4.0	
		17'4"-20'8"		11.0	

HOLE		DEPTH	% LOSS	ELEVATION
B-9	TD	39'10"		
	Channel	0-1'5"	22.5	
		0-4'	12.	
		4'-7'4"	12.	
		7'4"-10'8"	11.5	
		10'8"-14'	7.5	
		14'-17'4"	7.	
		17'4"-20'8"	9.	
		20'8"-24'	9.	
		24'-27'4"	10.5	
		27'4"-30'8"	12.5	
		30'8"-34'	12.	
		34'-37'4"	13.	
		37'4"-39'10"	12.	
B-10	TD	14'		
	Channel	0-1'5"	18.5	7521.4
		0-4'	16.	
		4'-7'4"	11.	
		7'4"-10'8"	5.5	
		10'8"-14'	?	
B-11	Channel	2'8"	3.	7521.2
		0-4'	no sample	
B-11A	TD	8'8"		
	Channel	1'8"	3.5	7521.2
		0-4'	4.0	
		4'-7'4"	4.5	
		7'4"-8'8"	4.5	
B-11B	TD	14'		
	Channel	0-1'4"	4.0	7521.2
		0-4'	19.5	
		4'-7'4"	11.	
		7'4"-10'8"	6.	
		10'8"-14'	5.5	
B-12	TD	10'		
	Channel	0-1'25	4.5	7519.0
		0-4'	5.5	
		4'-7'4"	5.5	
		7'4"-10'	4.0	
B-13	TD	15'		
	Channel	0-1'5"	15.5	7524.4
		0-4'	8.0	
		4'-7'4"	5.0	
		7'4"-10'8"	3.0	
		10'8"-14'	3.0	
		14'-15'	3.5	
B-14	TD	9'4"		
	Channel	0-3'	5.	
		0-4'	4.	
		4'-7'4"	3.	
		7'4"-9'4"	4.	

HOLE		DEPTH	BLOWS	ELEVATION
B-18		0-4'	14.	7604.5
		4'-7'4"	11.5	
		7'4"-9'	3.0	
B-19		0-4'	8.	7616.1
		4'-7'4"	12.	
		7'4"-10'8"	10.	
		10'8"-14'	7.	
		14'-16'	8.	
B-20		0-4'	5.	7628.8
		4'-7'4"	4.	
		7'4"-10'8"	5.	
		10'8"-15'	6.	
B-21		0-4'	4.5	7635.2
		4'-7'4"	5.5	
		7'4"-10'8"	5.5	
		10'8"-14'	7.	
B-22		0-4'	6.5	7639.7
		4'-7'4"	6.	
		7'4"-10'8"	4.5	
		10'8"-14'	4.	
		14'-17'4"	5.	
		17'4"-19'	4.5	
B-23	Channel	0-2'3"	11.	7549.2
		0-4'	6.5	
		4'-7'4"	7.	
		7'4"-10'	6.5	
B-24	Channel	0-2'9"	4.5	7568.2
		0-4'	13.	
		4'-7'4"	9.5	
		7'4"-10'8"	7.5	
		10'8"-14'	7.	
B-25	Channel	0-1'8"	11.	7569.7
		0-4'	5.5	
		4'-7'4"	5.5	
		7'4"-10'8"	7.5	
		10'8"-12'	5.5	
B-26	Channel	0-2'	5.	7567.9
		0-4'	5.	
		4'-6'	4.5	
B-27	Channel	0-2'	5.	7563.2
		0-3'	5.	
B-28	Channel	0-1.75'	6.	7568.8
		0-2'	13.5	

HOLE	DEPTH	% LOSS	ELEVATION
B-29	0-4'	7.	7647.8
	4'-7'4"	5.5	
	7'4"-10'8"	9.5	
	10'8"-12'6"	6.	
B-30	0-4'	5.5	7654.6
	4'-7'4"	5.	
	7'4"-10'8"	7.5	
	10'8"-13'	5.5	
B-31	0-4'	7.5	7664.7
	4'-7'4"	7.5	
	7'4"-10'8"	5.0	
	10'8"-15'6"	5.5	
B-32	0-4'	7.5	7680.1
	4'-7'4"	7.5	
	7'4"-10'8"	6.	
	10'8"-14'	4.5	
	14'-16'	5.5	
B-33	0-4'	7.	7626.6
	4'-7'3"	6.	
	7'3"-10'6"	5.	
	10'6"-14'	6.	
	14'-16'	7.	
B-34	0-4'	27.	7632.7
	4'-7'3"	14.5	
	7'3"-8'	12.5	
B-35	0-4'	10.	7646.2
	4'-7'3"	16.	
	7'3"-10'6"	13.5	
	10'6"-14'	9.5	
	14'-17'3"	11.5	
B-36	0-4'	12.	7651.0
	4'-7'3"	9.	
	7'3"-10'6"	8.5	
	10'6"-14'	9.5	
	14'-17'3"	8.	
B-37	0-4'	17.5	7660.3
	4'-7'3"	6.	
	7'3"-10'6"	5.5	
	10'6"-14'	4.	
	14'-17'3"	6.	
	17'3"-20'	5.5	
B-38	0-4'	7.5	7668.8
	4'-7'3"	9.5	
	7'3"-10'6"	5.5	
B-39	0-4'	5.5	7674.4
	4'-7'4"	6.	
	7'4"-10'8"	5.	
	10'8"-14'	3.5	
	14'-16'	3.5	

HOLE	DEPTH	BLOWS	ELEVATION
B-40	0-4'	5.5	7693.1
	4'-8'	4.5	
	8'-11'5"	4.5	
	11'5"-15'	6.	
B-41	0-4'	4.	7708.2
	4'-7'4"	6.	
	7'4"-15'	6.25	
B-42	0-4'	6.5	7717.4
	4'-7'3"	5.	
	7'3"-10'6"	9.5	
	10'6"-12'	7.5	
B-43	0-4'	4.	7654.1
	4'-7'3"	5.5	
	7'3"-10'6"	3.5	
	10'6"-14'	5.5	
	14'-16'	5.	
B-44	0-4'	19.5	7656.1
B-45	0-4'	10.	7668.3
	4'-7'3"	12.	
	7'3"-10'6"	10.	
	10'6"-14'	8.	
	14'-16'	10.5	
B-46	0-4'	13.	
	4'-6'	9.5	
B-47	0-4'	23.5	
	4'-7'3"	13.	
	7'3"-10'6"	12.5	
	10'6"-12'	11.	
B-48	0-4'		
	4'-7'3"		
	7'3"-10'6"		
	10'6"-12'		
B-49	0-4'	22.25	7696.5
	4'-7'4"	11.5	
	7'4"-10'	10.	
B-50	0-4'	4.5	7716.2
	4'-7'4"	6.	
	7'4"-8'6"	5.5	
B-51	0-4'	5.5	7735.2
	4'-7'4"	5.5	
	7'4"-10'6"	5.5	
B-52	0-4'	5.5	7695.9
	4'-7'3"	4.	
	7'3"-10'6"	4.	
	10'6"-12'	4.	

HOLE		DEPTH	% LOSS	ELEVATION
B-53		0-4'	2.5	7702.4
		4'-7'3"	3.	
		7'3"-8'5"	4.5	
B-54		0-4'	5.	7710.8
		4'-7'3"	4.5	
B-55		0-4'	8.5	7717.10
		4'-7'3"	10.5	
B-56		0-4'	6.5	7734.6
		4'-7'	9.5	
B-57		0-4'	5.5	7763.7
		4'-7'3"	3.	
		7'3"-10'	3.5	
B-58		0-4'	4.5	7782.5
		4'-5'	2.5	
B-61		0-4'	4.5	
		4'-5'	2.5	
B-63		0-4'	6.5	7693.7
		4'-7'3"	6.	
		7'3"-10'6"	7.5	
		10'6"-14'	7.	
		14'-17'3"	8.5	
B-64		0-4'	5.5	7703.8
		4'-7'3"	6.5	
		7'3"-10'6"	6.5	
		10'6"-14'	5.5	
		14'-17'3"	5.5	
B-65	Channel	0-4'	4.	7943.1
		0-4'	4.5	
		4'-7'	5.	
B-66	Channel	0-5.25'	3.5	7948.3
		0-4'	3.5	
		4'-7'3"	3.	
		7'3"-10'6"	5.	
B-67	Channel	0-2'5"	9.5	7953.8
		0-4'	8.5	
		4'-7'3"	7.	
B-68		0-4'	10.	7941.5
		4'-7'3"	6.	
		7'3"-10'6"	4.	
		10'6"-13'	3.5	

HOLE		DEPTH	% LOSS	ELEVATION
B-69	Channel	3.6	55.5	7494.9
	Channel	4.5	50.5	
	Channel	5.5	36.5	
		0-4'	17.0	
		4'-7'3"	14.0	
		7'3"-10'6"	10.0	
		10'6"-14'	9.0	
		14'-17'3"	7.5	
		17'3"-20'6"	6.5	
		20'6"-24'	7.5	
		24'-27'3"	7.5	
		27'3"-30'6"	9.0	
		30'6"-32'5"	8.5	
B-70		0-4'	5.5	7475.1
		4'-7'3"	6.0	
		7'3"-10'6"	6.0	
		10'6"-14'	6.0	
B-71		0-4'	5.5	7445.0
B-72		0-4'	8.0	7427.1
		4'-7'3"	7.5	
		7'3"-10'6"	8.0	
		10'6"-14'	8.0	
		14'-17'3"	9.5	
		17'3"-19'	—	

MAP

BELONGS

HERE

C
O
P
Y

Sunlight Basin, Wyoming,
September 12, 1951.

SUMMARY REPORT ON SULPHUR DEPOSITS "E" AND "A2" CONTINENTAL SULPHUR AND PHOSPHATE CORPORATION SUNLIGHT BASIN, PARK COUNTY, WYOMING

INTRODUCTION. This report concerns itself principally with the mapping, sampling by Parmanco auger drill and tonnage and sulphur content estimates of the sulphur deposits known as Deposit "E" and Deposit "A2", shown on the E. W. Krampert map to be situated in the southwest quarter of section 9, and near the southeast corner of section 1, Township 54 North, Range 106 West, respectively. The sulphur occurrence on Deposit "E" is in all respects identical to those on Deposits "B" and "D" while the occurrence on Deposit "A2" differs slightly from the other deposits as described in greater detail further on in this report.

DEPOSIT "E"

MAPPING Plane table mapping of Deposit "E" was done on a scale of 1 inch equals 100 feet. The map which accompanies this report as Plate 1 shows all surface features, survey stations and auger test drill holes. The map shows 4 generally horizontal benches along which the holes were drilled, as well as the locations of 7 cross section. All holes drilled are located on or near the cross sections except one, which showed too small amounts of sulphur to enter into tonnage calculations; it also shows locations of Block 1 to 3 of estimated sulphur tonnages. The data presented on the map is based on 32 determined surface elevations and distances and on the results from 28 drill holes. The work is tied in with the R. C. Rader claim re-survey as well as with the topographic map prepared by the United States Geological Survey.

