

801322

Form 12

Roof Stations { Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$
 Floor Stations { Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$

Hor. dis. = $t \cos A$
 Dep. = Hor. dis. \times Sin Bearing
 Lat. = Hor. dis. \times Cos Bearing

Scranton Consolidated Mining Company, Inc.
OFFICE RECORD OF SURVEYS

Place Pontiac Sub-level & Meridian Sta X Page 1
 Tape Carinna Mahan & R. Nickerson Sheet 1
 Rodman Dep. Date June 21, 1951
 Instrumentman R. B. Mahan Computed by R. B. M.
 Checked by -

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		d	Elev.	Hor. Dis.	i	s	Natural		Natural	Natural	Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.						Vert. Dis.	Sin A			Cos A	Cos Bear	Sin Bear	N	S	E	W	N
Sta X	Fan Peak	TPI	196°34'	S3°16'E	S3°15'E	11°12'+	131.34	29.88	29.88	128.84	4.37	0	.19423	.98096										
TPI	Sta X	Old Pontiac No 2	65°01'	N61°45'E	N61°30'E	1°32'+	111.07	2.97	36.13	111.03	2.06	1.22	.02676	.99964										
<p>The above two lines of traverse are reversed below for the purpose of plotting Sta X on the map. Sta X is a hole in bedrock filled with lead and is located across road from main building at a point along side of sewer pipe leading from old bunkhouse to main building, as follows:</p>																								
<p>Elev of Old Pontiac Sta No. 2 = 5646.2 Lat = 152.95N Long = 496.05E</p>																								
Old Pontiac Sta No 2		TPI		S61°45'W				-6.25	5639.95	111.03				.47332	.88089			52.55		97.81	100.40			398.24
TPI		Sta X		N3°16'W				-29.88	5610.07	128.84				.99838	.05698	128.63			7.34	229.03				390.90
TPI	Sta X	TP2	207°57'	S24°41'W	S25°15'W	29°35'-	61.83	-28.46	5611.49	53.77	2.06	0	.49369	.86964	.90863	.41760		48.86		22.45	51.54			375.79
TP2	TP1	600	66°06'	S89°13'E	S87°0'E	2°0'+	37.38	+5.01	5616.50	37.36	3.27	0.44	.03490	.99939	.01367	.99991		0.51	37.36			51.03		413.15
600	TP2	601	183°30'	S85°43'E	S84°45'E	0°55'+	45.14	+0.67	5617.17	45.13	1.12	1.07	.01600	.99987	.07469	.99921		3.37	45.00			47.66		458.15
601	600	Center face	151°27'	N65°44'E	N68°0'E	0				58.85				.41098	.91164	24.19			53.65			71.85		511.80

Note: { Roof Stations in above survey are, Old Pontiac No. 2, 600, 601 }
 Floor " " " " " Sta X, TP1, TP2 }

Form 12

Roof Stations

Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$

Floor Stations

Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$

Hor. dis. = $t \cos A$

Dep. = Hor. dis. \times Sin Bearing

Lat. = Hor. dis. \times Cos Bearing

Total Co-ordinates of Sta. 601 = $\begin{cases} 47.66 (N) \\ 458.15 (E) \end{cases}$ Elev. of Sta. 601 = 5617.17

Scranton Consolidated Mining Company, Inc.

OFFICE RECORD OF SURVEYS

Tape Bill Bauman

Rodman.....

Instrumentman R.B. Mahan

Place Pontiac Sub-Level Dr

Page.....

Sheet 2

Date August 20, 1951

Computed by P.B.M.

Checked by.....

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		t	d	Elev.	Hor. Dis.	i	s	Natural	Natural	Natural	Natural	Latitude		Departure		Total Lat.		Total Long.		
						Sin A	Cos A							Cos Bear	Sin Bear	N	S	E	W	N	S	E	W			
601	600	602	151°34'	N65°51'E	N67°E	-0°13'		81.21	+0.16	5617.33	81.21	2.17	2.64	.00378	.99999	.40913	.91248	33.23		74.10		80.89		532.25		
602	601	C/Face	193°14'	N79°05'E	N82°E	0					59.80	-	-			.18938	.98190	11.32		58.72		92.21		590.97		

Form 12

Roof Stations
Floor Stations

Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$
 Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$

Hor. dis. = $t \cos A$
 Dep. = Hor. dis. \times Sin Bearing
 Lat. = Hor. dis. \times Cos Bearing

Sta. 701 \rightarrow { Total lat. = 110.67 (S)
 " long. = 54.83 (W)

Elev. 701 = 5600.03

Scranton Consolidated Mining Company, Inc.

