

091312

R.S. MILNER
CONSULTING GEOLOGIST
WHITEHORSE YUKON TERRITORY

DD Jackpot Copper
Mines Ltd. CM 961786-07
115 A-3.
Dec 31, 1972

PROPERTY <u>Jackpot Copper Mines Ltd. (NPL)</u>	Claim No. <u>Alder Hill 2</u>	Strike _____	Loc. _____	Hole No. <u>JCM - 1/72</u>
Date <u>Aug. 15</u> 19 <u>72</u>	Section No. _____	Dip <u>-90°</u>	Dep. _____	Total Depth _____
Logged By <u>G.G. Carlson</u>	Plan No. _____	Level _____	Elev. _____	Page No. <u>1</u>

FOOTAGE		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%Zn	MOLY	AU/AG	IN
0	27	ANDESITE (?) BRECCIA Fine grained, highly altered, acid to intermediate fragments, less than 2", in mainly quartz matrix, with pyrite, trace chalcopryite. Very poor recovery - 8' - 33% highly oxidized. Sulfides mainly less than 10%, locally to 50%. Strongest sulfides 0'-8' (1.5' recovery) and 19'-24'										
		Assays: 0' - 8'	Py/Cpy	20/3	3381	8	1.5	2.70	--			
		19' - 24'	Py/Cpy	30/5	3382	5	3	1.88	--			
		24' - 26'	Py/Cpy	10/1	3373	2	1	4.50	--			
27	42	SULFIDIC ANDESITE (?) BRECCIA - as above but fragments less dominant and up to 75% sulfides, mainly as matrix with quartz. Locally chalcopryite to 50%. Mainly highly broken 29 - 31 (and small patches with pyrite and chalcopryite) - mainly black mineral - Mn? - vaguely foliated. 36 - 42 Increasing pyrite, less chalcopryite										
		Assays: 26 - 28	Py/Cpy	20/5	3374	2	2	1.68	--			
		28 - 30	Py/Cpy	10/3	3375	2	2	.70	4.62			

R.B. HILKER
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PROPERTY <u>Jackpot Copper Mines Ltd. (NPL)</u>	Claim No. _____	Strike _____	Lot. _____	Hole No. <u>JCM - 1/72</u>
Date <u>Aug. 15</u> 19 <u>72</u>	Section No. _____	Dip _____	Dep. _____	Total Depth _____
Logged By <u>G.G. Carlson</u>	Plan No. _____	Level _____	Elev. _____	Page No. <u>2</u>

FOOTAGE		ROCK CLASSIFICATION <small>EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TRENQ. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE</small>	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%Cu	%Zn	MOLY	AU/AG	INE
		30 - 32	Py/Cpy/Sph?		3376	2	2	.18	7.92			
		32 - 34	Py/Cpy	20/20	3377	2	2	6.46	3.60			
		34 - 36	Py/Cpy	20/20	3378	2	1	8.68	--			
		36 - 38	Py/Cpy	80/1	3379	2	1	1.50	4.32			
		38 - 40	Py/Cpy	20/3	3380	2	0.5	1.83	5.88			
42	52	ANDESITE (?) BRECCIA, minor sulfides - pyrite and chalcopyrite to 5%. Very highly sheared - mylonite. Siliceous groundmass.										
		43.5 - 48.5 - highly broken, oxidized										
		Assays: 40 - 52	Py/Cpy	3/1	3383	12	7	.26	--			
52	57	ANDESITE - locally brecciated and altered, cut by small quartz veins										
		52 - 54.6 - rusty, strongly sheared and broken, trace visible sulfides										
		54.6 - 57 - less broken but shearing and quartz/sulfide filling more prominent. Assay: 54.5 - 57	Py/Cpy	5/2	3384	2.5	2	.88	--			

7521-19

WHITEHORSE ASSAY OFFICE

P.O. BOX 346. WHITEHORSE. YUKON

R.G. Hilker Limited

RECEIVED FROM

SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	Copper	Zinc				
3373			4.50	-				
3374			1.68	-				
3375			.70	4.62				
3376			.18	7.92				
3377			6.46	3.60				
3378			8.68	-				
3379			1.50	4.32				
3380			1.83	5.88				
3381			2.70	-				
3382			1.88	-				
3383			.26	-				
3384			.88	-				
3385			5.18	-				
3386			.08	-				
3387			3.83	-				
3388			10.1	3.30				
3389			3.38	-				
3390			.22	-				
3391			3.02	1.64				