Plate 2 attached to this report shows 7 cross sections based on survey notes, plan map and drill log and laboratory data. Percentage determinations of sulphur are by ignition test only. The sections show surface observations and channel samples taken at some of the drill hole locations, as well as depth of holes and sample results.

DRILLING Drilling was carried on in the same manner as it was on Deposits "B" and "D". The drill started operations on August 29th, and finished drilling on September 2nd. 28 holes were drilled to a total depth of 401.8 feet and 19 channel samples totaling 27.8 feet were taken, from which 137 samples resulted. The average depth of hole was 14.35 feet and the average width of channel sample was 1.5 ft. A total of 14 nine hour man days were required for the work, apart from caterpillar dozing for benches. The deepest hole drilled was 30.6 ft. A log of each drill hole has been kept.

LABORATORY The same methods as described in my former reports on Deposits "B" and "D" were used in the laboratory for quartering and grinding samples and determining sulphur contents by ignition tests only.

TONNAGE AND VALUE CALCULATIONS Tonnage and value calculations are based on the above described work and details of calculations have been recorded. Geometrical averages of holes, parts of sections, sections and blocks were worked out for final results and the three determined

blocks of sulphur tonnage are shown on Plate 1. and their tonnage and value set forth below.

Block No.	Ore Short tons	Aver. % Sulphur	Sulphur Long tons	Aver. depth feet
1	1271	25.0	289	3.4
2	2054	25.9	484	4.9
3	1365	19.8	246	4.8
	4690		1019	

The above are the closest estimates which can be made from available data.

DEPOSIT "A2"

GEOLOGICAL FEATURES

The occurrence of sulphur in larger amounts on Deposit "A2" centers around a block of highly altered limstone and surface as well as underground showings of considerable amounts of gypsum and solution cavities and crevices some of which appear to be entirely filled with sulphur, while others show sulphur incrustations along their irregular walls. Test hole A2-4 ran into an open crevice from 7.3 ft. to 15 feet from which no returns could be obtained. Gray, semi-liquid mud containing a considerable amount of gas was obtained in the bottom of hole A2-6 which gave returns of 52% sulphur.

It is possible that considerable subsidence, as much as 100 feet, has taken place during the past in the vicinity of the present limestone outcrop and that some of the limestone has been altered to gypsum, with deeper penetration of air into this altered mass and slightly deeper formation of sulphur in some of the cavities and crevices than in the other deposits in Sunlight Basin.

Six holes were drilled on Deposit "A2" during the time available. Hole A2-1 was drilled to a depth of 43.3 ft., ending in reddish brown mud. Geometrical averages of 5 holes were worked out and these were combined for a geometrical average and tonnage estimate for the drilled up part of the deposit. Due to greater depth of sulphur bearing material and higher values in some of the holes, Deposit "A2" shows a greater sulphur tonnage than any of the other deposits, namely:

TONNAGE 15,647 short tons of ore averaging 34.8% sulphur, or 4950 long tons of sulphur.

It is possible that some additional test drilling around the limestone outcrop to the south of the block drilled and shown on Plate 3 accompanying this report might double the above tonnage figures. However, due to the loose character of the ground drilled through, it is also possible that some of the samples taken were salted due to cavey holes. As much gypsum is present, ignition tests may also show more sulphur than is actually present in the samples.

All of the holes drilled on Deposit "A2" are shown in cross section on Plate 2 accompanying this report, together with sample results and depths of holes. Deposit A2 is the hardest deposit of access as it lies within a precipitous cirque which can be reached by four wheel drive vehicles only during dry weather. Additional road construction would be necessary to make this deposit easier to reach.

Respectfully submitted,

/s/ Harold W. C. Prommel.

Harold W. C. Prommel.
Consulting Geologist and Mining Engineer
Denver, Colorado

HWCP/p

"E" DEPOSIT

HOLE		DEPTH	% LOSS	ELEVATION
E-1	TD	9'		
	Channel	1.5'	8.0	7745.0
		0-4'	13.5	
		4-7.3'	5.5	
		7.3-9'	4.0	
E-2	TD	30.6'		
	Channel	2.0'	15.0	7755.4
		0-4'	13.5	
		4-7.3'	9.0	
		7.3-10.6'	7.5	
		10.6-14'	7.0	
		14-17.3'	6.0	
		17.3-20.6'	6.5	
		20.6-24'	6.0	
		24-27.3'	5.0	
		27.3-30.6'	5.5	
E-3	TD	9.0'		
	Channel	0.5'	11.0	7751.3
		0-4'	8.5	
		4-7.3	6.5	
		7.3-9.0'	9.5	
E-4	TD	15.5'		
		0-4'	25.0	7747.6
		4-7.3'	11.0	
		7.3-10.6'	11.0	
		10.6-14'	10.5	
		14-15.5'	8.5	
E-5	TD	16.3'		
		0-4'	11.5	7736.2
		4-7.3'	9.0	
		7.3-10.6'	7.5	
		10.6-14'	8.5	
		14-16.3'	8.0	
E-6	TD	16.3'		
	Channel	0.8'	6.0	7733.4
		0-4'	8.0	
		4-7.3'	8.0	
		7.3-10.6'	8.0	
		10.6-14'	7.0	
		14-16.3'	6.5	

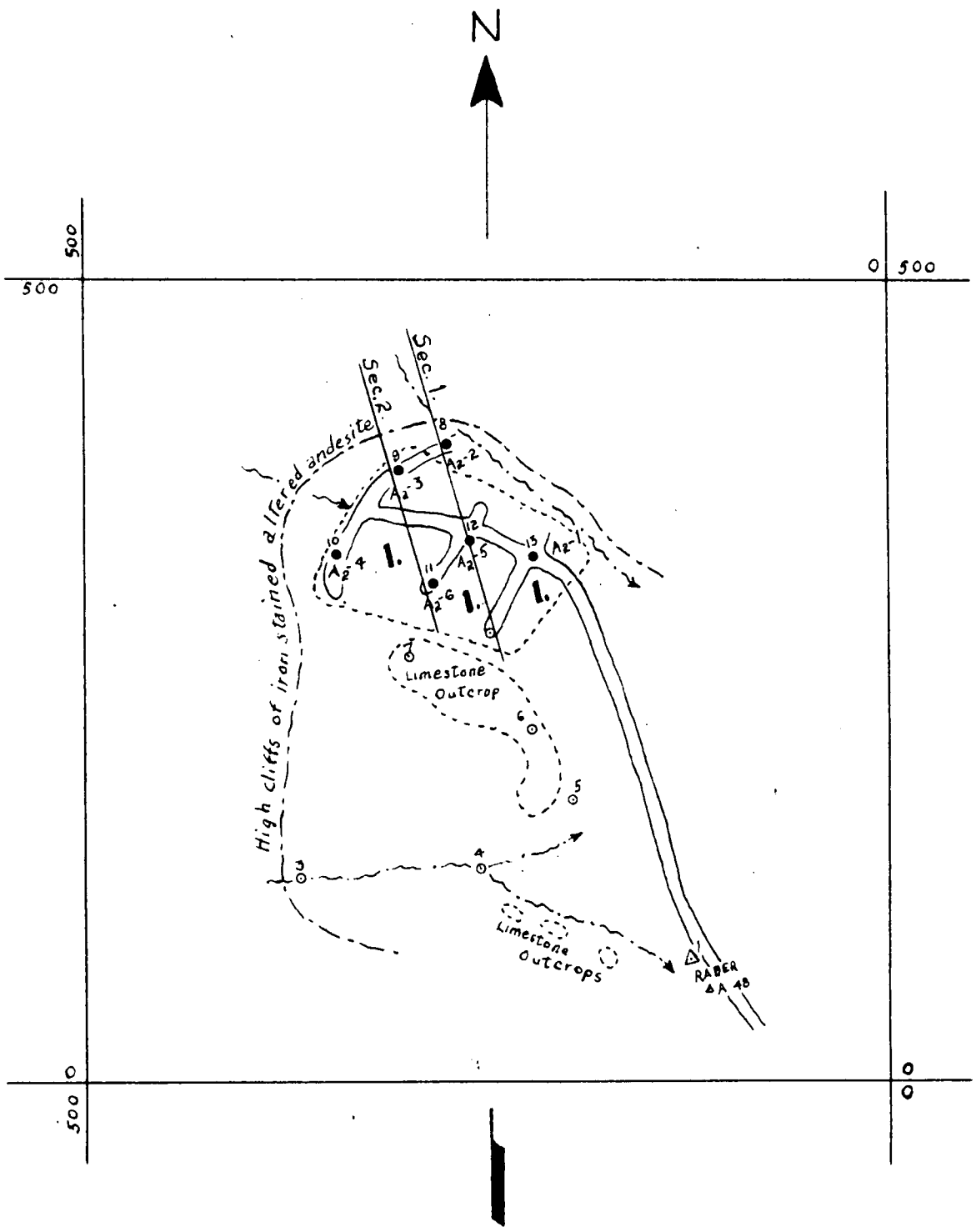
HOLE		DEPTH	% LOSS	ELEVATION
E-7	TD	9.0'		
	Channel	1.0'	10.5	7733.2
		0-4'	13.5	
		4-7.3'	8.5	
		7.3-9.0'	8.0	
E-8	TD	23'		
	Channel	1.5'	38.5	7734.2
		0-4'	26.5	
		4-7.3'	11.0	
		7.3-10.6'	11.5	
		10.6-14'	11.0	
		14-17.3'	9.5	
		17.3-20.6'	8.0	
		20.6-23'	10.5	
E-9	TD	19.0'		
	Channel	2.0'	48.5	7732.8
		0-4'	20.5	
		4-7.3'	14.0	
		7.3-10.6'	11.0	
		10.6-14'	13.5	
		14-17.3'	10.0	
		17.3-19.0'	2.5	
E-10	TD	12'		
	Channel	0.5'	9.0	7729.9
		0-4'	11.0	
		4-7.3'	7.5	
		7.3-10.6'	8.0	
		10.6-12'	7.5	
E-11	TD	14.5'		
		0-4'	19.5	7729.4
		4-7.3'	14.5	
		7.3-10.6'	7.5	
		10.6-14.5'	12.0	
E-12	TD	13.5'		
		0-4'	15.0	7718.9
		4-7.3'	10.0	
		7.3-10.6'	8.5	
		10.6-13.5'	8.5	
E-13	TD	4'		
	Channel	1.0'	11.5	7708.3
		0-4'	9.5	
E-14	TD	11'		
		0-4'	4.5	7710.1
		4-7.3'	6.0	
		7.3-11.0'	7.0	

