From: Jerry Sherrell
To: Harris, Anthony, EMNRD; Goetze, Phillip, EMNRD; Gebremichael, Million, EMNRD
Cc: Deana Weaver; Delilah Flores
Subject: RE: [EXTERNAL] FW: Mack Energy Fraser SWD#1 - Contingency plans?
Date: Monday, November 6, 2023 12:06:26 PM
Attachments: image006.png
image008.jpg
image009.png
image003.jpg
image004.jpg
Fraser SWD #1- Wellbore.pdf
C-108.pdf

Tony,

Here is the requested information.

1. Yes 7" casing is the "base case". See attachment revised wellbore diagram and C-108.
2. 7" casing is the "base case design" the tubing will be 3 ½"-9.30#-L-80 ICP with 1850 coating for H2S and Heavy Brines. The 7" nickel coated Arrow set packer with a 2.867 profile nipple. Packer set at 10,315'.

From: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Sent: Monday, November 06, 2023 11:02 AM
To: Jerry Sherrell <jerrys@mec.com>; Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Cc: Deana Weaver <dweaver@mec.com>; Delilah Flores <delilah@mec.com>
Subject: RE: [EXTERNAL] FW: Mack Energy Fraser SWD#1 - Contingency plans?

EXTERNAL EMAIL - Verify the sender and use caution before opening attachments or clicking links

Good Morning Jerry.

Thank you for the follow-up and the additional information. I just want to clarify a couple of items:

The "revised design" indicates 7" production casing will be run to 10,415 ft (refer to snapshot below)

1. Is the 7" casing now your "base case" design, with 5" casing reserved as a contingency?
    a. If yes, please include an updated wellbore diagram to reflect the 7" set at 10,415 ft.
2. If 7" Production casing is the "base case" design, will you still run 2.875" tubing?
    a. If larger tubing is planned, please provide an update on tubing size, setting depth, packer details, and internal coating/lining detail.

Regards
Tony Harris
Petroleum Specialist
Anthony.harris@emnrd.nm.gov
505 549 8131.

From: Jerry Sherrell <jerrys@mec.com>
Sent: Monday, November 6, 2023 8:14 AM **To:** Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>; Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Cc: Deana Weaver <dweaver@mec.com>; Delilah Flores <delilah@mec.com>
Subject: [EXTERNAL] FW: Mack Energy Fraser SWD#1 - Contingency plans?

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Tony,

See the email below for answers to your concerns. We will also shut in the offset wells prior to drilling the Fraser SWD #1.

Jerry W. Sherrell

Regulatory Supervisor
Mack Energy Corporation
Redwood Operating LLC
PO Box 960
Artesia, NM 88210
Office 575-748-1288
Cell 575-703-7382
jerrys@mec.com

From: Jim Krogman <jimkrogman@mec.com>
Sent: Sunday, November 05, 2023 6:04 AM
To: Jerry Sherrell <jerrys@mec.com>; Lee Livingston <leel@mec.com>
Cc: Jim Krogman <jimkrogman@mec.com>
Subject: RE: Mack Energy Fraser SWD#1 - Contingency plans?

Jerry,

Attached is the revised casing design and cement volumes for the Fraser SWD #1.

Below addresses the concerns form the OCD.

1) Mack Energy has Inc. and Azm. Survey's on the Dawson Creek State Com #1H. Mack Energy plans to run Steering tools with Inc. and Azm to ensure that the Dawson Creek State Com #1H is not intersected. (Mack Energy will also have a anti-collision plan with the concern)

2) Mack Energy contingency plan for lost circulation: Pre-treat the Drilling fluids with 10#/Barrel to 20#/Barrel LCM. If lost circulation is encountered Spot LCM pill on bottom. TOH with Drilling Tools build volume in drilling pits with 10#/barrel to 20#/barrel LCM and stage drilling tools back to bottom. If circulation is not established TOH with Drilling Tools and TIH with Drill Pipe open ended to set Cement plugs to establish circulation.

3) Mack Energy contingency plan if casing setting depth is changed. If the above Drilling fluids with LCM and Cement plugs do not seal off lost circulation
   a) Set 7" casing and cement in place below lost circulation zone to seal off lost zone.
   b) Reduce bit size to 6 ¼" drill to TD. Run 5"-18#-P-110 flush joint casing to TD and cement into place.

Thank you,

From: Jerry Sherrell <jerrys@mec.com>
Sent: Friday, November 03, 2023 2:03 PM
To: Lee Livingston <leel@mec.com>; Cole Ponce <ColePonce@mec.com>; Matt Brewer <mbrewer@mec.com>; Jim Krogman <jimkrogman@mec.com>; Charles Sadler <charless@mec.com>
Cc: Deana Weaver <dweaver@mec.com>; Delilah Flores <delilah@mec.com>
Subject: Fwd: Mack Energy Fraser SWD#1 - Contingency plans?

