

CORRESPONDENCE FOLLOWING CIBP SET @ 3260 WITH SUBSEQUENT  
PRESSURE OBSERVED ON CASING - APPROVED CHANGES TO

**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]

P&A PROCEDURES.

**Sent:** Monday, June 21, 2010 8:58 AM

**To:** Guldán, Ryan W.

**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle

**Subject:** RE: Knight 12-5 CBL

D.A.



Ryan,

Excellent! Please proceed with your final P&A top plug. Considering that I was involved with the entire P&A history on this well, please submit your Form 6 (Subsequent Report of Abandonment) directly to my attention for processing. Do not send a copy to our Denver office.

Thanks,

**David D. Andrews, P.E., P.G.**

Engineering Supervisor - Western Colorado

**State of Colorado**

**Oil and Gas Conservation Commission**

707 Wapiti Court, Suite 204

Rifle, Colorado 81650

Office Phone: (970) 625-2497 Ext. 1

Cell Phone: (970) 456-5262

Fax: (970) 625-5682

E-mail: [David.Andrews@state.co.us](mailto:David.Andrews@state.co.us)

Website: <http://www.colorado.gov/cogcc>

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]

**Sent:** Monday, June 21, 2010 7:17 AM

**To:** Andrews, David

**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle

**Subject:** RE: Knight 12-5 CBL

David,

The 7 day build up that was conducted on the Knight 12-5 resulted in the following:

0 psi on surface casing

0 psi on production casing

We have cement across all the perforations in the production casing. We would like to proceed with completing this P&A by setting 50' surface cement plugs.

Please let us know if this is acceptable.

Thanks!

Ryan W Guldán

Production Engineer - South Piceance

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Thursday, June 10, 2010 8:02 AM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for the update, and I look forward to seeing your 7-day buildup pressure.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Wednesday, June 09, 2010 4:06 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

We wanted to give you an update on the Knight 12-5. We squeezed cement into our perfs at 586' and verified cement in the production csg at 368' with a slickline tag. Currently there is 0 psi on the production csg and 2 psi on the bradenhead. We are going to leave this well shut in for a 7 day buildup and notify you of where the pressures stand. Please let me know if you have any concerns/questions.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Saturday, May 15, 2010 8:41 AM  
**To:** Guldán, Ryan W.

**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for the update and please proceed with your next squeeze attempt at 586'.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Friday, May 14, 2010 10:28 AM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

We wanted to update you on the status of the Knight 12-5.

We pumped the 100 sxs of cement in our perfs @ 1,200'. The squeeze effectively sealed off our perfs and the production csg remains 0 psi. However, the Bradenhead continues to build and hold at 24 psi.

We would like to suggest the following plan to remediate the Bradenhead pressure. We want to slickline our csg and tag the cement that we pumped previously and then perf at 586'. Here we will squeeze once again with 50-100 sxs of cement and see if we are effective in reducing the Bradenhead pressure.

Please let us know if this proposal is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Wednesday, April 14, 2010 3:33 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

It sounds like we are in good shape now. Please proceed with the squeeze into the perfs. For the final P&A, cement plugs will also be required in the production casing from 500' to 400' and 50' to surface. In addition to the Form 6 (Subsequent Report of Abandonment) and cement tickets, due within 30 days of the P&A, submit a Form 4 (Sundry Notice) with details of the pressure monitoring and venting progress since the original P&A attempt. Please submit these forms and supporting data directly to my attention at the Rifle office. Do not send copies to our Denver office.

Thanks,

**David D. Andrews, P.E., P.G.**  
Engineering Supervisor - Western Colorado

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E-mail: [David.Andrews@state.co.us](mailto:David.Andrews@state.co.us)  
Website: <http://www.colorado.gov/cogcc>

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Wednesday, April 14, 2010 2:53 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

Update on the Knight 12-5 bradenhead. Well was shut in and left to build up for 7 days as you requested. Pressure on bradenhead was 14 psi and production csg was 164 psi. We would still like to attempt a squeeze through the perforations at 1,200'. Please let us know how you would like us to proceed.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Monday, April 05, 2010 3:00 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Thanks, Ryan. Please proceed.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Monday, April 05, 2010 2:52 PM  
**To:** Guldán, Ryan W.; Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

Just talked to Kirby and we will shut in the 12-5 for 7 days (both production and Bradenhead will be closed). Kirby will be able to give us an update Tuesday the 13th and let us know what the pressures built to over the 7 day period.