OFFICE RECORD OF SURVEYS

Tape Helgesson
 Rodman
 Instrumentman Mahan

Place Sunset & Sunset Sub-Lev.
 Page
 Sheet 1
 Date May 9, 1952
 Computed by Mahan
 Checked by

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		d	Elev.	Hor. Dis.	i	s	Natural Sin A	Natural Cos A	Natural Cos Bear	Natural Sin Bear	Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.										Vert. Dis.	N	S	E	W	N	S	E
701	700	TS1	172-04	S46-10W		+0-38	48.44	-0.95	5599.08	48.44	2.99	1.5	.01105	.99994	.69256	.72136		33.55		34.94		144.22		89.77
TS1	701	TS2	96-30	S37-20E		-58-00	48.75	-39.54	5559.54	25.83	1.62	3.42	.84805	.52992	.79512	.60645		20.54	15.66	34.94		164.76		74.11
TS2	TS1	800	266-20	S49-00W		+0-44	51.90	1.42	5560.96	51.90	3.42	7.18	.01280	.99992	.65606	.75471		34.05		39.17		198.81		113.28
800	TS2	801	1-43	N50-43E		+0-36	47.64	-0.08	5560.88	47.64	3.05	2.47	.01047	.99995	.63316	.77402	30.16		36.87			168.65		76.41
800	TS2	*802	100-19	S30-41E						17.05					.86000	.51029		12.08	7.17			210.89		106.11
801	800	803	167-08	N37-51E		+0-57	97.49	2.14	5563.02	97.48	2.08	2.10	.01658	.99986	.78962	.61360	76.97		59.81			91.68		16.60
803	801	4/face	206-06	N63-57E						26.60					.43916	.89841	11.68		23.90			80.00	7.30	

* Sta 802 cannot be set up under; Sta. 802 is on H.W. of winze and is for meridian reference only.
 All "Eight Hundred" series are Sunset Sub-level Stations.

Scranton Consolidated Mining Company, Inc.
OFFICE RECORD OF SURVEYS

Tape Carinne Mahan
 Rodman.....
 Instrumentman P.B.

Roof Stations { Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$
 Floor Stations { Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$

Hor. dis. = $t \cos A$
 Dep. = Hor. dis. \times Sin Bearing
 Lat. = Hor. dis. \times Cos Bearing

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A	t	d	Elev.	Hor. Dis.	i	s	Natural	Natural	Natural	Natural	Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.	Vert. Dis.			H.I.	H.P.	Sin A	Cos A	Cos Bear	Sin Bear	N	S	E	W	N	S	E	W
Starting as follows: Lat. of Old Pontiac Tunnel Sta. No. 2 = 152.95(N) Long = 496.05 (E) Elev = 5646.2																								
<p>Hor. Dis. = $t \cdot \cos A = 46.14 \times .99482 = 45.90$ $x = t \cdot \sin A = 46.14 \times .10164 = 4.69$ H.I. at Snow point No. 1 = $5646.20 + 2.53 = 5648.73$ Elev. of " " No 1 = $5648.73 - 3.25 = 5645.48$</p>																								
See Sheet No. 2. for continuance.																								
Old Pontiac 2		Snow Plug No. 1		S63°47'W						45.90			.44177	.89713			20.28	41.18	132.67			454.87		

Form 12

497
 3600
 137

14925

Old Pontiac Tunnel Sta. No. 2: { Total Lat. = 132.95(N)
" Long. = 496.05(E)

Place *Sunset Dr.* Page.....
Sheet *2*
Date *Apr. 20 & 21 1951*
Computed by *P.B.M.*
Checked by.....

Roof Stations { Plus; $d = (t \sin A + s) - i$
Minus; $d = (t \sin A + i) - s$
Hor. dis. = $t \cos A$
Dep. = Hor. dis. \times Sin Bearing

Floor Stations { Plus; $d = (t \sin A + i) - s$
Minus; $d = (t \sin A + s) - i$
Lat. = Hor. dis. \times Cos Bearing

Scranton Consolidated Mining Company, Inc.

OFFICE RECORD OF SURVEYS

Elev. of old No. 2 Sta. Pontiac = 5646.20 For Lost For Dep.

