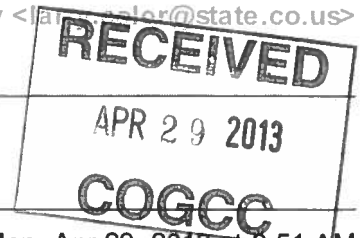




**State  
of  
Colorado**

Coler - DNR, Larry <larry.coler@state.co.us>



## Fwd: Big Sky 4-11, 073-06523, APD#400378458

2 messages

**Sutphin - DNR, Dirk** <dirk.sutphin@state.co.us>

To: chuckwilson@nighthawkenenergy.com

Cc: Diana Burn - DNR <diana.burn@state.co.us>, Larry Coler - DNR <larry.coler@state.co.us>

Mon, Apr 29, 2013 at 9:51 AM

Chuck,

I gave Jim the verbal approval to proceed on the phone with him just before my previous email to you. Please reply to my previous email with the details and within 24 hours send in the Form 2 and Form 4 as explained in section 3 - Operator. Send them to permititting. Larry Coler, Larry.Coler@state.co.us, Ext. 5142.

Thank you,

Dirk Sutphin, P.E.  
COGCC, SE Area Engineer  
(303) 894-2100 x 5107

----- Forwarded message -----

From: **Sutphin - DNR, Dirk** <dirk.sutphin@state.co.us>

Date: Mon, Apr 29, 2013 at 9:08 AM

Subject: Big Sky 4-11, 073-06523, APD#400378458

To: chuckwilson@nighthawkenenergy.com

Cc: Jimweir99@yahoo.com

Chuck,

Jim Weir contacted me to request to sidetrack. I am sending you the policy for your regulatory to submit required documents (Form 2, Form 4, etc). Please reply to this email with the items in section 1.b. Listed below. I filled out some of them based on his phone call to me (in parentheses in red). I told him he would need to set the plug from at least 4970' up to ensure 50' cement below the base of the Cheyenne aquifer (he said top of Morrison was 4919').

- i. Explain the situation that has resulted in the need to sidetrack
- ii. Total measured depth reached in the wellbore being plugged back. (6193')
- iii. Casing set – size(s) and measured depth(s)
- iv. Description of fish in the hole (if any) – including top and bottom measured depths (292': bit, sub, teledrill, 2 dc's, lbs, 3 hvywt dp.)
- v. Measured setting depths of proposed plugs, heights, and cement volumes (4970' up)
- vi. Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)
- vii. Measured depth of proposed sidetrack kick-off point (4382')
- viii. Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned (same as original apd)

ix. BHL target for sidetrack hole – new or same as the wellbore being abandoned (NOTE: a change in the BHL must be reviewed and approved by COGCC Permitting prior to completing the sidetrack. Drilling a sidetrack to an unapproved BHL could result in an NOAV, plugging the well, or both). (same as original apd)

Thank you,

Dirk Sutphin, P.E.  
COGCC, SE Area Engineer  
(303) 894-2100 x 5107



**Statewide UNPLANNED Sidetrack Approval Reporting\_09-20-2012.pdf**  
162K

**Sutphin - DNR, Dirk** <dirk.sutphin@state.co.us>

Mon, Apr 29, 2013 at 1:17 PM

To: Diana Burn - DNR <diana.burn@state.co.us>, Jane Stanczyk - DNR <jane.stanczyk@state.co.us>, Larry Coler - DNR <larry.coler@state.co.us>, Craig Quint - DNR <craig.quint@state.co.us>, Mike Leonard - DNR <mike.leonard@state.co.us>

Sidetrack details:

i. NIGHTHAWK DRILLED TO 6193'; STARTED OUT OF THE HOLE TO CHANGE OUR BOTTOM HOLE ASSEMBLY AROUND WHEN THE TOP DRIVE ON THE RIG HAD SOME MECHANICAL PROBLEMS. WE COULD NOT CIRCULATE THE WELL FOR OVER AN HOUR. ONCE THE TOP DRIVE ISSUE WAS RESOLVED, WE TRIED TO CONTINUE TO TRIP OUT AND WERE STUCK. WE BACKED OFF AND TRIPPED IN WITH FISHING TOOLS AND ATTEMPTED TO FISH FOR TWO DAYS WITH NO SUCCESS AND THEN THE BIT BECAME PLUGGED AND THIS RESULTED IN NIGHTHAWK MAKING THE DECISION TO BACK OFF AT 5650', LEAVE THE BHA IN THE HOLE AND INITIATED A PLUG BACK AND SIDETRACK IN ORDER TO DRILL THIS WELL TO THE ORIGINAL PERMITTED BOTTOM HOLE LOCATION.