HOLE		DEPTH	% LOSS	ELEVATION
E-15	TD	6'		
		0-6'	10.5	7703.4
E-16	TD	11'		
	Channel	1.5'	4.0	7706.5
		0-4'	2.5	
		4-7.3'	4.5	
		7.3-11'	4.5	
E-17	TD	11.6'		
	Channel	1.5'	21.5	7709.4
		0-4'	6.5	
		4-7.3'	13.0	
		7.3-11.6'	6.0	
E-18	TD	16'		
	Channel	2.0'	23.0	7707.0
		0-4'	16.0	
		4-7.3'	11.5	
		7.3-10.6'	21.0	
		10.6-14'	10.0	
		14-16'	7.0	
E-19	TD	7.3'		
	Channel	1.5'	7.0	7706.8
		0-4'	7.0	
		4-7.3'	2.0	
E-20	TD	7.3'		
	Channel	2.5'	5.5	7707.9
		0-4'	6.5	
		4-7.3'	14.0	
E-21	TD	8.3'		
	Channel	1.5'	12.0	7681.6
		0-4'	11.5	
		4-8.3'	12.0	
E-22	TD	25.6'		
	Channel	2.0'	7.5	7684.8
		0-4'	5.5	
		4-7.3'	5.0	
		7.3-10.6'	5.5	
		10.6-14'	7.0	
		14-17.3'	7.0	
		17.3-20.6'	6.0	
		20.6-25.6'	10.0	
E-23	TD	24'		
	Channel	1.5'	9.5	7678.8
		0-4'	7.0	
		4-7.3'	5.0	
		7.3-10.6'	4.5	
		10.6-14'	4.0	
		14-17.3'	4.5	
		17.3-20.6'	6.0	
		20.6-24'	6.0	

HOLE		DEPTH	% LOSS	ELEVATION
E-24	TD	19'		
	Channel	1.0'	6.5	7682.6
		0-4'	7.0	
		4-7.3'	7.0	
		7.3-10.6'	5.0	
		10.6-14'	5.5	
		14-17.3'	4.5	
		17.3-19'	6.0	
E-25	TD	16.3'		
		0-4'	12.0	7679.4
		4-7.3'	7.5	
		7.3-10.6'	10.5	
		10.6-14'	7.0	
		14-16.3'	7.0	
E-26	TD	6'		
		0-6'	14.5	7685.1
E-27	TD	20'		
	Channel	2.0'	31.5	7719.1
		0-4'	13.0	
		4-7.3'	7.0	
		7.3-10.6'	6.5	
		10.6-14'	8.5	
		14-17.3'	5.5	
		17.3-20'	6.0	
E-28	TD	20.6'		
		0-4'	14.5	7724.3
		4-7.3'	14.0	
		7.3-10.6'	13.0	
		10.6-14'	11.5	
		14-17.3'	15.5	
		17.3-20.6'	14.5	

"A2" DEPOSIT

HOLE		DEPTH	% LOSS	ELEVATION
A2-1	TD	43.3'		
		0-4'	34.5	
		4-7.3'	10.5	
		7.3-10.6'	15.5	
		10.6-14'	6.0	
		14-17.3'	6.0	
		17.3-20.6'	9.0	
		20.6-24'	6.5	
		24-27.3'	7.0	
		27.3-30.6'	12.0	
		30.6-34'	16.5	
		34-43.3'	17.0	
A2-2	TD	6'		
		0-6'	4.5	
A2-3	TD	20.6		
	Channel	4.5'	8.0	
		0-4'	12.5	
		4-7.3'	34.0	
		7.3-10.6'	35.5	
		10.6-17.3'	34.0	
		17.3-20.6'	16.0	
A2-4	TD	15'		
	Channel	2.0'	15.0	
		0-4'	19.0	
		4-7.3'	56.5	
		7.3-15'	no sample	
A2-5	TD	33'		
	Channel	1.5'	18.5	
		0-4'	59.0	
		4-10.6'	52.0	
		10.6-17.3'	55.5	
		17.3-24'	24.5	
		24-27.3'	18.5	
		27.3-30.6'	16.0	
		30.6-33'	18.0	
A2-6	TD	26'		
		0-4'	5.0	
		4-7.3'	10.5	
		7.3-10.6'	25.5	
		10.6-14'	40.0	
		14-17.3'	42.5	
		17.3-20.6'	25.5	
		20.6-26'	52.0	



Continental Sulphur and Phosphate Corporation
Sunlight Basin, Park County, Wyoming
SULPHUR DEPOSIT "A2"

BY

H.W.C. Prommel
Consulting Geologist and Mining Engineer
Denver Colorado

SEPTEMBER
1951

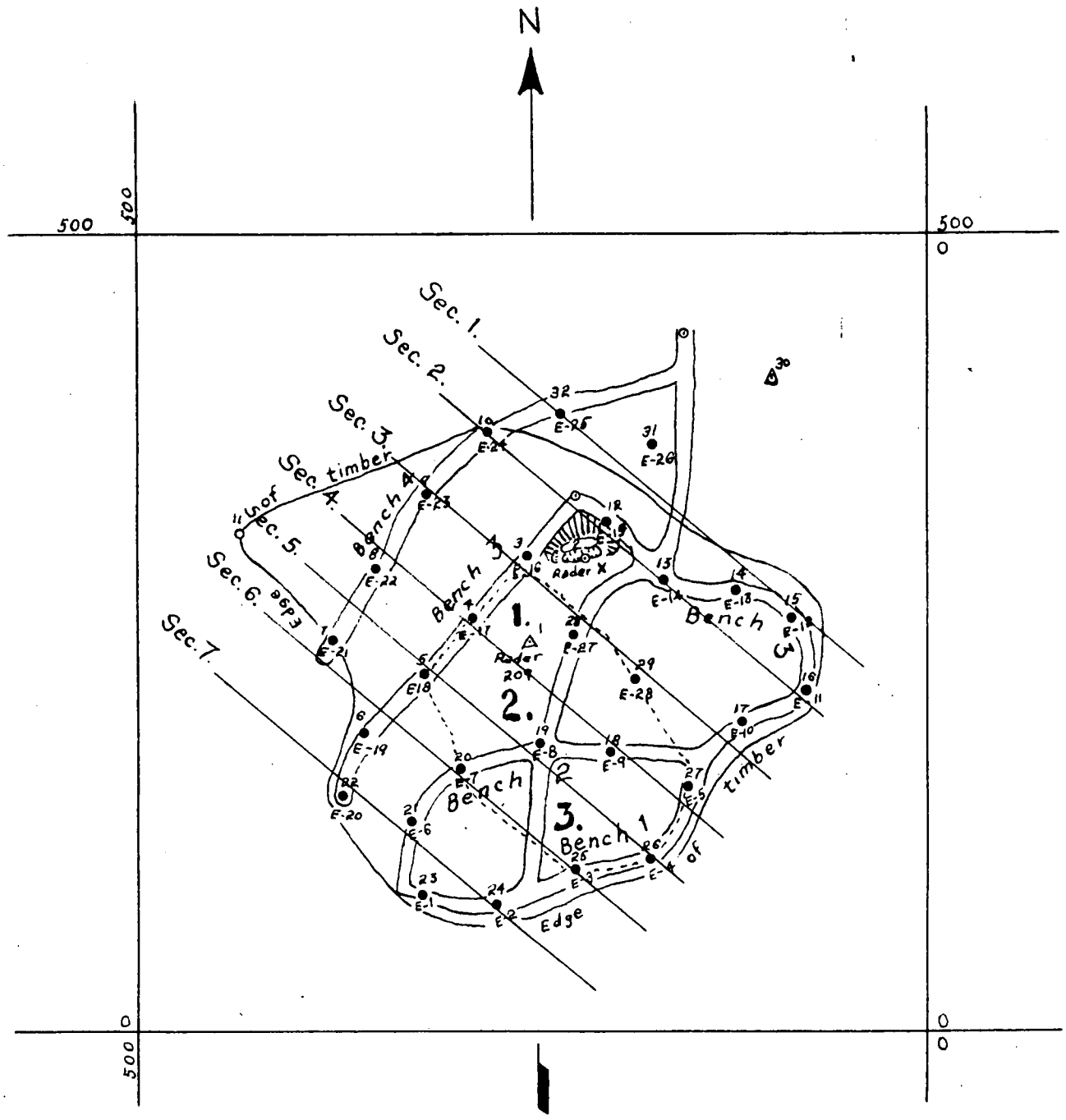
Rader
A-47

Scale
1 Inch = 100 feet
0 50 100 50 200

LEGEND

10	Survey Numbers
△ ⊙	Instrument and Rod Stations
●	Auger Test Hole
A2 3	Numbers

(1) Block of Calculated Sulphur Tonnage



Continental Sulphur and Phosphate Corporation

Sunlight Basin, Park County, Wyoming

SULPHUR DEPOSIT "E"

By

H. W. C. Prommel

Consulting Geologist and Mining Engineer

Denver Colorado

Scale

1 Inch = 100 feet

0 50 100 150 200

LEGEND

10 Survey Numbers

△ ⊙ Instrument and Rod Stations

● E 15 Auger Test Hole Numbers

(2) Blocks of Calculated Sulphur Tonnages

MAP

BELONGS

HERE

CONTINENTAL SULPHUR & PHOSPHATE CORPORATION
2010 TOWER PETROLEUM BUILDING
DALLAS 1, TEXAS

EXHIBIT "G"
EXPLANATION OF DEDUCTION IN THE AMOUNT OF $9,950.00 ON RE-CAP SHEET BEING PAGE SIX OF ATTACHED PHOTOSTAT OF WORK SHEETS

Per Exhibit "B" on Contract:

"$3,000.00 of the total shown for the 1 D-8 Caterpillar (See Exhibit 'c') will be used in the road project	$ 3,000.00
"Miscellaneous use of equipment shown on Exhibit 'c' and supervisory personnel included on Exhibit 'D'	2,950.00
"$4,000 of the labor charges shown on Exhibit 'D' covering head sawyer, assistant sawyers, loggers, head bridge carpenter, and assistant carpenters	4,000.00

$3,000.00 D-8 Caterpillar Rental included Exhibit "C" of work sheets

$2,950.00 under Exhibit "B" of Contract included as Equipment Rental under Exhibit "C" & "D" on work sheets

$4,000.00 under Exhibit "B" of the Contract included in Exhibit "D" of work sheets

CONTINENTAL SULPHUR & PHOSPHATE CORPORATION

By:

President

MAP

BELONGS

HERE

H. W. C. Prennel
Consulting Geologist and Mining Engineer
751 South Downing Street
Denver 9, Colorado

Sunlight Basin, Wyoming
September 8, 1951

SUMMARY REPORT ON SULPHUR DEPOSIT "D" CONTINENTAL SULPHUR AND PHOSPHATE CORPORATION SUNLIGHT BASIN PARK COUNTY WYOMING

INTRODUCTION

This report concerns itself principally with the mapping, sampling by Permanco auger drill and tonnage and sulphur content estimates of the sulphur deposit known as Deposit "D", located in Sunlight Basin, Park County, Wyoming, and shown on the E. W. Krampert map to be situated along the east line of the SE¼ of Section 8, Township 54 North, Range 106 West. The sulphur occurrence on Deposit "D" is in all respects identical to that on Deposit "B", described in greater detail in my summary report dated Sunlight Basin, Wyoming, August 28, 1951. Highest sulphur values were again found in surface debris in which the sulphur occurs as a cementing material. The greatest depth considered for tonnage estimates was 8.1 feet.

