

STATE OF  
COLORADO

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**JE Coltharp 9X Revised P&A Procedure**

103 - 08535

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Mon, Feb 27, 2017 at 12:53 PM

To: "Spence, Reilly C." &lt;ReillySpence@chevron.com&gt;

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Reilly,

This email reply is your approval to proceed with the attached plugging procedure change. I will save a copy of this email and attachment to COGCC's well file as documentation of the procedure change.

As discussed this morning, a new Form 6 Notice of Intent to Abandon is not required. An updated Form 42 is not required unless the start of plugging operations are delayed past 3/4/2017. Please keep Kyle Granahan informed of any changes to the start date this week.

Thanks,

Dave

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

**COLORADO**Oil & Gas Conservation  
Commission

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# Revised P&A Procedure

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- Set 7" CICR at 4,990'. Test tubing to 2500 psi. Sting out and reverse circulate 185 bbls fresh water to clear any gas or debris. Test casing to 300 psi for 15 minutes.
- Sting into CICR and establish injection rate with 10 bbls fresh water.
- Sting out of CICR. Mix and pump **30.5 bbls/150 sacks, 15.8 ppg SqueezeCem**. spot to the EOT, sting in to CICR and squeeze Weber formation with a total of 30.5 bbls. Max pressure 2000 psi.
- Displace 23 bbls fresh water (**25.9 bbls**), leaving 5.9 bbls (**2.95 bbls**) of cement in tubing. Sting out and displace 4.8 bbls fresh water to balance 150' (**75'**) cement plug from 4,990' to 4,840' (**4,915'**).
- L/D 8 joints (**3 joints**) 2 7/8" work string to +/- 4,730' (**4,893'**). Reverse circulate 35 bbls fresh water. If casing test failed in earlier step, re-test.
- POOH standing back 151 joints 2 7/8" work string. R/U PLS. RIH and perforate 7" production casing below Navajo formation at 4,890'.
- RIH with 7" CICR and set at +/- 4,840'. Establish injection rate into Navajo perforations.
- Mix and pump 8.7 bbls/43 sacks SqueezeCem, displace 24 bbls fresh water, leaving 3.8 bbls of cement in tubing. Sting out and displace 3.2 bbls fresh water to balance 100' cement plug from 4,840' to 4,740'.
- L/D 6 joints 2 7/8" work string to +/- 4,645'. Reverse circulate 34 bbls fresh water.
- Mix and pump (**21.8 bbls**) **9 ppg PozPlug** mud spacer, displace 23 bbls fresh water to balance 9 ppg spacer from **4,645'** to 4,091'.
- L/D 20 joints 2 7/8" work string to +/- 4,095'.
- Mix and pump **11.8 bbls/58 sacks, 15.8 ppg PlugCem**, displace 21.6 bbls fresh water to balance cement plug from 4,095' to 3,795'.
- L/D 12 joints 2 7/8" work string to +/- 3,705'. Reverse circulate 27 bbls fresh water.
- Mix and pump **111.5 bbls 9 ppg PozPlug** mud spacer, displace 2.2 bbls fresh water to balance 9 ppg spacer from 3,705' to 871'.
- L/D 90 joints 2 7/8" work string, stand back 24 joints 2 7/8" work string, L/D cement stinger.
- R/U PLS and perforate 50' below 9 5/8" surface shoe at 871'.
- Pump down 7" production casing taking returns up 7" x 9 5/8" surface annulus.
- RIH with 7" CICR and 24 joints 2 7/8" work string, set 7" CICR at +/- 780'.

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**If circulation was established**

-mix and pump **33.75/165 sacks, 15.8 ppg PlugCem**. Displace 0.5 bbls fresh water, sting out of CICR and displace 3.3 bbls fresh water to balance 100' cement plug from 780' to 680'.

-L/D 6 joints 2 7/8" work string, reverse circulate 4.5 bbls fresh water.

-mix and pump **21 bbls 9 ppg PozPlug** mud spacer, displace 0.5 bbls fresh water to clear lines and balance 9 ppg mud spacer from 585' to 50'. L/D 2 7/8" work string.

**If circulation was not established**

-mix and pump **10.9 bbls/53 sacks, 15.8 PlugCem**. Displace 0.5 bbls fresh water, sting out of CICR and displace 3.3 bbls fresh water to balance 100' cement plug from 780' to 680'.

-L/D 6 joints 2 7/8" work string, reverse circulate 4.5 bbls fresh water.

-mix and pump **21 bbls 9 ppg PozPlug** mud spacer, displace 0.5 bbls fresh water to clear lines and balance 9 ppg mud spacer from 585' to 50'. L/D 2 7/8" work string.

-ND BOPE. RIH with 1" to +/- 60'. Mix and pump **1.96 bbls/9.5 sacks, 15.8 ppg PlugCem** for 50' cement plug to surface.

-Cut off WH, ensure 7" x 9 5/8" has cement to surface. Top out if needed. Weld on marker plate.