

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: Tracy Trust #3-2

API#11-075-20011

Field: Hamilton

County: Payette Co, ID

Well Info:

- TD 2805
- PBDT 2510
- Current Perfs
- Well head: 2 9/16" 5M FE with 2 7/8" EU 8rd top connection
- Prod Csg 5 1/2" 17# J-55 LTC
- Surface Csg
- Tbg 2 7/8" 6.5# J-55 EU tbg
- Pkr AS1X @ 1474'
- Well Status: SI
- SITP 700 psi
- SICP 250 psi

Objective:: P&A Well

- Rigless operation using WLU, cmt truck, vac trucks, lease crews
- Due to TOC on Prod csg being below the surface csg shoe, will attempt to perform top job on surface csg and spot cmt across surf shoe and to surface.
- Install CIBP at 1465' (Tbg)
- Perforate tbg and circulate in cmt plug from 1460' to surface leaving cmt inside tbg and tbg/csg annulus.

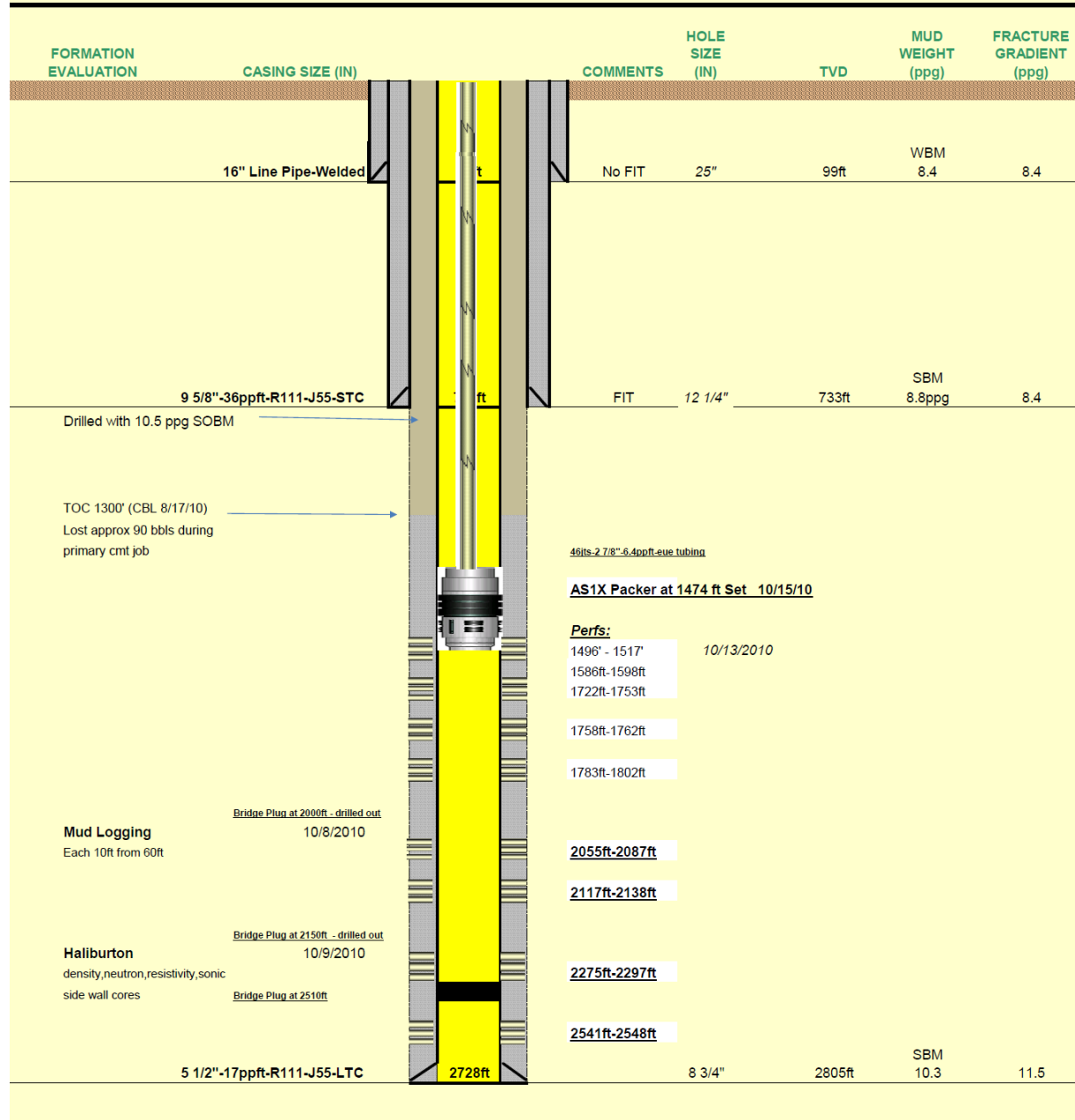
Procedure:

