

## Melissa Luke

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**From:** Jon McDonald  
**Sent:** Thursday, November 9, 2023 10:08 AM  
**To:** Ante, Magdalene A; Katz - DNR, Aaron  
**Cc:** Woodruff, Chad W  
**Subject:** RE: [EXTERNAL] Re: Notice of MIRU on RGU 331-24-198

Good morning,

Everything reading OPSI this morning. Pressure tested and Surface csg annulus to 1000# 30min and prod csg and both GOOD TEST. Zero drop. Tagging and doing our top out job and will SI for 5+day monitor period.

Thanks!

Jon

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**From:** Jon McDonald  
**Sent:** Wednesday, November 8, 2023 10:16 AM  
**To:** Ante, Magdalene A <mante@blm.gov>; Katz - DNR, Aaron <aaron.katz@state.co.us>  
**Cc:** Woodruff, Chad W <cwoodruff@blm.gov>  
**Subject:** RE: [EXTERNAL] Re: Notice of MIRU on RGU 331-24-198

All,

This morning we tagged with tbg at 5415' (106' above HIC)  
Pressure tested surface to 5415' to 1120psi, 30min test zero drop. GOOD TEST.

Proceeding with surface shoe plugging. I'll report back if anything changes.

Thanks!

Jon

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**From:** Jon McDonald  
**Sent:** Tuesday, November 7, 2023 11:24 AM  
**To:** Ante, Magdalene A <[mante@blm.gov](mailto:mante@blm.gov)>; Katz - DNR, Aaron <[aaron.katz@state.co.us](mailto:aaron.katz@state.co.us)>

**Cc:** Woodruff, Chad W <[cwoodruff@blm.gov](mailto:cwoodruff@blm.gov)>

**Subject:** RE: [EXTERNAL] Re: Notice of MIRU on RGU 331-24-198

Thank you Aaron and Magdalene, we should be on track to get this done today so I will report back first thing tomorrow with pressure test results & our tag data.

Jon

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**From:** Ante, Magdalene A <[mante@blm.gov](mailto:mante@blm.gov)>

**Sent:** Tuesday, November 7, 2023 11:23 AM

**To:** Katz - DNR, Aaron <[aaron.katz@state.co.us](mailto:aaron.katz@state.co.us)>; Jon McDonald <[JMcDonald@terraep.com](mailto:JMcDonald@terraep.com)>

**Cc:** Woodruff, Chad W <[cwoodruff@blm.gov](mailto:cwoodruff@blm.gov)>

**Subject:** RE: [EXTERNAL] Re: Notice of MIRU on RGU 331-24-198

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Jon,

Please proceed with your proposed update. Please report TOC and pressure test result post-HIC plugs before proceeding to the next step.

Thank you.

Cordially,

Ante, M. A.

*"...but with humility of mind regarding one another as more important than yourselves"*

*-Paul (nee Saul) of Tarsus*

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**From:** Katz - DNR, Aaron <[aaron.katz@state.co.us](mailto:aaron.katz@state.co.us)>

**Sent:** Tuesday, November 7, 2023 6:58 AM

**To:** Jon McDonald <[JMcDonald@terraep.com](mailto:JMcDonald@terraep.com)>

**Cc:** Ante, Magdalene A <[mante@blm.gov](mailto:mante@blm.gov)>

**Subject:** [EXTERNAL] Re: Notice of MIRU on RGU 331-24-198

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Good Morning Jon, Thank you for the update. The proposed changes are okay with me and please proceed as outlined.

Regards,

Aaron Katz

West Area Engineer



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1120 Lincoln Street, Suite 801, Denver, CO 80203  
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On Mon, Nov 6, 2023 at 7:33 PM Jon McDonald <[JMcDonald@terraep.com](mailto:JMcDonald@terraep.com)> wrote:

All,

The P&A on this RGU 331-24-198 started.

**To recap the work thus far:**

11/2/2023 MIRU, POOH PU retrieving head, RIH latch up and pull TSBP at 6474'. POOH. SDFN

11/3/2023 Finish POOH, LD TSBP. RU WL, Gauge ring run to 10,000. POOH. MU 4 ½" CIBP and CCL. RIH and set CIBP @9963'. MU Dump bail, dump bail stacked out at 5300' and ran out of time. Will run smaller dump bail SIFW

11/6/2023 MU dump bail RIH dump bail on CIBP at 9963'. MU Second dump bail run to 9963'. POOH RD WL. RIH w/ packer set 5515' (above HIC) Pressure tested 1000# for 30min; GOOD TEST. RIH packer to 6211' BAD TEST (59' below known HIC). RIH to CIBP and work uphole to isolate leak. Isolate HIC#2 6466'-6498'. Pressure test 6498' to CIBP (9963') to 1020# for 30min. GOOD TEST. Unset packer, POOH LD Packer. SDFN

**Recommendation/Request for approval:**

- Continue with step #8 (Ohio creek balance plug) with no changes.
- Updated Step #10 & 11 with increased sks of cement + starting balance plug 50' below bottom of HIC #2 (Detailed below)
- We will likely be ready to pump this job around Noon tomorrow so the 'go ahead' ASAP would be appreciated!