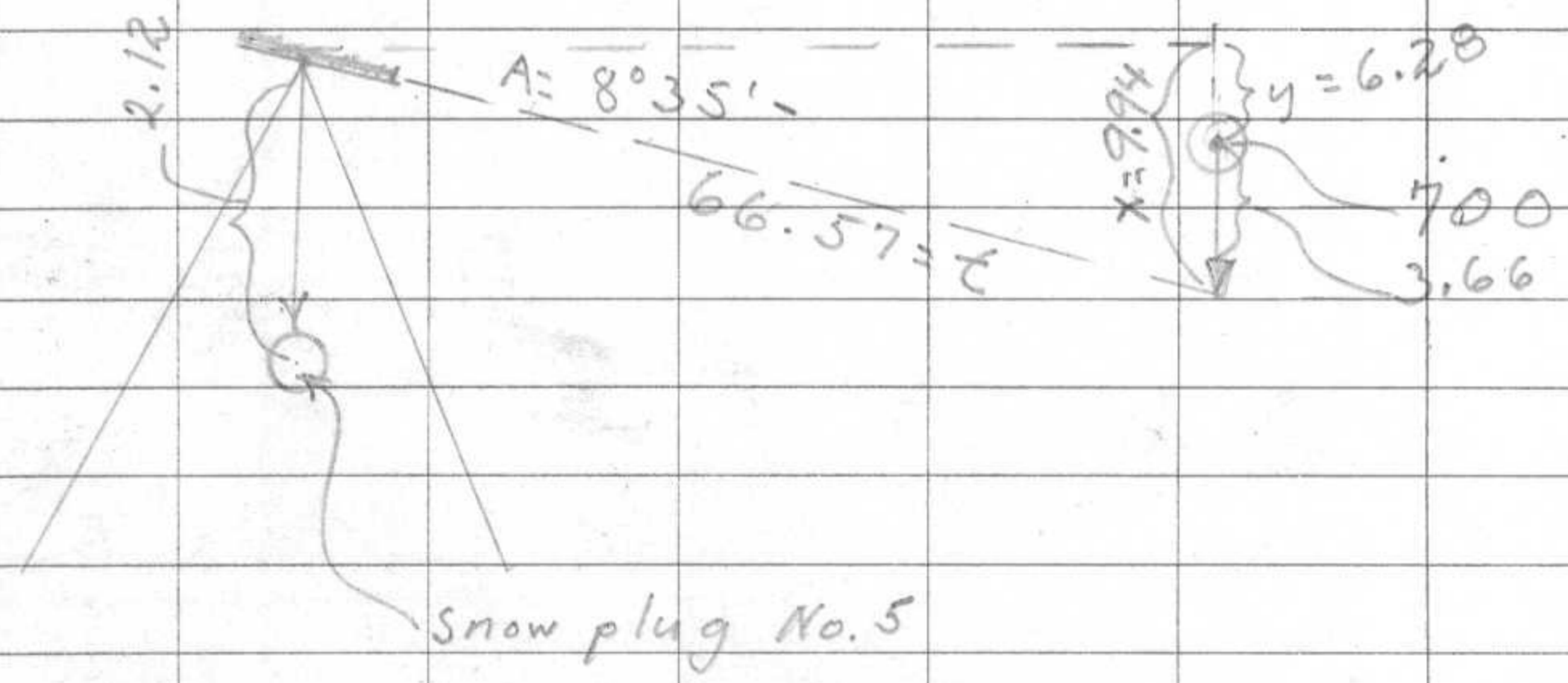
Tape *Caroline Mahan*
Rodman.....
Instrumentman *P.B.*

Form 12

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		t	d	Elev.	Hor. Dis.	H.I.	H.P.	Natural		Natural	Natural	Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.							Sin A	Cos A			N	S	E	W	N	S	E	W
Snow Plug No. 1	Old Pontiac No. 2	Snow Plug No. 2	142°03'	S25°50'W	S28°W	-3°18'	129.82	-4.22	5641.26	129.60	3.25	0			.90007	.43575			^x 116.65	^x 56.47	^x 16.02		^x 398.40		
Snow Plug No. 2	Snow Plug No. 1	Snow Plug No. 3	235°36'	S81°26'W	S83°W	-10°00'	152.98	-26.56	5614.70	150.66	3.21	0			.14896	.98884			^x 22.44	^x 148.98		6.42	249.42		
Snow Plug No. 3	Snow Plug No. 2	Snow Plug No. 4	205°14'	N73°20'W	N71°W	-6°56'	143.35	-13.94	5600.76	142.30	3.36	0			.28680	.95799	^x 40.81		^x 136.32	^x 34.39			113.10		
Snow Plug No. 3	Snow Plug No. 2	S.E. Cor Bunkhouse	309°18'	N30°44'E						238.00					.85956	.51104	^x 204.58		^x 121.63		198.16		371.05		
Snow Plug No. 4	Snow Plug No. 3	Snow Plug No. 5	136°49'	S63°29'W	S65½°W	-0°42'	95.97	+2.32	5603.08	95.96	3.49	0			.44646	.89480			^x 42.84	^x 85.87		8.45	27.23		
Snow Plug No. 5	Snow Plug No. 4	700	138°49'	S22°18'W	S24°W	-8°35'	66.57		5598.92	65.82	2.12	3.66			.192521	.37946			^x 60.90	^x 24.98		69.35	2.25		