MAPPING

Plane table mapping of Deposit "D" was done on a scale of 1 inch equaly 100 feet. The map which accompanies this report as Plate 1 shows all surface features, survey stations and locations of all drill holes. Holes drilled during 1949 were not taken into consideration in arriving at tonnage and value estimates which in this instance are based entirely on the present drilling campaign and results obtained thereby. The map shows 5 generally horizontal benches along which the holes were drilled, as well as the locations of 16 cross sections; it also shows locations of Blocks 1 to 12 of sulphur ore as determined from drilling results and cross sections; it also shows the edge of the timber line. The data presented on the map is based on 104 elevation and distance determinations which are tied in with the H. C. Rader claim resurvey as well as with the topographic map prepared by the United States Geological Survey.

Plate 2 attached to this report shows 16 cross sections based on survey notes, plan map and drill log data. The location of the sections are shown on Plate 1. Percentage determinations of sulphur are by ignition test only. With exception of hole D-41 all holes drilled are located on or near the sections. The sections show surface observations and channel samples taken on the benches at the drill holes, as well as depths of holes and sample results.

DRILLING

No diamond drilling was done by the Jones Drilling Company on Deposit "D" during 1951 or earlier. The Permanco drill started operations on August 18th, drilling 47 holes to a total depth of 750.1 ft. from which 222 samples averaging 3 ft. in width were obtained. In addition, 42 channel samples totaling 116.3 ft. were taken. Drilling was finished on August 28th. A total of 27.5 nine hour man days were required for the drilling apart from caterpiller dozing to establish the benches. The average depth of holes drilled was 15.95 ft. and the deepest hole drilled was 43 ft. The average width of channel samples was 2.8 ft.

A log of each drill hole, containing the same data as the logs for Deposit "B" has been kept. The same methods of drilling and of moving the drill were used as on Deposit "B" and will therefore not be described in detail here.

LABORATORY

Methods employed in the laboratory and the system of storing primary as well as pulp samples and duplicates has been described in my earlier report on Deposit "B" and will not be repeated here.

TONNAGE AND VALUE CALCULATIONS.

Tonnage and value calculations are based on the results of above described work and all details of calculations have been recorded and are kept on record for inspection if desired. Copies of all calculation sheets will be made, for this purpose.

Out of a total of 264 samples obtained, only 16 show a sulphur content greater than 19%. Under such conditions tonnage calculations and value estimates are somewhat difficult to make and are naturally subject to some error. Nevertheless they give a pretty good idea of the approximate amount of sulphur available from Deposit "D". As a rule, only one good sample appeared on a section and many interpolations had to be resorted to in order to determine possible blocks of higher grade sulphur ore. Less tonnage but slightly higher averages could of course be obtained by using lesser depths and smaller lateral extents of blocks. Ore tonnages and sulphur content of 12 blocks as determined are set forth below.

Block No.	Ore. short tons	Aver.% Sulphur	Sulphur long tons	Aver.depth Feet.
1	460	21.3	50.3	4.0
2	346	23.7	74.5	2.9
3	1542	22.9	321.0	4.9
4	2396	26.5	577.1	5.2
5	2356	30.1	645.0	7.9
6	684	25.6	159.0	8.1
7	964	16.8	147.2	6.3
8	1317	19.9	238.3	5.2
9	1352	21.7	268.0	4.6
10	478	19.9	86.4	4.9
11	429	15.4	60.1	5.5
12	893	29.3	242.8	7.0
	13023		2869.7	

Blocks 1 to 6, and Blocks 9 and 11, sulphur content above 20%
6235 tons of ore (short tons)
2337.7 long tons of sulphur.

Blocks 7, 8, 10, 11, sulphur content below 20%
5188 short tons of ore
532 tons (long tons) sulphur.

The above are the closest estimates which can be made from the available data. It will be noted that the higher grade blocks of ore are not contiguous. This is due to the erratic occurrence of sulphur vents, away from which the sulphur content diminished rapidly in the highly altered and bleached andesite country rock.

The casual appearance of Deposit "D" is as deceiving to the eye as is Deposit "B". 28 holes have been drilled now on Deposit "E" on which the holes have been spaced 50 ft. apart. Deposit "E" is much smaller than either Deposits "B" and "D", the general appearance is the same and the tonnage will be very small.

6 holes have also been drilled on Deposit A2. While these holes show fair sulphur over a slightly greater depth than the other deposits, the sulphur bearing area appears to be confined to the vicinity of the limestone outcrop and is very small indeed. One hole on Deposit A2 was drilled to a depth of 43 ft., showing semi-liquid black slimes in depth containing a considerable amount of H_2S and probably CO_2 gases.

Respectfully submitted

Harald W. C. Prossel
Consulting Geologist and Mining Engineer
Denver, Colorado

Sunlight Basin, Wyoming.
September 8, 1951

"D" Deposit

HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-1	8/18/51	0-4'	8.0	7621.6
		4'-7'3"	7.0	
		7'3"-10'6"	6.0	
		10'6"-14'	5.0	
		14'-17'3"	4.5	
D-2	8/18/51	0-4'	7.0	7609.5
		4'-7'3"	6.5	
		7'3"-12'	5.0	
D-3	8/18/51	0-4'	7.5	7600.2
		4'-7'3"	3.5	
		7'3"-9'3"	4.0	
D-4	8/18/51	0-4'	8.0	7590.9
		4'-7'3"	10.0	
		7'3"-12'	6.5	
D-5	8/18/51	0-4'	10.5	7584.5
		4'-7'3"	17.0	
		7'3"-11'5"	11.0	
D-6	8/19/51			
	Channel	5.5'	32.0	7579.1
		0-4'	5.5	
		4'-7'3"	8.0	
		7'3"-10'6"	6.0	
		10'6"-14'	7.0	
D-7	8/21/51			7578.9
	Channel	0-4'	19.5	
		0-4'	8.5	
		4'-7'3"	6.5	
		7'3"-10'6"	8.5	
		10'6"-14'	8.0	
		14'-17'3"	7.0	
D-8	8/22/51			7577.9
	Channel	0-6'	44.5	
		0-4'	14.0	
		4'-7'3"	16.5	
		7'3"-10'6"	17.5	
		10'6"-13'	18.0	
D-9	8/18/51	0-4'	11.5	7578.3
		4'-7'3"	6.5	
		7'3"-8'8"	6.0	
D-10	8/18/51	0-4'	8.0	7572.0
		4'-7'3"	6.5	
		7'3"-10'6"	7.0	
		10'6"-14'	7.0	
		14'-17'3"	7.0	
		17'3"-20'6"	6.5	
		20'6"-24'	7.0	

HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-11	8/19/51	0-4'	34.5	7568.4
		4'-7'3"	8.5	
		7'3"-10'6"	8.5	
		10'6"-14'	10.0	
		14'-17'3"	9.0	
D-12	8/19/51	0-4'	8.0	7562.0
		4'-7'3"	7.5	
		7'3"-10'6"	9.0	
		10'6"-12'6"	8.0	
D-13	8/19/51	0-4'	7.0	7552.7
		4'-7'3"	8.0	
D-14	8/19/51	0-4'	7.5	7546.1
		4'-6'5"	7.5	
D-15	8/22/51			7561.0
	Channel	0-2'	20.0	
		0-4'	6.0	
		4'-6'5"	6.0	
D-16	8/22/51			7559.1
	Channel	0-3'5"	32.0	
		0-4'	11.0	
		4'-7'3"	9.5	
		7'3"-11'6"	14.5	
D-17	8/22/51			7563.6
	Channel	0-3.5	31.5	
		0-4'	19.5	
		4'-7'3"	10.0	
		7'3"-10'6"	10.5	
		10'6"-14'	9.0	
		14'-17'3"	8.0	
		17'3"-20'	7.5	
D-18	8/19/51			7602.8
	Channel	0-1'	12.0	
		0-4'	16.5	
		4'-10'6"	14.0	
		10'6"-14'	8.0	
D-19	8/19/51	0-4'	19.0	7600.4
		4'-7'3"	21.5	
		7'3"-9'	10.5	
D-20	8/19/51			7600.7
	Channel	0-4'	9.5	
		0-4'	8.5	
		4'-7'3"	9.5	
		7'3"-10'6"	7.5	
		10'6"-14'	8.0	
		14'-17'3"	6.5	
		17'3"-20'6"	7.0	
		20'6"-24'	6.0	
		24'-27'3"	5.5	
		27'3"-30'6"	10.5	

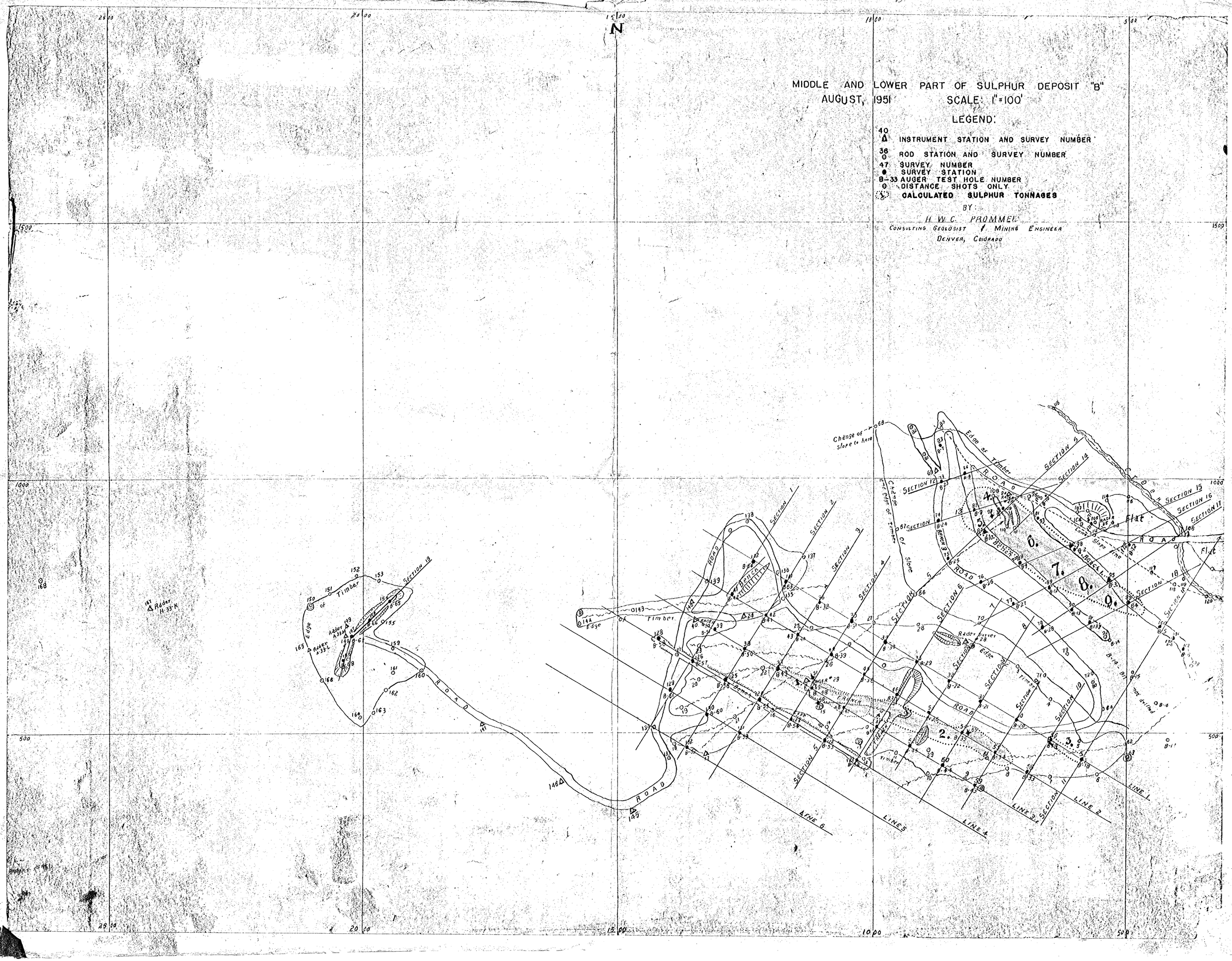
HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-20	continued	30'6"-34'	11.5	
		34'-37'3"	12.0	
		37'3"-39'1"	9.5	
D-21	8/20/51			7605.9
	Channel	0-3'	5.5	
		0-4'	7.0	
		4'-7'3"	6.0	
		7'3"-10'6"	5.0	
D-22	8/20/51			7606.4
	Channel	0-2'5"	9.5	
		0-4'	10.5	
		4'-7'3"	9.5	
		7'3"-10'6"	11.5	
		10'6"-14'	12.0	
		14'-16'	11.0	
D-23	8/20/51			7606.2
	Channel	0-1.5'	8.0	
		0-4'		
		4'-7'3"	8.0	
		7'3"-9'	8.0	
D-24	8/20/51			7606.0
	Channel	0-1'	6.0	
		0-4'	5.5	
		4'-6'	6.5	
D-25	8/20/51			7609.1
	Channel	0-2.5	6.0	
		0-4'	14.5	
		4'-7'3"	12.0	
		7'3"-10'6"	7.5	
		10'6"-14'	5.5	
		14'-17'3"	6.0	
		17'3"-19'	5.5	
D-25.5	8/20/51			7607.5
	Channel	0-1'	7.5	
		0-4'	11.5	
		4'-7'3"	5.5	
		7'3"-10'6"	6.5	
		10'6"-14'	7.5	
		14'-17'	9.0	
		17'-19'6"	9.0	
D-26	8/20/51			7606.7
	Channel	0-3'	5.0	
		0-4'	2.5	
		4'-7'3"	2.5	
		7'3"-10'	4.0	
D-27	8/20/51			7609.0
	Channel	0-2'	4.5	
		0-4'	2.0	
		4'-7'3"	2.0	
		7'3"-10'6"	4.0	
		10'6"-14'	4.5	

