

James Thum

From: James Thum
Sent: Wednesday, October 02, 2019 2:29 PM
To: Diane Kassab; Mitch E. Gore
Subject: Re: Idaho - P&A Plan

Categories: Operations & Inspections, Application processing

Thank you Diane. The revisions look ok. Please notify us when you know for certain at least 24 hours in advance of commencing operations.

Thank you,

James

From: Diane Kassab <DKassab@high-mesa.com>
Sent: Wednesday, October 2, 2019 10:42:45 AM
To: James Thum <jthum@idl.idaho.gov>
Subject: RE: Idaho - P&A Plan

Hi James,
Sorry to bother you, but just wanted to be sure we didn't need to provide anything else before we move on location next Tuesday, October 8. We have plugging approvals for all seven wells, however, Mitch had revised a few procedures. Thanks so much.

Diane
281-994-5429

From: James Thum <jthum@idl.idaho.gov>
Sent: Monday, September 30, 2019 11:14 AM
To: Mitch E. Gore <MGore@high-mesa.com>; Mick Thomas <mthomas@idl.idaho.gov>
Cc: Diane Kassab <DKassab@high-mesa.com>
Subject: Re: Idaho - P&A Plan

Hi Mitch,
Thanks for the revisions, I will review them later tonight. The permits to plug are good for one year. The department will require a sundry notice for plugging activity submitted at least 24 hours in advance of commencement of operations with the estimated start date.

Let me know if you have any questions.

Regards,

James

From: Mitch E. Gore <MGore@high-mesa.com<mailto:MGore@high-mesa.com>>
Sent: Monday, September 30, 2019 9:23:55 AM
To: James Thum <jthum@idl.idaho.gov<mailto:jthum@idl.idaho.gov>>; Mick Thomas <mthomas@idl.idaho.gov<mailto:mthomas@idl.idaho.gov>>
Cc: Diane Kassab <DKassab@high-mesa.com<mailto:DKassab@high-mesa.com>>

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: ML Investments #1-10 (Bridge)
- AFE# AMI0015PA1
- API# 11-075-20007
- Field: Willow Hamilton
- County: Payette CO, ID
- Location: Sec 10 TS 8N Rg 4W

Well Info:

- TD: 6802'
- PBTD 4185'
- Current Perfs (open): 4096' – 4101'
- Perfs plugged back: 4225' – 4250'
- Prod Csg – 5 /2" 17# J-55 LTC set at 6515' Hole size – 8.75"
 - FC at 6439'
 - FS at 6515'
- Surface Csg – 9 5/8" 36# J-55 STC set at 836' Hole size – 12.25"
- Tubing – 2 7/8" 6.5# J-55 EU 8rd
- Packer at 4010'
- CIBP at 4200' with 15' cmt (TOC at 4185')
- Well status: Shut in
- BHP: 1840 psi (estimate based on normal pressure gradient of 0.433)
- BHT: 220 Deg F +/-

Objective: Plug and abandoned well. Operation will be rigless utilizing wireline unit, cmt truck and lease crew.

