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

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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

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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: Island Capital 1-19
- AFE# AMI0013PA1
- API# 11-075-20009
- Field: Willow – Hamilton
- Payette County, ID

Well Info:

- TD: 4384’ ACTR Log 4/15/10
- PBTD 3110’ CIBP
- Current Perfs: 3178’ - 86’
- Prod Csg – 5 /2” 17# J-55 LTC set at 4381’ Hole size – 8.75”
    - FC at 4306’
    - FS at 4381’
- Surface Csg – 9 5/8” 36# J-55 STC set at 868’ Hole size – 12.25”
- Tubing – N/A
- Packer – N/A
- Well status: Shut in
- Well head Info: A Sec: 9 5/8” x 11”3/5M SOW B Sec: 11” 3/5M x 7 1/16” 3/5M TH with 7 1/16” 3/5M Dry hole flange.
- BHP: 1378 psi (estimate based on normal pressure gradient of 0.433) MP 3,182’ (below plug)
- BHT: 176 Deg F +/- Hall ACTR 4/15/10 Max temp recorded
- Status:
    - SICP 0 psig

Objective: Plug and abandoned well. Operation will be rigless utilizing wireline unit, cmt truck, vac truck and lease crew. Plan to Bull head cement from surface and displace 5 ½" Csg with Cement, leaving a 2,719' plug (Surface – 2,719'). Will perforate a sand at 2719-24' in order to pump in and spot plug inside 5 ½" Csg. See proposed P&A WBS. NOTE: Reason for setting CIBP above existing perfs is so a pressure test can be done on the csg to prove its integrity prior to bull heading cmt.

Procedure:

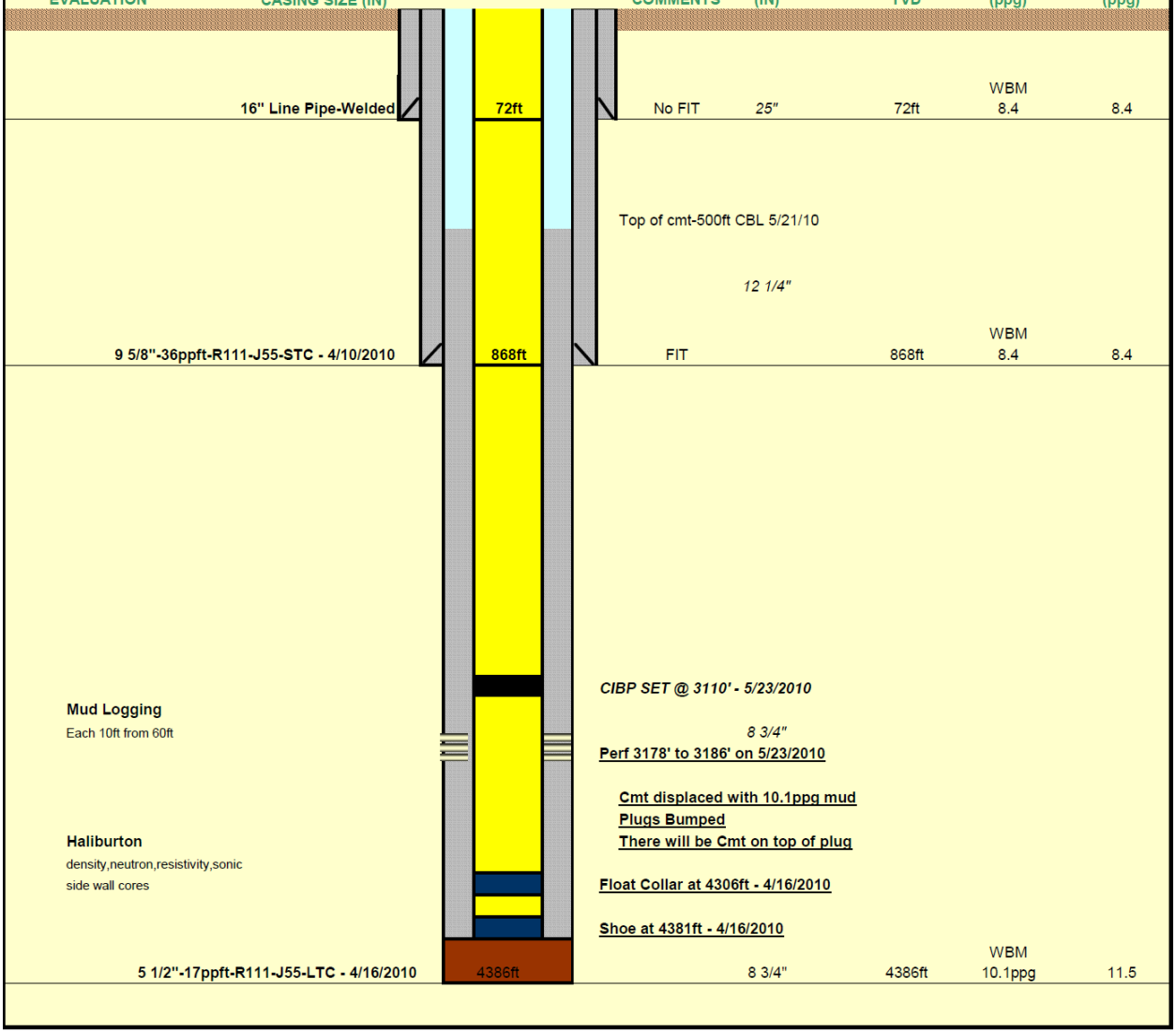
1. MIRU well head tech and forklift.
2. JSA
3. Check pressures on Prod csg and Surf csg and record same. Expect well to be dead – CIBP over perfs at 3110'.
4. Open needle valves and insure well is dead (monitor for 30-45 mins).
5. MIRU Pump truck with 130 bbls 8.3 ppg produced water from Little Willow facility.
6. ND 7 1/16" 5M dry hole flange and NU 7 1/16" 5M gate valve.
7. Tie-into side outlet ball valve, close gate valve and test 5 ½" Csg and gate valve to 1000 psig for 5 mins.
8. MIRU ELU and cement unit – 5K lubricator, additional 5 ½" CIBP incase current CIBP doesn't hold during pressure test.
9. JSA
10. MU GR/JB.
11. Test lubricator 500/1000 psig.
12. RIH with GR/JB gamma/CCL to 3110'. Tie-into Halliburton ACTR 4/15/10 log. POOH.
13. MU 2.5" RTG on CCL.
14. RIH and perforate 2719-24' 6 SPF 60 deg phased. POOH.
15. Establish injection rate into zone.
16. Mix Cmt slurry – 63 bbls 300 sks (actual volume and yield TBD) Plug #1
    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.
17. Bull head cmt slurry down 5 ½" Csg leaving 2719' cmt plug from surface to 2719'.
18. CWI after displacing cmt.
19. RD Cementing unit / ELU
20. WOC for 24 hrs monitoring SICP and SISCP
21. Open well and confirm no bleed back.
22. Check SISCP and insure both csg strings are dead.
23. Dig bell hole around well head and cellar.
24. Remove cellar.
25. ND 7 1/16" 5K gate valve.
26. Cut window in 9 5/8" csg at 6' below ground level.
27. Cut 5 ½" csg from window and let relax.
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.
29. Mix cmt leaving 5' plug inside 9 5/8" Csg and 9 5/8" x 16" from 6' to 11' Plug #2
30. Weld 16" plate on conductor.
31. Back fill bell hole. MOL.

Current WBS

Alta Mesa Services, LP

ISLAND CAPITAL 1-19
WELLBORE DATA SHEET

LEASE:	ML Investments	TOTAL DEPTH:	4386ft
WELL:	Island Capital 1-19	SURFACE LOCATION:	N44-06-.93
LOCATION:	Little Willow Creek Rd		W116-44-.71
	Payette County	BOTTOM HOLE LOCATION:	N44-06-.93
SPUD DATE:	April 9, 2010		W116-44-.71
OBJECTIVE:	Chalk Creek/Poison Creek Columbia River Basalt	ELEVATION: ELEVATION(KB):	2373.3ft 2385.3ft