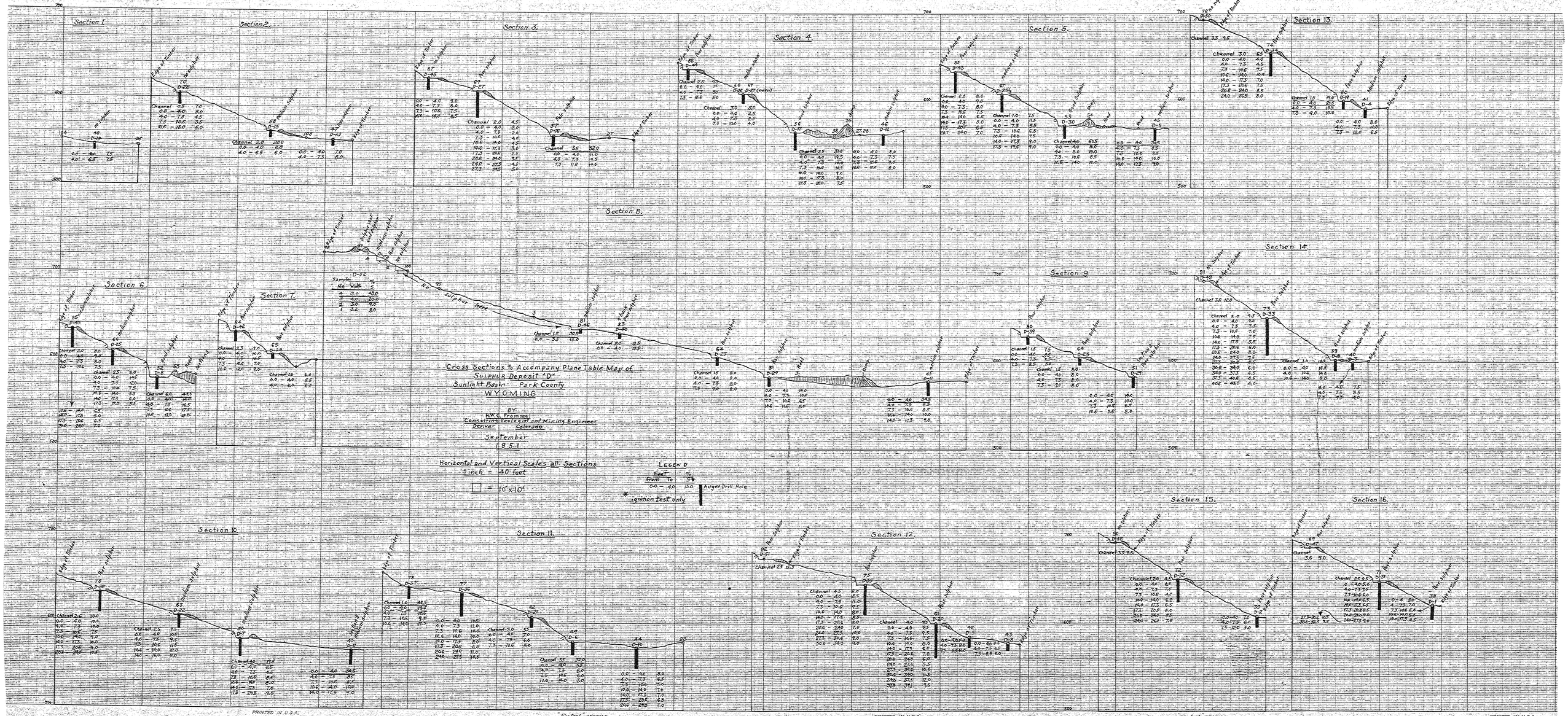
HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-27	continued	14'-17'3"	3.0	
		17'3"-20'6"	2.5	
		20'6"-24'	3.5	
		24'-27'3"	4.5	
		27'3"-29'5"	5.0	
D-28	8/21/51			7605.5
	Channel	0-5'	7.0	
		0-4'	5.0	
		4'-7'3"	4.5	
		7'3"-10'6"	3.5	
		10'6"-13'	5.0	
D-29	8/21/51	0-4'	14.0	7583.5
		4'-7'3"	10.0	
		7'3"-10'6"	6.5	
		10'6"-11'6"	8.0	
D-30	Channel	0-4'	50.5	7572.3
		0-4'	16.0	
		4'-7'3"	13.0	
		7'3"-10'6"	8.5	
		10'6"-14'	10.0	
D-31	8/23/51			7648.0
	Channel	2.5	8.5	
		0-4'	5.0	
		4'-7'3"	7.5	
		7'3"-10'6"	6.0	
		10'6"-14'	6.5	
		14'-17'3"	6.5	
		17'3"-20'6"	8.5	
		20'6"-24'	9.0	
		24'-27'3"	9.0	
		27'3"-30'6"	10.5	
		30'6"-32'5"	9.5	
D-32	8/23/51			7650.9
	Channel	0-2'	8.5	
		0-4'	8.0	
		4'-7'3"	7.5	
		7'3"-10'6"	4.5	
		10'6"-14'	6.0	
		14'-17'3"	6.5	
		17'3"-20'8"	8.0	
		20'8"-24'	5.5	
		24'-26'	7.5	
D-33	8/23/51			7651.0
	Channel	0-2'	9.5	
		0-4'	9.0	
		4'-7'3"	7.5	
		7'3"-10'6"	7.0	
		10'6"-14'	7.5	
		14'-17'3"	5.5	
		17'3"-20'6"	6.0	
		20'6"-24'	8.0	
		24'-27'3"	7.5	

HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-33	continued	27'3"-30'6"	6.5	
		30'6"-34'	6.0	
		34'-37'3"	7.0	
		37'3"-40'6"	6.5	
		40'6"-43'	9.0	
D-34	8/23/51			7655.0
	Channel	0-3'	6.5	
		0-4'	4.0	
		4'-7'3"	4.5	
		7'3"-10'6"	7.5	
		10'6"-14'	10.5	
		14'-17'3"	7.0	
		17'3"-20'6"	7.5	
		20'6"-24'	8.5	
		24'-26'5"	8.0	
D-35	8/23/51			7645.2
	Channel	4.5'	8.0	
		0-4'	8.5	
		4'-7'3"	11.0	
		7'3"-10'6"	9.5	
		10'6"-14'	8.0	
		14'-17'3"	8.5	
		17'3"-20'6"	8.0	
		20'6"-24'	7.5	
		24'-27'3"	10.0	
		27'3"-30'6"	9.0	
		30'6"-34'	9.0	
D-36	8/24/51	0-4'	10.5	7633.8
		4'-7'3"	11.0	
		7'3"-10'6"	10.0	
		10'6"-14'	10.0	
		14'-17'3"	8.0	
		17'3"-20'6"	8.0	
		20'6"-24'	11.0	
		24'-27'3"	10.5	
D-37	8/25/51			7640.1
	Channel	0-1'	46.5	
		0-4'	19.5	
		4'-7'3"	10.5	
		7'3"-10'6"	9.5	
		10'6"-14'	10.5	
D-38	8/24/51			7631.6
	Channel	0-2'6"	10.0	
		0-4'	10.0	
		4'-7'3"	10.0	
		7'3"-10'6"	7.5	
		10'6"-14'	9.0	
		14'-17'3"	10.0	
		17'3"-20'6"	11.0	
		20'6"-24'	10.5	

HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-39	8/24/51			7630.1
	Channel	1.5'	7.5	
		0-4'	8.5	
		4'-7'3"	6.5	
		7'3"-8'5"	5.0	
D-40	8/24/51			7633.0
	Channel	0-2'	12.5	
		0-4'	13.5	
D-41	8/24/51			7629.6
	Channel	3.3	7.0	
		0-4'	8.0	
		4'-7'3"	7.0	
D-42	8/25/51			7632.3
	Channel	2.3'	9.0	
		0-4'	10.0	
		4'-7'3"	10.5	
		7'3"-10'6"	7.0	
		10'6"-12'	9.0	
D-43	8/25/51			7634.0
	Channel	0-2'	8.0	
		0-4'	9.0	
		4'-7'3"	8.0	
		7'3"-10'6"	9.5	
		10'6"-14'	6.5	
		14'-17'3"	5.0	
		17'3"-20'6"	6.5	
		20'6"-24'	7.0	
D-44	8/25/51			7635.5
	Channel	0-2.5'	9.0	
		0-4'	7.5	
		4'-7'3"	5.0	
		7'3"-10'6"	5.0	
D-45	8/25/51	0-4'	9.0	
		4'-7'3"	8.0	
		7'3"-10'6"	7.5	
		10'6"-14'	8.5	
D-46	8/25/51			7636.8
	Channel	0-1.5'	30.5	
		0-3'5"	13.0	
D-47	8/28/51			7688.2
	Channel	3.6'	9.0	
D-48	Channel	3.3	9.5	7693.6
D-49	Channel	3.6	12.0	7694.3
D-50	Channel	3.3	9.5	7692.9
D-51	Channel	2.5	15.5	7674.9