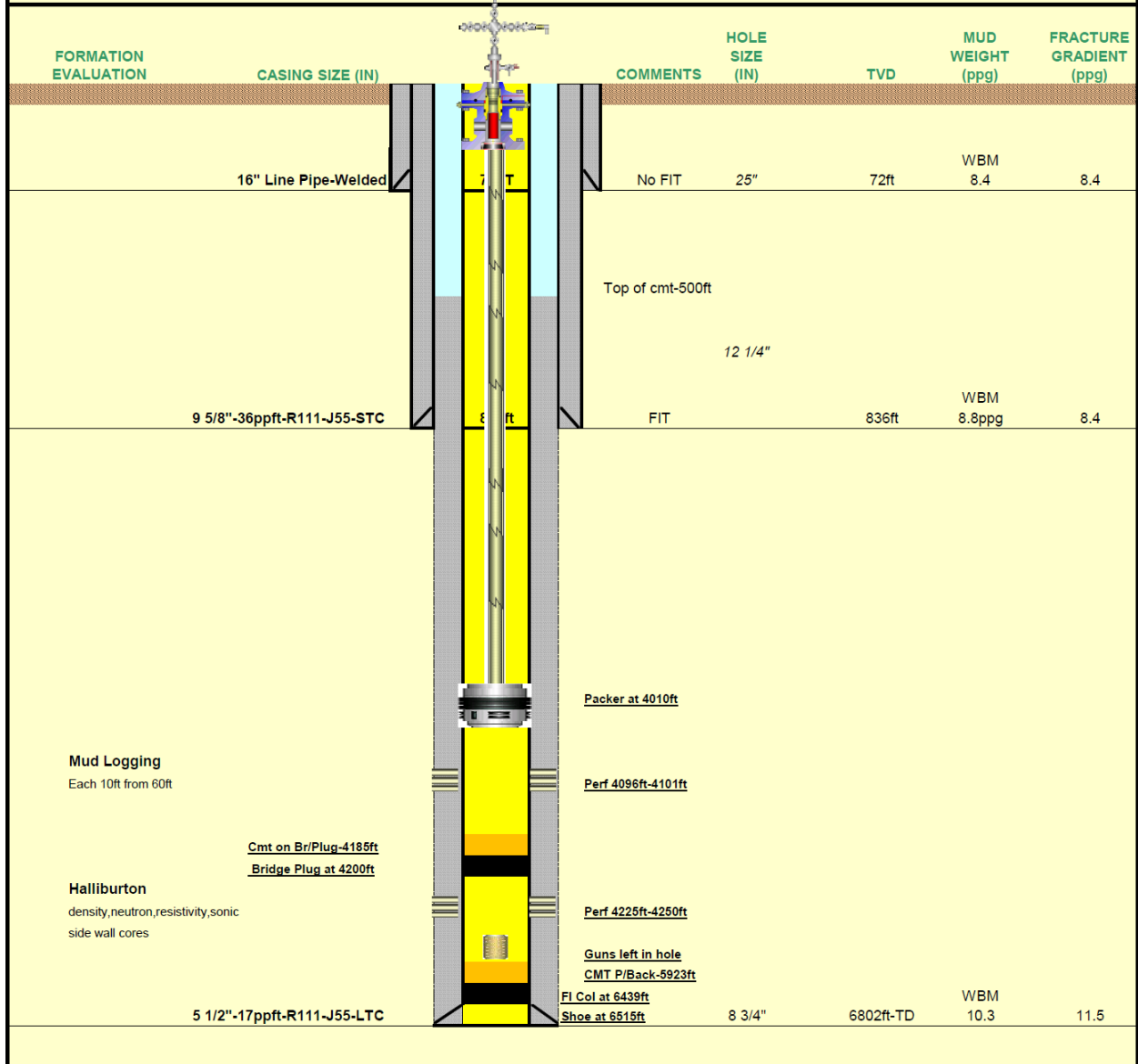
Procedure:

1. MIRU wellhead tech and grease unit.
2. Check SITP / SICP and record same.
3. Grease all valves and work same to ensure all gates seal and can hold pressure.
4. MIRU WLU, 5K pressure control Cmt pump truck and vac truck with Freshwater, flow back tank and lines.
5. Test lines 500/2000 psi.
6. Load/top off annulus with 8.34 ppg FW and test same 300 psig.
7. Establish injection rate into perms.
8. Mix 20 sk slurry and sqz perms – displace with 23.2 bbls FW. **Plug #1**
9. MU GR on WL.
10. RIH to 4000'. POOH.
11. MU CIBP and RIH.
12. Set CIBP at 3995'. **Plug #2**
13. Pressure test CIBP to 500 psig.
14. MU 1 11/16" RTG 6 SPF 60 deg phased (short pen gun for circulating).
15. RIH w/ RTG. Pressure up tbg to 100 psig and perforate tbg at 3990'-92' (5' above CIBP).
16. POOH with RTG.
17. Break circulation long way and take returns to tank (2 wellbore volumes at 2-3 BPM).
18. Mix Cmt slurry – minimum 84 bbls 400 sks (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.
19. Pump slurry down tbg and take full returns up annulus, spotting entire slurry inside tbg and annulus from 0' – 3992' (Full balanced plug inside wellbore). **Plug #3**
20. CWI and SD pumps. Monitor SICP and SITP. Leave well SI overnight (12 hrs)
21. RD cementing unit and WLU. MOL.
22. Dig bell hole around well head and cellar.
23. Remove cellar.
24. Check SITP/SICP and blow down same to 0 psig – Monitor tbg and csg and confirm no flow.
25. Cut window in 9 5/8" csg at 6' below ground level.
26. Cut 5 1/2" csg and 2 7/8" tbg from window and let drop.
27. ND prod tree.
28. 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).
29. Suck out or blow out water from 16" cond and 9 5/8" csg.
30. Mix and pour in 5 sks cmt from 6' to 11'. **Plug #4**
31. Weld 16" plate on conductor.
32. MOL.

