Subject:

Catch up and s 9(2)(a)

Location:

Bolton Hotel

Start: End:

Thu 27/02/2014 10:30 a.m. Thu 27/02/2014 11:00 a.m.

Show Time As:

Tentative

Recurrence:

(none)

Organizer:

s 9(2)(a)

SELEASED UNIDER THIE ACT

From:

s 9(2)(a)

atcil.co.nz>

Sent:

To: Subject: Tuesday, 4 March 2014 12:34 p.m. \$ 9(2)(a)

Re: Advantage NZ: 2014 Geotechnical Petroleum Forum

Give him a nudge

How's Singers

s 9(2)(a)

Sent from my iPhone

On 4/03/2014, at 12:32 PM, 1

s 9(2)(a)

@mbie.govt.nz> wrote

Kevin has nothing to do with the conference organisation now. It's brads

s 9(2)(a) s 9(2)(a)

On 4/03/2014, at 5:53 am,

s 9(2)(a)

@tcil.co:nz> w ote:

Hi s 9(2)(a) see below the first pick up on your conference by issue motivated groups – we will keep an eye on it for you

Nice addition of the words - let me know if you get approval for our involvement

s 9(2)(a)

Posted on Oil Free Wellington:

<image003.png>

From: \$ 9(2)(a)

Sent: Friday, 28 February 2014 4:33 p.m.

o:\ s 9(2)(a

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

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Keen to proceed and book some cheaper travel for the event

Have a great weekend

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Speak soon

s 9(2)(a)

s 9(2)(a) From: @mbie.govt.nz]

Sent: Wednesday. 22 January 2014 3:08 p.m.

To: s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

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I am currently engaging with Te Papa and our conference organisers on security.

Best.

s 9(2)(a)

Principal, Strategic Events

New Zealand Petroleum & Minerals | Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment Phone: \$9(2)(a) | Mob:\$9(2) Email: \$ 9(2)(a) Mob: \$ 9(2)(a)

2)(a) @med.govt.nz

33 Bowen Street J PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image004.jpg>

s-9(2)(a) @tcil.co.nz

Sent: Wednesday, 22 January 2014 11:16 a.m. To: >\\s\9(2)(a) **Kevin Rolens**

Subject; Advantage NZ: 2014 Geotechnical Petroleum Forum

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Would you mind if I put a proposal together and flicked it through to you?

Regards

s 9(2)(a)

/ MOBILE / PHONE / FAX / POSTAL / WEBSITE s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand

<image005.gif>

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RELEASED UNIDER THIE ACT

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Tuesday, 4 March 2014 3:59 p.m.

To:

s 9(2)(a)

Subject:

RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Isn't Brad with you – can't you say hope your using us! \$\frac{\\$9(2)(a)}{\$}\$ is waiting for Brads OK I would say and he is with you isn't he

s 9(2)(a)

From:

s 9(2)(a)

@mbie.govt.nz]

Sent: Tuesday, 4 March 2014 12:45 p.m.

To: s 9(2)(a)

Subject: Re: Advantage NZ: 2014 Geotechnical Petroleum Forum

And because I am bcc'd in I cannot forward!! Pick up your game man!

s 9(2)(a)

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New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment
Phone: \$9(2)(a) | Mob: \$9(2)(a) Email:

s 9(2)(a) @med.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam govt

<image004.jpg>

From: @tcil.co.nz

Sent: Wednesday, 22 January 2014 11:16 a.m.
To: Keyin Rolens Kevin Rolens

Subject: Advantage NZ: 2014 Geotechnical Petroleum Forum

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Would you mind if I put a proposal together and flicked it through to you?

Regards

s 9(2)(a)

s 9(2)(a)

PHONE FAX

PO Box 301775, Albany, NSMC 0752, New Zealand

POSTAL / WEBSITE

www.tcil.co.nz

s 9(2)(a)

<image005.gif>

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From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Friday, 7 March 2014 11:06 a.m. s 9(2)(a)

To: Subject:

RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Thanks our clients are seeking confidence that we will be involved - includes some of the sponsors as well

How's singers?

s 9(2)(a)

From:

s 9(2)(a)

@mbie.govt.nz]

Sent: Friday, 7 March 2014 10:51 a.m.

Subject: Re: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hey - Brad has also pushed for an answer here so we have understanding and certainty. We have a meeting Monday.

s 9(2)(a)

s 9(2)(a

@tcil.co.nz> wrote:

His 9(2)(a) do we have a green light to help out with the forum as per our proposal or are you waiting for Brad to return?

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Thanks and speak soon

On 7/03/2014, at 4:04 am,

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Sent: Tuesday, 4 March 2014 10:53 a.m. **To:** \$ 9(2)(a)

Cc: Kevin Rolens (Kevin Rolens@mbie.govt.nz)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

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New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

Phone: s 9(2)(a) | Mob: s 9(2)(a) | Email: s 9(2)(a)

s 9(2)(a) @mbie.govt.hz

33 Bowen Street PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image002.jpg>

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New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment s 9(2)(a) | Email: S 9(2)(a) | Mob: s 9(2)(a) Phone: s 9(2)(a) med.govt.nz 33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz <image002.jpg> s 9(2)(a)From: @tcil.co.nz Sent: Tuesday, 18 February 2014 3:38 p.m.

To: Suzanne Peri-Chapman

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\$ 9(2)(a) @med.govt.nz

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/ MOBILE / PHONE / FAX

/ POSTAL

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From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Wednesday, 12 March 2014 6:43 a.m.

To:

s 9(2)(a)

Cc:

s 9(2)(a)

Subject:

Re: Advantage NZ: 2014 Geotechnical Petroleum Forum

Attachments:

image.png

His 9(2)(a) and no worries - would you consider us attending and providing our time in contra to tickets for the event? We would be there to check those faces and provide the support outlined in our proposal.

Reason I ask is that issue motivated groups are picking up on the event - see the latest below and our clients will be aware of this and like to have confidence that we are at the event?



Let me know if this works for you?

Regards

s 9(2)(a)

Sent from my iPhone

On 10/03/2014, at 12:26 PM,

@mbie.govt.nz> wrote:

His 9(2)(a)

Good to catch up with you, and thanks for the TCIL proposal.

This time around we won't be going ahead with TCIL, as we have other arrangements in place however will no doubt talk again about other events.

Regards,

s 9(2)(a)

Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

| Mob s 9(2)(a)

Email: s 9(2)(a)

s 9(2)(a) @mbie.govt.nz 33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image004.jpg>

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New Zealand Petroleum & Minerals | Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

Phone: s 9(2)(a) @mbie.govt.nz | Mob: \$ 9(2)(a) | Email: \$ 9(2)(a) 33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz <image006.jpg> s 9(2)(a)@tcil.co.nz] From: **Sent:** Tuesday, 25 February 2014 1:49 p.m. **To:** \$ 9(2)(a) Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum Hello \$ 9(2)(a) am in town again this Thursday if you fancy a coffee and a catch up to discuss this? Let me know please s 9(2)(a) s 9(2)(a) @mbie.govt.nz] From: Sent: Wednesday, 19 February 2014 4:04 p.m. s 9(2)(a)Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum Thanks will get back to you shortly. s 9(2)(a) | Principal, Strategic Events New Zealand Petroleum & Minerals Infrastructure and Resource Markets Ministry of Business, Innovation & Employment
Phone: \$ 9(2)(a) Mob: \$ 9(2)(a) Email: s 9(2)(a) s 9(2)(a) @med.govt.nz 33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz <image006.jpg> @tcil.co.nz Sent: Tuesday, 18 February 2014 3:38 p.m. Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum His 9(2)(a) I trust all is well – please see attached our proposal I am in town this Thursday and next Thursday if you would like a coffee and discuss the proposal and conference Speak soon s 9(2)(a) s 9(2)(a) @mbie.govt.nz] From: **Sent:** Wednesday, 22 January 2014 3:08 p.m. **To:** \$ 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi 9(2)(a) Happy New Year to you too.

Yes, we'd be interested to see a proposal – there is info on the website about the programme, venue, dates and times etc. This one is of a much smaller scale than the Auckland one, no gala dinner, no Prime Minister, although the Minister will be attending to launch the Block Offer, and the maximum attendance possible is 300.

I am currently engaging with Te Papa and our conference organisers on security.

Best.

s 9(2)(a)

s 9(2)(a) Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

Phone: s 9(2)(a) | Mob:s 9(2)(a) Email: s 9(2)(a)

s 9(2)(a) @med.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image006.jpg>

From: \$ 9(2)(a) @tcil.co.nz

Sent: Wednesday, 22 January 2014 11:16 a.m.
To: \$9(2)(a) Kevin Rolens

Subject: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi \$9(2)(a) and Kevin, happy new year to you both.

Just touching base to see if we can provide a similar service as we did in 2013 with regard to this year's forum in Wellington? I am sure you will be targeted this year with the current O&G sentiment and election year.

We have done a lot of work with 9(2)(b)(ii) the past including reviewing the security of the S 9(2)(b)(ii) and have a good relationship with them.

Would you mind if I put a proposal together and flicked it through to you?

Regards

s 9(2)(a)

s 9(2)(a)

s 9(2)(a)

POSTAL

PO Box 301775, Albany, NSMC 0752, New Zealand

www.tcil.co.nz

<image007.gif>

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No Mining Hokianga shared a link.

19 hours ago . Edited





Welcome to Advantage NZ: Geotechnical Petroleum Forum 2014 | NZ Petroleum & Minerals

WWW. nzpam. gove. nz

Petroleum Geology & Wew the full programme 🔷 💠 Registration... The Forum was convey the latest knowledge of New Zealand?





Forum venue | NZ Petroleum & Minerals



WWW.nzpam.govt.nz

Forum wenue: Advantage NZ: Geotechnical Petroleum Forum 2014

Like - Reply - 19 hours ago

From:

s 9(2)(a)

@tcil.co.nz>

Sent: To:

Friday, 14 March 2014 2:08 p.m.

Subject:

s 9(2)(a)
Hey Jesepelle thanks for the catch up looking good girl

From:

s 9(2)(a) @tcil.co.nz >

Sent:

Thursday, 20 March 2014 4:16 p.m.

To:

s 9(2)(a)

Subject:

RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

That's a rental car site?

No worries we will do it as its spread across several clients

s 9(2)(a)

From:

s 9(2)(a)

@mbie.govt.nz]

Sent: Thursday, 20 March 2014 4:00 p.m.

To: s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

s 9(2)(a)

If your clients are expecting you to attend the events and sessions, they'd need to register you as delegates through the online registration system; see links at www.advantage.com

Best.

s 9(2)(a)

s 9(2)(a)

Principal, Strategic Events

New Zealand Petroleum & Minerals | Infrastructure and Resource Markets

Ministry of Bosiness, innovation & Employment Phone: \$9(2)(a) | Mob: \$9(2)(a)

Email:

s 9(2)(a)

@mbie.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz



1 - 3 APRIL 2014

MUSEUM OF NEW ZEALAND TE PAPA TONGAREWA, WELLIHGTON

www.advantagenz.com

THE UCY OF THEUCKE



New Zealand Government



From:

s 9(2)(a)

@tcil.co.nz]

Sent: Thursday, 20 March 2014 3:49 p.m. **To:** \$ 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

His 9(2)(a) we have a number of clients funding us to attend could you arrange for accreditation for s 9(2)(a) and myself

Cheers

s 9(2)(a)

@mbie.govt.nz]

Sent: Wednesday, 12 March 2014 3:06 p.m. **To**: **S** 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

s 9(2)(a)

This is not really ideal for us; but if you have clients who are attending, would they consider engaging you directly if they are concerned?

Let me know,

s 9(2)(a)

s 9(2)(a)

Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment
Phone: \$9(2)(a) | Mob; \$9(2)

Mob: s 9(2)(a)

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1 - 3 APRIL 2014

MUSEUM OF NEW ZEALAND TE PAPA TONGAREWA WELLINGTON

www.advantageru.c



From:

s 9(2)(a)

@tcil.co.nz]

Sent: Wednesday, 12 March 2014-6:43 a.m. **To:** s 9(2)(a)

s 9(2)(a)

Subject: Re: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi 5 9(2)(a) and no wornes - would you consider us attending and providing our time in contra to tickets for the event? We would be there to check those faces and provide the support outlined in our proposal.

Reason lask is that issue motivated groups are picking up on the event - see the latest below and our clients will be aware of this and like to have confidence that we are at the event?



Let me know if this works for you?

Regards

s 9(2)(a)

Sent from my iPhone

On 10/03/2014, at 12:26 PM, §

s 9(2)(a)

@mbie.govt.nz> wrote:

Hi s 9(2)(a)

Good to catch up with you, and thanks for the TCIL proposal.

This time around we won't be going ahead with TCIL, as we have other arrangements in place, however will no doubt talk again about other events.

Regards.

s 9(2)(a)

s 9(2)(a)Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

| Mob: \$ 9(2)(a) s 9(2)(a) Email: s 9(2)(a)

9(2)(a)@mbie.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image004.jpg>

s 9(2)(a) @tcil.co.nz1 From:

Sent: Friday, 7 March 2014 9:04 a.m.

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

His 9(2)(a)do we have a green light to help out with the forum as per our proposal or are you waiting for Brad to return?

A few of our clients have asked if we will be supporting the conference

Thanks and speak soon

s 9(2)(a)

Sent: Tuesday, 4 March 2014 10:53 am To: \$ 9(2)(a)

Cc: Kevin Rolens (Kevin Rolens@mbie.govt.nz)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi s-9(2)(a) see below the first pick up on your conference by issue motivated groups – we will keep an eye on it for you

Nice addition of the words - let me know if you get approval for our involvement

s 9(2)(a)

Posted on Oil Free Wellington:

<image005.png>

From: \$ 9(2)(a)

Sent: Friday, 28 February 2014 4:33 p.m.

s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Thanks for catching up yesterday and keen to get your approval next week if possible

As mentioned about the Investigation part in Thompson & Clark we are governed by the Private Security Personnel and Private Investigators Act 2010

http://www.legislation.govt.nz/act/public/2010/0115/latest/DLM1594432.html under that act you can perform various duties and for the forum we would be providing you consultation services not investigations

Keen to proceed and book some cheaper travel for the event

Have a great weekend

s 9(2)(a)

s 9(2)(a) @mbie.govt.nz] From:

Sent: Tuesday, 25 February 2014 3:08 p.m.

To: s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi - how's 10.30 at the Bolton Hotel for you?

s 9(2)(a) Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, In Innovation & Employment

Mob: \$ 9(2)(a) Phone:

s 9(2)(a) @mbie.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image006.jpg>

From: @tcil.co.nz

Sent: Tuesday 25 February 2014 1:49 p.m. To: S 9(2)(a)

Subject: RE: Advantage NZ. 2014 Geotechnical Petroleum Forum

Hello \$9(2)(a) am in town again this Thursday if you fancy a coffee and a catch up to discuss this?

Let me know please

s 9(2)(a)

s 9(2)(a)@mbie.govt.nz] From:

Sent: Wednesday, 19 February 2014 4:04 p.m.

To: \\$ 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Thanks 9(2)(a) will get back to you shortly.

s 9(2)(a)

s 9(2)(a) Principal, Strategic Events

New Zealand Petroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employmen

Mob: s 9(2)(a) Email: s 9(2)(a) Phone:

s 9(2)(a) 2 med.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image006.jpg>

From: \$ 9(2)(a) @tcll.co.nz]

Sent: Tuesday, 18 February 2014 3:38 p.m.

To: s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

His 9(2)(a) I trust all is well – please see attached our proposal

I am in town this Thursday and next Thursday if you would like a coffee and discuss the proposal and conference

Speak soon

s 9(2)(a)

From: s 9(2)(a) @mble.govt.nz

Sent: Wednesday, 22 January 2014 3:08 p.m.

To: s 9(2)(a)

Subject: RE: Advantage NZ: 2014 Geotechnical Petroleum Forum

Hi 9(2)(a) Happy New Year to you too.

