# **James Thum**

From: Sent: To: Subject:	James Thum Wednesday, October 02, 2019 2:29 PM Diane Kassab; Mitch E. Gore Re: Idaho - P&A Plan
Categories:	Operations & Inspections, Application processing
Thank you Diane. The rev commencing operations.	isions look ok. Please notify us when you know for certain at least 24 hours in advance of
Thank you,	
James	
	er 2, 2019 10:42:45 AM Pidl.idaho.gov> Plan ust wanted to be sure we didn't need to provide anything else before we move on location
next Tuesday, October 8. Thanks so much. Diane 281-994-5429	We have plugging approvals for all seven wells, however, Mitch had revised a few procedures.
From: James Thum <jthur Sent: Monday, Septembe To: Mitch E. Gore <mgore Cc: Diane Kassab <dkassa Subject: Re: Idaho - P&amp;A F</dkassa </mgore </jthur 	r 30, 2019 11:14 AM e@high-mesa.com>; Mick Thomas <mthomas@idl.idaho.gov> ub@high-mesa.com&gt;</mthomas@idl.idaho.gov>
	I will review them later tonight. The permits to plug are good for one year. The department will be provided in the permits to plugging activity submitted at least 24 hours in advance of commencement of operations date.
Let me know if you have a	any questions.
Regards,	
James	
From: Mitch E. Gore <mg Sent: Monday, Septembe</mg 	

Cc: Diane Kassab < DKassab@high-mesa.com < mailto: DKassab@high-mesa.com >>

To: James Thum <jthum@idl.idaho.gov<mailto:jthum@idl.idaho.gov>>; Mick Thomas

<mthomas@idl.idaho.gov<mailto:mthomas@idl.idaho.gov>>

Subject: Idaho - P&A Plan

James – Attached are the P&A procedures for the 7 wells we plan to begin plugging next week 10/8/19. A few of them we've discussed already (Island Cap and Tracy Trust), the others should be similar if not the same as previously approved plans.

Do we need to revise the Sundry notifications or can you send us a note back stating that our previous sundries are acceptable with the attached procedures?

I know that James said he'd be out this week, so I've copied Mick Thomas as well.

Thanks

Mitch

# **P&A Procedure**

- Well Name: Espino 1-2
- AFE# AMU0012PA1
- API# 11-075-20004
- Field: Hamilton
- County: Payette CO, ID

# Well Info:

- TD: 4500'
- PBTD 1686' (CIBP with 14' cmt)
- Current Perfs: 1608' 14'
- Wellhead: Top connection 2 9/16" 5K with 2 7/8" EUE 8rd threads
- Prod Csg 5 /2" 17# J-55 LTC set at 3,030' Hole size 8.75"
  - o FC at 2953'
  - o FS at 3030'
- Surface Csg 9 5/8" 36# J-55 STC set at 793' Hole size 12.25"
- Tubing 2 7/8" 6.5# J-55 EU 8rd
- Packer at 1571'
- CIBP at 1700' with 14' cmt (TOC 1686')
- Well status: Shut in
- BHP: 698 psi (estimate based on normal pressure gradient of 0.433)
- BHT: 130 Deg F +/-
- Status:
  - o SITP 680 psig
  - o SICP 120 psig

#### **Objective:** Plug and abandoned well.

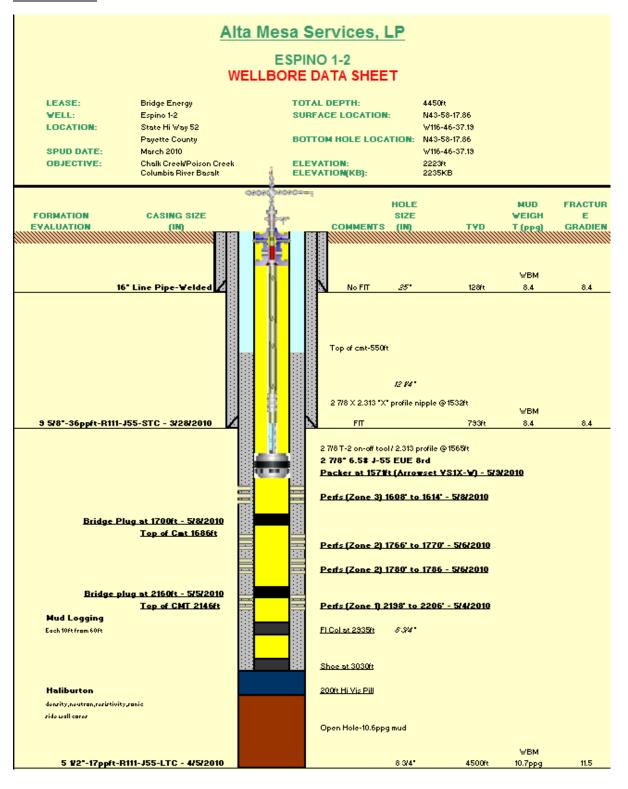
- Operation will be rigless utilizing wireline unit, cmt truck, vac truck and lease crew.
- Squeeze perfs, set CIBP inside tbg near pkr, perf circ holes and spot cmt plug from pkr to surface (cmt plug will be inside tbg and csg 0-1550').