**Description and Notes:**

We found another HIC below the known HIC. This was because it was below the TSBP set at 6474' so during the csg repair earlier this year we did not find the leak. Below is the recommended steps to isolate the additional csg damage that was found.

This leak should be minimal leakoff with the injection rate we established, is below TOC, so increasing our cement slurry to pump additional cement across this HIC #2 & HIC #1 should not complicate this balance plug.

We will then SI for cure over night. Pressure test to 1000# 30min. With good test RIH tag our TOC ensure we have adequate cement barrier above the HIC and continue with Steps 13+ surface shoe work & Top out. If the upper or lower HIC takes too much cement that we fail pressure test or have a low TOC we will perform another balance plug to ensure adequate isolation of all leaks and good pressure testing.

**Attached**

- original Sundry's and Form 6 for plugging
- Ops summary to date
- Below: recommended changes to procedure, WBD, calculations

<b>#3 HIC cement balance plug (5371-6548')</b>			
1.177.0	(10) 4-1/2" csg + 30% excess		
23.8	bbls	117.0	#sks (round up)
UPDATED 11/6/2023**			

STEPS updated: **7.5, 10,11**

**Proposed Procedure:**

**Cement specs: 15.8ppg Class G, 1.15ft<sup>3</sup>/sk, 4.9 gal/sk**

- 1 Notify COGCC & BLM 48 hrs prior to start of activity via electronic Form 42
- 2 MRU, Mill dog, NO production head NU BOP, pressure test: BOP's
- 3 RU floor, unlaid dog hanger POOH with dog, PU Retrieving head and R H to pull RBP at: 647'
- 4 POOH and LDRBP.
- 5 RU WL and set C BP at: appx 9963'. R H with baller and place 3sk (40') cement above C BP.
- 6 R H with packer. Roll hole and fill csg with 9ppg kill fluid. Set packer below HC ( appx 6175') and pressure test: below H C to C BP to 1000# for 30min
- 7 H C was already isolated from 9921-6192'. POOH with Packer and pressure test: above 9921' to 1000# for 30min.

7.5 Isolated HIC #2 6466-6498'. Pressure tested 6498' to C BP for 1000# 30min. (UPDATED 11/6/2023)

- 8 R H w/ dog to 7648'. Pump and displace 23sk (4.7bbbls) of cement for Ohio Creek balance plug #2 7348-7648'
- 9 Allow cement to cure. R H dog TOC. Confirm TOC ~ 7348' (WL or Tbg) pump 9ppg to Plug #3

10 POOH with end of tbg to appx 6548' (50' below bottom of HIC#2). (UPDATED 11/6/2023)

11 Pump and displace appx 117sk (23.8bbbls) of cement for balance plug across HIC#1 at 5521-6152' and HIC#2 6466-6498'. Balance plug is 1177' + 30% excess (UP DATED 11/6/2023)

12 Allow cement to harden. R H dog TOC & pressure test: csg to 1000# for 30min. Report dog to engineering

13 POOH and RU WL.

14 R H with C BP and set at: appx 3982'

15 Perform 4-1/2" casing with 3 holes phased 120°, at: 3992'

16 Establish circulation up bradenhead with 9ppg fluid. Circulate 9ppg for entire annulus.

17 Mix 111sk (appx 22.4bbbls) of cement. Pump and displace cement with appx 57.2bbbl for a TOC in 4-1/2" csg at 3682' while monitoring returns on BH