Yes, we'd be interested to see a proposal – there is info on the website about the programme, venue, dates and times etc. This one is of a much smaller scale than the Auckland one, no gala dinner, no Prime Minister, although the Minister will be attending to launch the Block Offer, and the maximum attendance possible is 300.

I am currently engaging with Te Papa and our conference organisers on security.

Best,

s 9(2)(a)

S 9(2)(a) Principal Strategic Events

New Zealand Retroleum & Minerals Infrastructure and Resource Markets

Ministry of Business, Innovation & Employment

Phone: s 9(2)(a) Mob. s 9(2)(a) Email: s 9(2)(a)

s 9(2)(a)@med.govt nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz

<image006.jpg>

From: \$ 9(2)(a) @tcil.co.nz]

Sent: Wednesday, 22 January 2014 11:16 a.m.
To: \$9(2)(a) Kevin Rolens

Subject: Advantage NZ: 2014 Geotechnical Petroleum Forum

His 9(2)(a) and Kevin, happy new year to you both.

Just touching base to see if we can provide a similar service as we did in 2013 with regard to this year's forum in Wellington? I am sure you will be targeted this year with the current O&G sentiment and election year.

We have done a lot of work with s $^{(2)(b)(ii)}$ in the past including reviewing the security of the and have a good relationship with them.

Would you mind if I put a proposal together and flicked it through to you?

Regards

s 9(2)(a)

MOBILE PHONE s 9(2)(a)

/ FAX / POSTAL / WEBSITE

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<image007.gif>

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From:

s 9(2)(a) @tcil.co.nz>

Sent:

Wednesday, 2 April 2014 12:01 p.m.

To: Subject: s 9(2)(a)
Fwd: Website hack spoof

Sent from my iPhone

Begin forwarded message:

From: Natex 5 9(2)(a) Otcll.co.nz

Date: 2 April 2014 11:45:46 AM NZDT

To: Natex < \$9(2)(a) \$1.00.nz \$9(2)(a)

s 9(2)(a) @tdl.co.nz>

Cc: '\$9(2)(a) @t60.co.nz'5 9(2)(a)@t60.co.nz)" 59(2)(a) @t60.co.nz>

Subject: Website hack spoof

They've repeated the old Greenpeace parallel web page back hoax.

http://bigoilspill.com/index.php?url=http://www.nzpam.govt.nz/cms/conference/welcome-to-advantage-nz-2014

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Thursday, 1 May 2014 9:49 a.m.

To:

Bradley Ilg Thanks

Subject: Attachments:

s 9(2)(a) vcf

Hi Brad sorry I haven't followed up since Advantage and wanted to say thanks for the dancing experience!

I understand you have lost your wing girl - she will be a loss to the NZP&M

See my e-business card attached and I've sent you a LinkedIn request

Catch you for a coffee when I am in town next

s 9(2)(a)

/ MOBILE / PHONE s 9(2)(a)

FAX POSTAL WEBSITE

PO Box 301775, Albany, NSMC 0752, New Zealand

www.tcll.co.nz

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INVESTIGATIONS

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Full Name:

Last Name: First Name:

s 9(2)(a)

Job Title:

Director

Company:

Thompson & Clark

Business Address:

PO Box 301775

Albany NSMC 0752

Business:

Business 2:

s 9(2)(a)

Mobile:

E-mail:

E-mail Display As:

s 9(2)(a) @tcil.co.nz

s 9(2)(a)

Dtc . onz)

Web Page:

www.tcil.co.nz

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Thursday, 5 June 2014 2:12 p.m.

To:

Kevin Rolens

Subject:

Dinner next week?

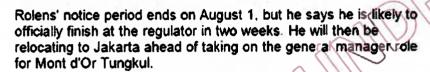
Hi mate I see you found that exit? I am in town next week fancy dinner on Tuesday night or a coffee on Wednesday

s 9(2)(a)

Rolens departs NZP&M for Indonesia

Felicity Wolfe

New Zealand Petroleum & Minerals director Kevin Rolens is leaving to head up the Indonesian operations of Singapore-based explorer Mont d'Or.



He told *Energy News* that while a lot has been achieved during the four years he led NZP&M's petroleum unit. he is most proud of the...

s 9(2)(a)

MOBILE PHONE FAX POSTAL s 9(2)(a)

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Corey Burgess

From:

s 9(2)(a)

@tcil.co.nz>/

Sent:

Thursday, 5 June 2014 4:45 p.m.

To:

Bradley Ilg

Subject:

RE: Searcher Survey Contact?

I can well imagine – I know \$ 9(2)(a) is over as well so could be a good catch up with you get the chance

Do you have \$ 9(2)(a) details?

Cheers

s 9(2)(a)

From: Bradley Ilg [mailto:Brad.llg@mbie.govt.nz]

Sent: Thursday, 5 June 2014 4:25 p.m.

To: \$ 9(2)(a)

Subject: RE: Searcher Survey Contact?

Hey mate. They keep peeling off like used plasters!

I'd start with \$ 9(2)(a) and go from there.

Might could do with a beer. Things are a bit dynamic at the mo so will commit later.

b

rom: \$ 9(2)(a)

i@tcil.co.nz]

Sent: Thursday, 5 June 2014, 4:07 p.m.

To: Bradley Ilg

Subject: Searcher Survey Contact?

Hi mate see Kevin is moving on!

On a separate topic do you have any contacts in Searcher re their survey. I see \$\,\begin{align*} \\$ 9(2)(a) \quad \quad \quad \text{quoted but not sure} \\ \text{if he is the correct person to approach?} \end{align*}

Cheers hope all is well and might be in town next Tuesday night if you fancy a beer — I have asked Kevin but not sure if he will be seen

Speak soon

s 9(2)(a)

MOBILE PHONE FAX

s 9(2)(a)

/ POSTAL

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From:

s 9(2)(a) s 9(2)(a)@tcil.co.nz>

Sent:

Monday, 9 June 2014 8:22 a.m.

To: Cc:

Andrew Annakin s 9(2)(a)

Subject:

FW: TOGS meeting - Tuesday 24 June 2014

Attachments:

SPE_2013-102.pdf; Taranaki Oil Gas Group - Agenda 24.06.14.pdf

Hi Andrew

I sent you this email last Wednesday, I'm not sure if you received it. Does this help regarding your request for more guidance?

Regards

s 9(2)(a

Office Manager

/ MOBILE POSTAL

s 9(2)(a) PO Box 301775, Albany, NSMC 0752, New Zealand www.tcil.co.nz

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From: \$ 9(2)(a

Sent: Wednesday, 4 June 2014 1:33 a.m.

To: andrew.annakin@mbie.govt.nz Cc: \$ 9(2)(a)

@tcil.co.nz)

Subject: FW: FOGS meeting - Tuesday 24 June 2014

Hi Andrew

Email sent out regarding the TOGS meeting on the 24th June below (for your information). Attached is a copy of the agenda.

Regards

s 9(2)(a)

Office Manager

/ MOBILE / POSTAL

s 9(2)(a) PO Box 301775, Albany, NSMC 0752, New Zealand

/ WEBSITE www.tcil.co.nz

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From: \$ 9(2)(a)

Sent: Wednesday, 4 June 2014 11:13 a.m.

To: \$ 9(2)(a) @anadarko.com'; * 9(2)(a) @porttaranaki.co.nz'; * 9(2)(a) @porttaranaki.co.nz'; * 9(2)(a) @porttaranaki.co.nz'; * 9(2)(a) @police.govt.nz'; * 9(2)(a) @pol

Subject: TOGS meeting - Tuesday 24 June 2014

Hi all,

TOGS will be held on Tuesday 24 June at the Port of Taranaki admin building and two invites will be sent out to you for this quarterly TOGS meeting which will be between 1pm and 4pm

The first invite (1-2pm) is open to others within your organisations such as operations managers and will involve a unmanned aerial vehicle (UAV) demonstration. UAV's are being used overseas in the oil and gas industry as outlined in the attached Journal of Petroleum Technology. The proposed intention of the demonstration is to start discussion around how UAV's could be used in the New Zealand Oil and Gas industry and what rules and regulations should apply. The port has allowed for this demonstration to take place around its facilities and it will involve the use of several aircraft attached with different types of cameras both standard and thermal. If interest is significant enough a second UAV demonstration can be arranged for the morning of the 24 June.

The second invite will be for the standard TOGS group and will follow the UAV demonstration. Our guest speaker will be Andrew Annakin Director Policy at New Zealand Petroleum and Minerals and he will discuss the non-interference laws and lessons learnt from this season.

The invites will be sent out under separate cover, if you could confirm who will be attending both invites please. The UAV demonstration may be postponed if the weather isn't suitable, you will be notified accordingly.

Regards

s 9(2)(a)

Office Manager

/ MOBILE / POSTAL / WEBSITE s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand www.tcil.co.nz

THOMPSON + CLARK

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JOURNAL OF PETROLEUM TECHNOLOGY . www.spe.org/jpt

OCTOBER 2013

Applications for Oil and Gas

FEATURES

Middle East Shale

Proppant and the Bottom Line

Gaps in Water Treatment Technology

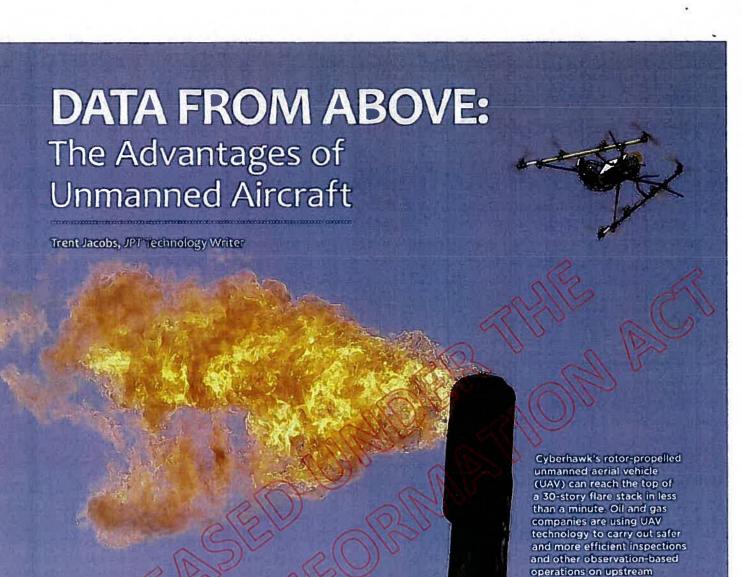
SPE International Award Winners

FIELD DEVELOPMENT PROJECTS

TIGHT RESERVOIRS

DATA MANAGEMENT AND COMMUNICATION

SAND MANAGEMENT AND FRAC PACK



aking them fly was the easy part. Making them useful was the next challenge. And now unmanned aerial vahicles (UAVs) are being put to the test to determine where they are the most applicable to the oil and gas industry. Companies and university researchers developing these 'flying computers' believe that their sector is ready to repidly expand, because of recent technological advancements and legislation that will open up the unmanned skies in the industry's largest potential market by 2015; the United States.

UAVs are already being used by some oil and gas companies to inspect flare stacks and track migrating wildlife and ice floes in the Arctic. In the near future, UAVs will be used as important tools to respond to oil spills and pipeline monitoring, and in offshore installation and decommissioning operations.

A few years ago, the militaries of the world held a virtual monopoly on the application of UAV technology, and UAVs available to the private sector were little more than eyes in the sky with limited functionality. Today, commercial

UAVs are the benefactors of miniaturized electronics, partly thanks to the smartphone industry and advanced software programs specifically designed to make sense of the different types of data that can be gathered while flying. Equipped with lasers, high-definition cameras, thermal imaging systems that can "see" at night, and an array of other sensors, advocates of UAVs claim they are not simply cheaper alternatives to fixed-wing aircraft and helicopters, but in many ways are more capable and, without question, safer to operate.

oil and gas facilities. Photo courtesy of Cyberhawk.

Last fall, BP completed an experimental flight in Prudhoe Bay, Alaska, using a quadrotor UAV developed by Canadian-based Aeryon Labs. Quadrotor UAVs, also called quadcopters, use four rotors to lift and move the aircraft and are known for their maneuverability. At the time, US authorities were only issuing flight certificates to determine the airworthiness of UAVs without allowing commercial operations. BP completed the test run to determine how Aeryon's UAV could inspect oilfield equipment and pipelines to assess maintenance needs.

The Aeryon Scout, a 3-lb backpack-sized UAV capable of carrying out 20-min reconnaissance flights, has been used on every continent, except Antarctica, and was used by Libyan rebels in support of their march on Tripoli in 2011. Aeryon said it makes flying UAVs as easy as possible by integrating airborne and satellite maps into the navigation system, which is installed on a touch-screen tablet. "We've built a system that flies itself and the operator just tells it where to go," Dave Kroetsch, cofounder and president of Aeryon, said. "Anyone can pilot it and it is very easy to use. Simply touch and guide."

An upgrade to the Scout, the SkyRanger, is twice as capable with a flight time of up to 50 min and comes equipped with a high-definition camera instead of a standard-definition camera. Electronics manufacturers have been able to shrink the size of critical components, including thermal sensors and imaging systems, thus giving UAV companies more flexibility. "Things are getting smaller, which is giving us the ability to fly longer," Kroetsch said, noting that, "while there is a lot of interesting experimentation going on, there are not big rollouts in [the oil and gas] industry quite yet."

Aerial Geologic Modeling

In July, researchers from the Virtual Outcrop Geology (VOG) group at the Centre for Integrated Petroleum Research (CIPR) in Norway used an experimental UAV to analyze the geometry of exposed sedimentary rock formations in Spain. The group's focus is the study of geologic outcrops to address reservoir related challenges. Geologists have long used outcrops as accessible and in-situ means of studying rock formations that have characteristics similar to a subsurface reservoir.

The research team piloted a small-sized UAV equipped with a digital camera just a few meters from the outcrops, taking thousands of images. After taking several short 10-min flights to cover as many angles as possible, the image data was used to generate a 30 model of each outcrop [Fig. 1].

"We're looking at geological features that might be the same as what is inside the reservoirs," said Simon Buckley, a senior CIPR researcher and project leader of the VOG group in Bergen, Norway. "This technology heips us to understand the configuration of different kinds of rock, the geological features within the rock, and how they would affect oil production in the reservoir.

The VOG group has been using 3D laser scanning technology for nearly a decade to scan surfaces within a centimeter of accuracy. Helicopters outfitted with the same type of laser have been used before, but would have to fly above the outcrops at dangerously low altitudes to achieve the same resolution as the UAV can with the digital cameras. In addition, UAVs cost less than 3D laser technology and can obtain data in significantly less time.

Outcrop data may help geologists and petroleum engineers fill in small gaps in subsurface geologic data by allowing the detailed study of features too small to be detected by seismic technology. "Even if you have a layer (of rock) I cm thick, it may have a significant effect on how fluid flows through it," Buckley said. Using enhanced-maging UAV technology, geologists in the future may hold the potential to identify other issues and anomalies, "that you don't see in the seismic data," he said.

The project is part of a study being funded by a consortium of 17 companies based in Norway, including oil and gas companies, to develop a database of outcrops



The Aeryon Scout takes off during a test flight over BP oil pipelines in Prudhoe Bay, Alaska. Weighing less than 3 lb (1.4 kg) and controlled by a touch-screen tablet, the unmanned aerial vehicle, is used for flare stack inspection, wildlife observation, and oil spill response operations. Photo courtesy of Aeryon.



An unmanned aerial vehicle piloted by researchers uses a digital camera to take detailed photos of an outcrop's rocky layers in Spain. The flight was part of a reservoir modeling database project aimed at learning more about the fluid dynamics of similar subsurface rock formations. Photo courtesy of Simon Buckley/Aleksandra Sima.