#### **Procedure:**

- 1. Have operators work all valves and ensure normal operations and proper wheel revolutions. Confirm that the top most valve is holding.
- 2. Bleed down tbg and csg to cellar if possible before MIRU P&A spread arrives.
- 3. MIRU ELU, 5K pressure control Cmt pump truck and 3 vac trucks (260 bbls FW plus one empty vac truck for returns).
- 4. JSA
- 5. Hook up pump lines to wing valve. (bring all connections 1", 2", 3" 1502 and LP type thread).
- 6. Test lines 500 / 2500 psi (against wing).
- 7. Test backside 300 psi for 5 mins.
- 8. Open well and displace and gas/fluids back into perfs establish injection rate / pressure into formation (perfs: 1608' 14').
  - a. Max injection pressure, once 8.3 ppg water has reached perfs 400 psi
  - Leave backside open and confirm there is no communication. If there is communication between tbg and csg, call Houston office to discuss next steps. If no communication – proceed to next step.
- 9. Mix 25 sks cmt (5.2 bbls) Plug #1
  - a. Cement Recipe TBD Recipe will be in accordance with API Bulletin E3 per IDL Rules and Regs.
  - b. Anticipate a slurry of Class H Cmt at 1.06 yield 15.6 ppg w/ retarders/LWL additives.
- 10. Pump cmt slurry and displace cmt to perfs (Disp volume = 9.0 bbls) This leaves cmt from bottom perf at 1614' to pkr depth at 1571' (43' cmt) see proposed WBS. <u>4.2 bbls out in perfs and 1.0 bbls left in csg</u>.
- 11. RIH w/ GR to 1560'. POOH. NOTE: Have lub stabbed on crown w/ GR while performing injection and sqz job.
- 12. MU 2 7/8" CIBP. Plug #2
- 13. RIH and set CIBP at 1560'. POOH w/ setting tool. Note: Do not set CIBP in collar.
- 14. Confirm the and csg are full. Top off the csg with 8.3 ppg water as necessary.
- 15. MU 1 9/16" or 2 1/8" RTG and RIH to 1550'.
- 16. RIH to 1550' and pressure up tbg to 100 psi.
- 17. Perforate 1550' 1552' using short penetration circ charges (BH).
  - a. Monitor tbg/csg during perforating and report changes.
- 18. POOH and confirm shots fired.

- 19. Break circulation long way and take returns to empty vac truck (2-3 wellbore volumes at 2-3 BPM).
- 20. Mix Cmt slurry 33 bbls (actual volume and yield TBD)
  - a. Cement Recipe TBD Will be in accordance with API Bulletin E3 per IDL Rules and Regs
  - b. Anticipate a slurry of Class H Cmt at 1.06 yield 15.6 ppg w/ retarders/LWL additives.
- 21. Pump slurry down tbg and take full returns up annulus, spotting entire slurry inside tbg and annulus from 0' 1550' (Full balanced plug inside wellbore). Plug #3
- 22. CWI and SD pumps. Monitor SICP and SITP. Leave well SI overnight (12 hrs)
  - a. NOTE: Will consider plugging all wells (down hole ops only), then return with lease crew to dig bell hole, cut csg/tbg, set surface plug, cap and back fill same after all pumping work is completed.
- 23. RD cementing unit and WLU. MOL.
- 24. Dig bell hole around well head and cellar.
- 25. Remove cellar.
- 26. Check SITP/SICP and blow down same to 0 psig Monitor tbg and csg and confirm no flow.
- 27. ND Tree to 4 bolts and secure entire well head/tree with straps/chains with backhoe.
- 28. Cut windows in 9 5/8" csg at 6' below ground level (Note: will consider making window cuts shallower initially and sever all strings. Then make final cuts and dress off same.
- 29. Cut and sever 5 ½" csg and 2 7/8" tbg from windows and let relax.
- 30. ND tree completely.
- 31. Secure B section with straps/chains with back hoe.
- 32. Make full cut on 9 5/8" (Z pattern) and remove A and B section of well head (make cut flush with 16" conductor 6' below surface.
- 33. Suck out 40 gallons of water (16" x 9 5/8" and 5  $\frac{1}{2}$ " x 9  $\frac{5}{8}$ " annuli).
  - a. Use 0.5' or 1" PVC pipe or hose to suck out or blow out water from these annuli.
- 34. Mix 5 sks cmt (class TBD) and pour into annuli leaving 5' plugs from 11' 6'. Plug #4
- 35. Weld 16" plate on conductor (if accessible if not accessible, plan to weld on 9 5/8" plate to stub).
- 36. Weld on 10' x 4" (min OD) pipe to conductor leaving 4' of pipe sticking up from ground level.
- 37. Back fill bell hole per IDL and land owner requirement (make sure 4' section of pipe is visible and above ground. (NOTE: If land owner disapproves the 4' pipe above ground, will need documentation of land owner provision and forward to IDL for notification.

# **Current WBS**



### Proposed P&A WBS