18 Allow cement to cure overnight (Minimum 8 hours 5 time), monitor CSG and BH pressure.

19 Confirm all pressures at surface are reading Opt. Pressure test: csg and annulus to 1000# for 30min

20 R H with WL and confirm TOC

21 R H and perform 4-1/2" csg at: 100' establish circulation.

22 Mix 37sk of cement and circulate to surface till good returns. Top off csg to surface. 5 to cure

23 Allow Minimum 5 days after placing surface plugs while monitoring pressures for successful plugging.

24 After 5 days confirm TOC's and pressures for final plugging.

25 Dig out and cut off wellhead.

26 Weld in place dryhole marker

27 Backfill cellar

28 Properly abandon flowline: per Rule 1103. File electronic Form 42 after flowline abandonment: is complete

**RGU 931-24-198 P&A Dryhole marker details:**

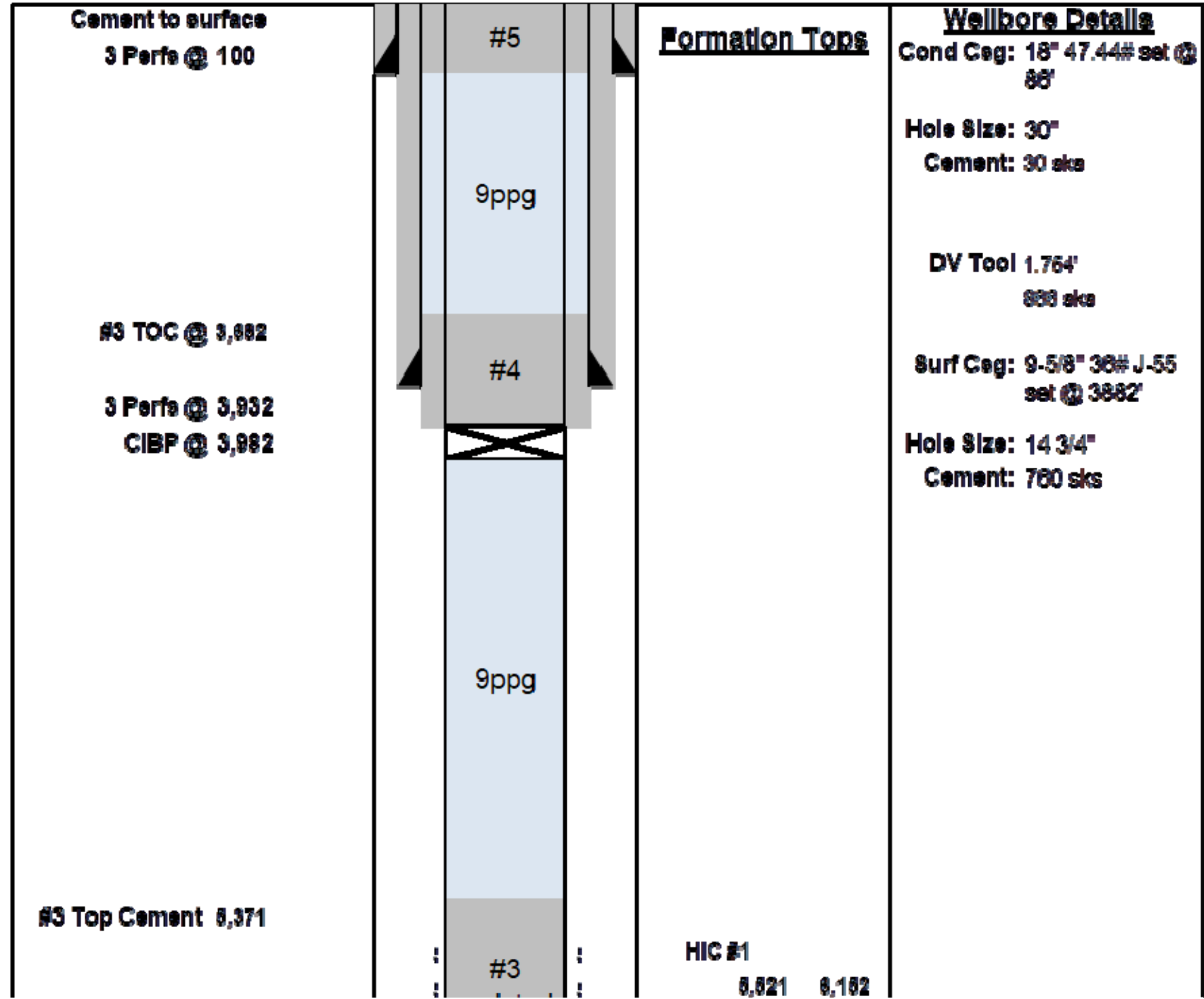
1 Operator Name: TEP ROCKY MOUNTAIN LLC

2 Well Name and Number: RGU 931-24-198

3 Location: LOT 2 24-198W

4 AP Number: 05-103-11817





**Cement to surface**  
**3 Perfs @ 100**

#5

**Formation Tops**

**Wellbore Details**

**Cond Ceg: 18" 47.44# set @ 85'**

**Hole Size: 30"**  
**Cement: 30 sks**

**DV Tool 1.764'**  
**833 sks**

**Surf Ceg: 9-5/8" 38# J-55 set @ 3882'**

**Hole Size: 14 3/4"**  
**Cement: 760 sks**

**#3 TOC @ 3,982**

9ppg

#4

**3 Perfs @ 3,932**  
**CIBP @ 3,982**

9ppg

**#3 Top Cement 5,371**

#3

**HIC #1**  
**5,821 6,152**

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**From:** Donny Winkler <[dwinkler@terraep.com](mailto:dwinkler@terraep.com)>

**Sent:** Tuesday, October 31, 2023 2:13 PM

**To:** [mante@blm.gov](mailto:mante@blm.gov)

**Cc:** Ryan Casebolt <[rcasebolt@terraep.com](mailto:rcasebolt@terraep.com)>; Jon McDonald <[JMcDonald@terraep.com](mailto:JMcDonald@terraep.com)>; Kyle Kohl <[KKohl@terraep.com](mailto:KKohl@terraep.com)>

**Subject:** Notice of MIRU on RGU 331-24-198

Good afternoon,

TEP will be moving a workover rig to the RGU 331-24-198 on 11-2-23 to start plugging operations. The field contact is Ryan Casebolt. Ryan has been in contact with BLM Rep Chad Woodruff about this. Please reach out to TEP Engineering or Ryan with any questions.

Ryan Casebolt Cell #970-216-3304

Thank you,

Donny Winkler

TEP