

Melissa Luke

From: Dustin Childers
Sent: Thursday, June 12, 2025 1:02 PM
To: Melissa Luke; Brent Antolik
Cc: Tyler Gillam; Jeff Kirtland; James Head; HP329 Rig; Kaylee McIntosh
Subject: RE: Arco Deep 1-27 Pad - Surface Section Revision

Melissa / Brent -

The Arco Deep 1-27 pad drill progs have been updated and can be located in the following folder:

<P:\Drilling & Completions\Drilling\Drilling Engineering\Planning\Arco Deep 1-27\Drill Progs\Rev01>

Surface section revisions include:

- 9-5/8" 36# J-55 BTC Casing Shoe @ 150' TVD Below Wasatch
 - Total surface casing footage for pad ~ 49,432' (3,089.5' / well average)
- 14-3/4" Hole Size
- Surface Cement Volumes

Please let me know if you have any questions.

Thanks,
Dustin

From: Melissa Luke <mluke@terraep.com>
Sent: Wednesday, June 11, 2025 11:29 AM
To: Dustin Childers <dchilders@terraep.com>
Cc: Tyler Gillam <tgillam@terraep.com>; Jeff Kirtland <JKirtland@terraep.com>; Brent Antolik <Brent.Antolik@Flywheelenergy.com>; James Head <James.Head@FlywheelEnergy.com>
Subject: RE: Arco Deep 1-27 Pad - Surface Section Revision

Thank you very much. Will get them submitted ASAP once I have that.

Melissa Luke
Regulatory Specialist
TEP Rocky Mountain LLC

(Terra Energy Partners LLC)
PO Box 370 | 1058 CR 215 | Parachute, CO 81635
Office Phone (970) 263-2721
Cell Phone (970) 200-7201
Email- mluke@terraep.com



From: Dustin Childers <dchilders@terraep.com>
Sent: Wednesday, June 11, 2025 9:47 AM
To: Melissa Luke <mluke@terraep.com>
Cc: Tyler Gillam <tgillam@terraep.com>; Jeff Kirtland <JKirtland@terraep.com>; Brent Antolik <Brent.Antolik@Flywheelenergy.com>; James Head <James.Head@FlywheelEnergy.com>
Subject: RE: Arco Deep 1-27 Pad - Surface Section Revision

Melissa,

I will get updated drill progs with surface casing and cement volumes over to you.

Thanks,
Dustin

From: Katz - DNR, Aaron <aaron.katz@state.co.us>
Sent: Tuesday, June 10, 2025 8:15 PM
To: Curtis Haverkamp <curtis.haverkamp@state.co.us>
Cc: Melissa Luke <mluke@terraep.com>; Dustin Childers <dchilders@terraep.com>; Tyler Gillam <tgillam@terraep.com>; Jeff Kirtland <JKirtland@terraep.com>
Subject: Re: Arco Deep 1-27 Pad - Surface Section Revision

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Melissa, Let me know when the sundries are submitted and I can prioritize them.

Regards,

Aaron Katz

West Area Engineer

C 970-765-6300
1120 Lincoln Street, Suite 801, Denver, CO 80203
aaron.katz@state.co.us | www.colorado.gov/ecmc

On Tue, Jun 10, 2025 at 7:02 PM Curtis Haverkamp <curtis.haverkamp@state.co.us> wrote:

Melissa,
Correct. Can proceed with the verbal for now, but a sundry in each wellfile for casing change would be appropriate.

Thanks,
Curtis Haverkamp, PE
Western Engineering Supervisor



Cell Phone: 720.786.5560

curtis.haverkamp@state.co.us

On Tue, Jun 10, 2025 at 4:45 PM Melissa Luke <mluke@terraep.com> wrote:

Good afternoon, Curtis

Would each well require a Form 4 to make this change?

Thank you,

Melissa Luke

Regulatory Specialist

TEP Rocky Mountain LLC

(Terra Energy Partners LLC)

PO Box 370 | 1058 CR 215 | Parachute, CO 81635

Office Phone (970) 263-2721

Cell Phone (970) 200-7201

Email- mluke@terraep.com



From: Curtis Haverkamp <curtis.haverkamp@state.co.us>
Sent: Monday, June 9, 2025 9:11 AM
To: Katz - DNR, Aaron <aaron.katz@state.co.us>
Cc: Dustin Childers <dchilders@terraep.com>; Tyler Gillam <tgillam@terraep.com>; Melissa Luke <mluke@terraep.com>; Jeff Kirtland <JKirtland@terraep.com>
Subject: Re: Arco Deep 1-27 Pad - Surface Section Revision

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I agree with Aaron. This isn't a substantive change, and can be documented on a form 4.

As a side note, please remember to report any cementing details of the parasite line on the form 5.

Thanks,

Curtis Haverkamp, PE
Western Engineering Supervisor



Cell Phone: 720.786.5560
curtis.haverkamp@state.co.us

On Mon, Jun 9, 2025 at 7:11 AM Katz - DNR, Aaron <aaron.katz@state.co.us> wrote:

A Form 4 sundry for the new casing and cementing details is likely the route we will go. I added Curtis to this email to loop him in on the change and to discuss if a sundry is the best option.

Regards,

Aaron Katz
Northwest Area Engineer
Office: 303-894-2100
Cell: 970-765-6300
aaron.katz@state.co.us

On Fri, Jun 6, 2025 at 9:59 AM Dustin Childers <dchilders@terraep.com> wrote:

Good morning Aaron,

As previously discussed, the upcoming Arco Deep 1-27 pad (16 total wells) will require a deeper than permitted 9-5/8” surface shoe depth to allow for an effective parasite string design.

Factors that influenced this decision include:

- a. Pivoting to surface parasite string application on the TR 32-28-597 pad after encountering hole problems and stuck pipe in the production section (~7.5 miles NW of Arco Deep 1-27 pad)
- b. Offset operator (Laramie) is drilling with a similar surface casing design (~2 miles north of Arco Deep 1-27 pad)

Attached is a WBD comparison for a well on pad (WGV 11-27-697) that reference the following adjustments:

- The original permitted surface section was planned for 13-1/2” hole size with a casing set shoe depth 200’ TVD below the Garden Gulch top.
 - Garden Gulch Top – 1616’ TVD / 1760’ MD
 - Original Permitted Surface Shoe – 1816’ TVD / 2000’ MD
- The proposed surface section would be revised for 14-3/4” hole size with a casing shoe depth 150’ TVD below the Wasatch Top.
 - Wasatch Top – 2601’ TVD / 2942’ MD
 - Proposed Surface Shoe Revision – 2751’ TVD / ~3125’ MD

Please advise on steps forward and let us know if you have any questions.

Thanks,

Dustin

936-524-8828

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