ASSAYER *Geo. Spallin*

JACKPOT COPPER MINES LTD. (NPL)

D.D.H. ASSAY RESULTS

HOLE JCM - 1/72

AUGUST 18, 1972

Footage	Sample No.	Core Length	Recovery	%Cu	%Zn
0 - 8	3381	8(?)	1.5	2.70	-
19 - 24	3382	5	3	1.88	-
24 - 26	3373	2	2	4.50	-
26 - 28	3374	2	2	1.68	-
28 - 30	3375	2	2	.70	4.62
30 - 32	3376	2	2	.18	7.92
32 - 34	3377	2	2	6.46	3.60
34 - 36	3378	2	1	8.68	-
36 - 38	3379	2	1	1.50	4.32
38 - 40	3380	2	0.5	1.83	5.88
40 - 52	3383	12	7	.26	-
54.5 - 57	3384	2.5	2	.88	-
57 - 60	3385	3	2	5.18	-
60 - 66	3386	6	1.5	.08	-
66 - 68	3387	2	2	3.83	-
68 - 70	3388	2	2	10.1	3.30
70 - 72	3389	2	2	3.38	-
72 - 74	3390	2	2	.22	-
74 - 76	3391	2	2	3.08	1.64

1.83 / 1.33

2.16 / 2.15

* Note: Poor recovery for some samples.

JACKPOT COPPER MINES LTD. (NPL)

D.D.H. ASSAY RESULTS

HOLE JCM-3

OCTOBER 31, 1972

Footage	Sample No.	Core Length	Recovery	%Cu	Oz/Ton Au/Ag
122.5 - 124.4	3551	1.9'	1.9'	.03	Tr/.04
129.7 - 131.8	3552	2.1	2.1	.03	-----
151.8	3553	0.2		.03	-----
167.8 - 168	3554	0.2		.07	Tr/.14
192.5 - 194.5	3555	2	2	.02	-----
194.5 - 195	3556	0.5	0.5	0.22	Tr/.08
195 - 199	3557	4	4	.02	-----
200.5 - 202	3558	1.5	1.5	.01	-----
209.8 - 210.8	3559	1.0	1.0	.04	-----
215.5 - 215.8	3560	0.3	0.3	.01	Tr/Tr
214.5 - 215.5	3561	1.0	1.0	.02	-----

091312

R.G. HILKER
CONSULTING GEOLOGIST
WHITEHORSE YUKON TERRITORY

c/w 961706-02

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	XXX Bearing <u>240°</u>	K&L <u>5+4DS</u>	Hole No. <u>JCM-3</u>
Date <u>Oct. 23 1972</u>	Section No. _____	Dip <u>-50°</u>	Exp. <u>0+90E</u>	Total Depth <u>227 - 8Q</u>
Logged By <u>R.G. Hilker</u>	Plan No. _____	Level <u>Surface</u>	Elev. _____	Page No. <u>1 of 4</u>

FOOTAGE		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION				ASSAY DATA					
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
0	30	Overburden 12' NW and 18' SW										
30	89.3	Broken Core - ground, rounded from 1 inch in diameter or width to 3 inches long. Variety diorite, andesite and minor granite.										
89.3	90	Diorite - coarse grained, minor pyrite, pyroxene, feldspar (orthoclase?), brownish red oxidation staining.										
90	122.5	Andesite - dense, grayish black color, fractured with calcite fracture filling (90 - 101) at 92.4 minor pyrite on fracture face. Chloritic slickenside at 96', hard, dioritic 110 - 111.3 and 118 to 118.8. In parts quartz eyes.										
122.5	124.4	Andesite - dense, hard, medium grey color, pyrrhotite, pyrite and minor chalcocyanite.	pyr, py cpy	5	3551	1.9	1.9	.03			Tr/.04	
124.4	135	Diorite - white and dark greenish black speckled color, feldspar, pyroxene group mineral, pyrite 129.7 - 131.8	py	2-3	3552	2.1	2.1	.03			----	

R.G. HILKER
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WHITEHORSE YUKON TERRITORY

