

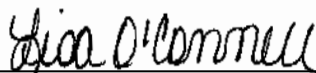
**“Measurement of Properties For Proppants Used In  
Hydraulic Fracturing and Gravel-Packing Operations”  
Evaluations on 40/70 Sand Sample  
Labeled V7 For Stikine Gold Corporation  
Submitted 4/28/10**

**Prepared For:**

Mr. Scott Broughton  
Stikine Gold Corporation  
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**Prepared By:**

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Lisa O'Connell, Laboratory Supervisor

P.O. Number: Per Email

File Number: SL8835

May 2010

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May 11, 2010

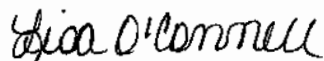
Mr. Scott Broughton  
Stikine Gold Corporation  
490-1122 Mainland St.  
Vancouver, BC V6B 5L1  
Canada

Dear Mr. Broughton:

STIM-LAB, Inc. has completed the ISO 13503-2/API RP19C evaluations requested on the submitted sand sample labeled V7 40/70. The sample was received at Stim-Lab Inc. on April 28, 2010. The results for the sieve analysis are in Table 1. Table 2 contains the results for the crush resistance at 5000psi, sphericity and roundness (Krumbein Shape Factor), acid solubility, bulk density, apparent specific gravity, and turbidity testing. Following Table 2 are pictures of the sample. The procedures followed are as stated in ISO 13503-2/API RP19C.

Thank you for having STIM-LAB, Inc. to perform these analyses. We hope you will consider us for your future testing needs. If you have any questions regarding the testing or results, please do not hesitate to give me a call.

Sincerely,



Lisa O'Connell  
Laboratory Supervisor  
Conductivity Laboratory



Table 1

**Sieve Analysis of Submitted Proppant Sample**  
**Submitted By: Stikine Gold Corp.**  
**ISO 13503-2/API RP19C, Section 6, "Sieve Analysis"**

Sample I.D.	Frac Sand Sample Labeled: V7 40/70	
	US Standard Sieve No.	Weight %
	Retained	Cumulative
6	0.0	0.0
8	0.0	0.0
10	0.0	0.0
12	0.0	0.0
14	0.0	0.0
16	0.0	0.0
18	0.0	0.0
20	0.0	0.0
25	0.0	0.0
30	0.0	0.0
35	0.0	0.0
40	2.7	2.7
45	47.2	49.8
50	38.7	88.6
60	11.4	100.0
70	0.0	100.0
80	0.0	100.0
100	0.0	100.0
120	0.0	100.0
140	0.0	100.0
170	0.0	100.0
200	0.0	100.0
230	0.0	100.0
pan	0.0	100.0
total	100.0	
in-size	97.3	= as 40/70
ISO Mean Dia. (mm)	0.355	
Median Dia. (mm)	0.350	

May 2010

Table 2

**Frac Sand Sample Labeled: V7 40/70**  
**Submitted By: Stikine Gold Corp.**  
**Arrived 4/28/2010**

**Measurement of Properties of Proppants**  
**Used In Hydraulic Fracturing and Gravel-Packing Operations**

**ISO 13503-2/API RP19C, Section 7, "Proppant Sphericity and Roundness"**

\* mean of a 20 count

<u>Sphericity =</u>	<u>0.7</u>
<u>Roundness =</u>	<u>0.6</u>
<u>Clusters =</u>	<u>None Observed in Field of Count</u>

Recommended Sphericity and Roundness for proppants = 0.6 or greater (ISO/DIS 13503-2/Amd.1/API RP19C)

Recommended Sphericity and Roundness for high strength proppants = 0.7 or greater (ISO/DIS 13503-2/Amd.1/API RP19C)

**ISO 13503-2/API RP19C, Section 8, "Acid Solubility"**

\* mean of 3 analysis

<u>Acid Sol. Percent =</u>	<u>1.5</u>	%
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Recommended Maximum Acid Solubility for proppants 40/70 to 70/140 = 3.0%

Tested as per ISO 13503-2/API RP19C, 100ml of 12:3 HCl:HF\* with 5 grams of sand or proppant at 150°F for 30 minutes, \*Other acids may be specified, depending on desired application