UNMANNED AERIAL VEHICLE TECHNOLOGY



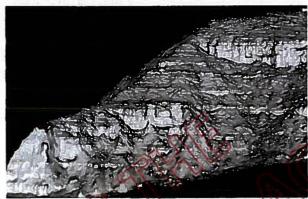


Fig. 1—Detailed image data collected by an unmanned aerial vehicle are stitched together to form a 3D point cloud, left, and a digital outcrop model, right. The models provide extremely accurate measures of the rock and teach geologists about the sedimentary rock architecture. Images courtesy of Simon Buckley/Aleksandra Sima.

that can be studied by students and geologists.
With this type of data, geologists have the ability to build models to simulate an oil and gas reservoir for fluid flow analysis.

Making Inspections Safer

A main driver for the widespread use of UAVs is the health and safety benefits that they offer. Some in the burgeoning UAV industry liken their introduction to the oil and gas industry to the emergence of another robotic technology: remotely operated vehicles (ROVs), "Initially, ROVs were seen as a bit gimmicky with limited use," Chris Fleming, cofounder and operations director of Cyberhawk, said, "but now they're used routinely all over the world."

used routinel all over the world."

The core business of Cyberhawk, a UAV inspection and surveying company based in the United Kingdom, is live tiare inspection. It uses pairs of trained pilots and qualified inspectors to fly and interpret the images captured by its



Cyberhawk uses unmanned aerial vehicles to inspect flare stacks, derricks, and other offshore structures for oil companies. Its nimble UAV technology allows certified inspectors to closely examine hazardous areas of offshore platforms from the safety of the main deck. *Photo courtesy of Cyberhawk*.

JPT • OCTOBER 2013

UNMANNED AERIAL VEHICLE TECHNOLOGY



Among the problems that unmanned aerial vehicles can diagnose on a flare is low-gas velocity, which could cause the gas to burn too close to the flare tip, causing it to or deform. Photo courtesy of Cyberhawk.

rotor-propelled UAVs, each weighing less than 5-lb (2 kg). The company founders were working as oil and gas inspection engineers when they realized the potential of UAVs.

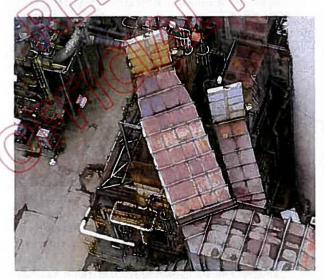
"We had the idea that we could use flying robots for inspection because, in some cases, we were asking people to be put in dangerous environments to basically tell us if something was there, or if something was in reasonable condition," Fleming said. "In the past, you would have to shut down the flare to carry out the inspection or in some cases in the United States, you have people in protective sults

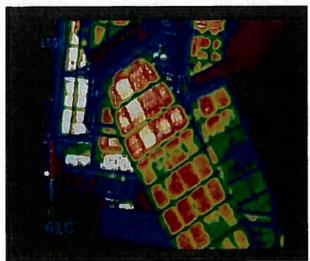
going up to inspect and carry out maintenance on a live flare at the risk of being burned."

After establishing Cyberhawk in 2008, the founders spent the first 2 years proving to themselves that the technology worked before approaching their old bosses in the oil and gas industry. It took the company another 2 years to build a track record of more than 150 successful onshore UAV operations for major oil and gas companies in the Middle East, southeast Asia, and Europe.

Last year, the company was a warded its first offshore contract to inspect a derrick on a drilling rig. Because the operation was completed without having to stop drilling operations, which is the normal procedure for a manned inspection, Cyberhawk says it saved the operator more than GBP 4.6 million (USD 7.2 million). In another offshare project, the company was called to assist Shell with decommissioning a Korth Sea platform. In previous compaigns, Shell had tried erecting scaffolding beneath the platforms to inspect the integrity of the under deck, but frequent storms sent halfcompleted scaffold structures to the seafloor, causing ignificant setbacks. We were able to do the under-deck survey in 5 days versus a 2-month scaffolding campaign," Fleming said, Using our inspection data, they were comfortable enough to say that the under deck was in good enough condition to hold together and the platform could be lifted off in one go."

Fleming expects to see more offshore companies use UAVs during key offshore events such as topside installations. Other developments, he predicts, will make it possible to fly tiny micro-UAVs capable of autonomous inspections inside bulk storage tanks to generate 3D images





UAVs can transmit live, high-definition video, left, and infrared video to inspectors on the ground, who can identify metallic components showing signs of thermal fatigue and locate sources of gas leaks at refineries and production platforms. *Photos courtesy of Cyberhawk.*

40



Aerovironment's Puma As samong the first commercial unmanned aerial vehicles to be licensed to fly in the United States. Launched from land or sea, the UAV's most critical components, including the battery and motor controller, can be replaced in minutes without the need for special tools. Photo courtesy of Aerovironment.

that would reveal critical defects if present a sometimes hazardous task for humans, because of chemical fumes that may be present.

Tight Restrictions in the US

UAV experts say a broad pan in the US on the commercial use of UAVs is holding back market growth. Countries such as Norway and Canada have been more relaxed in allowing routine commercial UAV flights, and still other countries have no restrictions on UAVs. The US government, meanwhile, has set a deadline of September 2015 for itself to establish the regulations that will govern the use of UAVs in its domestic airspace. When the rules are in place and the ban is lifted, the leading UAV industry group, the Association for Unmanned Vehicle Systems International, projects that the US market alone will generate more than USD 82 billion in revenue within a decade.

While those rules are being worked on, commercial licenses for UAVs are being issued on a case-by-case basis in the US for flights over Alaska, where oil companies are studying how to use the technology to facilitate safe exploration of the Arctic Ocean. ConocoPhillips, which was

granted one of two commercial licenses in July to operate UAVs over Alaska, said that it is working with US regulatory bodies to evaluate the safety of the technology and is in the final stages of determining how the company will use UAVs in its operations.

The only other company to receive approval for its commercial operations in Alaska is Aerovironment, the largest supplier of UAVs to the US military. The type of UAVs that the company makes are smaller and lighter weight and make up 85% of the US military's UAV inventory, but they only account for 3% of total defense dollars spent on the technology. Companies such as Aerovironment are eager to show regulators and the oil and gas industry the reliability and value of this new technology. "This is a very important step along that path and it is opening up a region that can be quite difficult to operate an aircraft in and is much less populated than other areas." Steve Gitlin, an Aerovironment spokesman, said.

The company will begin flying its UAV, known as a Puma AE, over the coast of the Beaufort Sea in the Arctic Circle this year in support of emergency response crews for oil spill monitoring and wildlife observation. The UAVs provide the

ability to maintain constant surveillance on ice floes that may put offshore facilities and vessels at risk of collision if not spotted early and can detect the presence of whales. In case of an oil spill in the Arctic, UAVs will be among the first systems deployed to determine the extent and direction of the spill.

The Puma AE has a wingspan of 8 ft and is capable of staying airborne for more than 9 hr using new battery technology and flexible solar panels that wrap around the top of the wings. Weighing only 13 lb, the Puma AE can be assembled in minutes by snapping the pieces of the aircraft together and is waterproof, allowing it to touchdown safely on land or sea. "Unlike larger systems that require runways or machinery to launch and land, or large teams of people, our systems are portable," said Gitlin. "You just toss it into the air."

Depending on how each aircraft is equipped,
Aerovironment says a package of three UAVs, including
spare parts and a ground communication system, costs
between USD 100,000 and USD 200,000. This compares
with traditional fixed-wing aircraft and helicopters that
can cost up to USD 3,000/hr of flight time.

Software Integration

This summer, Portugal's military carried out a mission to prove how UAVs could quickly locate oil slicks and spills. It requested the halp of Raja Sangupta, a professor and leading researcher in wireless communications and inertial navigation for UAVs at the University of California at Berkeley.

To simulate the oil spill, the Portuguese havy dropped 100-kg (220 lb) of popcorn in the Atlantic Ocean. Then we had a UAV take off from a runway and we handed off control from one station to another station, because it flew about 40 to 50 km away. Sengupta-said. "And then it went under the control of a ship that was near the popcorn. The UAV searched the great found the

popoorn, imaged the popoorn, and told the ship where the popoorn was.

The naval vessel then sailed to the exact location of the popcorn and placed drifting devices in the

water to

track the popcorn and take water samples. The drifters beamed the data they were collecting up to the UAV, which then brought the data back to the air force base where it left from. Flying in a scanning pattern over 100 km² [62 sq miles] of open water, the UAV located the popcorn in less than 90 min and the operation from takeoff to landing lasted less than 3 hr. The operation showed how UAVs need to be integrated with different types of communications software onboard vessels, ground stations, and satellites.

"All of these different information systems have to bridge with each other," Sengunta said. To that end, he and other researchers are working to develop the software tools that will enable UAVs to be controlled by multiple types of computer platforms. Additionally, artificial intelligence will help make UAVs safer to operate. Avoidance systems must be fully developed to ensure that UAVs steer clear of other aircraft to prevent midair collisions.

We're certainly not going to make helicopter and airplane pilots responsible for avoiding UAVs," Sengupta said.
The UAVs will have to avoid them.

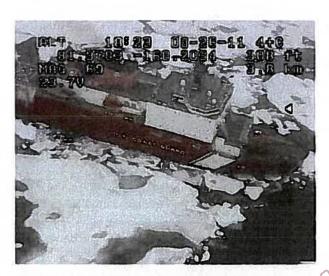
loing in the Arctic

Other technical hurdles for the UAV industry remain. Among them is the phenomenon of icing that occurs in areas such as the Arctic, even if temperatures are a few degrees above freezing. When moisture-saturated air, or fog, evaporates off the wings of a UAV, it cools just enough to leave a small amount of ice on the aircraft's surface.

"It does not take very long to ice up a small unmanned aircraft so that it is no longer responsive to controls," said Philip McGillivary, science liaison for the US Coast Guard Pacific Area. "That's an issue that hasn't been resolved by anyone. So we're working to get that solved," he said.

McGillivary is advising in UAV studies at the

The Puma AE is equipped with an electrooptical and infared camera housed in a
mechanical gimbaled payload
system that lets the operator
maintain constant tracking
on a point of interest. Photo
courtesy of Aerovironment.



The use of an unmanned aerial vehicle (UAV) for ice monitoring provides vessels and offshore facilities with a live video and infrared analysis of the ice conditions around them. The photo above was taken by a UAV in summer 2011 of the US Coast Guard Cutter, Healy, a polar icebreaker used for scientific research. Photo courtesy of the US Coast Guard.

Norwegian University of Science and Technology, Norway's main engineering university, in collaboration with Statoli, and is helping draft UAV flight protocols for the National Science Foundation.

The conventional de-icing chemicals used on manned aircraft do not apply to UAVs because of their small size.

McGillivary says that new technologies such as carbon nanotube paint could be used to eliminate icing, because a small electrical charge flows through the paint to keep the wings warm. Other solutions for camera and sensor housings, which usually need to be transparent, could include using glass with nano-growes too small to notice with the naked eye, but which are just the right size to prevent droplets from forming and turning into ice.

McGillivery, who lost a fellow researcher and friend after his plane creshed in the Arotic, understands the potential that JAVs hold as a lifesaving and enabling technology. "In the Arctic, manned flight is quite expensive and at times, quite dangerous, the said, pointing out that the nearest US Coast Guard rescue station is almost 1,000 miles away from where oil companies have said they plan to explore for oil and use in the Arctic. "Of course, unmanned aircraftare not as risky because there's no human in there. If you lose one, you lose a piece of gear, not several people's lives," he said. JPT

Taranaki Oil & Gas Security Working Group

Tuesday 24 June 2014 1300 - 1630hrs (approx.)

Port Taranaki 2/8 Bayly Road New Plymouth

Agenda

• 1300 - 1305	s 9(2)(a)	Welcome and housekeeping
• 1305-1400	s 9(2)(a)	Unmanned Aerial Vehicle Demonstration
* 1400-1410	\$ 9(2)(a)	Approval of minutes from last meeting
* 1410-1500	AT ME	Introductions and updates from attendees on current projects and any upcoming projects (5mins/company)
1500-1510	s 9(2)(a)	Any points of business
* 1510-1555	Andrew Annakin	Director Policy NZ Petroleum & Minerals
* 1555-1600	All	Any other business (including possibility of adding Maritime NZ \$ 9(2)(a) \$ 9(2)(a) - to TOGS group).
* 1600-1610	s 9(2)(a)	Round up, actions and next meeting date

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Thursday, 22 May 2014 4:03 p.m.

To:

Andrew Annakin, S 9(2)(a) police.govt.nz/

Cc:

s 9(2)(a) James Stevenson-Wallace:

Subject:

RE: Invitation to speak at TOGS

Thanks Andrew that's very kind of you.

\$9(2)(a) can you send out a invite for the next TOGS meeting early afternoon Tuesday 24 June with a fall back of afternoon Thursday 26 June

Please inform the group that our guest speaker will be Andrew

Also suggest that we would like a host for a venue

Thanks

s 9(2)(a)

From: Andrew Annakin [mailto:andrew.annakin@mbie.govt.nz

Sent: Thursday, 22 May 2014 3:57 p.m.

To:

s 9(2)(a)

@police.govt.nz

Cc: James Stevenson-Wallace

Subject: RE: Invitation to speak at TOGS

Hev s 9(2)(a)

Yes, that week works for me.

Not sure what day you were thinking, but best for me would be the Tuesday or Thursday - I have to chair meetings on the other days that week.

Of the two, can I make a play for the Tuesday?

Cheers.

Andrew Annakin | Director Policy

New Zealand Petroleum & Minerals I Ministry of Business, Innovation & Employment Phone: +64 901 1524 | Mob^{s 9(2)(a)} | Email: andrew.annakin@mbie.govt.nz 33 Bowen Street | P O Box 1473 Wellington 6140 | www.nzpam.govt.nz



s 9(2)(a)

@tcil.co.nz]

Sent: Thursday, 22 May 2014 9:22 a.m.

To: Andrew Annakin; s 9(2)(a) @police.govt.nz

Subject: RE: Invitation to speak at TOGS

Hi Andrew I have left you a voice mail and just following up on our invitation to talk at TOGS

We would be looking at a time that suits you during week starting 23 June - how does that work with you?

Thanks

s 9(2)(a)

From: s 9(2)(a)

Sent: Wednesday, 14 May 2014 11:17 a.m.

To: Andrew Annakin (andrew.annakin@mbie.govt.nz), \$ 9(2)(a) @police.govt.nz

Subject: Invitation to speak at TOGS

Hi Andrew I hope all is well.

We have an oil and gas industry group in New Plymouth called TOGS (Taranaki Oil and Gas Security) The group is made up of all the oil and gas senior personnel responsible for in country security (mainly country managers and heads of HSE) both on shore and off shore and we meet quarterly.

The group is chaired by Insp. \$9(2)(a) the local police area commander or Taranaki and we invite aguest speaker to each meeting. At the last meeting we invited Supt \$9(2)(a) and this next meeting in June we would like to invite yourself to provide an overview of the Interference from MEBIE and some lessons learnt from this seasons on water protest, the CMA and looking forward?

Could you let myself and 992Xa know if you are interested and if so which date in lone works for you? The meeting will be in New Plymouth venue yet to be confirmed.

Kind Regards

s 9(2)(a)

s 9(2)(a)

PHONE

/ FAX

/ POSTAL

NO Box 301775, Albany, NSMC 0752, New Zealand



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s 9(2)(a) s 9(2)(a)@tcil.co.nz> From: Thursday, 22 May 2014 4:45 p.m. Sent: s 9(2)(a) @anadarko.com; \$9(2)(a)@porttaranaki.co.nz; To: 9(2)(a) porttaranaki.co.nz; \$ 9(2)(a) porttaranaki.co.nz; @npdc.govt.nz; s 9(2)(a) @police.govt.nz'; s 9(2)(a) @police.govt.nz'; s 9(2)(a) @police.govt.nz'; ' s 9(2)(a) @omv.com'; s 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com'; s 9(2)(a) @tagoil.com'; ' s 9(2)(a) @originenergy.com.au'; s 9(2)(a);@newzealandenergy.com'; s 9(2)(a) @stos.co.nz'; s 9(2)(a) ②awexplore.com'; s 9(2)(a) @awexplore.com'; s 9(2)(a) @methanex.com Natex: (\$ 9(2)(a) Andrew Annakin; Cc: s 9(2)(a)s 9(2)(a)@t60.co.nz TOGS meeting Subject:

Hi all

The time is coming up for the next TOGS meeting. For the initial planning could you let me know if 2pm (finish about 4pm) on Tuesday 24th June will be suitable for either you or a nominated proxy (this is the preferred day although we could have an alternative day of Thursday 26th if the 24th isn't suitable). Andrew Annakin of New Zealand Petroleum & Minerals will be our guest speaker.