Elev. = 5645.48
Old Pontiac No. 2.
to S.P. No 1 = S63°47'W

Note: All 700-series are underground roof stations. Transfer of elev. from surface to underground is as follows:



$$x = t \cdot \sin A = 66.57 \times .14925 = 9.94$$

$$\text{Hor. Dis.} = t \cdot \cos A = 66.57 \times .98880 = 65.82$$

$$\text{Elev. of 700} = (\text{Elev. of Snowplug No. 5} + 2.12) - 6.28 =$$

$$(5603.08 + 2.12) - 6.28 = 5598.92$$

See Sheet No. 3 for Continuance

Scranton Consolidated Mining Company, Inc.
OFFICE RECORD OF SURVEYS

Tape Carinne Mahan
 Rodman "
 Instrumentman R.B.
 For Wat
 For Dep

Roof Stations { Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$
Floor Stations { Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$
 Hor. dis. = $t \cos A$
 Dep. = Hor. dis. \times Sin Bearing
 Lat. = Hor. dis. \times Cos Bearing

Elev =
 → 5598.92

Form 12

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		t	d	Elev.	Hor. Dis.	i	s	Natural	Natural	Natural	Natural	Latitude		Departure		Total Lat.		Total Long.	
						Sin A	Cos A							Cos Bear	Sin Bear	N	S	E	W	N	S	E	W		
700	Snow plug No. 5	701	211°48'	554°06'W	520°W ?	-0°18'	70.47	+1.11	5600.03	70.47	1.24	2.72			.58637	.81004		41.32		57.08		110.67		54.83	
701	700	702	173°00'	547°06'W	548°W	+1°29'	41.45	+0.57	5600.60	41.44	2.12	1.62			.68072	.73254		28.21		30.36		138.88		85.19	
702	701	703	193°33'	560°39'W	562°W	+2°45'	27.17	+0.49	5601.09	27.14	2.58	1.77			.49014	.87164		13.30		23.66		152.18		108.85	
703	702	704	259°02'	N40°19'W	N40°W	+2°14'	42.54	+0.12	5601.21	42.51	2.91	1.37			.76248	.64701	32.41			27.50		119.77		136.35	
703	702	705	174°47'	555°26'W	558°W	-0°25'	55.93	-1.55 ^{ok}	5599.44	55.93	2.91	1.77			.56736	.82347		31.73		46.06		183.91		154.91	
705	703	706	139°20'	514°46'W	519°W	+2°03'	29.49	+2.13	5601.67	29.45	1.28	1.84			.96697	.25488		28.48		7.51		212.39		162.42	
706	705	707	201°52'	536°38'W	539°W	+0°5'	78.87	+0.48	5602.15	78.87	2.20	2.57			.80247	.59669		63.29		47.06		275.68		209.48	
707	706	Nail	192°27'	549°05'W	551°W	+0°22'	78.16	+0.53	5602.68	78.16	2.89	2.92			.65496	.75566		51.19		59.06		326.87		268.54	
707	706	Face of X-cut	111°24'	531°58'E	528°E					20.5					.84836	.52943		17.39	10.85		293.07		198.63		
Nail	707	708	158°51'	527°56'W	532°W	+0°49'	32.34	-0.80	5601.88	32.34	3.11	1.85			.88349	.46844		28.57		15.15		355.41		283.69	
708	Nail	709	132°10'	519°08'E	523°E	+0°11'	34.65	-0.03	5601.85	34.65	1.72	1.58			.94476	.32777		32.74	11.36	11.36	388.15		272.33		
708	Nail	Face	132°10'							42.70															
709	708	710	208°44'	59°36'W	57°W	+0°35'	62.05	+0.90	5602.75	62.05	1.65	1.92			.98600	.16677		61.18		10.35		449.33		282.68	
710	709	711	181°00'	510°36'W	512°W	+0°42'	29.56	+0.74		29.56	1.64	2.02			.98294	.18395		29.06		5.44		478.39		288.12	
710	709	Face	117°15'	553°09'E	554°E					25.50					.59972	.80021		15.29	20.41		464.62		262.27		
710	709	Face	181°00'	510°36'W	512°W					49.90															
711		Face		510°36'W						19.9					.98294	.18395		19.56		3.66		497.95		291.78	
709		Face		519°08'E						12.70					.94476	.32777		12.00	4.16		400.15		276.49		
710	709	712	180°57'	510°33'W	510°W	+0°17'	43.87	+0.37	5603.12	43.87	1.63	1.78			.98310	.18309		43.13		8.03		492.46		290.71	
712	710	center Face	237°10'	567°43'W	No Reading					118.50					.37919	.92532		44.93		109.65		537.39		400.36	