**ISO 13503-2/API RP19C, Section 9, "Turbidity Test"**

<u>20</u>	<u>FTU</u>
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Method 1: Turbidity, suggested maximum frac sand turbidity = equal or less than 250 FTU per API RP-56 and 58

**ISO 13503-2/API RP 19C, Section 10,**

**"Procedures for Determining Proppant Bulk Density, Apparent Density"**

<u>Bulk Density =</u>	<u>1.47</u>	<u>g/cm<sup>3</sup></u>
<u>Bulk Density =</u>	<u>91.7</u>	<u>lb/ft<sup>3</sup></u>
<u>Specific Gravity = (Oil per ISO)</u> <u>or Apparent Density</u>	<u>2.64</u>	<u>g/cm<sup>3</sup></u>

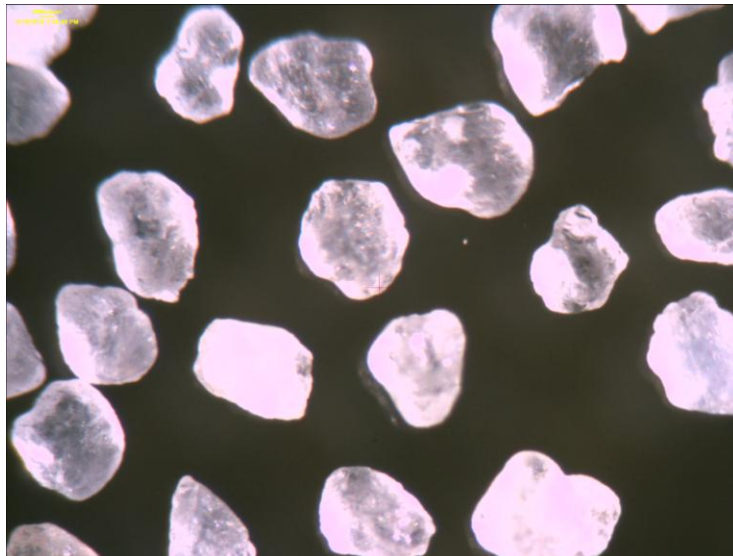
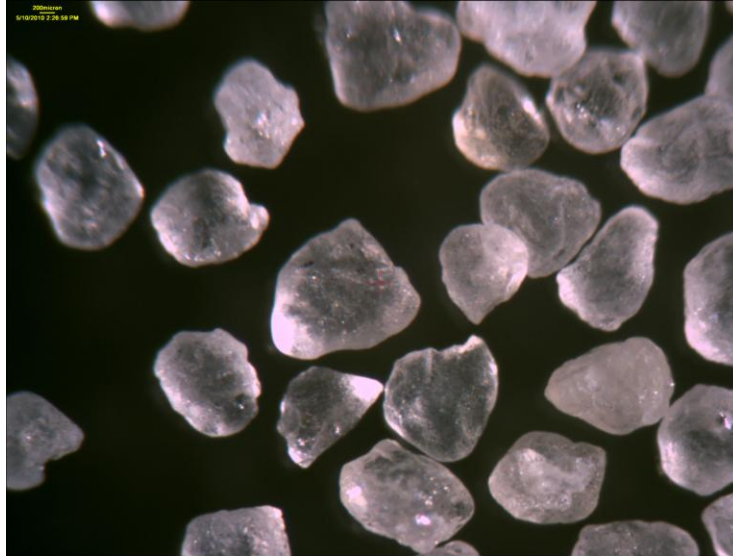
**ISO 13503-2/API RP19C, Section 11, "Proppant Crush-Resistance Test"**

<u>Stresses Tested (psi)</u>	<u>% Fines</u> <u>-40+70 crush prep</u>
<u>5000</u>	<u>2.5</u>

Suggested maximum fines for 40/70 Frac Sand per API RP-56 = 8% @ 5000psi

The highest stress level which proppant generates no more than 10% crushed material, rounded down to the nearest 1000psi = K-Value

May 2010



40/70 Sand Sample Labeled V7