Thanks!

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**From:** Guldán, Ryan W.  
**Sent:** Thursday, April 01, 2010 2:37 PM  
**To:** 'Andrews, David'  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

Another update on the current status of the Knight 12-5 bradenhead issue. The bradenhead builds to 15 psi when shut in. I would like to propose to you our forward plan with your approval. We would like to attempt to squeeze with 50 sks of G through the perforations at 1,200'. After the cement sets we will monitor the pressure and notify you if the squeeze was effective. Please let me know if this plan is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Monday, March 15, 2010 3:23 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Your plan is acceptable. Please proceed.

Thanks,

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Monday, March 15, 2010 2:22 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

Once again we would like to give you an update on the status of the Knight 12-5. The perforations were made at 1,200' in the production casing and the well had been venting through the production casing. The well is currently shut in and yesterday the pressures read 80 psi on the production csg and 20 psi on the bradenhead. We would like to continue venting this well at this time. In the next week we would like to shut the well in for an extended buildup (~7 days) and see what the pressures level off to. Please let me know if this plan is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Wednesday, February 24, 2010 11:25 AM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks, and please proceed.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Wednesday, February 24, 2010 10:22 AM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

We have discussed the Knight 12-5 and have come up with a proposal of where we would like to perforate to mitigate the Bradenhead issue. We would like to perforate at 1,200' and vent the Bradenhead through the production casing. As always, we will continue to monitor the pressure and keep you informed along the way. Please let me know if this is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Wednesday, February 17, 2010 1:56 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

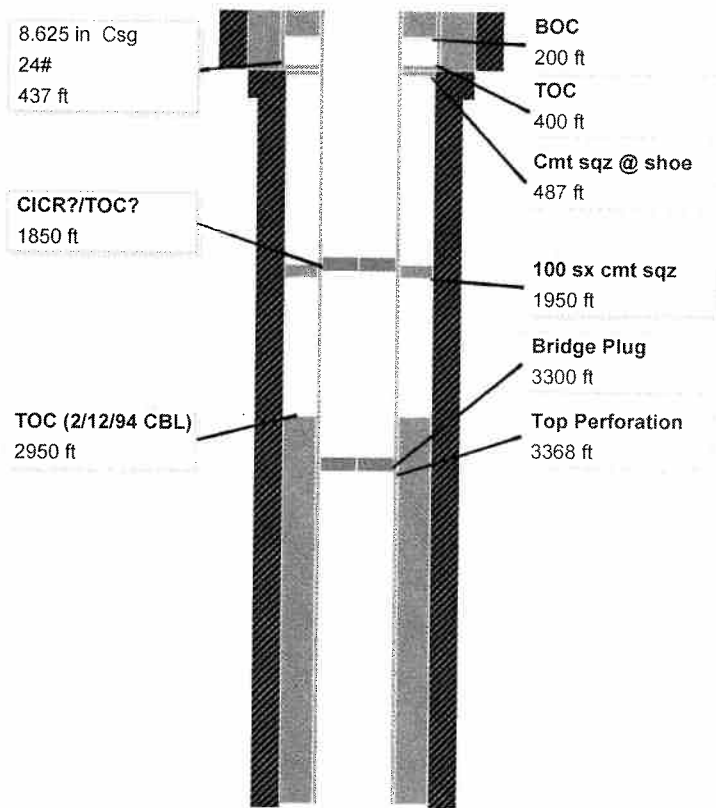
The attached file summarizes my current understanding of the wellbore configuration. I discussed this well with Dave Dillon again. We are still concerned about possibly compromising surface casing integrity if EnCana perforates the production casing at 400'. With cement above and below 400' in the surface casing-production casing annulus, it may be difficult to squeeze off holes at 400' when final plugs are

ATTACHMENT TO 2/17/2010 EMAIL

Knight 12-5

05-045-06832

Bradenhead is venting. Likely Wasatch gas. First attempt to squeeze off gas was 100 sx cmt at 1950'. This attempt was either unsuccessful, or source of gas is above 1950'. Gas possibly migrating through channels or around cement squeeze from 487' to 400' with surface casing shoe at 437'. Cement is also present in surface casing-production casing annulus from 200' to surface.