S.W. Cor. of Scranton Claim = 0-0 Co-ordinates,

26,100

Branton Tie
 Place Survey From Page.....
 S.W. Cor. Scranton Sheet 1
 to No. 2 Grand Date Sept. 21, 1949
 Computed by.....
 Checked by.....

Roof Stations { Plus; d = (t sin A + s) - i
 Minus; d = (t sin A + i) - s
 Floor Stations { Plus; d = (t sin A + i) - s
 Minus; d = (t sin A + s) - i

Hor. dis. = t cos A
 Dep. = Hor. dis. x Sin Bearing
 Lat. = Hor. dis. x Cos Bearing

Scranton Consolidated Mining Company, Inc.
OFFICE RECORD OF SURVEYS

Tape C. J. Bailer
 Rodman C. J. Bailer
 Instrumentman R. B. Mahan

Form 12

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		t		d		Elev.	Hor. Dis.	H.I.	H.P.	Natural				Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.	Vert. Dis.	Sin A	Cos A	Cos Bear					Sin Bear	N	S	E	W	N	S	E	W			
S.W. Cor. Scranton		trench			S 4° W	0°	62.7		62.7								.99756	.0698		62.55		4.38		62.55		4.38	
trench		30			N 66° 30' W	-16° 30'	78.2	22.21	74.98				2840	.95882		.3987	.91706		29.89		68.76		32.66		73.14		
30		29			S 69° 30' W	-14° 00'	19.0	4.60	18.44				.2419	.97030		.3502	.93667		6.46		17.27		39.12		90.41		
29		28			S 74° 00' W	-8° 30'	98.1	14.50	97.02				.1478	.98902		.2756	.96126		26.74		93.26		65.86		183.67		
28		27			S 80° 30' W	-12° 00'	98.2	20.42	96.05				.2079	.97815		.1650	.98629		15.85		94.73		81.71		278.40		
27		26			S 81° 00' W	-13° 30'	99.0	23.11	96.26				.2334	.97237		.1564	.98769		15.06		95.08		96.77		373.48		
26		25			S 77° 30' W	-28° 00'	98.4	46.20	86.88				.4695	.88295		.2164	.97630		18.80		84.82		115.57		458.30		
25		24			S 72° 30' W	-28° 00'	98.4	46.20	86.88				.4695	.88295		.3007	.95372		26.12		82.86		141.69		541.16		
24		23			S 64° 30' W	-28° 30'	99.2	47.34	87.18				.4772	.87882		.4305	.90259		37.53		78.69		179.22		619.85		
23		22			S 51° 30' W	-31° 00'	98.5	50.73	84.43				.5150	.85717		.6225	.78261		52.56		66.08		231.78		685.93		
22		21			S 78° 30' W	-32° 00'	79.4	42.07	67.33				.5299	.84805		.1994	.97992		13.43		65.98		245.21		751.91		
21		20			S 73° 30' W	-36° 00'	91.5	53.78	74.02				.5878	.80902		.2840	.95882		21.02		70.97		266.23		822.88		
20		19			S 41° 30' W	-32° 00'	56.1	29.73	47.58				.5299	.84805		.74896	.66226		35.64		31.53		301.87		854.41		
19		18			S 70° 00' W	-37° 00'	59.3	35.69	47.36				.6018	.79864		.3420	.93969		16.20		44.50		318.07		898.91		
18		17			S 20° 00' W	-33° 00'	46.5	25.32	39.00				.5446	.83867		.93969	.3420		36.65		13.34		354.72		912.25		
17		16			S 67° 00' W	-35° 30'	95.7	55.73	77.92				.5807	.81412		.3907	.92050		30.44		71.73		385.16		983.98		
16		15			N 39° 30' W	-20° 30'	64.3	22.52	60.23				.3502	.93667		.77162	.6361	46.47			38.31		338.69		1022.29		
15		14			S 31° 30' W	-35° 30'	95.4	55.40	77.67				.5807	.81412		.85264	.5225		66.22		40.58		404.91		1062.87		
14		13			S 43° 30' W	-37° 00'	78.4	47.18	62.61				.6018	.79864		.72537	.6884		45.42		43.10		450.33		1105.97		
13		12			N 60° 30' W	-27° 00'	83.2	37.77	74.13				.4540	.89101		.4924	.87036	36.50			64.52		413.83		1170.49		
12		11			S 31° 00' W	-26° 30'	78.8	35.16	70.52				.4462	.89493		.85717	.5150		60.45		36.32		474.28		1206.81		
11		10			N 83° 00' W	-35° 30'	78.4	45.53	63.83				.5807	.81412		.1219	.99255	7.78			63.35		466.50		1270.16		
10		9			S 74° 00' W	-39° 00'	94.0	59.15	73.05				.6293	.77715		.2756	.96126		20.13		70.22		486.63		1340.38		
9		8			S 46° 30' W	-36° 30'	85.6	50.91	68.81				.5948	.80386		.6884	.72537		47.37		49.91		434.00		1390.29		