HOLE	DATE	DEPTH	% LOSS	ELEVATION
D-52	Channel 1		8.0	7702.6
	" 2		9.0	
	" 3		20.0	
	" 4		43.0	


MIDDLE AND LOWER PART OF SULPHUR DEPOSIT "B"
AUGUST, 1951
SCALE: 1"=100'
LEGEND:
40 INSTRUMENT STATION AND SURVEY NUMBER
36 ROD STATION AND SURVEY NUMBER
47 SURVEY NUMBER
SURVEY STATION
B-33 AUGER TEST HOLE NUMBER
DISTANCE SHOTS ONLY
CALCULATED SULPHUR TONNAGES
BY:
H. W. C. PROMMEL
CONSULTING GEOLOGIST & MINING ENGINEER
DENVER, COLORADO
N
ROAD
Edge of Timber
Change of slope to here
Change of Edge of Timber
Flat
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10
SECTION 11
SECTION 12
SECTION 13
SECTION 14
SECTION 15
SECTION 16
SECTION 17
SECTION 18
SECTION 19
LINE 1
LINE 2
LINE 3
LINE 4
LINE 5
LINE 6
Rader H-33-K
Rader A-33-L
Rader A-33-M
Rader survey
1500
1000
500
2500
2000
1500
1000
500



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EUGENE DIETZGEN Co.
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Continental Sulphur and Phospate Corporation

Cross Sections to Accompany Plane Table Maps of
SULPHUR DEPOSITS "E" AND "A2"
Sunlight Basin, Park County
WYOMING

By
H.W.C. PROMMEL
Consulting Geologist and Mining Engineer
DENVER COLORADO

September
1951

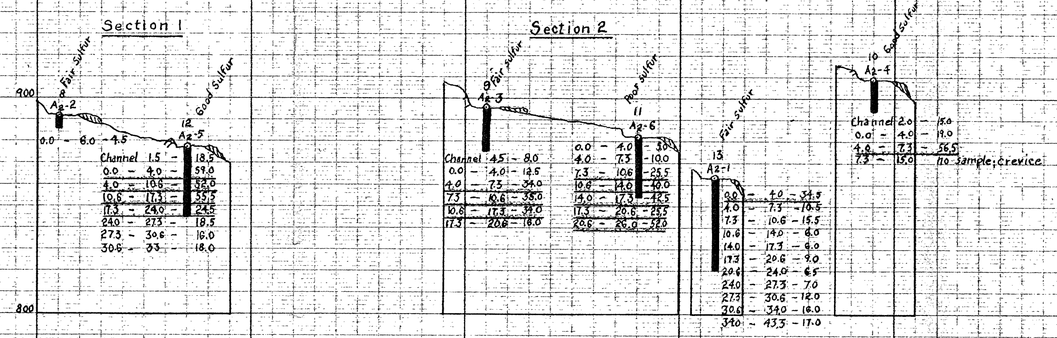
Horizontal and Vertical Scales
1 inch = 40 feet
☐ = 10' x 10'

LEGEND
15 E-10 — Survey Number / Auger Drill Hole Number

From ft	To ft	% S *
0.0	4.0	16.0

* ignition tests only

DEPOSIT "A2"



DEPOSIT "E"

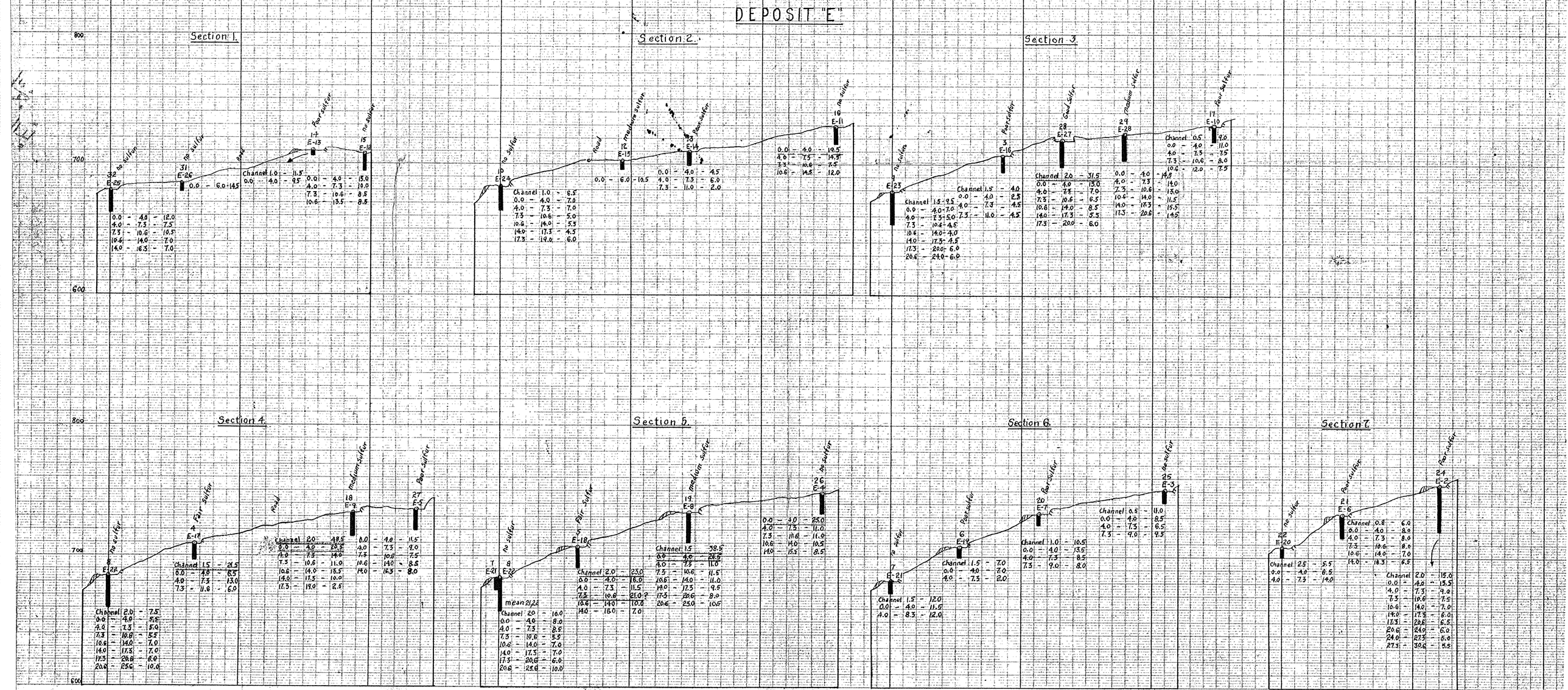


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PLATE A.
EUGENE DIETZGEN Co.

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"Perfect" PROF
PLATE A.
EUGENE DIETZG

Exhibit "B"

Continental Sulphur & Phosphate Corp.
F-DMA-E28 Cody Wyo. Sunlight Basin
6 Pages. Numbered.

Copy from Original Worksheet

	CK#		Total	Roads - Repairs & Improvements: Total Road	Equip Rental	Bridge Labor	(Site in Col. #3) Explosives	Lumber & Material	Superviser's Log (Cols.): Total Camp Site	Labor	Bldg & Fixtures	Materials
8	134	Treas. of U.S. Internal Rev	40.56									
3	134	Cody Water Alby.	36.56						36.56		36.56	
10	147	McClellan & Kaiser	206.40	206.40		206.40						
12	163	Ralston Hdwe.	15.97	15.97				15.97				
19	166	Davis Const Co.	440.56	440.56	440.56							
27	178	" "	105.73	105.73	105.73							
3	183	" "	291.35	291.35	291.35							
8	204	McClellan & Kaiser	196.58	196.58		196.58						
11	215	Cody Welding & Mach. Co.	47.75	47.75				47.75				
5	244	Ralston Hdwe.	5.19	5.19				5.19				
13	248	Davis Const Co.	751.03	751.03	751.03							
20	261	American Pipe & Sup Co.	29.97	29.97				29.97				
3	278	Davis Const Co.	487.68	487.68	487.68							
10	278	Joe McNulty	27.45						27.45			27.45
18	259	Dennis P. Corbett	333.28						333.28			333.28
18	260	Oxygen Equip Co. Roving	53.20						53.20		53.20	
20	262	W. McKay Hdw. (97.90 to "B")	4.75									
23	265	Davis Const Co.	385.00	385.00	385.00							
23	266	Y Lumber Co.	31.06	31.06				31.06				
13	304	Powell Lumber Co.	9.95	9.95				9.95				
6	309	Joe McNulty	16.88						16.88		16.88	
6	314	Rupp's Hdwe. Co.	6.14						6.14			
6	317	Diamond R. Co.	245.95	245.95				245.95				
8	348	Davis Const Co.	309.95	309.95	309.95							
11	350	Davis Const Co.	247.84	247.84	247.84							
11	353	Cody Welding Co.	21.77	66.57				66.57	149.70			149.70
11	356	McClellan & Kaiser	139.39	139.39		139.39						
		Dennis P. Corbett Atty.	86.00						86.00	86.00		
		Labor Tot for "E" to "B"	90.00						90.00	90.00 from "E"		
		Total "B"	3,808.20	3,115.89	2,514.84	465.37		135.48	1,857.29	938.00	117.76	526.63
									27.			
		Total "B"	27.						170.00			
		Plus	53.									

Continental Sulphur & Phosphate Corp.
By [illegible]
Pres.