Wellbore detail not shown below a depth of 3368' (top perforation)



set. At best, we may only be able to pump cement in the production casing across the holes. If the source of the gas is not completely shut off, this may force gas out of the surface casing after the well is plugged.

We understand that EnCana would like to expedite the bleed off and final P&A of this well. We would prefer to see production casing perforations somewhere between 1950' and 487'. Following the bleed off, EnCana could then perforate additional holes in this interval and attempt a suicide squeeze between the two sets of perforations. Cement plugs would also be required in the production casing from 500' to 400' and 50' to surface.

Please discuss this with your staff, and let me know how you would like to proceed.

Thanks,

**David D. Andrews, P.E., P.G.**  
Engineering Supervisor - Western Colorado

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**Oil and Gas Conservation Commission**  
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E-mail: [David.Andrews@state.co.us](mailto:David.Andrews@state.co.us)  
Website: <http://www.colorado.gov/cogcc>

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Tuesday, February 09, 2010 3:59 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

I wanted to update you once again on the status of the Knight 12-5. The bradenhead continues to be a problem. On Monday morning it was 80 psi. We believe that this problem is not getting any better with time and would like to propose to you a new plan of action.

I have attached the last CBL we ran on this well for your reference. As you will notice from the CBL there is cement from 150' to surface. We believe this is inhibiting our ability to vent the bradenhead pressure. We would like to perforate at 400' in attempt to vent the bradenhead pressure more effectively through production casing. We feel this is a good depth to perforate since there is no cement behind pipe, there is a good bond at our original squeeze (487', squeeze held at 2000 psi) and these perms will eventually be covered with a cement plug as outlined on our approved P&A procedure.

Please let me know if this proposal is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Monday, February 01, 2010 4:09 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Your proposal is acceptable. Please proceed.

Thanks,

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Monday, February 01, 2010 4:08 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Spector, DeAnne M.; Pfister, Miracle  
**Subject:** RE: Knight 12-5 CBL

David,

As stated in my previous email we would update you today on the status of the Knight 12-5 bradenhead.

1/27/2010 pressure was 30 psi  
1/28/2010 pressure was 45 psi  
1/29/2010 pressure was 25 psi  
2/1/2010 pressure was 50 psi after being shut in over the weekend

The pressure continues to bleed off immediately to 0 psi. Overall, the pressure continues to decrease so we would like to continue bleeding the pressure off everyday and monitoring what it builds to each following day. We will continue to keep you updated on the progression of this bradenhead. Please let us know if this is acceptable.

Thanks!

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Wednesday, January 27, 2010 2:52 PM  
**To:** Guldán, Ryan W.  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for the update, and please proceed.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Wednesday, January 27, 2010 2:36 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina; Morss, Ruth Ann; Pfister, Miracle; Spector, DeAnne M.  
**Subject:** RE: Knight 12-5 CBL

David,

We wanted to give you an update on the current status of the Knight 12-5.

It appears that the cycle of the 12 hour vent/shut-in is making progress. This morning the pressure was 30 psi. We are going to continue the 12 hour cycle procedure for the rest of the week. This weekend we are going to leave the bradenhead shut in and check the pressure on Monday morning.

As always we will keep posted and will notify you again Monday morning.

Thanks!

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---

**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Tuesday, January 19, 2010 3:29 PM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for the update, and please proceed per your proposal below.

Dave

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Tuesday, January 19, 2010 1:59 PM  
**To:** Andrews, David  
**Cc:** Burchett, Kirby; Johnson, Tina  
**Subject:** RE: Knight 12-5 CBL

David,

The update on the Knight 12-5 is as follows:

We vented the bradenhead for 72 hours, shut in at 6 PM on 1/18/10. The pressure built 100 psi in 15 hours. The pressure bled off in 1 second, there is no volume or flow. The current status of the shut in bradenhead pressure this morning was 0 psi.

Since the pressure is decreasing overall we would like to continue venting the bradenhead during the daylight for ~12 hours starting tomorrow morning then shutting it in overnight. We will notify once again as soon as we have more definite answer on whether this action is making any progress.

Please let us know if you have any questions/concerns and if our proposal is acceptable.

Thanks!