S.W. Cor. Scranton Claim = 0-0-Co-ordinates

Declination = 24°22' E

Scranton Consolidated Mining Company, Inc.

OFFICE RECORD OF SURVEYS

Place Scranton Claim Page.....

Sheet.....

Date.....

Tape.....

Rodman.....

Instrumentman.....

Computed by R.B. Mahan

Checked by.....

Roof Stations { Plus; d = (t'sin A + s) - i
 Minus; d = (t'sin A + i) - s
 Floor Stations { Plus; d = (t'sin A + i) - s
 Minus; d = (t'sin A + s) - i
 Hor. dis. = t'cos A
 Dep. = Hor. dis. × Sin Bearing
 Lat. = Hor. dis. × Cos Bearing

Form 12

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		d	Elev.	feet		i	s	Natural		Latitude		Departure		Total Lat.		Total Long.			
						Vert. Ang.	Slope Dis.			Hor. Dis.	H.I.			H.P.	Sin A	Cos A	Cos Bear	Sin Bear	N	S	E	W	N	S	E
S.W. Cor. Scranton		S.E. Cor. Scranton		S61°17'E						1500.00					.48048	.87701	720.72	1315.52			720.72	1315.52			
S.E. Cor. Scranton		N.E. Cor. Scranton		N28°43'E						1241.90					.87701	.48048	1089.16	596.71			368.44	1912.23			
N.E. Cor. Scranton		N.E. Cor. Scranton Fr.		N28°43'E						1500.00					.87701	.48048	1315.52	720.72			1683.96	2632.95			
N.E. Cor. Scranton Fr.		N.W. Cor. Scranton Fr.		N61°17'W						1500.00					.48048	.87701	720.72			1315.52	2404.68	1317.43			
N.W. Cor. Scranton Fr.		S.W. Cor. Scranton		S28°43'W						2741.90					.87701	.48048		2404.68			1317.43	0.0	0.0		
S.W. Cor. Scranton		No. 2 Post Pontiac		N65°39'E						1158.50															
S.W. Cor. Scranton		N.W. Cor. Scranton		N28°43'E						1241.90					.87701	.48048	1089.16	596.71			1089.16	596.71			
N.W. Cor. Scranton		No. 1 Post Scranton		S61°17'E						700.00					.48048	.87701	336.34	613.91			752.82	1210.62			
No. 1 Post Scranton		No. 2 Post Pontiac		N65°39'E						1158.50					.41231	.91104	477.66	1055.44			1230.48	2266.06		X	
No. 2 Post Pontiac		P. 7 (S.E. Cor.) Pontiac		S65°8'E						900.00					.42262	.90631	380.36	815.68			850.12	3081.74		X	
P. 7 Pontiac		P. 6 (N.E. Cor.) Pontiac		N26°0'E						619.70					.89879	.43837	556.98	271.66			1407.10	3353.40		X	
P. 6 Pontiac		P. 5 Pontiac		S33°53'W						69.70					.83017	.55750	57.86			38.86	1349.24	3314.54		X	
P. 5 Pontiac		P. 1 Tecumseh		N56°07'W						900.00					.55750	.83017	501.75			747.15	1850.99	2567.39		X	
P. 1 Tecumseh		P. 5 Tecumseh		N56°07'W						600.00					.55750	.83017	334.50			498.10	2185.49	2069.29		X	
P. 5 Tecumseh		P. 6 (N.W. Cor.) Tecumseh		N33°53'E						476.70					.83017	.55750	395.74				2581.23	2335.05		X	
P. 6 Tecumseh		P. 3 Tecumseh		S56°07'E						1500.00 300.00					.55750	.83017		836.25 167.25			1245.26 249.05	1799.98 24.348	3580.31 2584.10		X
No. 2 Post Pontiac		P. 3 Pontiac		N65°00'W						600.00					.42262	.90631	253.57			543.79	1484.05	1722.27		X	
P. 3 Pontiac		P. 4 Pontiac		N26°00'E						689.40					.89879	.43837	619.63			302.21	2103.68	2024.48		X	
P. 3 Tecumseh		N.E. Cor. Governor		N33°53'E						3000.00					.83017	.5575	2490.51			1672.50	4235.49	5252.81			
N.E. Cor. Governor		N.W. Cor. Governor		N56°07'W						1500.00					.5575	.83017	836.25			1245.26	5071.74	4007.55			

