

Thiessen Equipment Ltd.

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August 27, 1990

Curragh Resources Inc.
Box 1000
Faro, Yukon
Y0B 1K0

ATTENTION: Leo Hwozdyk

Dear Leo:

Eric Nelson of Ingersoll-Rand and myself were on site August 14th and 15th to perform pull testing of 6' and 8' SS-39 Split Set[®] stabilizers upon the request of Curragh Resources Inc.

Our test results met or exceeded manufacturers specifications. Those who attended the pull testing are as follows:

Gord Escaravage, Thiessen Equipment Ltd.
Eric Nelson, Ingersoll-Rand Canada Split Set Division
Rick Duval, Canadian Mine Development
Roy Wiseman, Canadian Mine Development

Attached, please find the results of this exercise. If you have any questions, please contact the undersigned.

Regards,

THIESSEN EQUIPMENT LTD.

A handwritten signature in black ink, appearing to read 'Gordon Escaravage', with a horizontal line extending to the right.

Gordon Escaravage

GE/ss

Encl.

CC/ Eric Nelson, Ingersoll-Rand Canada
Jack Retza, Canadian Mine Development

[®] Registered Trademark of Ingersoll-Rand Canada

PULL-TEST

DATE: August 15, 1990

MINE: Curragh Resources Inc.
Faro, Yukon

IN ATTENDANCE: G. Escaravage, Thiessen Equipment Ltd.
E. Nelson, Ingersoll-Rand Canada
R. Duval, Canadian Mine Development
R. Wiseman, Canadian Mine Development

<u>BOLT #</u>	<u>BOLT TYPE & LENGTH</u>	<u>BIT DIAMETER</u>	<u>DRIVE TIME</u>	<u>PULL TEST</u>	<u>COMMENTS</u>
1.	8' SS-39	1-7/16"		4,000 psi. 16,900 lbs.	North D
2.	6' SS-39	1-7/16"		3,200 psi. 13,800 lbs.	North D
3.	8' SS-39	1-7/16"		3,700 psi. 16,000 lbs.	North B 202
4.	6' SS-39	1-7/16"		3,400 psi. 14,200 lbs.	North B 202
5.	8" SS-39	1-7/16"		3,400 psi 14,200 lbs.	North B Incline Pulled on Angle Ring Broke
6.	6' SS-39	1-7/16"		4,000 psi. 16,900 lbs.	North B Incline
7.	6' SS-39	1-7/16"			South B 204 Improper Installation For Testing
8.	8' SS-39	1-7/16"		4,400 psi 19,600 lbs.	South B 204
9.	8' SS-39	1-7/16"		3,600 psi 15,600 lbs.	South C
10.	6' SS-39	1-7/16"		3,200 psi 13,800 lbs.	South C

DATE: Aug 15/90

IN ATTENDANCE: G. ESCARAVAGE

THIESSEN

E. NELSON

Wagner-Rand

MINE: CARRAGH RESOURCES INC

R. PUAL

CMD

FARO YUKON

Roy Wiseman

BOLT #	BOLT TYPE & LENGTH	DIT DIA.	DRIVE TIME	PULL TEST	COMMENTS (IE LOCATION, GROUP, CONDITION)
1	? 6' SS-39	1 7/16"		4000 psi 16,900 lbs	NORTH D 200
2	? 8'	"		3200 psi 13,300 lbs	" "
3	8' SS-39	"		3700 psi 16,000 lb	NORTH B 202
4	6' SS-39	"		3400 psi 14,200 lb	" "
5	8' SS-39	"		3400 psi 14,200 lbs	NORTH B INCLINE PULLED ON ANGLE RING BROKE
6	6' SS-39	"		4000 psi 16,900 lb	NORTH B INCLINE
7	6' SS-39	"			SOUTH B 204 IMPROPER INSTALLATION FOR TESTING
8	8' SS-39	"		4400 psi 19,600 lbs.	SOUTH B 204
9	8' SS-39	"		3600 psi 15,600 lbs.	SOUTH C
10	6' SS-39	"		3200 psi 13,800 lbs	SOUTH C

WJW
HIGH SOUTH 3 TESTED.

2.11/11
11/10/96


all tests above spec.

B.H.

EVELTON & ASSOCIATES LTD.

8805 OSLER ST EET
VANCOUVER, B.C. CANADA V6P 4G1
(604) 266-1411 TELEX 04-55581
FAX: (604) 266-0130

CALIBRATION CERTIFICATE

CLIENT: Thiessen/Team Equipment Ltd. CALIBRATION DATE: Dec 6/88
9663 - 199 A St.

Langley, BC V3A 4P8 REPORT DATE : Dec 16/88
FILE NO. : 288-932

EQUIPMENT CALIBRATED: 6-1/4"x4"0 Center Hole Ram, RCH 202
Nuova Fima 10,000 psi gauge, #700

CALIBRATION METHOD : Baldwin Universal Testing Machine

DATA

GAUGE PRESSURE (psi)	LOAD OR TENSION AVG. OF TWO RUNS (lbs)
2000	8200
4000	16,900
6000	26,500
8000	36,100
9500	43,500

Calibration graph is attached

B.H. LEVELTON & ASSOCIATES LTD.

R.D. Robertson, P.Eng.

Calibration for: Thiessen Team Equipment Ltd.
Calibration date: 6 Dec, 1988

Ram: $6\frac{1}{2} \times 4$ " ϕ Centerhole, # RCH 202
Gauge: Nuova Firma 10,000 psi, # 700