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Strike _____	Lot. _____	Hole No. <u>JCM-3</u>
Date <u>Oct. 23</u> 19 <u>72</u>	Section No. _____	Dip _____	Dep. _____	Total Depth <u>227'</u>
Logged By _____	Plan No. _____	Level _____	Elev. _____	Page No. <u>2</u>

FOOTAGE		ROCK CLASSIFICATION <small>EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE, TEXTURE</small>	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
135	145	Andesite - feldspar eyes, dark grey color with white feldspar eyes, dense, hard.										
145	146.6	Quartz Vein - milky white color, hard, dense.										
146.6	194.5	Diorite - 40% white feldspar, 50% pyroxene group mineral, hard, dark green and white color; minor pyrrhotite on fracture face at 151.8. Fairly competent rock, good core recovery and solid pieces.	pyr	2	3553	Fracture Face		.03			-----	
		Quartz vein 0.2' wide at 167.8 to 168' with pyrrhotite	pyr	5	3554	0.2		.07			Tr/.14	
		Assays 151.8 - #3553										
		167.8 - 3554										
		192.5 - 194.5 - 3555										
194.5	195	Andesite Breccia - fault zone breccia, cemented, some pyrite and chalcopryite	py, cov	3	3556	0.5	0.5	.22			Tr/.08	

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PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Strike _____	Lot. _____	Hole No. <u>JCM-3</u>
Date <u>Oct. 23</u> 19 <u>72</u>	Section No. _____	Dip _____	Dep. _____	Total Depth <u>227'</u>
Logged By <u>R.G. Hilker</u>	Plan No. _____	Level _____	Elev. _____	Page No. <u>3</u>

FOOTAGE		ROCK CLASSIFICATION <small>EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE</small>	MINERALIZATION				ASSAY DATA					
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
195	212	Andesite - fractured, broken pieces of core, dense, hard, dark grey color. Diorite 203 - 204 feet. Quartz vein at 207.5 feet - 2" wide. In parts andesite speckled white with feldspar "eyes". Minor pyrrhotite 201'										
		Assays 195 - 199' - 3557		nil	3557	4	4	.02			----	
		200.5 - 202 - 3558	pyr, py	1	3558	1.5	1.5	.01			----	
		209.8 - 210.8 - 3559	py	1	3559	1.0	1.0	.04			----	
212	227	Diorite - dark green grey and white spotted, medium to fine grained, pyroxene group mineral, feldspar minor pyrite and chalcopyrite at 215.5 at medium grey colored quartz vein. Milky white quartz vein at 224' - barren										
		Assays 215.5 - 3560	py, cpv	1	3560	0.3	0.3	.01			Tr/Tr	
		214.5 - 215.5 - 3561	nil	nil	3561	1.0	1.0	.02			----	
E N D O F H O L E												

DATE October 27, 1972.
FILE NO. 7474-15

ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE LTD.
P.O. BOX 4518, WHITEHORSE, YUKON

RECEIVED FROM R.G. Hilker Limited

SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	Copper					
3551	TR	.04	.03					
3552	-	-	.03					
3553	-	-	.03					
3554	TR	.14	.07					
3555	-	-	.02					
3556	TR	.08	.22					
3557	-	-	.02					
3558	-	-	.01					
3559	-	-	.04					
3560	TR	TR	.01					
3561	-	-	.02					
3562	-	-	.30					
3563	-	-	.07					
3564	-	-	.01					
3565	-	-	.01					

ASSAYER K. Hoyland for H. Spalding

021312

R.G. HILKER
CONSULTING GEOLOGIST
WHITEHORSE YUKON TERRITORY

CLW 96706-07

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Strike Bearing <u>50°</u>	XX <u>12+10S</u>	Hole No. <u>JCM-4</u>
Date <u>October 26</u> 19 <u>72</u>	Section No. _____	Dip <u>-53°</u>	DDX <u>11+20W</u>	Total Depth <u>343 ft - 8Q</u>
Logged By <u>R.G. Hilker</u>	Plan No. _____	Level <u>Surface</u>	Elev. _____	Page No. <u>1</u>