No. 2 Post Grandview Lat. = 68°07'S Long. = 167°9.98'W

Roof Stations { Plus; d = (t sin A + s) - i
 Minus; d = (t sin A + i) - s
 Floor Stations { Plus; d = (t sin A + i) - s
 Minus; d = (t sin A + s) - i

Hor. dis. = t cos A
 Dep. = Hor. dis. × Sin Bearing
 Lat. = Hor. dis. × Cos Bearing

Scranton Consolidated Mining Company, Inc.
OFFICE RECORD OF SURVEYS

Place.....
 Tape.....
 Rodman.....
 Instrumentman.....
 Lat
 Long

Page.....
 Sheet.....
 Date.....
 Computed by.....
 Checked by.....

Form 12

At	Bs	Fs	Hor. Angle R.	Bearing	Needle	A		d	Elev.	Feet			Natural		Natural		Latitude		Departure		Total Lat.		Total Long.	
						Vert. Ang.	Slope Dis.			Vert. Dis.	Hor. Dis.	H.I.	H.P.	Sin A	Cos A	Cos Bear	Sin Bear	N	S	E	W	N	S	E
No. 2 Post Grandview		No. 1 Post Grandview		N57°52'E						1104.20				.53189	.84681	587.31		935.05			101.77		7449.30	
No. 1 Post Grandview		Cor. A Grandview		S32°08'E						750.00				.84681	.53189		635.08	398.92			736.85		346.01	
No. 1 Post Grandview		Cor. B Grandview		N32°08'W						750.00				.84681	.53189	635.08			398.92	533.31			1143.85	
Grandview		Cor. C Grandview		S57°52'W						1104.20				.53189	.84681		587.37	935.05			54.06		2078.90	
Grandview		Cor. D Grandview		S32°08'E						221.34				.84681	.53189		187.43	117.73			241.49		1961.17	
Grandview		Cor. 1 Sunrise		N72°10'E						165.82				.30625	.95195	50.78		157.85			190.71		1803.32	
Cor. 1 Sunrise		Cor. 2 Sunrise		S17°58'E						1500.00				.95195	.30625		1427.93	459.38			1618.64		1343.94	
Cor. 2 Sunrise		Cor. 3 Sunrise		S72°10'W						1382.04				.30625	.95195		423.25		1315.63			2041.89	2659.57	
Cor. 3 Sunrise		Cor. 4 Sunrise		N17°50'W						1500.00				.95195	.30625	1427.93			459.38			613.96	3118.95	
Cor. 3 Sunrise		Cor. 1 Granite		N72°10'E						351.80				.30625	.95195	107.74		334.90			1934.15		2324.67	
Cor. 1 Granite		Cor. 2 Granite		S35°57'E						737.73				.80953	.58708		597.21	433.11			2531.36		1891.56	
Cor. 2 Granite		Cor. 3 Granite		S54°03'W						1275.22				.58708	.80953		748.66		1032.33			3280.02	2923.89	
Cor. 3 Granite		Cor. 4 Granite		N35°57'W						1500.00				.80953	.58708	1214.30			880.62			2065.72	3804.51	
Cor. 4 Granite		Cor. 5 Granite		N54°03'E						1154.38				.58708	.80953	677.71		934.51			1388.01		2870.00	
Cor. B Grandview		Cor. 2 Snowflake		N57°52'E						1500				.53189	.84681	797.84		1270.22		1331.15			126.37	
Grandview		Point "X"		N57°52'E						800				.53189	.84681	425.51		677.45			311.34		331.44	

Cor. B } total lat. = 533.31 (N)
 Grandview } Long. = 1143.85 (W)

Plotting notes of { Clearwater, White Top,
 Snowflake, Big Bear, & Scranton Extension Mineral Claims

Scranton Consolidated Mining Company, Inc.