ii. TOTAL MEASURED DEPTH REACHED IN THE WELLBORE BEING PLUGGED BACK IS 6193'.

iii. 8 5/8" SURFACE CASING HAS BEEN SET AT 301'.

iv. DESCRIPTION OF THE FISH IN THE HOLE: 242': BIT, SUB, TELEDRIILL, 2 DC'S, IB'S, 3 HVYWT DP, T.O.F IS @ 5650'

v. MEASURED SETTING DEPTHS OF PROPOSED PLUGS, HEIGHTS, AND CEMENT VOLUMES IS 4970' UP.

vi. THE TYPE OF CEMENT THAT WILL BE USED IS SCHLUMBERGERS CLASS G SYSTEM. PLEASE SEE ATTACHED DESIGN WORK.

vii. MEASURED DEPTH OF PROPOSED SIDETRACK KICK-OFF IS 4382'

viii. PROPOSED OBJECTIVE FORMATIONS FOR SIDETRACK HOLE IS THE SAME AS THE ORIGINAL APD.

ix. BHL TARGET FOR SIDETRACK HOLE IS THE SAME AS THE ORIGINAL APD, 615 FNL X 622' FWL.

VERBAL APPROVAL FOR THE PLUG BACK AND SIDETRACK WAS GIVEN BY DIRK SUTPHIN @9:08 ON 4/29/2013.

——— Forwarded message ———

From: **Chuck Wilson** <chuckwilson@nighthawkenergy.com>  
Date: Mon, Apr 29, 2013 at 10:06 AM  
Subject: Re: Big Sky 4-11, 073-06523, APD#400378458  
To: "Sutphin - DNR, Dirk" <dirk.sutphin@state.co.us>  
Cc: Kyla Vaughan <kvaughan@ltenv.com>

Dirk,

We drilled to 6193', started out of the hole to change our bottom hole assembly around when the top drive on the rig had some mechanical problems. We could not circulate the well for over an hour. Once the top drive issue was resolved, we tried to continue to trip out and were stuck. We backed off and tripped in with fishing tools and attempted to fish for two days with no success and then the bit became plugged and this resulted in Nighthawk making the decision to back off at 5650', leave the BHA in the hole and initiated a plug back and sidetrack in order to drill this well to the original permitted bottom hole location.

We have 8-5/8" surface casing set at 301'

The type of cement that we will use is Schlumberger's class G system. I am attaching there design work.

The bottom hole target for the side track will be the original bottom hole target, I am attaching the through drill pipe gyro that was run in order to determine the exact well path.

Please let me know if you need anything else.

Best regards,

Chuck Wilson  
Chief Operating Officer  
Nighthawk Production LLC  
Office: 303-407-9603  
Cell: 720-530-1057

1805 Shea Center Drive  
Suite 290  
Highlands Ranch, CO 80129

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**From:** "<Sutphin - DNR>", Dirk <dirk.sutphin@state.co.us>  
**Date:** Monday, April 29, 2013 9:08 AM  
**To:** Chuck Wilson <chuckwilson@nighthawkenergy.com>  
**Cc:** "Jimweir99@yahoo.com" <Jimweir99@yahoo.com>  
**Subject:** Big Sky 4-11, 073-06523, APD#400378458

Chuck,

Jim Weir contacted me to request to sidetrack. I am sending you the policy for your regulatory to submit required documents (Form 2, Form 4, etc). Please reply to this email with the items in section 1.b. Listed below. I filled out some of them based on his phone call to me (in parentheses in red). I told him he would need to set the plug from at

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Thank you,

Dirk Sutphin, P.E.  
COGCC, SE Area Engineer  
(303) 894-2100 x 5107

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## 2 attachments

 **Big Sky 4-11 gyro.pdf**  
18K

 **Nighthawk Big Sky 4-11 KOP April 27v2 Wiper Plugs.pdf**  
118K