Exhibit "C" (Page 2)

Same

Date	Ck	Payee	"C" Total	~~List of Oper. Equip~~ Oper. Equip Total	Rental	Items to be Purchased: Laboratory Total	Labor	Equip Purchased	Material	Oper Drill Total	Equip Purchased	Labor Opr + Helper	Supplies	Equip Rental	Salary - Gen. Manager + Expenses
7-5	138	Continental Sup Co.	28.05							28.05			28.05		
13	145	JWC Pommel	600.00			600.00		600.00							
14	164	C B+Q RR	190.34							190.34	190.34				
30	189	Continental Sup. Co.	24.35							24.35			24.35		
9-13	250	Railway Express	4.06							4.06			4.06		
6	243	Chas Bro Serv Co.	6.94			6.94			6.94						
13	252	JWC Pommel (325.00 Lx 0.14 F	153.37			153.37			153.37						
13	253	Howard F. Bell Sup Prints	6.00							6.00			6.00		
14	255	Paris Mfg. Co.	32.67							32.67			32.67		
31	294	Lon Knight (117.01 to "F"	25.45			4.05			4.05	16.35			16.35		
27	285	Paris Mfg. Co.	97.37							97.37			97.37		
27	264	" "	35.88							35.88			35.88		
29	290	Howard F. Bell Sup Prints	24.00							24.00			24.00		
9-1	303	Denver Fire Clay Co.	77.18			77.18			77.18						
3	305	C B+Q RR	29.35			29.35		29.35							
8	340	Chas Bro Serv. Co.	6.17			6.17			6.17						
8	341	Denver Fire Clay Co.	8.57			8.57			8.57						
11-1	351	Howard F. Bell Prints	15.00							15.00			15.00		
7-5		Paris Mfg. Co.	361.36							361.36	361.36				
		1-Willys Jeep So Deep @ 10.00	800.00	800.00	800.00										
		1-Gage Power Wrench 61" @ 14.50	762.50	762.50	762.50										
		1-DB Cat. 61" @ 50.00	3050.00	3050.00	3050.00										
		1-Power Wrench 69" @ 14.50	862.50							862.50				862.50	
			1155.37							1155.37		1155.37			
			398.75							398.75		398.75			
			4500.00							4500.00					
		SUB TOTAL	16465.08	4617.50	4617.50	785.53		529.35	256.18	6507.05	3806.70	1554.12	283.75	862.50	
		W.H. Knight Gen. Mgr. Salary	3000.00							3000.00					3000.00
		" " Expenses	1113.96							1113.96					1113.96
		Total "C"	20579.04	4617.50	4617.50	785.53		529.35	256.18	10621.01	3806.70	1554.12	283.75	862.50	4113.96

Items + Services to be Rented

Continental Sulphur & Phosphate Corp.
by [signature] Pres.

Exhibit "D" (Page 3)

Same

LABOR & SUPERVISION Schedule

Mo	Ck No	Payee	Total	Labor Total	Cook + Helper	Head Sawyer	Asst. Sawyers	Loggers	Head Carpt.	Asst. Carpt.	Time-Keeper	Messhyer		Geological Supervision					
7/10	254	Hugo Rommel (745 h E (1537 to C)	875.00											82.50					
7/8	344	"	2375.00											232.50		Continental Sulphur & Phosphate Corp.			
		Payroll Short	7916.45	7916.45	584.00	92.00	1786.75	1053.50	1147.50	1273.75	411.60	1073.76							
			6.00	6.00	6.00														
		Hugo Rommel (Office Ck)	105.00											105.00					
		SUB TOTAL	11178.45	7922.45	641.00	92.00	1786.75	1053.50	1147.50	1273.75	411.60	1073.76		419.00					
		Transferred to Ex. "E"	1006.75	1006.75															
		TOTAL Ex. "D"	10171.70	5971.00															

Exhibit "E" (Page 4)

SAME

Rehabilitation & Repairs

MS	CK No	Payee	Total	Rehabil. & Repairs Total	Bunkhouse	Work Shop	
M/N	141	Cross Soldier Paint (H Plant)	75.00	75.00		75.00	Continental Supplies & Phosphate Corp.
4/N	130	Dennis P. Corbitt	141.56	141.56	141.56		
		Transferred fr "D"	2006.25	2006.25	1784.00	222.25	
		Sub Total	2222.81	2222.81	1925.56	297.25	
		Transferred #90.00 to "B"	90.00	90.00	90.00		
		Total "E"	1320.81	1320.81	1035.56	297.25	

Exhibit "F" (Page 5)
Uncovered Items on Contract

Same

Date	Check No	Payee	Total	Groceries	Taxes	Fuel & Oil	Supervisors M.E. Rogers	Travel Exp.	Insurance	Freight	Auto Maint & Repairs	Misc Equip Expense	Office		Misc					
9/5	138	C&S Grocery	13365	13365																
9	139	Treasurer, State of Ga. Excpt	5		51															
9	140	Continental Oil Co	10804			10804														
9	141	Petty Cash	17.38												17.38					
9	142	" "	5.25												5.25					
9/13	144	M.E. Rogers	35000				35000													
13	146	C&S Grocery	17.74	17.74																
13	163	Whitington	173.62					173.62												
17	164	C&S Grocery	36.43	36.43																
19	167	Gulf Ref. Co	80.00						80.00											
20	168	Whitington	18.69												18.69					
20	169	Ga. Ry. & Pwr Co. - Jet	29.43							29.43										
27	172	C&S Grocery	134.84	134.84																
27	173	Petty Cash	179.42	4.94				170.00			3.52				17.97					
28	174	C&S Grocery	59.77	59.77																
30	176	Co. Treasurer (Sales)	57.66		57.66															
30	177	Whitington	48.47								23.69	18.05			6.73					
30	180	C&S Gro.	68.30	68.30																
30	181	Westham Mach Co.	5.45								5.45									
30	186	C&S Grocery	56.08	56.08																
30	187	Gulf Ref.	156.97					120.50							36.47					
30	188	Roy Merritt	50.00									50.00								
30	215	Geo. Wilkins Mach Co.	25.55									25.55								
10/2	207	Stanley J. Mitchell	52.47								52.47									
2	206	Westham Mach. Co.	45.86								45.86									
2	210	Gulf Ref Co	53.44						53.44											
2	211	Geo. Mach & Mach Co	55.72												55.72					
2	213	Central Garage	18.72								18.72									
2	214	Marshall Mills Sup Co.	71.72									71.72								
2	216	Whitington	95.02					56.00			15.75				33.27					
2	217	Westham Mach Co.	29.17								29.17									
3	219	C&S Grocery	19.68	19.68																
5	220	Gulf Ref. Sta.	121.67			121.67														
5	221	Century Print Shop Co	7.50								7.50									
6	222	Continental Oil Co	297.60			297.60														
8	226	C&S Gro.	47.37	47.37																
9	228	Frostie Air Line	16.61							16.61										
10	229	Frank Corbett	22.50	22.50																
10	230	Whitington	129.57					90.00				39.57								
13	232	Anthony E. Hogan	34.65					6.00		26.81		2.84								
13	233	Lewis Grocery (Bill of S.D. 1337 T.F.)	74.67					74.67												
13	234	Geo. Mach. Mach. Co	41.91									41.91								
13	235	Westham Mach Co	1.52								1.52									
		Carried forward	4146.6																	

Continental Sulphur & Phosphate Corp. by [illegible] Pres.

Exhibit "F" continued from page 5) (Page 6)
Uncovered items on Contract

1951	Check No.	Payee	Total	Groceries	Taxes	Fuel & Oil	Supervisor Incidentals	Travel Exp.	Insurance	Freight	Equip. Rental Repairs	Misc. Equip. Expense	Office	Truck Hire	Misc	Credits Meals Paid		Ro. A/c. Payee
8/14	256	C&S Grocery	2089	2089												8	20.00	Jones Lumb.
20	262	Lowrey H (Photo Exc 8")	9590	817				8778								21	7.00	"
21	263	C&S Grocery	3179	3179												25	9.00	"
24	267	Dennis P. Corbett (Logging)	28600											28600		5	43.51	Mise Personal
28	269	C&S Grocery	1346	1346												15	19.00	Mix
29	289	Valley Motors	147.5								147.5					15	5.00	Harrel
31	294	Lowrey H (Gasoline)	11701					11701								15	25.00	Dorman
8/1	297	Dennis P. Corbett Logging	90000											90000		28	36.00	Mix
1	298	Teresa Corbett	2780	2780												28	36.00	Corbett
1	299	Coby Inc	18456					2000				16456				28	7.00	Carson
1	300	C&S Grocery	469.5	469.5												28	24.00	White
1	301	P&S Motors	3710								3710					28	28.00	Blackburn
2	302	Roy Prescott (Bookkeeping)	500										500			8/1	3.00	Carson
4	306	Railway Express	996							996						11	34.00	Carson
5	307	Central Motor	4600									4600				11	4.00	White
6	308	Lucke Motor	1078								1078					11	50.00	Blackburn
6	310	Coby Selling Co.	41154	41154												11	32.00	Jackson
6	311	Lowrey H	9014					9014								11	17.00	White
6	312	C. Andrade III	3586					3586								25	24.00	Jackson
6	313	Conroy Serv Sta	430				430									25	32.00	Darkin
6	315	Coby Laundry	1574												1574	25	31.00	White
6	316	Nyshall - Wells Co.	1919									1919				25	50.00	Blackburn
8	326	Teresa Corbett	470	470												25	6.00	White
8	329	Gal'd Bar Dairy	3344	3344												25	26.00	Mix
8	329	Yellowstone Elec	2267									2267				25	31.00	White
8	343	Continental Oil Co	23684				23684									8/3	50.00	Richards
8	347	Lowrey H	8436					8436								8	25.00	Mix
11	355	C.B.&Q. RR	2767							2767						8	27.00	Carson
13	361	Cheatham Mach. Co.	153								153					8	32.00	Wilkins
13	362	Coby Inc	4184					4184								8	21.00	White
13	363	Lucke Motors	1411								1411					8	2.00	Jackson
13	364	Coby Selling Co.	11878	11878												15	8.00	Wilkins
13	365	Conroy Serv Sta	3026				2026									15	11.00	Carson
17	367	Lowrey H	11653					11653								15	26.00	Richards
20	368	Lowrey H	22968					22968								21/10	30.00	Lowrey H
		Edw. M. Rutledge Auditor & Bookk.	10153.30											10153.30	Comp. Daily Journal bal		170.50	
		Arthur Hyvert DS Oper	26800											26800	DS Cat. Oper. for Blackburn & Co. th report			
		Dennis P. Corbett Logging	30055											30055	Logging			
			756488	146793	5817	84029	25000	150549	13544	10188	32014	34266	100	206986	22902			
		Less Ro. Credits (Meals Pd)	140.50	140.50														
			615738	6043 (Cost Insurance)														

Continental Sulphur & Phosphate Corp
By [illegible] Pres.