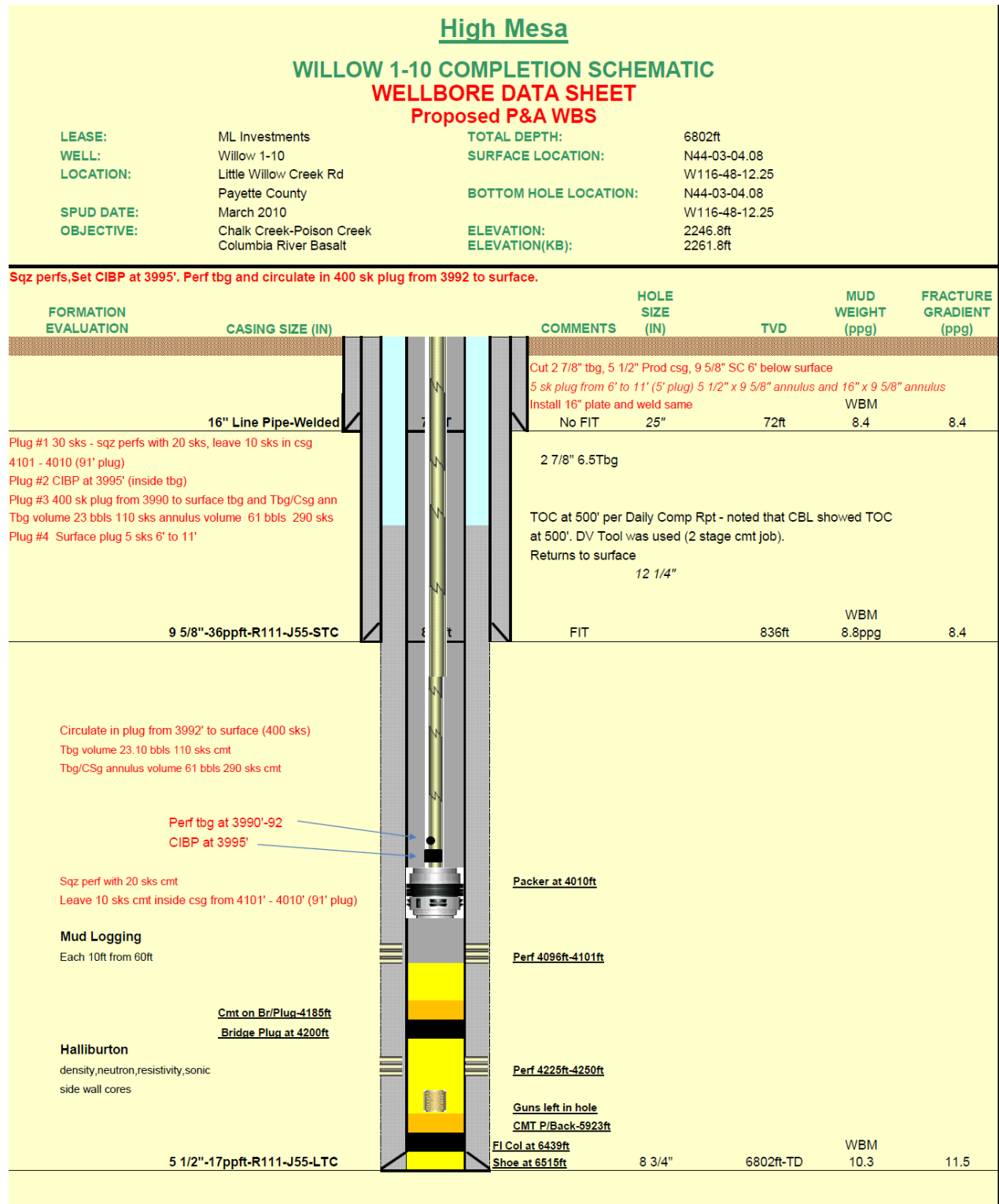
Current WBS

High Mesa WILLOW 1-10 COMPLETION SCHEMATIC WELLBORE DATA SHEET

LEASE: ML Investments	TOTAL DEPTH: 6802ft
WELL: Willow 1-10	SURFACE LOCATION: N44-03-04.08
LOCATION: Little Willow Creek Rd Payette County	BOTTOM HOLE LOCATION: N44-03-04.08
SPUD DATE: March 2010	W116-48-12.25
OBJECTIVE: Chalk Creek-Poison Creek Columbia River Basalt	ELEVATION: 2246.8ft
	ELEVATION(KB): 2261.8ft



Proposed WBS



Procedure modification requested and approved 10/24/2019:

James – Just a follow up to my call earlier on the ML 1-10 variance.

Last 24 hrs:

- Sqz'd perms
- Set CIBP inside 2 7/8" tbg at 3995' and tested to 500 psig.
- SDFN
- RIH with 1 9/16" perf gun and set down at 3798' (192' high to proposed perf depth of 3990').
- Called IDL – Received approval to perf at 3798'.

Will spot plug from 3798' – Surface.

Mitch Gore – HMM