FOOTAGE		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%Cu	%Fe	MOLY	AU/AG	INSOL
0	29	8Q - size of drill hole - Aug 29 to Sept 8, 1972 Overburden - 0 - 22 Mtl and 22 - 29 8W.										
29	30.5	Diorite - medium to fine grained feldspar, pyroxene group mineral										
30.5	38.5	Quartzite - light greenish grey color, dense, hard, quartz, odd speck of pyrite.										
38.5	42.5	Rhyolite - medium greenish grey color with andesite 40.0 - 41.0; hard, dense, quartz, aphanitic.										
42.5	54.0	Andesite - dark green, 70% pyroxene minerals, feldspar banded at 44 - 45 feet with pyrrhotite along bands, chlorite along fracture faces.										
		Assays 42.5 - 44 3566			3566	1.5	1.5	.02			----	
		44 - 45 3562	pyrr	5	3562	1	1	.30			----	
		45 - 46.5 3563	pyrr, py	1	3563	1.5	1.5	.07			----	
		48 - 49 3564	pyrr, py	1	3564	1.0	1.0	.01			----	

R.G. HILKER
CONSULTING GEOLOGIST
WHITEHORSE YUKON TERRITORY

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Strike _____	Lat. _____	Hole No. <u>JCM-4</u>
Date <u>October 26 19 72</u>	Section No. _____	Dip _____	Dep. _____	Total Depth <u>343'</u>
Logged By _____	Plan No. _____	Level _____	Elev. _____	Page No. <u>2</u>

FOOTAGE		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
54	54.5	Andesite Breccia - andesite cement, angular fragments of andesite, phenocrysts of feldspar, odd speck of pyrite Assay 54.0 - 54.5 3565	py	<1	3565	0.5	0.5	.01			----	
54.5	72.5	Diorite - coarse grained light greenish grey, feldspar, pyroxene group mineral, pyrite slickenside at 65 feet, core very blocky and in short pieces, soft and altered, some sericite along fractures, some pyrite. 61.2 - 64 - very poor core recovery of 0.5' Assays 54.3 - 56.9 3567 56.9 - 58.2 3568 58.2 - 61.2 3569 64.0 - 65.5 3670 65.5 - 67.3 3671	py	<1	3567	2.6	2.6	.02			----	
			py	2	3568	1.3	1.3	.02			----	
			py	2	3569	3	2.6	.02			----	
			py	2	3670	1.5	1.5	.02			----	
			py	1	3671	1.8	1.8	.02			----	

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WHITEHORSE YUKON TERRITORY

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Strike _____	Lat. _____	Hole No. <u>JCM-4</u>
Date <u>October 26</u> 19 <u>72</u>	Section No. _____	Dip _____	Dep. _____	Total Depth <u>343'</u>
Logged By _____	Plan No. _____	Level _____	Elev. _____	Page No. <u>3</u>

FOOTAGE		ROCK CLASSIFICATION EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
72.5	92.5	Andesite - dark green grey color, hard, dense, some serpentine, brecciated 73.5 - 78.3, quartz vein with milky white quartz at 80.2, in parts banded, scattered pyrite cubes and disseminated, possibly chalcopyrite, chloritic slickenside on shears and fracture faces hairline fracture calcite filling										
		Assay 73.5 - 75.5 3572	py	2	3572	2	2	.02				
		79 - 80 3575			3573			.02				
		80 - 80.5 3574			3574			.02				
		80.5 - 82 3575			3575			.02				
92.5	140.5	Rhyolite - feldspar (alkalic), quartz, light greenish grey color, highly fractured, milky white quartz veinlets with scattered pyrite, brecciated and recemented in parts, dense, hard and shatters, aphanitic										
		Assay 108.5 - 109.5 3576	py	1	3576	1	1	.02				
		113 - 114 3577	py	1	3577	1	1	.02				
		128 - 129 3578	py	1	3578	1	1	.02				
		130.5 - 132 3579	py	1	3579	1.5	1.5	.01				

R.G. HILKER
CONSULTING GEOLOGIST
WHITEHORSE YUKON TERRITORY

PROPERTY <u>Jackpot Copper Mines Ltd.</u>	Claim No. _____	Sxxx Bearing <u>50°</u>	Lxx <u>12+10S</u>	Hole No. <u>JCM-4</u>
Date <u>October 26</u> 19 <u>72</u>	Section No. _____	Dip _____	Dxx <u>11+20W</u>	Total Depth <u>343'</u>
Logged By <u>R.G. Hilker</u>	Plan No. _____	Level _____	Elev. _____	Page No. <u>6 of 6</u>