Could you get back to me as soon as possible with your availability for the 24th (or alternative). We also need a host for a venue – any offers would be most welcome.

Look forward to hearing back from you.

Regards

s 9(2)(a)
Office Manager

/ POSTAL / WERSTIE 9 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand www.tcil.ss.nz

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this correspondence.

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Sunday, 25 May 2014 6:33 p.m.

To:

Bradley Ilg

Subject:

Catch up

Hi Brad I am in town Tuesday late afternoon and wonder if you fancied a beer after work or a coffee on Wednesday

Cheers

s 9(2)(a)

Sent from my iPhone

From:

s 9(2)(a)

s 9(2)(a)@tcil.co.nz>

Sent:

Monday, 26 May 2014 11:54 a.m.

To:

s 9(2)(a)

Subject:

RE: TOGS meeting

Hi s 9(2)(a)

I now have a confirmed date of Tuesday 24 June from 1400 until 1600 at Port Taranaki offices. The address is 2-8 Bayly Road, New Plymouth.

Regards

s 9(2)(a)

Office Manager

/ MOBILE POSTAL WEBSITE s 9(2)(a)

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s 9(2)(a)

@mbie.govt.nz]

Sent: Monday, 26 May 2014 10:00 a.m.

s 9(2)(a)

Subject: FW: TOGS meeting

Hi s 9(2)(a)

Just wondering if dates have been confirmed for this meeting?

Thanks s 9(2)(a)

S 9(2)(a) PA & Team Administrator

New Zealand Petroleum & Minerals | Infrastructure and Resource Markets Ministry of Business, Innovation & Employment

s 9(2)(a)

@mbie.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz





Ministry of Business. Innovation & Employment From: Andrew Annakin

Sent: Friday, 23 May 2014 3:10 p.m.

To: s 9(2)(a)

Subject: FW: TOGS meeting

Can you look at flight options for me?

Cheers.

Andrew Annakin

r s 9(2)(a) @tcil.co.nz] Sent: Thursday, 22 May 2014 4:45 p.m.

To: S 9(2)(a) @anadarko.com'; **

**P(2)(a) @porttaranaki.co.nz'; **

**S 9(2)(a) @porttaranaki.co.nz'; ** @npdc.govt.nz'; s 9(2)(a) @police.govt.nz'; s 9(2)(a) @police.govt.nz'; s 9(2)(a)@porttaranaki.co.nz'; s 9(2)(a) @police.govt.nz'; s 9(2)(a) @omv.com'; '\$ 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com' \$9(2)(a) @originenergy.com.au'; \$9(2)(a)@newzealandenergy.com @tagoil.com'; s 9(2)(a) @awexplore.com'; \$ 9(2)(a) @awexplore.com'; s 9(2)(a) @stos.co.nz'; s 9(2)(a) @methanex.com Natex: \$ 9(2)(a) Andrew Annakin; 2636@t60.co.nz s 9(2)(a) Subject: TOGS meeting

Hi all

The time is coming up for the next TOGS meeting. For the initial planning could you let me know if 2pm (finish about 4pm) on Tuesday 24th June will be suitable for either you of a nominated proxy (this is the preferred day although we could have an alternative day of Thursday 26th if the 24th isn't suitable). Andrew Annakin of New Zealand Petroleum & Minerals will be our guest speaker.

Could you get back to me as soon as possible with your availability for the 24th (or alternative). We also need a host for a venue - any offers would be most welcome.

Look forward to hearing back from you

Regards

s 9(2)(a)

Office Manager

MOBILE POSTAL

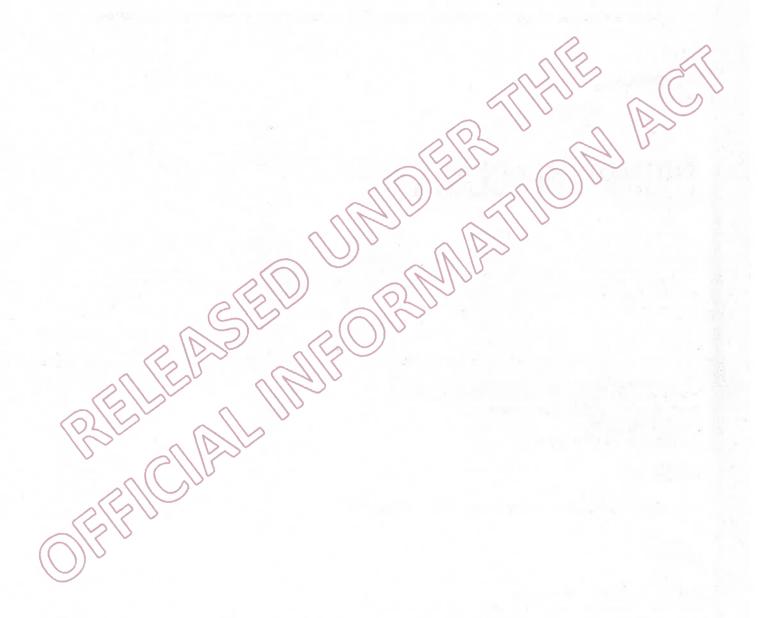
s 9(2)(a)

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From:

s 9(2)(a) s 9(2)(a) tcil.co.nz>

Sent:

Monday, 26 May 2014 11:59 a.m.

To:

s 9(2)(a)

Subject:

RE: TOGS meeting

His 9(2)(a)

I think our emails may have crossed. Could you confirm you have received my email giving you the dates?

Cheers.

s 9(2)(a)

Office Manager

/ MOBILE / POSTAL / WERSITE s 9(2)(a)

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From:

s 9(2)(a)

@mbie.govt.nz]

Sent: Monday, 26 May 2014 10:00 a.m.

To: (\$9(2)(a)

Subject: FW: TOGS meeting

His 9(2)(a)

Just wondering if dates have been confirmed for this meeting?

Thanks s 9(2)(a)

s 9(2)(a) PA & Team Administrator

New Zealand Petroleum & Minerals | Infrastructure and Resource Markets Ministry of Business, Innovation & Employment

100

s 9(2)(a)

@mbie.govt.nz

33 Bowen Street | PO Box 1473 Wellington 6140 | www.nzpam.govt.nz





Ministry of Business, Innovation & Employment

From: Andrew Annakin

Sent: Friday, 23 May 2014 3:10 p.m.

To: \$ 9(2)(a)

Subject: FW: TOGS meeting

Can you look at flight options for me?

Cheers,

Andrew Annakin

From: \$ 9(2)(a) \$ 9(2)(a) @tcil.co.nz]

Sent: Thursday, 22 May 2014 4:45 p.m.

To: \$ 9(2)(a) @anadarko.com'; \$ 9(2)(a) @porttaranaki.co.nz'; \$ 9(2)(a) @porttaranaki.co.nz'; \$ 9(2)(a) @police.govt.nz'; \$ 9(2)(a) @police.govt.nz'; \$ 9(2)(a) @police.govt.nz'; \$ 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com'; \$ 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com'; \$ 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com'; \$ 9(2)(a) @toddenergy.co.nz'; 'dispatch@hnzglobal.com'; \$ 9(2)(a) @toddenergy.co.nz'; S 9(2)(a) @toddenergy.com'; S 9(2)(a)

Hi all

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Could you get back to me as soon as possible with your availability for the 24th (or alternative). We also need a host for a venue – any offers would be most welcome.

Look forward to hearing back from you.

Regards

s 9(2)(a)

Office Manager

MOBILE POSTAL WEBSITE s 9(2)(a)

O For 31175 Albany, NSMC 0752, New Zealand

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RELEASED UNWERRING ACT

Subject:

Catch up for coffee

Location:

Bolton

Start: End:

Wed 28/05/2014 9:00 a.m. Wed 28/05/2014 10:00 a.m.

Show Time As:

Tentative

Recurrence:

(none)

Organizer:

s 9(2)(a)

s 9(2)(a)s 9(2)(a) @tcil.co.nz> From: Sent: Thursday, 29 May 2014 10:44 a.m. To: **Bradley Ilg** RE: Catch up Subject: Good to see you mate - stay in touch Can you check with one of the team and see where the public information around upcoming work is please? Cheers s 9(2)(a) ----Original Message----From: Bradley Ilg [mailto:Brad.Ilg@mbie.govt.nz] Sent: Tuesday, 27 May 2014 8:36 a.m. s 9(2)(a) To: Subject: RE: Catch up Bolton's good See you at 9 mate ----Original Message---Sent: Tuesday, 27 May 2014-8:34 a.m. To: Bradley Ilg Subject: Re: Catch up Sounds good 9 m Bolton or another veni s 9(2)(a) Sent from my iPhone > On 27/05/2014, at 8:24 am, "Bradley Ilg" < Brad.llg@mbie.govt.nz> wrote: > How about Wed for a coffee mate? > -----Original Message----s 9(2)(a)@tcil.co.nz] > From: > Sent: Monday, 26 May 2014 7:19 p.m. > To: Bradley Ilg > Subject: Re: Catch up > How you looking tomorrow evening or do you want to do a coffee Wednesday?

> Sent from my iPhone

>			
>> On 25/05/2014, at 7:08 pm, "E	3radley Ilg" <brad.llg@mbie.g< th=""><td>ovt.nz> wrote:</td><td></td></brad.llg@mbie.g<>	ovt.nz> wrote:	
/>>			
>> Sure mate. Lets sort a plan ton	norrow.		
>>			
>> Cheers brad			
>>			
>>			
>>			
>> Sent from my iPhone			
>>			
>>> On 25/05/2014, at 6:32 pm,	s 9(2)(a)	@tcil.co.nz> wrote:	
>>>			
>>> Hi Brad I am in town Tuesday	late afternoon and wonder it	f you fancied a beer after work of	r a coffee on
Wednesday			2
· >>>			V (C
>>> Cheers			
>>>			· IDIC
>>>s 9(2)(a)		207	1/1/
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>>> Sent from my iPhone			
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>> http://newzealand.govt.nz/ - c	connecting you to New Zealar	nd central & local go le nment se	rvices
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>> Any opinions expressed in this	message are not necessarily	those of the Ministry of Business	s, Innovation and
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From:

s 9(2)(a) s 9(2)(a),tcil.co.nz>

Sent:

Wednesday, 4 June 2014 11:34 a.m.

To: Cc:

Andrew Annakin s 9(2)(a)

Subject:

FW: TOGS meeting - Tuesday 24 June 2014

Attachments:

SPE_2013-102.pdf; Taranaki Oil Gas Group - Agenda 24.06.14.pdf

Hi Andrew

Email sent out regarding the TOGS meeting on the 24th June below (for your information). Attached is a copy of the agenda.

Regards

s 9(2)(a)

Office Manager

MOBILE POSTAI WEBSITE 9(2)(a)

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From: \$9(2)(a)

Sent: Wednesday, # June 2014 11:13 a.m.

s 9(2)(a) @anadarko.com'; \$9(2)(a) @porttaranaki.co.nz'; \$9(2)(a) @porttaranaki.co.nz';

s 9(2)(a)@porttaranaki.co.nz'; s 9(2)(a)@porttaranaki.co.nz'; s 9(2)(a)@npdc.govt.nz'; s 9(2)(a) @police.govt s 9(2)(a) @omv.com'; s 9(2)(a) @toddenergy.co.nz'; s 9(2)(a)@hnzglobal.com'; s 9(2)(a)@hnzglobal.com'; @npdc.govt.nz'; \$ 9(2)(a) @police.govt.nz';

s 9(2)(a) \@tagoil.com'; s 9(2)(a) @originenergy.com.au'; s 9(2)(a) @stos.co.nz'; s 9(2)(a) @awexplore.com'; s 9(2)(a) @awexplore.com'; s 9(2)(a) @methanex.com'

Cc: \$9(2)(a) @police.govt.nz'; \$9(2)(a) @s9(2)(a) @tcil.co.nz) s 9(2)(a) s 9(2)(a) @tcil.co.nz); @tcil.co.nz);

Subject: TOGS meeting - Tuesday 24 June 2014

Hi all,

TOGS will be held on Tuesday 24 June at the Port of Taranaki admin building and two invites will be sent out to you for this quarterly TOGS meeting which will be between 1pm and 4pm

The first invite (1-2pm) is open to others within your organisations such as operations managers and will involve a unmanned aerial vehicle (UAV) demonstration. UAV's are being used overseas in the oil and gas industry as outlined in the attached Journal of Petroleum Technology. The proposed intention of the demonstration is to start discussion around how UAV's could be used in the New Zealand Oil and Gas industry and what rules and regulations should apply. The port has allowed for this demonstration to take place around its facilities and it will involve the use of

several aircraft attached with different types of cameras both standard and thermal. If interest is significant enough a second UAV demonstration can be arranged for the morning of the 24 June.

The second invite will be for the standard TOGS group and will follow the UAV demonstration. Our guest speaker will be Andrew Annakin Director Policy at New Zealand Petroleum and Minerals and he will discuss the noninterference laws and lessons learnt from this season.

The invites will be sent out under separate cover, if you could confirm who will be attending both invites please. The UAV demonstration may be postponed if the weather isn't suitable, you will be notified accordingly.

Regards

s 9(2)(a)

Office Manager

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Taranaki Oil & Gas Security Working Group

Tuesday 24 June 2014 1300 - 1630hrs (approx.)

Port Taranaki 2/8 Bayly Road New Plymouth

Agenda

* 1300 - 130	s 9(2)(a)	We some and housekeeping
1305-1400	s 9(2)(a)	Unmanned Aerial Vehicle Demonstration
• 1400-1410	\$ 9(2)(a)	Approval of minutes from last meeting
* 1410-1500	AII	current projects and any upcoming projects (5mins/company)
\$ 1500-1510	s 9(2)(a)	Any points of business
* 1510-1555	Andrew Annakin	Director Policy NZ Petroleum & Minerals
* 1555-1600	Ali	Any other business (including possibility of adding Maritime NZ . \$ 9(2)(a) s 9(2)(a) - to TOGS group).
1600-1610	s 9(2)(a)	Round up, actions and next meeting date

JOURNAL OF PETROLEUM TECHNOLOGY . www.spe.org/jpt

OCTOBER 2013

UAV Applications for Oil and Gas

FEATURES

Middle East Shale

Proppant and the Bottom Line

Gaps in Water Treatment Technology

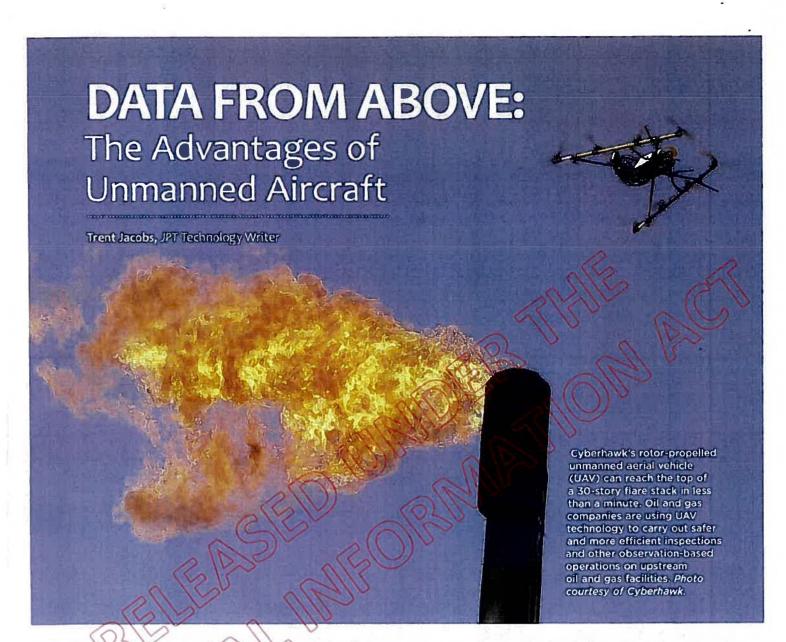
SPE International Award Winners

FIELD DEVELOPMENT
PROJECTS

TIGHT RESERVOIRS

DATA MANAGEMENT AND COMMUNICATION

SAND MANAGEMENT AND FRAC PACK



aking them fly was the easy part. Making them useful was the part challenge. And now unmanned aerial vehicles (UAVs) are being put to the test to determine where they are the most applicable to the oil and gas industry. Companies and university researchers developing these "flying computers" believe that their sector is ready to rapidly expand, because of recent technological advancements and legislation that will open up the unmanned skies in the industry's largest potential market by 2015: the United States.