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---

**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]  
**Sent:** Tuesday, January 19, 2010 11:30 AM  
**To:** Guldán, Ryan W.  
**Cc:** Burchett, Kirby; Johnson, Tina  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for the summary. This confirms my verbal approval of your forward plan, as discussed during our telephone conversation on Thursday 1/14. Based on Kirby Burchett's email on Friday morning, I suspect that you may still be venting the bradenhead. If possible, please reply with an update today. I will be traveling to Denver tomorrow.

David D. Andrews, P.E., P.G.  
Engineering Supervisor - Western Colorado

State of Colorado

REPORTED 180 psi BH PRESSURE  
ON 1/15 - BLEEDS OFF IN SECONDS.

D.A.

**Oil and Gas Conservation Commission**

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E-mail: [David.Andrews@state.co.us](mailto:David.Andrews@state.co.us)

Website: <http://www.colorado.gov/cogcc>

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]

**Sent:** Thursday, January 14, 2010 3:34 PM

**To:** Andrews, David

**Cc:** Burchett, Kirby; Johnson, Tina

**Subject:** RE: Knight 12-5 CBL

David,

For follow up on our phone conversation on the Knight 12-5 P&A.

We were able to successfully squeeze 100 sxs of cement @ 1950'. However, we still have Bradenhead pressure on the well and it last built to 200 psi (before pumping the 100 sx squeeze the Bradenhead would build to 350 psi). We attempted to establish injection through the original perforations @ 487' (50' below the surface shoe) but were unable to do so. Instead the pressure held at 2000 psi. As a result we ran another CBL log (which is attached to this email) and it is apparent that we have several cement bridges below the surface shoe and it is holding to 2000 psi.

Our proposed plan that we discussed over the phone is as follows:

We are going to see what the Bradenhead pressure builds to over night. If there is Bradenhead pressure, we will notify you via voicemail/email that there is pressure and leave the Bradenhead to vent through the weekend until Tuesday morning when you return from the holiday.

If there is no Bradenhead pressure, we agreed that you will be notified via voicemail/email that we are moving forward with our proposed plan. We will perforate at 390' and set 35 sxs behind the production csg (100' above the surface shoe) and set a cement plug from 500' to surface.

Have a great weekend/holiday and we will keep you informed throughout the operation.

Thanks!

Ryan W Guldán

Engineer - South Piceance

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**From:** Andrews, David [<mailto:David.Andrews@state.co.us>]

**Sent:** Tuesday, January 12, 2010 2:05 PM

**To:** Guldán, Ryan W.

**Cc:** King, Kevin  
**Subject:** RE: Knight 12-5 CBL

Ryan,

Thanks for your summary below and the CBL. Please proceed with the cement squeeze. After the squeeze is complete, let me know if it kills the bradenhead pressure. Of course, EnCana will still have to re-set cement plug(s) from 487' to surface, per your approved Form 6 (Notice of Intent to Abandon).

**David D. Andrews, P.E., P.G.**  
Engineering Supervisor - Western Colorado

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E-mail: [David.Andrews@state.co.us](mailto:David.Andrews@state.co.us)  
Website: <http://www.colorado.gov/cogcc>

**From:** Guldán, Ryan W. [<mailto:Ryan.Guldán@encana.com>]  
**Sent:** Tuesday, January 12, 2010 1:19 PM  
**To:** Andrews, David  
**Subject:** RE: Knight 12-5 CBL

David,

We would like to perf @ 1,950' and squeeze with 100 sks of G cement above the large sand package that is apparent on the GR of the CBL log we ran. I don't have electronic copies of the original well logs for induction and porosity but after reviewing these logs, this sand and the other pockets of sand below appear to have "approach" for gas and there are large kicks with the deep resistivity which could be indicative of gas.

Please let me know if this proposal is acceptable or if there are any other questions that I can answer for you.

Thanks!

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**From:** Guldán, Ryan W.  
**Sent:** Tuesday, January 12, 2010 1:14 PM

**To:** 'Andrews, David'  
**Subject:** FW: Knight 12-5 CBL

Ryan W Guldán  
Engineer - South Piceance  
EnCana Oil & Gas (USA) Inc.  
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---

**From:** Burchett, Kirby  
**Sent:** Tuesday, January 12, 2010 11:15 AM  
**To:** Guldán, Ryan W.  
**Cc:** Johnson, Tina  
**Subject:** Knight 12-5 CBL

*Kirby Burchett*  
O: 970-285-2664  
C: 970-250-1179

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<http://www.encana.com>