Proposed P&A WBS

Alta Mesa Services, LP

ISLAND CAPITAL 1-19

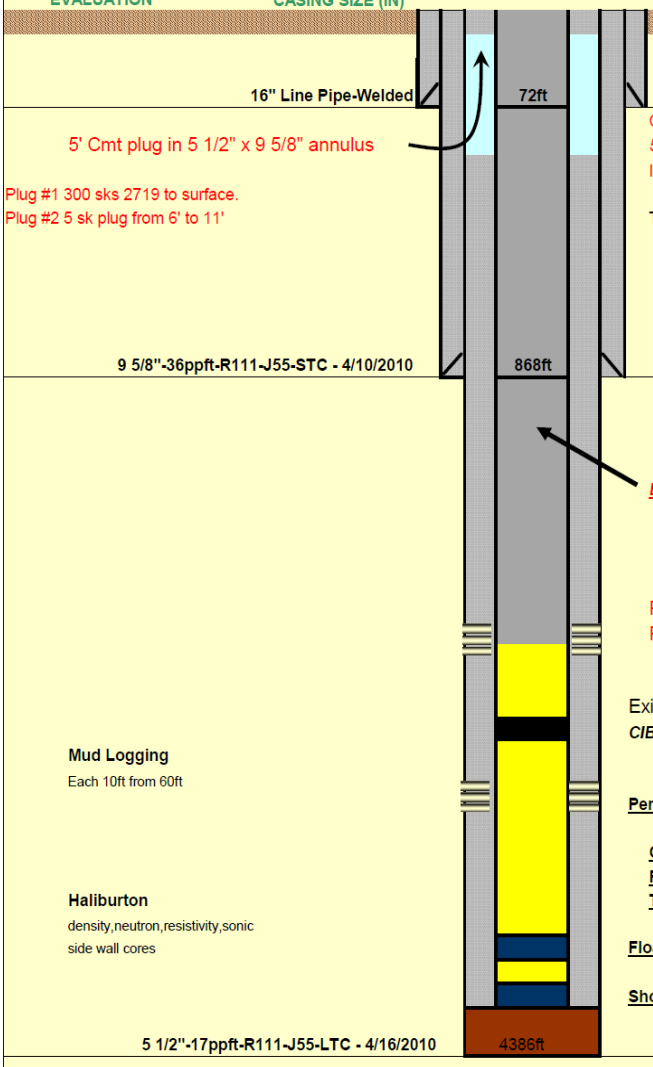
WELLBORE DATA SHEET

Proposed WBS - P&A

LEASE:	ML Investments	TOTAL DEPTH:	4386ft
WELL:	Island Capital 1-19	SURFACE LOCATION:	N44-06-.93
LOCATION:	Little Willow Creek Rd		W116-44-.71
	Payette County	BOTTOM HOLE LOCATION:	N44-06-.93
SPUD DATE:	April 9, 2010		W116-44-.71
OBJECTIVE:	Chalk Creek/Poison Creek Columbia River Basalt	ELEVATION: ELEVATION(KB):	2373.3ft 2385.3ft

Perforate at 2719-24', bull head 63 bbls 300 sks cmt leaving cmt from 2719 to surface.

FORMATION EVALUATION	CASING SIZE (IN)	COMMENTS	HOLE SIZE (IN)	TVD	MUD WEIGHT (ppg)	FRACTURE GRADIENT (ppg)
	16" Line Pipe-Welded 72ft	No FIT	25"	72ft	WBM 8.4	8.4
	9 5/8"-36ppft-R111-J55-STC - 4/10/2010 868ft	FIT	12 1/4"	868ft	WBM 8.4	8.4
Mud Logging Each 10ft from 60ft Haliburton density,neutron,resistivity,sonic side wall cores	5 1/2"-17ppft-R111-J55-LTC - 4/16/2010 4386ft		8 3/4"	4386ft	WBM 10.1ppg	11.5



5' Cmt plug in 5 1/2" x 9 5/8" annulus

Plug #1 300 sks 2719 to surface.
Plug #2 5 sk plug from 6' to 11'

Cut 5 1/2" Prod csg, 9 5/8" SC 6' below surface
5 sk plug from 6' to 11' (5' plug) 5 1/2" x 9 5/8" annulus and 16" x 9 5/8" annulus
Install 9 5/8" plate and weld same
5 1/2" Csg TOC
Top of cmt-500ft CBL 5/21/10

Bull head 63 bbls Cmt down 5 1/2" csg from 2719' - 0' (surface)

Proposed Perfs to bull head cmt from 2719 - 0' (surface)
Perforate: 2719' - 24' 6 SPF 0 deg phased

Existing CIBP
CIBP SET @ 3110' - 5/23/2010

Perf 3178' to 3186' on 5/23/2010

Cmt displaced with 10.1ppg mud
Plugs Bumped
There will be Cmt on top of plug

Float Collar at 4306ft - 4/16/2010

Shoe at 4381ft - 4/16/2010

Halliburton OHL