FOOTAGE		ROCK CLASSIFICATION <small>EPID. DIOP. GARN. SERP. QTZ/SIL. ACTINO. TREMO. CHLO. CRYSTALLINE. SHEARING. VEINS. FRACTURING. FOLIATION. GRAIN SIZE. TEXTURE</small>	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	SAMPLE NO.	WIDTH	RECOV.	%CU	%FE	MOLY	AU/AG	INSOL
336.5	343	Rhyolite - dense, hard, highly shattered and broken core, pyrite										
		Assay 340.5 - 342.5 3584	py	2	3584	2	2	.01				
		E N D O F H O L E										
		NOTE: Holes located from grid system perpendicular to Base Line #2 - bearing 150°										
		The drill core for assays was taken whole and unsplit, due to the blocky and brittle nature of the rock types.										
		The following is a record of the core contained in the coreboxes for drill hole JCM-4										
		Box 1 28 - 49 Box 9 199 - 216										
		Box 2 49 - 72.6 Box 10 216 - 237.9										
		Box 3 72.6 - 90.6 Box 11 237.9 - 260.7										
		Box 4 90.6 - 115 Box 12 260.7 - 276.8										
		Box 5 115 - 137.6 Box 13 276.8 - 292										
		Box 6 137.6 - 158 Box 14 292 - 312.6										
		Box 7 158 - 176.6 Box 15 312.6 - 334.3										
		Box 8 176.6 - 199 Box 16 334.3 - 343										

Hole drilled 0 - 343' August 29 - September 8, 1972
 Arctic Diamond Drilling Ltd. - Whitehorse, Y.T.
 (from Diamond Drill records)

JACKPOT COPPER MINES LTD. (NPL)

D.D.H. ASSAY RESULTS

HOLE JCM-4

OCTOBER 31, 1972

Footage	Sample No.	Core Length	Recovery	%Cu	Oz/Ton Au/Ag
42.5 - 44.0	3566	1.5	1.5	.02	
44.0 - 45.0	3562	1.0	1.0	.30	
45.0 - 46.5	3563	1.5	1.5	.07	
48.0 - 49.0	3564	1.0	1.0	.01	
54.0 - 54.5	3565	0.5	0.5	.01	
54.5 - 56.9	3567	2.6	2.6	.02	
56.9 - 58.2	3568	1.3	1.3	.02	
58.2 - 61.2	3569	3.0	2.6	.02	
64.0 - 65.5	3570	1.5	1.5	.02	
65.5 - 67.3	3571	1.8	1.8	.02	
73.5 - 75.5	3572	2	2	.02	
79.0 - 80.0	3573	1.0	1.0	.02	
80.0 - 80.5	3574	1.5	1.5	.02	
80.5 - 82.0	3575	1.5	1.5	.02	
108.5 - 109.5	3576	1.0	1.0	.02	
113.0 - 114.0	3577	1.0	1.0	.02	
128.0 - 129.0	3578	1.0	1.0	.02	
130.5 - 132.0	3579	1.5	1.5	.01	
173.0 - 174.0	3580	1.0	1.0	.01	
266.0 - 267.0	3581	1.0	1.0	.02	
304.0 - 305.0	3582	1.0	1.0	.02	
302.0 - 305.0	3582	1.0	1.0	.02	
302.0 - 302.7	3583	0.7	0.7	.02	
340.5 - 342.5	3584	2.0	2.0	.01	

DATE October 31, 1972.
FILE NO. 7479-19

ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE LTD.

P.O. BOX 4518, WHITEHORSE, YUKON

RECEIVED FROM

R.G. Hilker Limited

SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	Copper					
3566			.02					
3567			.02					
3568			.02					
3569			.02					
3570			.02					
3571			.02					
3572			.02					
3573			.02					
3574			.02					
3575			.02					
3576			.02					
3577			.02					
3578			.02					
3579			.01					
3580			.01					
3581			.02					
3582			.02					
3583			.02					
3584			.01					

ASSAYER K. Hoyland for G. Spalding