OFFICE RECORD OF SURVEYS

Roof Stations { Plus; $d = (t \sin A + s) - i$
 Minus; $d = (t \sin A + i) - s$
Floor Stations { Plus; $d = (t \sin A + i) - s$
 Minus; $d = (t \sin A + s) - i$

Hor. dis. = $t \cos A$
 Dep. = Hor. dis. \times Sin Bearing
 Lat. = Hor. dis. \times Cos Bearing

Place.....
 Tape.....
 Rodman.....
 Instrumentman.....
 Page.....
 Sheet.....
 Date.....
 Computed by *R.B. Mohr*
 Checked by.....

Form 12

At	Bs	Fs	Hor. Angle R.	Bear.	Needle	A		d	Elev.	i	s	Natural Sin A	Natural Cos A	Natural Cos Bear	Natural Sin Bear	Latitude		Departure		Total Lat.		Total Long.			
						Vert. Ang.	Slope Dis.									Vert. Dis.	N	S	E	W	N	S	E	W	
Cor. B Grandview		Cor. 2 Clearwater		N32°08'W					1500			.53189	.84681	.84681	.53189	1270.22			797.84		1803.53			1941.69	
Cor. 2 Clearwater		Cor. 3 Clearwater		S57°52'W					1500			.84681	.53189	.53189	.84681		797.84		1270.22		1005.69			3211.91	
Cor. 3 Clearwater		Cor. 4 Clearwater		S32°08'E					1500			.53189	.84681	.84681	.53189		1270.22	797.84				267.53		2414.07	
Cor. 2 Clearwater		Cor. 3 Snowflake		N57°52'E					1500			.84681	.53189	.53189	.84681	797.84		1270.22			2601.37			671.47	
Cor. 3 Snowflake		Cor. 2 Snowflake		S32°08'E					1500					.84681	.53189		1270.22	797.84			1331.15		126.37		
Cor. 2 Snowflake		Cor. 1 White Top		S32°08'E					605.48					.84681	.53189		512.73	322.05			818.42		448.42		
Cor. 1 White Top		Cor. 2 White Top		N32°08'W					1500.00					.84681	.53189	1270.22			797.84	2088.64				349.42	
Cor. 2 White Top		Cor. 3 White Top		N57°52'E					1500.00					.53189	.84681	797.84		1270.22			2886.48		920.80		
Cor. 3 White Top		Cor. 4 White Top		S32°08'E					1500.00					.84681	.53189		1270.22	797.84			1616.26		1718.64		
Cor. 4 White Top		Cor. 1 Big Bear		S32°08'E					252.79					.84681	.53189		214.07	134.46			1402.19		1853.10		
Cor. 1 Big Bear		Post 1 Tecumseh		N57°52'E					843.51					.53189	.84681	448.65		714.29			1850.84		2567.39		
Cor. 1 Big Bear		Cor. 2 Big Bear		N57°52'E					1500.00					.53189	.84681	797.84		1270.22			2200.03		3123.32		
Cor. 2 Big Bear		Cor. 3 Big Bear		N32°08'W					1500.00					.84681	.53189	1270.22			797.84	3470.25			2325.48		
Cor. 3 Big Bear		Cor. 4 Big Bear		S57°52'W					1500.00					.53189	.84681		797.84	1270.22	2672.41				1055.26		
S.W. Cor. Scranton C.G. = 0-0 Co-ordinates																									
Sw Cor. Scranton		No. 1 Cor. Scranton Extension		S28°43'W					1500.00					.87701	.48048		1315.52	720.72			1315.52		720.72		720.72
No. 1 Cor. Scranton Extension		No. 2 Cor. Scranton Extension		S61°17'E					1500.00					.48048	.87701		720.72	1315.52			2036.24		594.80		
No. 2 Cor. Scranton Extension		No. 3 Cor. Scranton Extension		N28°43'E					1500.00					.87701	.48048	1315.52	720.72				720.72	1315.52			

Note: Corners No. 4 Scranton Extension & S.E. Scranton C.G. are identical