UAVs are already being used by some oil and gas companies to inspect flare stacks and track migrating wildlife and ice floes in the Arctic. In the near future, UAVs will be used as important tools to respond to oil spills and pipeline monitoring, and in offshore installation and decommissioning operations.

A few years ago, the militaries of the world held a virtual monopoly on the application of UAV technology, and UAVs available to the private sector were little more than eyes in the sky with limited functionality. Today, commercial

UAVs are the benefactors of miniaturized electronics, partly thanks to the smartphone industry and advanced software programs specifically designed to make sense of the different types of data that can be gathered while flying. Equipped with lasers, high-definition cameras, thermal imaging systems that can "see" at night, and an array of other sensors, advocates of UAVs claim they are not simply cheaper alternatives to fixed-wing aircraft and helicopters, but in many ways are more capable and, without question, safer to operate

Last fall, BP completed an experimental flight in Prudhoe Bay, Alaska, using a quadrotor UAV developed by Canadian-based Aeryon Labs. Quadrotor UAVs, also called quadcopters, use four rotors to lift and move the aircraft and are known for their maneuverability. At the time, US authorities were only issuing flight certificates to determine the airworthiness of UAVs without allowing commercial operations. BP completed the test run to determine how Aeryon's UAV could inspect oilfield equipment and pipelines to assess maintenance needs.

The Aeryon Scout, a 3-lb backpack-sized UAV capable of carrying out 20-min reconnaissance flights, has been used on every continent, except Antarctica, and was used by Libyan rebels in support of their march on Tripoll in 2011. Aeryon said it makes flying UAVs as easy as possible by integrating airborne and satellite maps into the navigation system, which is installed on a touch-screen tablet. "We've built a system that flies itself and the operator just tells it where to go," Dave Kroetsch, cofounder and president of Aeryon, said. "Anyone can pilot it and it is very easy to use. Simply touch and guide."

An upgrade to the Scout, the SkyRanger, is twice as capable with a flight time of up to 50 min and comes equipped with a high-definition camera instead of a standard-definition camera. Electronics manufacturers have been able to shrink the size of critical components, including thermal sensors and imaging systems, thus giving UAV companies more flexibility. "Things are getting smaller, which is giving us the ability to fly longer," Kroetsch said, noting that, "while there is a lot of interesting experimentation going on, there are not big rollouts in [the oil and gas] industry quite yet."

Aerial Geologic Modeling

In July, researchers from the Virtual Outcrop Geology (VOG) group at the Centre for Integrated Petroleum Research (CIPR) in Norway used an experimental UAV to analyze the geometry of exposed sedimentary rock formations in Spain. The group's focus is the study of geologic outcrops address reservoir-related challenges. Geologists have long used outcrops as accessible and in-situ means of studying rock formations that have characteristics similar to a subsurface reservoir.

The research team piloted a small-sized UAV equipped with a digital camera just a few meters from the outcrops, taking thousands of images. After taking several short 10-min flights to cover as many angles as possible, the image data was used to generate a 3D model of each outcrop (Fig. 1).

"We're looking at geological features that might be the same as what is inside the reservoirs," said Simon Buckley, a senior CIPR researcher and project leader of the VOG group in Bergen, Norway. "This technology heips as to understand the configuration of different kinds of rock, the geological features within the rock, and how they would affect oil production in the reservoir."

production in the reservoir.

The VOG group has been using 3D laser scanning technology for nearly a decade to scan surfaces within a centimeter of accuracy. Helicopters outfitted with the same type of laser have been used before, but would have to fly above the outcrops at dangerously low altitudes to achieve the same resolution as the UAV can with the digital cameras. It addition, UAVs cost less than 3D laser technology and can obtain data in significantly less time.

Outcrop data may halp geologists and petroleum engineers fill it small gaps in subsurface geologic data by allowing the detailed study of features too small to be detacted by seismic technology. "Even if you have a layer for rock) I cm thick, it may have a significant effect on how fluid flows through it," Buckley said. Using enhancedinging UAV technology, geologists in the future may hold the potential to identify other issues and anomalies, "that you don't see in the selsmic data," he said.

The project is part of a study being funded by a consortium of 17 companies based in Norway, including oil and gas companies, to develop a database of outcrops



The Aeryon Scout takes off during a test flight over BP oil pipelines in Prudhoe Bay, Alaska. Weighing less than 3 lb (1.4 kg) and controlled by a touch-screen tablet, the unmanned aerial vehicle, is used for flare stack inspection, wildlife observation, and oil spill response operations. Photo courtesy of Aeryon.



An unmanned aerial vehicle piloted by researchers uses a digital camera to take detailed photos of an outcrop's rocky layers in Spain. The flight was part of a reservoir modeling database project aimed at learning more about the fluid dynamics of similar subsurface rock formations. Photo courtesy of Simon Buckley/Aleksandra Sima.

UNMANNED AERIAL VEHICLE TECHNOLOGY



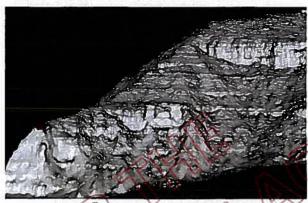


Fig. 1—Detailed image data collected by an unmanned aerial vehicle are stitched together to form a 3D point cloud, left, and a digital outcrop model, right. The models provide extremely accurate measures of the rock and teach geologists about the sedimentary rock architecture. Images courtesy of Simon Buckley/Aleksandra Sima

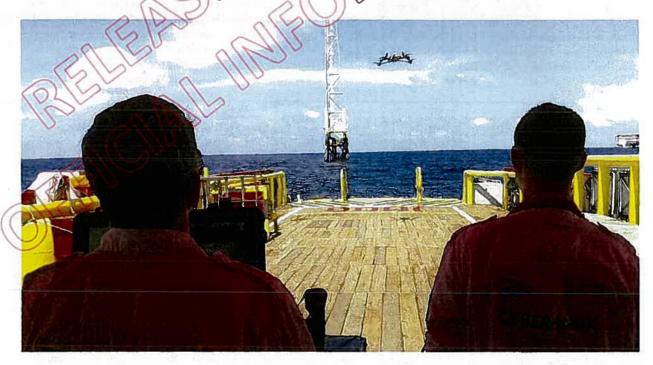
that can be studied by students and geologists.
With this type of data, geologists have the ability to build models to simulate an oil and gas reservoir for fluid flow analysis.

Making Inspections Safer

A main driver for the widespread use of UAVs is the health and safety benefits that they offer. Some in the burgeoning UAV industry liken their introduction to the oil and gas industry to the emergence of another robotic technology: remotely operated vehicles [ROVs]. "Initially, ROVs were seen as a bit gimmicky with limited use," Chris Fleming, cofounder and operations director of Cyberhawk, said, "but now they're used routinely all over the world."

The core pusiness of Cyberhawk, a UAV inspection

The Core business of Cyberhawk, a UAV inspection and surveying company based in the United Kingdom, is live flare inspection. It uses pairs of trained pilots and qualified inspectors to fly and interpret the images captured by its



Cyberhawk uses unmanned aerial vehicles to inspect flare stacks, derricks, and other offshore structures for oil companies. Its nimble UAV technology allows certified inspectors to closely examine hazardous areas of offshore platforms from the safety of the main deck. *Photo courtesy of Cyberhawk*.

38

UNMANNED AERIAL VEHICLE TECHNOLOGY



Among the problems that unmanned aerial vehicles can diagnose on a flare is low-gas velocity, which could cause the gas to burn too close to the flare tip, causing it to melt or deform. Photo courtesy of Cyberhawk.

rotor-propelled UAVs, each weighing less than 5-1b (2 kg). To company founders were working as oil and gas inspection engineers when they realized the potential of UAVs.

"We had the idea that we could use flying robots for inspection because, in some cases, we were asking people to be put in dangerous environments to basically tell usif something was there or it something was in reasonable condition," Fleming said. "In the past, you would have to shut down the flare to carry out the inspection, or in some cases in the United States, you have people in protective suits

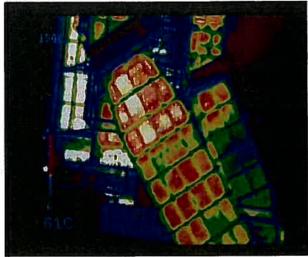
going up to inspect and carry out maintenance on a live flare at the risk of being burned."

After establishing Cyberhawk in 2008, the founders spent the first 2 years proving to themselves that the technology worked before approaching their old bosses in the oil and gas industry. It took the company another 2 years to build a track record of more than 150 successful onshore UAV operations for major oil and gas companies in the Middle East, southeast Asia, and Europe.

Last year, the company was awarded its first offshore contract to inspect a degrick on a crilling rig. Because the operation was completed without having to stop drilling operations, which is the normal procedure for a manual inspection, Cyberhawk says it saved the operator more than GBP 4.6 million (USD 7.2 million). In another offshare project, the company was called to assist Shell with decommissioning North Sea platform. In previous campaigns, Shell had tried erecting scaffolding beneath the platforms to inspect the integrity of the under deck, but frequent storms sent halfcompleted scaffold structures to the seafloor, causing significant setbacks. We were able to do the under-deck survey in 5 days versus a 2-month scaffolding campaign," Fleming said. "Using our inspection data, they were comfortable anough to say that the under deck was in good anough condition to hold together and the platform could be lifted off in one go."

Fleming expects to see more offshore companies use UAVs during key offshore events such as topside installations. Other developments, he predicts, will make it possible to fly tiny micro-UAVs capable of autonomous inspections inside bulk storage tanks to generate 3D images





UAVs can transmit live, high-definition video, left, and infrared video to inspectors on the ground, who can identify metallic components showing signs of thermal fatigue and locate sources of gas leaks at refineries and production platforms. Photos courtesy of Cyberhawk.



Aerovironment's, Puma AE is among the first commercial unmanned aerial vehicles to be licensed to fly in the United States. Launched from land or sea, the UAV's most critical components, including the battery and motor controller, can be replaced in minutes without the need for special tools. Photo courtesy of Aerovironment.

that would reveal critical defects if present a sometimes hazardous task for humans, because of chemical fumes that may be present.

Tight Restrictions in the US

UAV experts say a broad ban in the US on the commercial use of UAVs is holding back market growth. Countries such as Norway and Canada have been more relaxed in allowing routine commercial UAV flights, and still other countries have no restrictions on UAVs. The US government, meanwhile, has set a deadline of September 2015 for itself to establish the regulations that will govern the use of UAVs in its domestic airspace. When the rules are in place and the ban is lifted, the leading UAV industry group, the Association for Unmanned Vehicle Systems International, projects that the US market alone will generate more than USD 82 billion in revenue within a decade.

While those rules are being worked on, commercial licenses for UAVs are being issued on a case-by-case basis in the US for flights over Alaska, where oil companies are studying how to use the technology to facilitate safe exploration of the Arctic Ocean. ConocoPhillips, which was

granted one of two commercial licenses in July to operate UAVs over Alaska, said that it is working with US regulatory bodies to evaluate the safety of the technology and is in the final stages of determining how the company will use UAVs in its operations.

The only other company to receive approval for its commercial operations in Alaska is Aerovironment, the largest supplier of UAVs to the US military. The type of UAVs that the company makes are smaller and lighter weight and make up 85% of the US military's UAV inventory, but they only account for 3% of total defense dollars spent on the technology. Companies such as Aerovironment are eager to show regulators and the oil and gas industry the reliability and value of this new technology. "This is a very important step along that path and it is opening up a region that can be quite difficult to operate an aircraft in and is much less populated than other areas," Steve Gitlin, an Aerovironment spokesman, said.

The company will begin flying its UAV, known as a Puma AE, over the coast of the Beaufort Sea in the Arctic Circle this year in support of emergency response crews for oil spill monitoring and wildlife observation. The UAVs provide the

UNMANNED AERIAL VEHICLE TECHNOLOGY

ability to maintain constant surveillance on ice floes that may put offshore facilities and vessels at risk of collision if not spotted early and can detect the presence of whales. In case of an oil spill in the Arctic, UAVs will be among the first systems deployed to determine the extent and direction of the spill.

The Puma AE has a wingspan of 8 ft and is capable of staying airborne for more than 9 hr using new battery technology and flexible solar panels that wrap around the top of the wings. Weighing only 13 lb, the Puma AE can be assembled in minutes by snapping the pieces of the aircraft together and is waterproof, allowing it to touchdown safely on land or sea. "Unlike larger systems that require runways or machinery to launch and land, or large teams of people, our systems are portable," said Gitlin. "You just toss it into the air."

Depending on how each aircraft is equipped,
Aerovironment says a package of three UAVs, including
spare parts and a ground communication system, costbetween USD 100,000 and USD 200,000. This compares
with traditional fixed-wing aircraft and helicopters that
can cost up to USD 3,000/hr of flight time.

Software Integration

This summer, Portugal's military carried out a mission to prove how UAVs could quickly locate ail slicks and spills. It requested the halp of Raja Sengupta, a professor and leading researcher in wireless communications and inertial navigation for UAVs at the University of California at Berkeley.

To simulate the oil spill, the Portuguese nevy dropped 100 kg (220 lb) of popcorn in the Atlantic Ocean. "Then we had a UAV take off from a runway and we handed off control from one station to another station, because it flew about 40 to 50 km away." Sengupta said. "And then it went under the control of a ship that was near the popcorn. The UAV searched the area, found the

popcorn, imaged the popcorn, and told the ship where the popcorn was:

The naval vessel then sailed to the exact location of the popcorn and placed drifting devices in the water to track the popcorn and take water samples. The drifters beamed the data they were collecting up to the UAV, which then brought the data back to the air force base where it left from. Flying in a scanning pattern over 100 km² (62 sq miles) of open water, the UAV located the popcorn in less than 90 min and the operation from takeoff to landing lasted less than 3 hr. The operation showed how UAVs need to be integrated with different types of communications software onboard vessels, ground stations and satellites.

"All of these different information systems have to bridge with each other," Sengupta said To that end, he and other researchers are working to develop the software tools that will enable UAVs to be controlled by multiple types of computer pletforms. Additionally, artificial intelligence will help make UAVs safer to operate. Avoidance systems must be fully developed to ensure that UAVs steer clear of other aircraft to prevent midair collisions.

"We're certainly not going to make helicopter and arplane pilots responsible for avoiding UAVs," Sengupta said.
"The UAVs will have to avoid them."

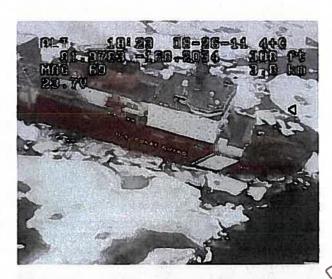
loing in the Arctic

Other technical hurdles for the UAV Industry remain. Among them is the phenomenon of icing that occurs in areas such as the Arctic, even if temperatures are a few degrees above reezing. When moisture-saturated air, or fog, evaporates off the wings of a UAV, it cools just enough to leave a small amount of ice on the aircraft's surface.