Sent from my iPhone

Begin forwarded message:

> **From:** "Harris, Anthony, EMNRD" <Anthony.Harris@emnrd.nm.gov>
> **Date:** November 3, 2023 at 1:58:47 PM MDT
> **To:** Jerry Sherrell <jerrys@mec.com>, Deana Weaver <dweaver@mec.com>
> **Cc:** "Goetze, Phillip, EMNRD" <phillip.goetze@emnrd.nm.gov>, "Gebremichael, Million, EMNRD" <Million.Gebremichael@emnrd.nm.gov>
> **Subject: Mack Energy Fraser SWD#1 - Contingency plans?**
>
> EXTERNAL EMAIL - Verify the sender and use caution before opening attachments or clicking links
>
> Good Afternoon
>
> As part of the final review for the subject well, it is evident that your proposed well (Fraser SWD#1) is in close proximity (~110 ft) to the Dawson Creek State Com#1H (30-005-64359) horizontal wellbore. In this regard, OCD requests Mack Energy to provide a statement to address the following items:
>
> 1. Does Mack Energy have any concerns with potential intersection of the Dawson creek wellbore or the propped hydraulic fractures that likely extend outward / perpendicular from the wellbore?
> 2. Does Mack Energy have contingency plans to address potential lost circulation or casing running/ cementing challenges if the subject well intersected the existing

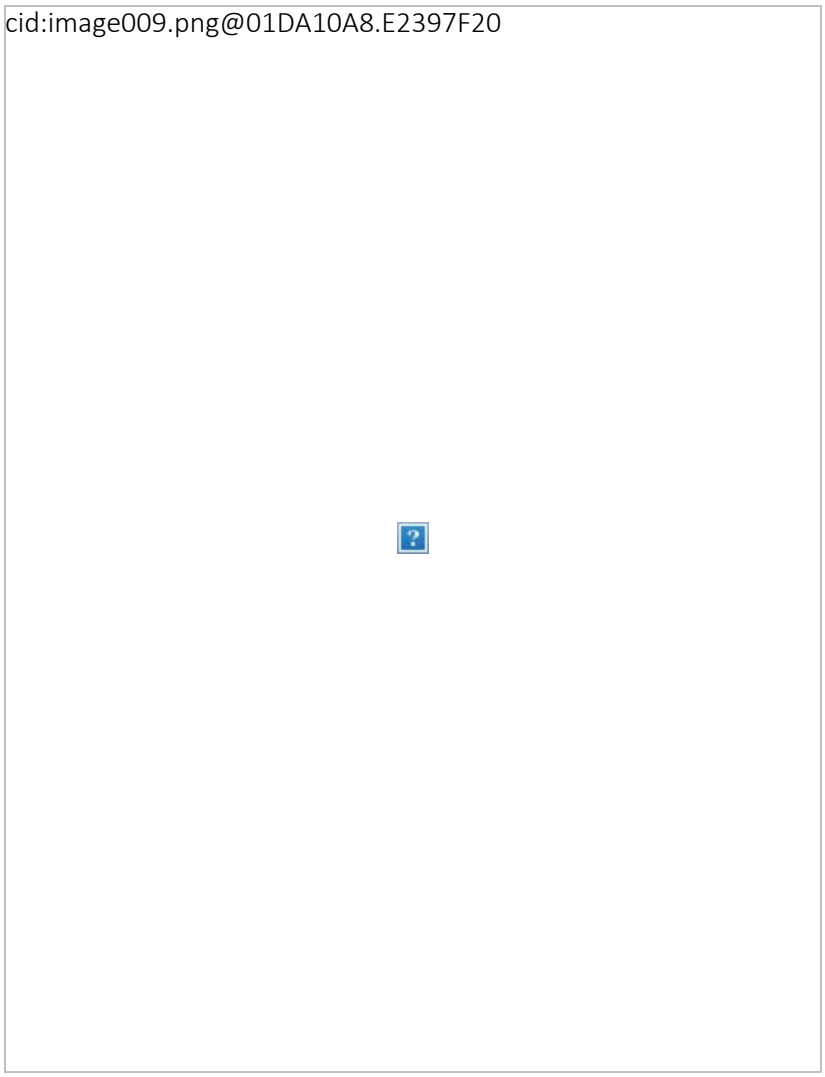
wellbore or its propped hydraulic fracture planes?

3. In the event that the planned casing setting depths had to be changed to address the items noted above, can a “contingency” casing string be run to remedy the situation without compromising the overall objectives of the well design?

The image below provides a plan view of the subject well and its proximity to the existing horizontal well.

Please feel free to contact me if you have any questions or require additional clarification on the above request.

cid:image009.png@01DA10A8.E2397F20



Regards
Tony Harris
Petroleum Specialist
Anthony.harris@emnrd.nm.gov
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 283402

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 283402
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	11/7/2023