Re-Cap:

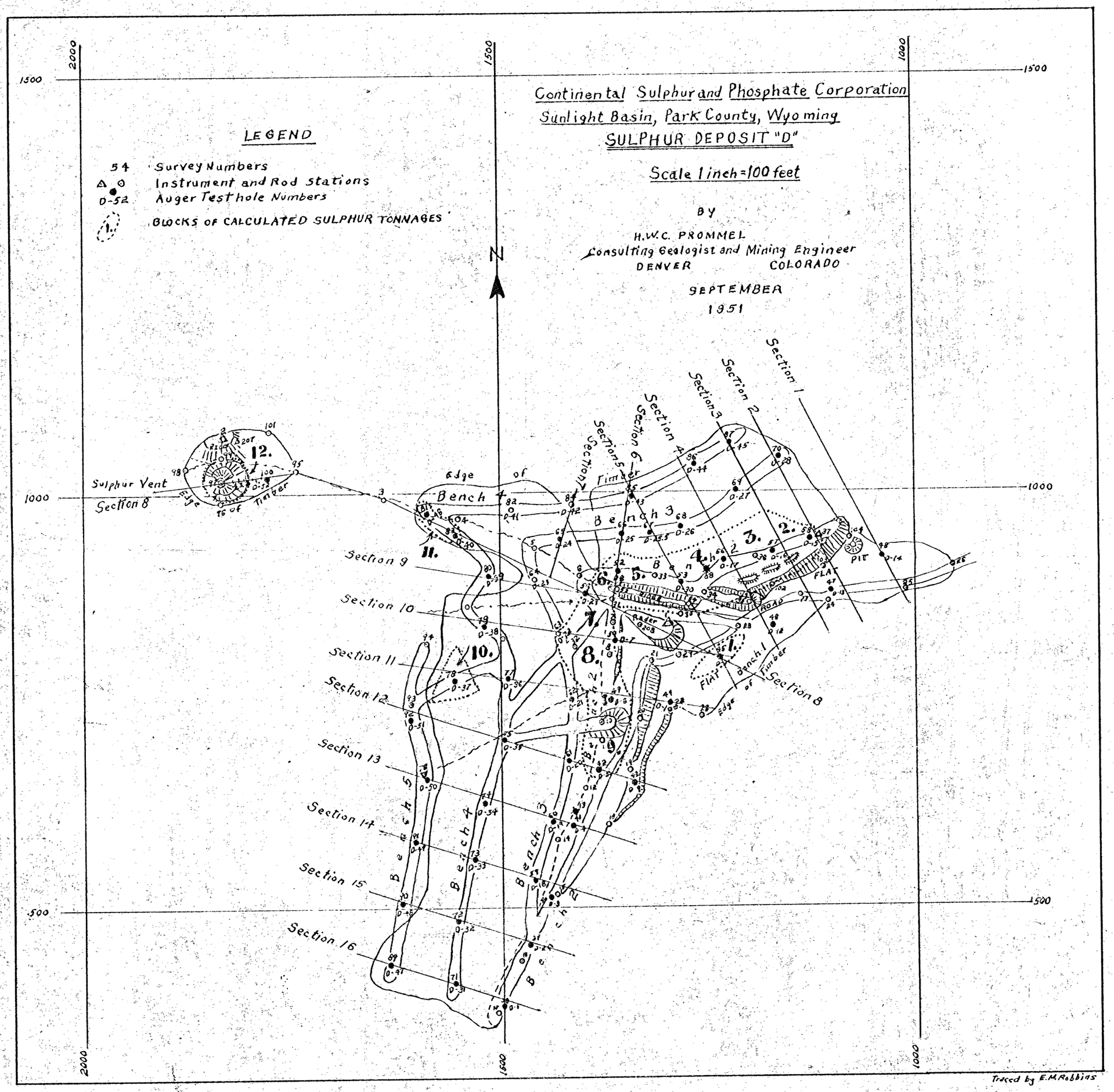
		Amount Spent	Less: Items on B Taken on "D"	Totals Requested		Work Done per Contract Specifications
	Exhibit "B"	3380826	* 3250 00	3358826		* 5700 00
	Exhibit "C"	2051904	-0-	2051904		4017500
	Exhibit "D"	1017200	-0-	1017200		2511000
	Exhibit "E"	1320811	-0-	1320811		3000 00
		6871003		5487031		9658500
ADD	Exhibit "F" Request	615138		615138	less	1117500 Duplication:
		10177169		6102769		17410 00 CONTRACT Total Set out.
					*	5360 82 Allowed Latter fr J.H. East Jr. Denver DMA Team.
						8711082

* Allowed:
C. Hauling 3360 00
E. Labor 1524 82
4884 82

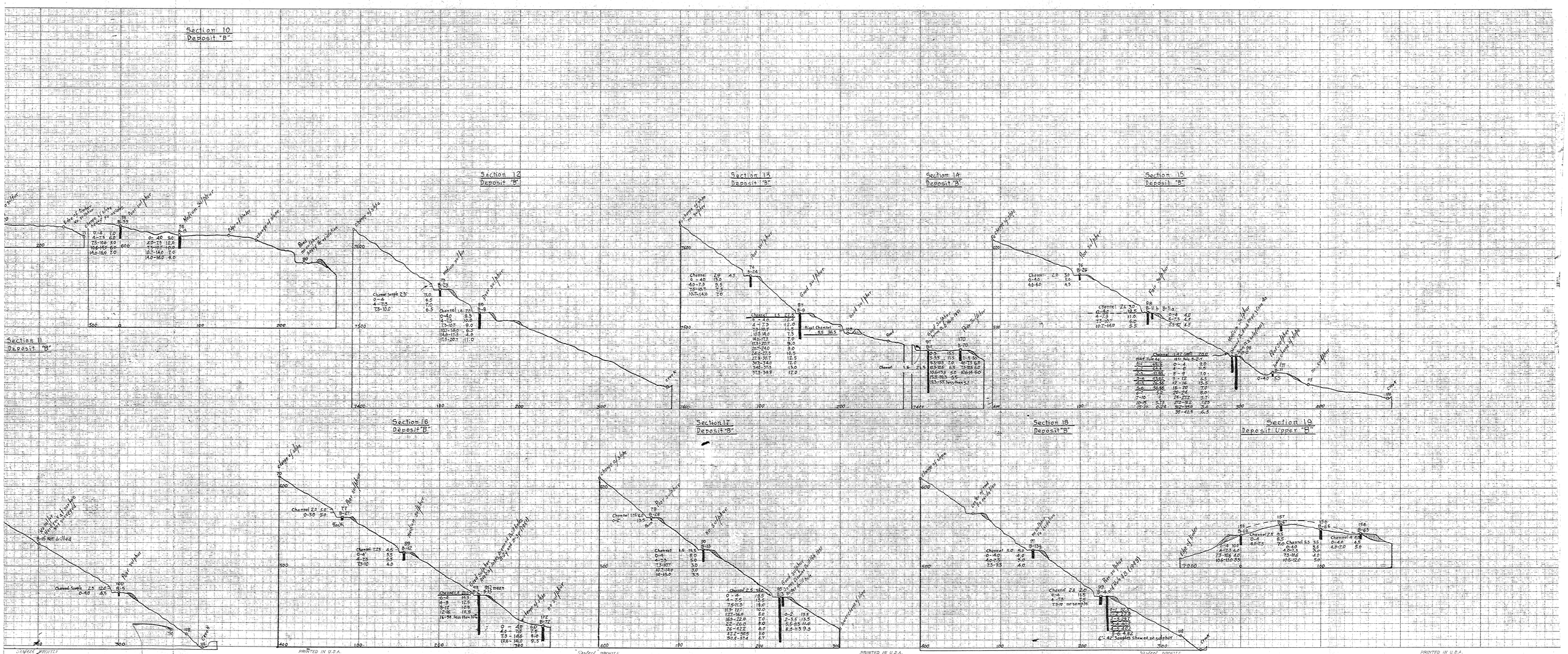
* Less Labor Duplication "B" & "D"

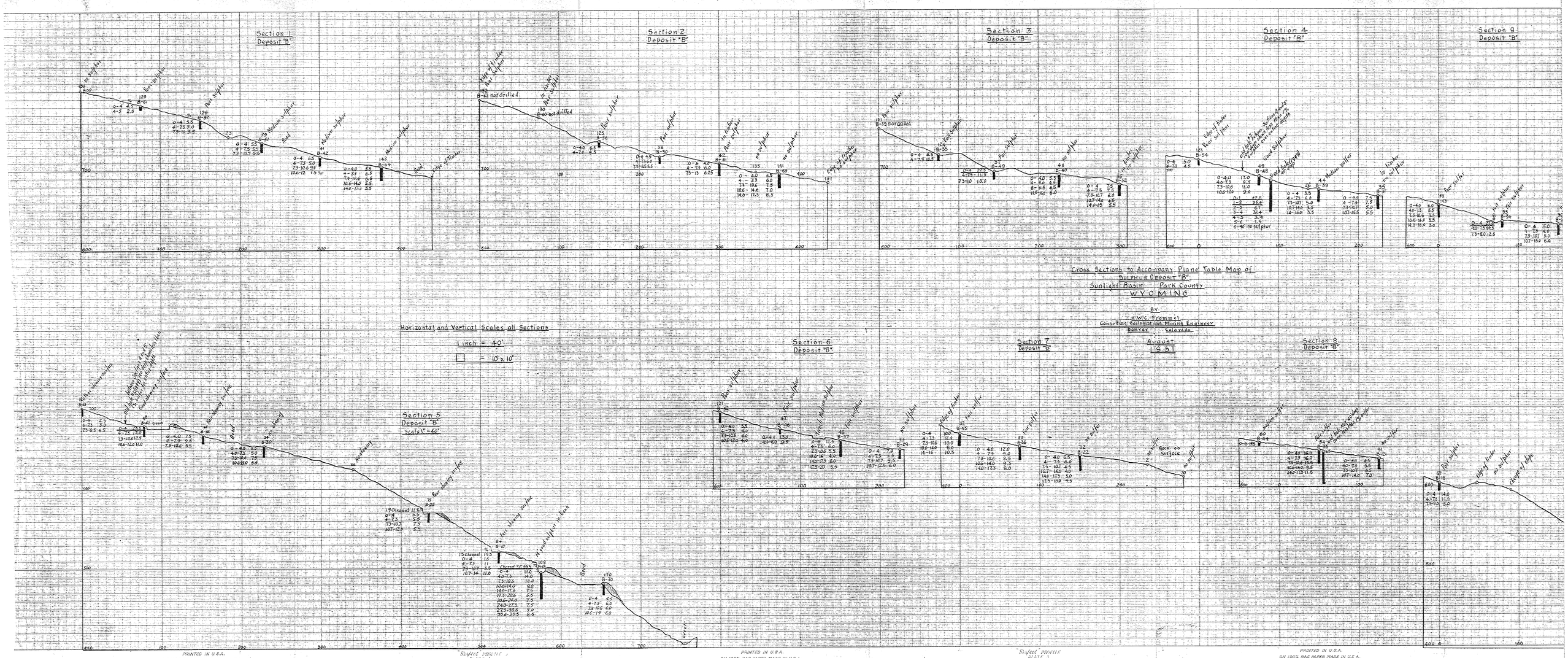
Continental Sulphur & Phosphate Corp.
By [illegible] Pres.

6102769
615138
5487631 over on "B" on Road Allowable on Rental Equipment.



Traced by E.M. Robbins


Section 10
Deposit "B"
Section 11
Deposit "B"
Section 12
Deposit "B"
Section 13
Deposit "B"
Section 14
Deposit "B"
Section 15
Deposit "B"
Section 16
Deposit "B"
Section 17
Deposit "B"
Section 18
Deposit "B"
Section 19
Deposit Upper "B"
Sulphur Bar
Creek
Road
Channel Sample 2.5"
Channel 1.25"
Channel 2.0"
Channel 2.5"
Channel 2.8"
Channel 4.2"
Channel 1.6"
Channel 1.5"
Channel 1.37"
Channel 1.25"
Channel 2.0"
Channel 2.8"
Channel 4.2"
Channel 2.5"
Channel 1.25



Cross Sections to Accompany Plane Table Map of
SULPHUR DEPOSIT "B"
Sunlight Basin Park County
WYOMING

By
H.W.C. Frommel
Consulting Geologist and Mining Engineer
Denver Colorado

August
1951

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