"It does not take very long to ice up a small unmanned aircraft so that it is no longer responsive to controls," said Philip McGillivary, science liaison for the US Coast Guard Pacific Area. "That's an issue that hasn't been resolved by anyone. So we're working to get that solved," he said.

McGillivary is advising in UAV studies at the

The Puma AE is equipped with an electrooptical and infared camera housed in a
mechanical gimbaled payload
system that lets the operator
maintain constant tracking
on a point of interest. Photo
courtesy of Aerovironment.



The use of an unmanned aerial vehicle (UAV) for ice monitoring provides vessels and offshore facilities with a live video and infrared analysis of the ice conditions around them. The photo above was taken by a UAV in summer 2011 of the US Coast Guard Cutter, Healy, a polar icebreaker used for scientific research. Photo courtesy of the US Coast Guard.

Norwegian University of Science and Technology, Norwey's main engineering university, in collaboration with Statoll, and is helping draft UAV flight protocols for the National Science Foundation.

The conventional de-icing chemicals used on manned aircraft do not apply to UAVs because of their small size. McGillivary says that new technologies such as carbon nanotube paint could be used to eliminate icing, because a small electrical charge flows through the paint to keep the wings warm. Other solutions for camera and sensor housings, which usually need to be transparent, could include using glass with nano-grooves too small to notice with the naked eye, but which are just the right size to prevent droplets from forming and turning into ice.

McGillivary, who lost a fellow researcher and friend after his plane crashed in the Arctic, understands the potential that UAVs hold as a lifesaving and enabling technology. "In the Arctic, manned flight is quite expensive and at times, quite dangerous," he said, pointing out that the nearest US Coast Guard rescue station is almost 1,000 miles away from where oil companies have said they plan to explore for dilland gas in the Arctic. "Of course, unmanned aircraft are not as risky because there's no human in there. If youlose one, you lose a piece of gear, not several people's lives," he said. JPT

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Wednesday, 11 June 2014 11:25 a.m.

To:

Kevin Rolens

Subject:

RE: Dinner next week?

All good see you then

s 9(2)(a)

Sent from my Sony Xperia™ Z2 smartphone

---- Kevin Rolens wrote ----

s 9(2)(a)

I'll be along at 12:15pm. Got a must do ending at noon.

Kevin

Kevin Rolens | Director Petroleum

New Zealand Petroleum & Minerals | Infrastructure and Resource Markets Ministry of Business, Innovation and Employment DDI +64 4 470 2521 Fax +64 4 471 0187 (\$9(2)(a)

PO Box 1473, 33 Bowen Street Wellington 5140

New Zealand

Email:kevin.rolens@med.govt.nz Website:www.nzpam.govt.nz

From: \$ 9(2)(a) \ @tcil.co.nz]

Sent: Fuesday, 10 June 2014 10:12 p.m. To: Kevin Rolens

Subject: Re. Dinner next week?

Yep see you then

s 9(2)(a)

Sent from my Sony XperiaTM Z2 smartphone

---- Kevin Rolens wrote ----

s 9(2)(a)

That is a plan. We are talking tomorrow Wednesday 12 noon?

Thanks

Kevin

Sent from my iPhone

On 10/06/2014, at 8:39 pm,

s 9(2)(a)

Ptcil.co.nz> wrote:

How about lunch mate 9(2)(a) is keen as well - how about the Crab Shack?

Let us know

s 9(2)(a)

Sent from my Sony Xperia[™] Z2 smartphone

---- Kevin Rolens wrote ----

Hi s 9(2)(a)

Could do coffee or lunch on Wednesday. Great to catch up before I blast of

Kevin

Sent from my iPhone

On 5/06/2014, at 10:14 am, 1

Hi mate I see you found that exit? I am in town next week rancy dinner on Tuesday night or a coffee on Wednesday

s 9(2)(a)

<image001.jpg

Box 301 3, Albany, NSMC 0752, New Zealand

www.ten.co.nz

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From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Wednesday, 11 June 2014 12:18 p.m.

To:

Bradley Ilq

Subject:

Re: Searcher Survey Contact?

Beers on -\$ 9(2)(a) will send you a time and venue

s 9(2)(a)

Sent from my Sony Xperia™ Z2 smartphone

---- Bradley Ilg wrote ----

Sounds good mate.

Sent from my iPhone

On 10/06/2014, at 8:41 pm, '

Hey mate early beer tomorrow - gots 9(2)(a) in town and

s 9(2)(a)

periaTM Z2 smartphon Sent from my Sony

B ad ey ilg wrote -

Hey mate. They keep peeling off like used plasters!

I'd start with \$9(2)(a) and go from there.

Might could do with a beer. Things are a bit dynamic at the mo so will commit later.

s 9(2)(a) From:

@tcil.co.nz]

Sent: Thursday, 5 June 2014 4:07 p.m.

To: Bradley Ilg

Subject: Searcher Survey Contact?

Hi mate see Kevin is moving on!

On a separate topic do you have any contacts in Searcher re their survey. I see quoted but not sure if he is the correct person to approach?

Cheers hope all is well and might be in town next Tuesday night if you fancy a beer – I have asked Kevin but not sure if he will be keen

Speak soon

s 9(2)(a)

/ MOBILE

PHONE

/ FAX

/ POSTAL / WEBSITE

s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand www.tcil.co.nz

<image001.jpg>

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From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Monday, 16 June 2014 9:08 a.m.

To:

Andrew Annakin; \$ 9(2)(a) police.govt.nz

Cc:

s 9(2)(a)

Subject:

RE: TOGS meeting - Tuesday 24 June 2014

Morning Andrew – just following up on this email I have copied [9(2)(a) in the police regional commander

I was thinking an informal chat about the non-interference law and how it came about and has been introduced would be fine, you have a 45 minute slot so not to long

Also you could talk about chairing the MEJIG / how often you meet / interest from Government – would all help the industry better understand what is done.

Hope this helps and do please come along to the UAV demonstration -5 9(2)(a) you might want to invite some extra police to see this technology as well

Speak soon

s 9(2)(a)

From: Andrew Annakin [mailto:andrew.annakin@mbie.govt.nz]

Sent: Monday, 9 June 2014 10:47 a.m.

To:s 9(2)(a)

Cc: 3 3(2)(a)

Subject: RE: TOGS meeting - Tuesday 24 June 2014

Hey \$ 9(2)(a)

Yes, got the email thanks.

I was just curious as to how you were wanting me to pitch up - presentation (slides), hand-outs, Q&A....

Cheers

Andrew Annakin | Director Policy

New Zealand Petroleum & Minerals | Ministry of Business, Innovation & Employment Phone: +64 901 1524 | Mobs 9(2)(a) | Email: andrew.annakin@mbie.govt.nz 33 Bowen Street | P O Box 1473 Wellington 6140 | www.nzpam.govt.nz



From s 9(2)(a)

[mailto:admin@tcil.co.nz]

Sent: Monday, 9 June 2014 8:22 a.m.

To: Andrew Annakin

Subject: FW: TOGS meeting - Tuesday 24 June 2014

Hi Andrew

I sent you this email last Wednesday, I'm not sure if you received it. Does this help regarding your request for more guidance?

Regards

s 9(2)(a)

Office Manager

/ MOBILE / POSTAL / WEBSITE s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand www.tcil.co.nz

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From: s 9(2)(a)

Sent: Wednesday, 4 June 2014 11:33 a.m.

To: andrew.annakin@mbie.govt.nz

Cc: @tcil.co.hz)
Subject: FW: OGS meeting - Tuesday 24 June 2014

Hi Andrew

Email sent out regarding the TOGS meeting on the 24th June below (for your information). Attached is a copy of the agenda.

Regards

Office Manager

/ MOBILE / POSTAL / WEBSITE s 9(2)(a)

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From: \$ 9(2)(a)

Sent: Wednesday, 4 June 2014 11:13 a.m.

To: \$ 9(2)(a) @anadarko.com'; \$ 9(2)(a) @porttaranaki.co.nz'; \$ 9(2)(a) @porttaranaki.co.nz'; \$ 9(2)(a) @porttaranaki.co.nz'; \$ 9(2)(a) @police.govt.nz'; \$ 9(2)(a) @pol

Subject: TOGS meeting - Tuesday 24 June 2014

Hi all,

TOGS will be held on Tuesday 24 June at the Port of Taranaki admin building and two invites will be sent out to you for this quarterly TOGS meeting which will be between 1pm and 4pm

The first invite (1-2pm) is open to others within your organisations such as operations managers and will involve a unmanned aerial vehicle (UAV) demonstration. UAV's are being used overseas in the oil and gas industry as outlined in the attached Journal of Petroleum Technology. The proposed intention of the demonstration is to start discussion around how UAV's could be used in the New Zealand Oil and Gas industry and what rules and regulations should apply. The port has allowed for this demonstration to take place around its facilities and it will involve the use of several aircraft attached with different types of cameras both standard and thermal. If interest is significant enough a second UAV demonstration can be arranged for the morning of the 24 June.

The second invite will be for the standard TOGS group and will follow the UAV demonstration. Our guest speaker will be Andrew Annakin Director Policy at New Zealand Petroleum and Minerals and he will discuss the non-interference laws and lessons learnt from this season.

The invites will be sent out under separate cover, if you could confirm who will be attending both invites please. The UAV demonstration may be postponed if the weather isn't suitable, you will be notified accordingly.

Regards

s 9(2)(a)

Office Manager

MOBILE POSTAL

\$ 9(2)(a)

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RELEASED UNIDER THE ACT

From:

s 9(2)(a) s 9(2)(a)atcil.co.nz>

Sent:

Monday, 23 June 2014 12:36 p.m.

To:

@clearviewwebdesign.co.nz

Cc:

s 9(2)(a) s 9(2)(a)

Subject:

RE: NZIPI contacts etc as requested

Thanks 5 9(2)(a) do you know if a hit counter has been setup for the NZIPI website?

Kind regards,

s 9(2)(a)

Information Technology Manger / MOBILE \$ 9(2)(a)

/ PHONE / POSTAL

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From:

@insolvency.govt.nz

Sent: Monday, 23 June 2014 11:27 a.m.

s 9(2)(a)

Cc @clearviewwebdesign.co.nz

Subject: FW: NZIPI contacts etc as requested

His 9(2)(a)

You could ask 5 9(2)(a) I think he used to have this

Sent from my iPhone. Copied to my email server. Regards,

Begin forwarded message:

From: Clear View NZ \$ 9(2)(a)@clearviewwebdesign.co.nz>

Date: 10 October 2013 11:36:09 am NZDT

To s 9(2)(a) @paragonnz.com>

Subject: Re: Pl

Reply-To: Clear View NZ - \$9(2)(a)@clearviewwebdesign.co.nz>

Hi \$ 9(2)(a)

Sure do:

Use this link and details below:

http://www.nzipi.org.nz/cms/login.php

Username: \$ 9(2)(b)
Password: (ii)

Cheers s 9(2)(a)

Regards

s 9(2)(a)

\$ 9(2)(a) | Agent for Official Assignee | Official Assignee Compliance Unit | Insolvency and Trustee Service | Ministry of Business, Innovation & Employment | Office; Level 18, 135 Albert Street, Auckland 1010, Toll free 0508 467 658 | DD \$ 9(2)(a) | Mobile \$ 9(2)(a) | Mail; Private Bag 6001, Napier 4142 | Fax +64 9 9164540 | www.insolvency.govt.nz

Please note my email address has changed to \$ 9(2)(a) @mbie.govt.nz

From: \$ 9(2)(a) [\$ 9(2)(a) Dtcil.co.nz]

Sent: Monday, 23 June 2014 11:12 a.m.

To: s 9(2)(a)

Subject: RE: NZIPI contacts etc as requested

H s 9(2)(a)

\$ 9(2)(a) has asked me to log into the NZIPI website using the CMS feature to retrieve some statistics about the website hit-rates.

I don't see any tools listed in the websites GMS to collect this information, do you know if one has been setup? If so, would you be able to provide the details?

Kind regards,

s 9(2)(a)

Information Technology Mange

MOBILE

\$ 9(2)(a)

POSTAL WEBSITE

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From: | \$ 9(2)(a)

Sent: Monday, 23 June 2014 11:02 a.m.

To: \$ 9(2)(a)

Subject: RE: NZIPI contacts etc as requested

Can you check with \$ 9(2)(a)please

Can you set up the counter if they don't but I believe they did and \$9(2)(a) got it set up

Cheers

s 9(2)(a)

Sent from my Sony Xperia™ Z2 smartphone

s 9(2)(a) wrote ----

HIS 9(2)(a)

I can't see a hit counter anywhere on their site. Did someone mention they had the service setup? If not, they may want to setup something like Google Analytics to track views

Thanks, s 9(2)(a)

From: s 9(2)(a)

Sent: Monday, 23 June 2014 10:34 a

To: s 9(2)(a)

Subject: FW: NZIPI contacts etc. as requested

Login

Sent from my Sony Xperia™ Z2 smartphone

---- Original Message ----

Subject: FW: NZIPI contacts etc as requested

Sent: 23/06/2014 9 16 am

From: (S 9(Z)(a) (arisq.co.nz>

To; \$ 9(2)(a) atcil.co.nz>

Cc:

s 9(2)(a)

I believe this is the info that you are looking for. See email below.

Regards,

s 9(2)(a) CPP



RISQ Group PO Box 302 200, North Harbour Mail Centre, Auckland 0751, New Zealand

M s 9(2)(a) E s 9(2)(a) www.rlsq.co.nz

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A Please consider the environment before printing this email

From: s 9(2)(a) @insolvency.govt.nz]

Sent: Wednesday, 14 May 2014 1:49 p.m.

Tos sizial Drisa.co.nz Cc: sizial @c4group.co.nz

Subject: NZIPI contacts etc as requested

Hi PDR and \$9(2)(a)

This is the link for the website to make changes,

http://www.nzlpi.org.nz/cms/login.php

Username: 9(2)(b)
Password: (ii)

Note: I have;

- Updated PDR's phone number
- Made the changes to Astute and made him active again.
- Changed the Secretary to \$9(2)(a)

Also is the contact you asked for some re the Authority. The Authority is \$ 9(2)(a) and I do think it appropriate you contact him direct by email, but his offsider is \$ 9(2)(a)

s 9(2)(a)@justice.govt.nz

s 9(2)(a) @justice.govt.nz



s 9(2)(a)

Case Manager | Tribunals Unit, Wellington DDI \$ 9(2)(a) Ext \$ 9(2)

www.justice.govt.nz

Regards

s 9(2)(a)

Please note my email address has changed to \$ 9(2)(a) @mble.govt.nz

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From:

s 9(2)(a) @tcil.co.nz>

s 9(2)(a)

Sent:

Monday, 6 October 2014 11:03 a.m.

To:

s 9(2)(a) @risq.co.nz

Subject:

D'Urville Solutions; \$ 9(2)(a)
RE: AGM and other things

Hi s 9(2)(a) I am away for the week but if you need to get any info out to the members our office manager can help in my absence

Unsure of the other stuff others on the email list should be able to assists

s 9(2)(a)

Sent from my Sony Xperia™ Z2 smartphone

---- D'Urville Solutions wrote ----

Good Morning,

The AGM is looming and as far as I am aware there has been no meeting/chat to discuss the Agenda. There was talk of having the meeting and then drinks on our boat afterwards—is this still required? Have any invites gone out to members? I recall seeing the draft invite from which looked great but have other members been made aware of this date? Is anyone keeping a record of who is coming?

I will need to notify Swashbucklers if we still want this room and if so how many for tea/coffee etc. Unless I have missed communications on this seems that little has been done.

Also I have received a number of requests for certificates for the 2014 membership – can you please tell me who normally does these? I can provide a list of paid up members to date. From recollection these have been handed out at the AGM if this is to be done on that day then we have a bit of work to do.

I look forward to some feedback/ response.

With kind regards,

s 9(2)(a)



M000 Private Bag 92185 Auckland | 142 New Zestand



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From:

s 9(2)(a) < \$9(2)(a) @tcil,co.nz>

Sent:

Monday, 20 October 2014 2:40 p.m.

To:

s 9(2)(a) s 9(2)(a)

Cc:

s 9(2)(a)

Subject:

FW: CMONI1401 - Notification of Approval Letter [IN-CONFIDENCE:RELEASE

@callaghaninnovation.govt.nz

EXTERNAL

Attachments:

20141020143501171.pdf

Hi s 9(2)(a)

Attached is signed contract.

Kind regards

s 9(2)(a)

Office Manager

MOBILE POSTAL WEBSITE s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zealand

THOMPSON+CLARK

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From:

\$ 9(2)(a)

@mbie.govt.nz]

Sent: Thursday, 9 October 2014 4:40 p.m.

To:S 9(Z)(3

Subject: CMONI1401 - Notification of Approval Letter (IN-CONFIDENCE: RELEASE EXTERNAL)

s 9(2)(a)

Please see attached your approval letter. Please sign and return to the Wellington office as soon as you can. We are able to accept this document in a scanned format.

Kind Regards

s 9(2)(a)

Investment Coordinator

Grants and Investment Administration and Management

Science, Skills and Innovation Group

Ministry of Business, Innovation & Employment

Lvl 7, 15 Stout Street, PO Box 1473, Wellington 6410

DDI: s 9(2)(a) s 9(2)(a) mbie.govt.nz www.mbie.govt.nz

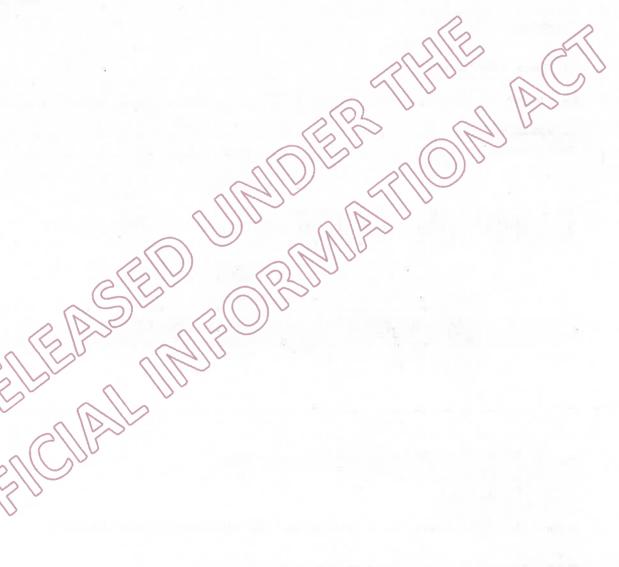
33 Bowen Street, PO Box 5488, Wellington 6145











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RELEASED UNDERNATION ACT

RELEASED UNDERRAATION ACT

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Friday, 30 January 2015 12:05 p.m.

To:

Andrew Johns:

@ird.govt.nz; 5 9(2)(a)@comcom.govt.nz;

s 9(2)(a) ____@mbie.govt.nz

s 9(2)(a)

Cc: Subject:

Update re investigation

Attachments:

3265 20150107 Supplementary Report.pdf

Hi ^{\$9(2)(a)} and team,

Please find attached an update on our findings from our continued investigation in December 2014 prior to the meeting in Wellington on the 16th.

The main thrust of our findings is that all of these stores have changed their identities since the first phase. investigation in November 2014 and one of these stores may be breaching GST legislation.

Kind Regards S 9(2)(a)

s 9(2)(a)

MOBILE PHONE FAX

POSTAL

s 9(2)(a)

PO Box 301775, Albany, NSMC 0752, New Zeola

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From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Tuesday, 4 November 2014 3:16 a.m.

To:

GETS No Reply

Subject:

Automatic reply: Tender Subscription

I am currently on school camp on Kawau Island with limited coverage

I will be checking emails when I can and do have my cell phone where coverage permits - however best to txt me if urgent s 9(2)(a)

If you need immediate support please contact \$ 9(2)

s 9(2)(a)
Phone^{s 9(2)(a)}

Email \$ 9(2)(a)@tcil.co.nz

Thanks

s 9(2)(a)

From:

s 9(2)(a)

@tcil.co.nz>

Sent:

Wednesday, 5 November 2014 3:14 a.m.

To:

GETS No Reply

Subject:

Automatic reply: Tender Subscription

I am currently on school camp on Kawau Island with limited coverage

I will be checking emails when I can and do have my cell phone where coverage permits - however best to txt me if urgent 9(2)(a)

If you need immediate support please contact \$ 9(2)(a)

Phone \$ 9(2)(a)

Email s 9(2)(a) @tcil.co.nz

Thanks

s 9(2)(a)

From:

s 9(2)(a)

Dtcil.co.nz>

Sent:

Friday, 14 November 2014 11:15 a.m.

To:

s 9(2)(a)

Subject:

RE: Survey Map [UNCLASSIFIED]

Thanks aload and understood

Have a great weekend

s 9(2)(a)

Sent from my Sony XperiaTM Z2 smartphone

---- s 9(2)(a) wrote ----

Morning^s 9(2)(a)

Please find the latest map, which details all the information you need. This is still confidential so would appreciate it if you restricted its use.

Thanks

s 9(2)(a)

s 9(2)(a)

EXPLORATION GEOLOGIST

New Zealand Petroleum & Minerals

Ministry of Business, Innovation & Employment

s 9(2)(a) @mbie.govt.nz | Telephone:

15 Stout St, PO Box 1473, Wellington 6140. www.nzpam.govt.hz

s 9(2)(a) Mobile: s 9(2)(a)





From:

s 9(2)(a)

@tcil.co.nz]

Sent: Thursday, 13 November 2014 3:36 p.m.

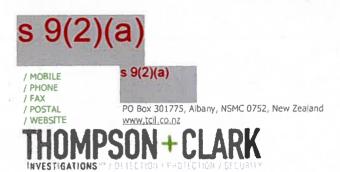
To: s 9(2)(a)

Subject: Survey Map

Hi hope all is well – hey could you please flick me that survey map you had at the MEJIG meeting the other day

I am trying to get a presentation together to help show where and what is taking place this season and it would be very handy

Thanks



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From:

s 9(2)(a) @tcil.co.nz>

Sent:

Thursday, 20 November 2014 2:15 p.m.

To:

s 9(2)(a) s 9(2)(a)

Cc:

s 9(2)(a)

Subject:

Re: CMONI1401

Attachments:

Cyclops Monitoring Limited (updated).pdf; Shareholder Funding Agreement

(updated).pdf

Dear s 9(2)(a)

One of the entities named on the agreement wasn't quite right. We have update GCK Trustees Limited to GCK Trustees (2011) limited. This is the only change. Please find updated documents for your records.

Kind Regards

s 9(2)(a)

From: s 9(2)(a)

Sent: Wednesday, 12 November 2014 2:09 p.m.

@mbie.govt.nz;

Subject: Re: CMONI1401

Dear \$ 9(2)(a)

Thank you for the delay, allowed as to get everything reviewed and documented by our lawyer.

Please find attached the signed funding agreement between Callaghan and Cyclops. Question is do we need to re-date again, given I have only attached the funding agreement signed today?

As noted above attached is the shareholder funding agreement dated the 12th November, and the documents supporting the issue of ordinary shares into Cyclops Monitoring Ltd as requested by special condition with due date the 28/11/2014.

We are also presently negotiating favourable payment terms with our contractors \$ 9(2)(b)(ii) certain % of payment on delivery which we believe will help us will ensure the project advances quickly according to plan.

If you have any questions or concerns, please contact myself for \$9(2)(a)

Kind Regards

s 9(2)(a)

Finance Manager

/ MOBILE PHONE POSTAL

PO Box 301775, Albany, NSMC 0752, New Zealand

www.cyclopsmonitoring.com

WEBSITE

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From: \$ 9(2)(a)

Sent: Thursday, 30 October 2014 1:13 p.m.

To: s 9(2)(a) @mbie.govt.nz; s 9(2)(a)

cc: s 9(2)(a)

Subject: CMONI1401

Dear s 9(2)(a)

I am the Finance Manager for Cyclops Monitoring Ltd. I realise that we have yet to send you the signed funding agreement for the TASE project, and also due on Friday is the signed and dated copy of agreement with the shareholders to ensure their is sufficient funding to complete the project.

I am requesting an extension of timeframe to the 12th November to get these to you please. There is no issue other than Cyclops Monitoring Limited as you know is part of the TCIL group of companies I am just finalising their intercompany etc within the group to tidy them up and makes logical sense that I do this before we starting sending you documents.

Look forward to hearing from you

s 9(2)(a)

Finance Manager s 9(2)(a)

From:

s 9(2)(a) @tcil.co.nz>

Sent:

Wednesday, 3 December 2014 4:36 p.m.

s 9(2)(a)

To:

s 9(2)(a)

Cc: Subject:

Re: CMONI1401 [IN-CONFIDENCE:RELEASE EXTERNAL]

Dear s 9(2)(a)

Sorry for the delay in getting back you. The work to conduct the Push project for Cyclops has stated, the team have worked through different approaches to the technical challenge and settled on an approach which will meet the business requirements. The work while not any large in quantum has taken longer to coordinate that originally planned. The current target date for a demonstrable Push is now February 24th 2015.

Could I please request a change in funding agreement dates to accommodate this.

Kind Regards

s 9(2)(a)

From:

s 9(2)(a) @mbie.govt.nz

Sent: Tuesday, 25 November 2014 2:46 p.m.

To: Accounts

Subject: RE: CMONI1401 [IN-CONFIDENCE: RELEASE EXTERNAL]

Hi

Are you still keeping the original dates of your funding agreement

Start date of 20/10/2014 End date of 19/11/2015

If dates are staying the same, I shall have countersigned and emailed back to you

Thanks

s 9(2)(a)

From: \$9(2)(a) @tcil.co.nz]
Sent: Wednesday, 12 November 2014 2:10 p.m.

To: \$ 9(2)(a) \$ 9(2)(a) Cc: \$ 9(2)(a)

Subject: Re: CMONI1401

Dear \$ 9(2)(a)

Thank you for the delay, allowed us to get everything reviewed and documented by our lawyer.

Please find attached the signed funding agreement between Callaghan and Cyclops. Question is do we need to re-date again, given I have only attached the funding agreement signed today?

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If you have any questions or concerns, please contact myself for \$9(2)(a)

Kind Regards s 9(2)(a)

Finance Manager

/ MOBILE / PHONE

/ POSTAL / WEBSITE PO Box 301775, Albany, NSMC 0752, New Zealand

www.cvclopsmonitoring.com

×

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From: \$ 9(2)(a)

Sent: Thursday, 30 October 2014 1:13 p.m.

To: s 9(2)(a) emble govt.nz;

Ccs

Subject: CMONI1401

s 9(2)(a) Dear

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I am requesting an extension of timeframe to the 12th November to get these to you please. There is no issue other than Cyclops Monitoring Limited as you know is part of the TCIL group of companies I am just finalising their intercompany etc within the group to tidy them up and makes logical sense that I do this before we starting sending you documents.

Look forward to hearing from you

Finance Manager s 9(2)(a)

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From:

s 9(2)(a) @tcil.co.nz>

Sent:

Thursday, 4 December 2014 5:30 p.m. @ird.govt.nz;\$ 9(2)(a)@comcom.govt.nz

To:

s 9(2)(a) Andrew Johns

Cc:

s 9(2)(a)

Subject:

Investigation report regarding \$ 9(2)(b)(ii)

Attachments:

3265 20141204 Report.pdf; 3265 20140815 ANZS Audit form APP 1.pdf; 3265-Operation_CANNONBALL_-_Surv_&_Visit_Summary APP 2.pdf; 3265-

Operation_CANNONBALL_-_Points_to_Prove APP 3.pdf; Op CANNONBALL assoc &

planning V2 pdf

Dear Andrew, \$ 9(2)(a) and \$ 9(2)(a)

appendices which resulted from our investigation into the section of sections in section in sections in section in sec

Kind Regards S 9(2)(a)

s 9(2)(a)

/ MOBILE

s 9(2)(a)

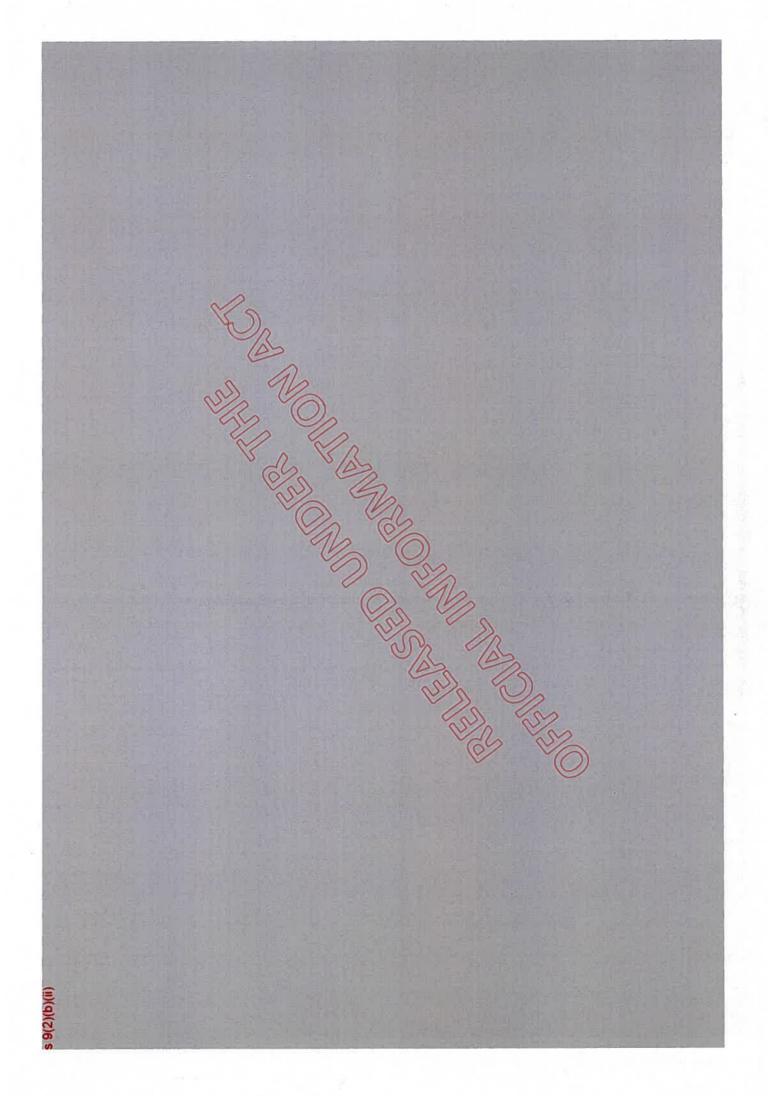
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THE REAL PROPERTY OF THE PARTY 9(2)(p)(ii)

s 9(2)(b)(ii) RELEASED UNIDER THE ACT

s 9(2)(b)(ii) RELEASED UNDERRABITION ACT

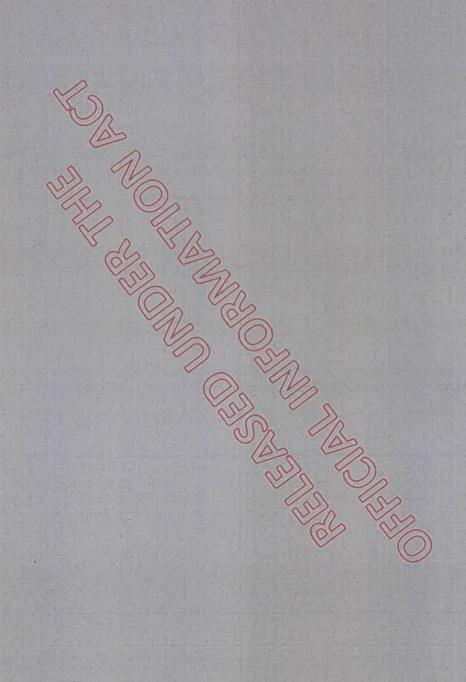
s 9(2)(b)(ii) RELEASED UNDERNATION ACT

s 9(2)(b)(ii) RELEASED UNIDER ATION ACTIONS OF THE OF THE

s 9(2)(b)(ii) RELEASED UNIDER ATHORISM ACT

s 9(2)(b)(ii) RELEASED UNDERNASTION ACT

s 9(2)(b)(ii) RELEASED UNIDER ATION ACT



THE CHILD CHANGE OF THE CHANGE 9(2)(p)(ii)

From: Sent:

s 9(2)(a)@tcil.co.nz> Monday, 2 February 2015 3:09 p.m.

To:

s 9(2)(a)

Subject:

FW: Update re investigation

Attachments:

3265 20150107 Supplementary Report.pdf

His 9(2)(a)

Please see attached, original had an incorrect email for you.

Regards **S** 9(2)(a)

From: s 9(2)(a)

Sent: Friday, 30 January 2015 12:05 p.m.

To: 'Andrew.Johns@mbie.govt.nz';

s 9(2)(a)

@ird.govt.nz';

s 9(2)(a) @mbie.govt.nz

s 9(2)(a)

Subject: Update re investigation

Hi 9(2)(a) and team,

Please find attached an update on our findings from our continued investigation in December 2014 prior to the meeting in Wellington on the 16th.

The main thrust of our findings is that all of these stores have changed their identities since the first phase of our investigation in November 2014 and one of these stores may be breaching GST legislation.

Kind Regards \$ 9(2)(a

s 9(2)(a) / MOBILE

/ PHONE / POSTAL

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INVESTIGATIONS LTD / DETECTION / PROTECTION / SECURITY

7 Jan 15

s 9(2)(a) s 9(2)(b)(ii)

P O Box 106-172 Auckland

Dear\$ 9(2)(a)

Re s 9(2)(b)(ii)

Supplementary Report

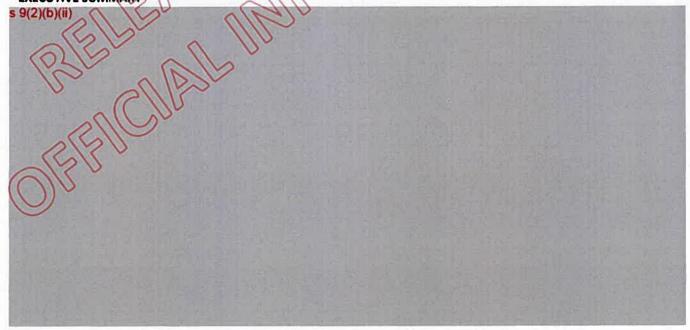
INTRODUCTION

Further to our report dated 4 December 2014 outlining our investigation to date we submit this supplementary report which covers further visits to \$9(2)(b)(ii) onducted on the 10 December 2014.

These stores re visited on 10 Dec 2014 were:

- s 9(2)(b)(ii)

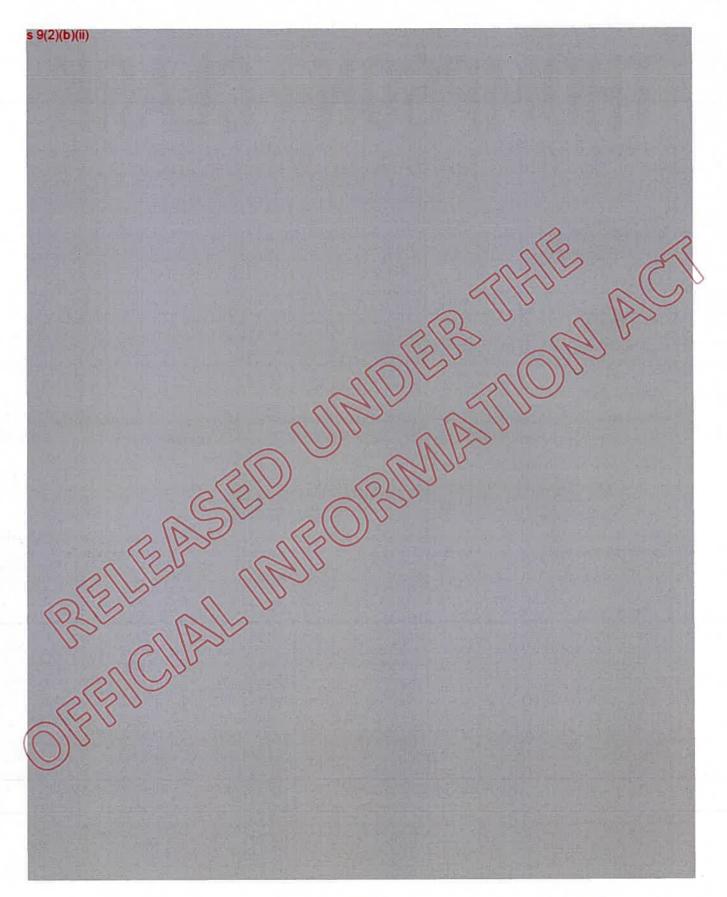
EXECUTIVE SUMMARY



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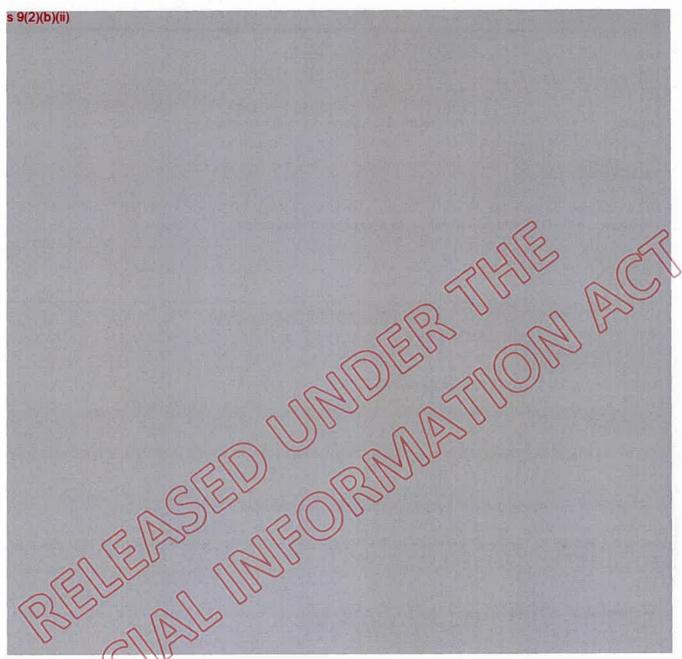
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CONTROL TOTAL

WARRENGE CONTROL CONT



CONCLUSION

It would appear that \$9(2)(b)(ii) are still operating and change and one has removed all company signage altogether.

Our findings raise some concern around one store \$9(2)(b)(ii) who supplied a hand written receipt do not appear to be accurately recording GST.

Yours faithfully



3

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STEEL ST

From:

s 9(2)(a) @tcil.co.nz>

Sent:

Wednesday, 21 January 2015 2:51 p.m.

To:

Kirsten Marshall

Cc:

s 9(2)(a) @cyclopsmonitoring.com;

s 9(2)(a)

Subject:

Fw: CMONI1401 - Signed Funding Agreement

Dear s 9(2)(a)

I have uploaded the invoice to the portal (following instructions) today, as I have just returned from holiday. Can you please advise if I have made the 29th of January payment date please.

Many thanks

s 9(2)(a)

From:

s 9(2)(a)

Sent: Wednesday, 14 January 2015 9:20 a.m.

Subject: CMONI1401 - Signed Funding Agreement

His 9(2)(a)

Please find attached fully signed funding agreement. The portal has been updated to show your agreement as being active.

I also attach a copy of user guide on submitting your claim to Callaghan

Below are payment run dates should you wish to put in your client report by end of January. There will be an updated payment run list sent out in the new year

Client reports to be submitted by

Process date (Overnight)

Monday, 19 January 2015

Thursday, 29 January 2015

Many thanks

s 9(2)(a)

s 9(2)(a)Marshall

Investment Coordinator - Investment Support Services Team

CallaghanInnovation

DDI: \$ 9(2)(a)

Email: \$ 9(2)(a) @callaghaninnovation.govt.nz

Physical: Level 14, Asteron House, 55, Featherston Street, Wellington, 6011

Postal: PO Box 11529, Manners Street, Wellington

Contact Investment Support Services Team

Email: Investmentsupport@callaghaninnovation.govt.nz

Freephone: 0800 477 8326 (ISSTEAM)

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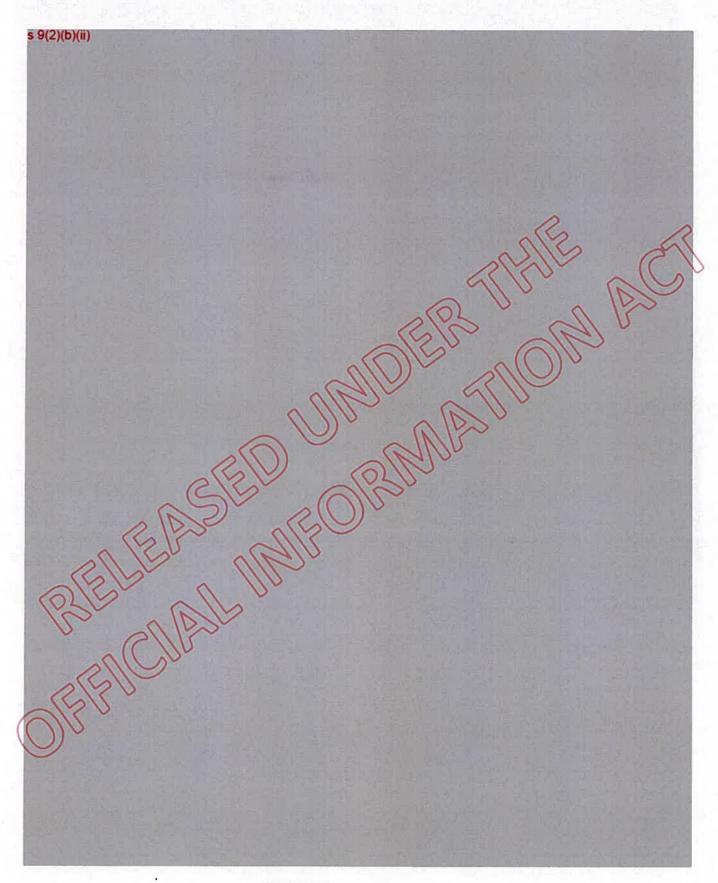
INVESTIGATIONS " / DETECTION / PROTECTION / SECURITY

4 Dec 14 s 9(2)(a)P O Box 106-172 **Auckland** Dear \$ 9(2)(a) Re: Operation Cannonball - Souvenir Shop (Monkey Shop) investigation INTRODUCTION During August and September 2014 Thompson & Clark (T&C) were engaged by o undertake an investigation into \$ 9(2)(b)(ii) in New Zealand with key deliverables being in order to establish whether \$ 9(2)(b)(ii) s 9(2)(b)(ii) s 9(2)(b)(ii)

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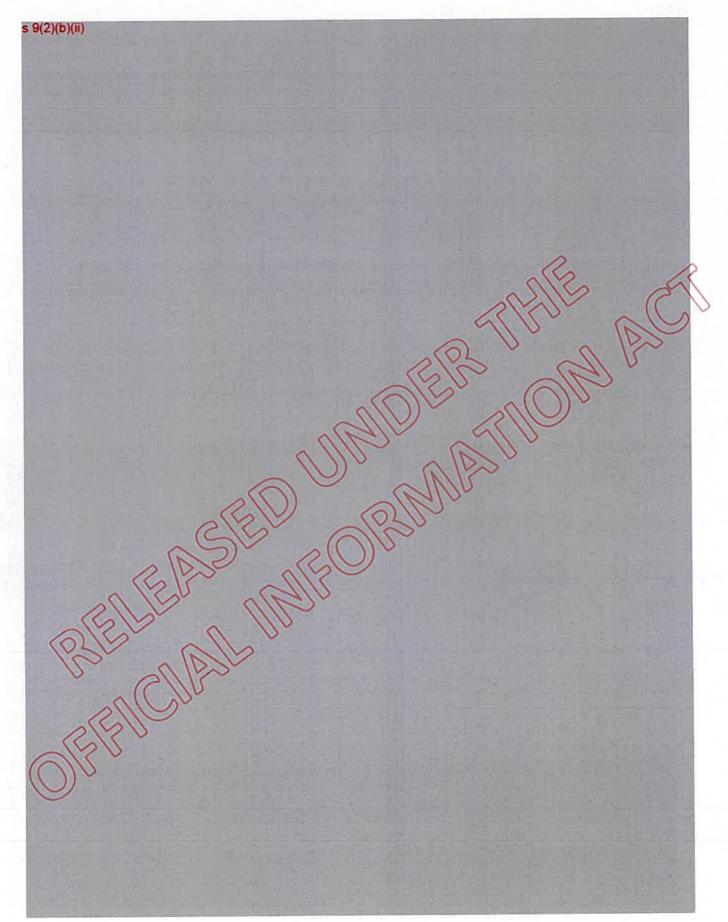
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ASSOCIATION CHART (refer to appendix 4)

An association and planning chart has been started which outlines the enquiry and how premises and people are linked, this is unfinished and requires further development.

OTHER ENTITIES

Other entities such as \$\frac{\$ 9(2)(b)(ii)}{and \$\frac{\$ 9(2)(b)(ii)}{good base only had a cursory look and appear to be legitimate companies, further investigation is required on these premises to establish their full involvement in the \$\frac{\$ 9(2)(b)(ii)}{good base only had a cursory look and appear to be legitimate companies, further investigation is required on these premises to establish their full involvement in the \$\frac{\$ 9(2)(b)(ii)}{good base only had a cursory look and appear to be legitimate companies, further investigation is required on these premises to establish their full involvement in the \$\frac{\$ 9(2)(b)(ii)}{good base only had a cursory look and appear to be legitimate companies, further investigation is required on these premises to establish their full involvement in the \$\frac{\$ 9(2)(b)(ii)}{good base only had a cursory look and appear to be legitimate companies.

SUMMARY

In summary we are able to establish that there are inconsistencies around some of the 9(2)(b)(ii) but believe that further investigation into these 9(2) s required.

We also believe that investigation around \$9(2)(b)(ii) and \$9(2)(b)(ii) may reveal whether these \$9(2)(b) to the \$9(2)(b)(ii) are in fact \$9(2)(b)(ii)

Yours faithfully

s 9(2)(a)

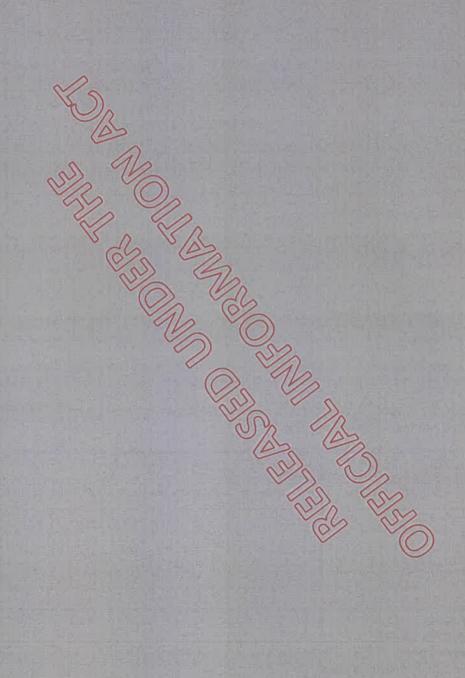
APPENDICIES

- 1. Audit Sheet
- 2. s 9(2)(b)(ii);ummary
- 3. Points to prove
- 4. Association and planning chart

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