1. MIRU P&A spread (WLU, Cmt unit, vac trucks).
2. JSA
3. Take pressures and record same.
4. MU lines and test 500 / 2000 psi.
5. Test backside 300 psi.
6. Leave 300 psi on backside, and tie onto 9 5/8" csg.
7. Attempt to inject down 9 5/8" csg (NOTE: If injection cannot be established, plan to move forward with "Scenario 2 or Scenario 3" – See proposed P&A WBS below for Scenario 2 and 3.
8. Record inj rates/pressures.
9. Perform top job on 9 5/8" csg. (Plug #1)
 - a. Mix 190 sks slurry 40 bbls and displace 9 5/8" csg down to 840' +/- leaving cmt between 5 1/2" x 9 5/8" annulus and in OH section below 9 5/8" csg shoe from 733' to 840'.
10. Perform injection test down tbg.
11. Mix cmt slurry and sqz perfs. (Plug #2)
 - a. Slurry volume 100 sks cmt 21 bbls
 - b. Sqz out 42 sks into perfs
 - c. Leave 58 sks inside csg - 801' plug
 - d. Displace with 8.5 bbls FW
12. RIH with GR to 1470'. POOH.
13. RIH with CIBP and set same at 1465'. (Plug #3)
14. RIH with RTG and perf at 1460' with short pen gun for circulating.
15. Break circulation 2 full wellbores (62 bbls).
16. Mix 146 sk slurry (30 bbls).
17. Pump slurry and spot cmt plug inside tbg and tbg/csg annulus from 1460' to surface. (Plug #4)
18. SDFN.
19. MIRU lease crew and back hoe.
20. Check SITP/SICP/SISCP and confirm all strings are dead.
21. Dig bell hole around well head.
22. Cut windows in 9 5/8" csg and make cuts on 5 1/2" csg and 2 7/8" tbg.
23. Remove prod tree.
24. Secure AB and B section with backhoe/chains/straps.
25. Make cut on 9 5/8" csg and remove all well head sections with cut strings (use zig zag technique)
26. Make final cuts on 16" cond, 9 5/8", 5 1/2" and 2 7/8" tbg flush at 6' below surface.
27. Use 1" hose and suck our blow out water from along side 9 5/8" csg x 16" annulus.
28. Mix 5 sks cmt and pour into annulus. (Plug 5)
29. Weld on 16" plate and back fill bell hole.
30. MOL.

Current WBS

AM Idaho, LLC
TRACY TRUST 3-2
WELLBORE DATA SHEET
Current WBS

LEASE:	Bridge Energy Inc	TOTAL DEPTH:	2815ft
WELL:	Tracy Trust 3-2	SURFACE LOCATION:	N43-58-22.720
LOCATION:	Sect 2/Township 7N/Range 4W	BOTTOM HOLE LOCATION:	W116-47-19.085
	Payette County		N43-58-22.720
SPUD DATE:	August		W116-47-19.085
OBJECTIVE:	Hamilton Sands	ELEVATION:	2246ft
		ELEVATION(KB):	2263ft



Proposed P&A WBS

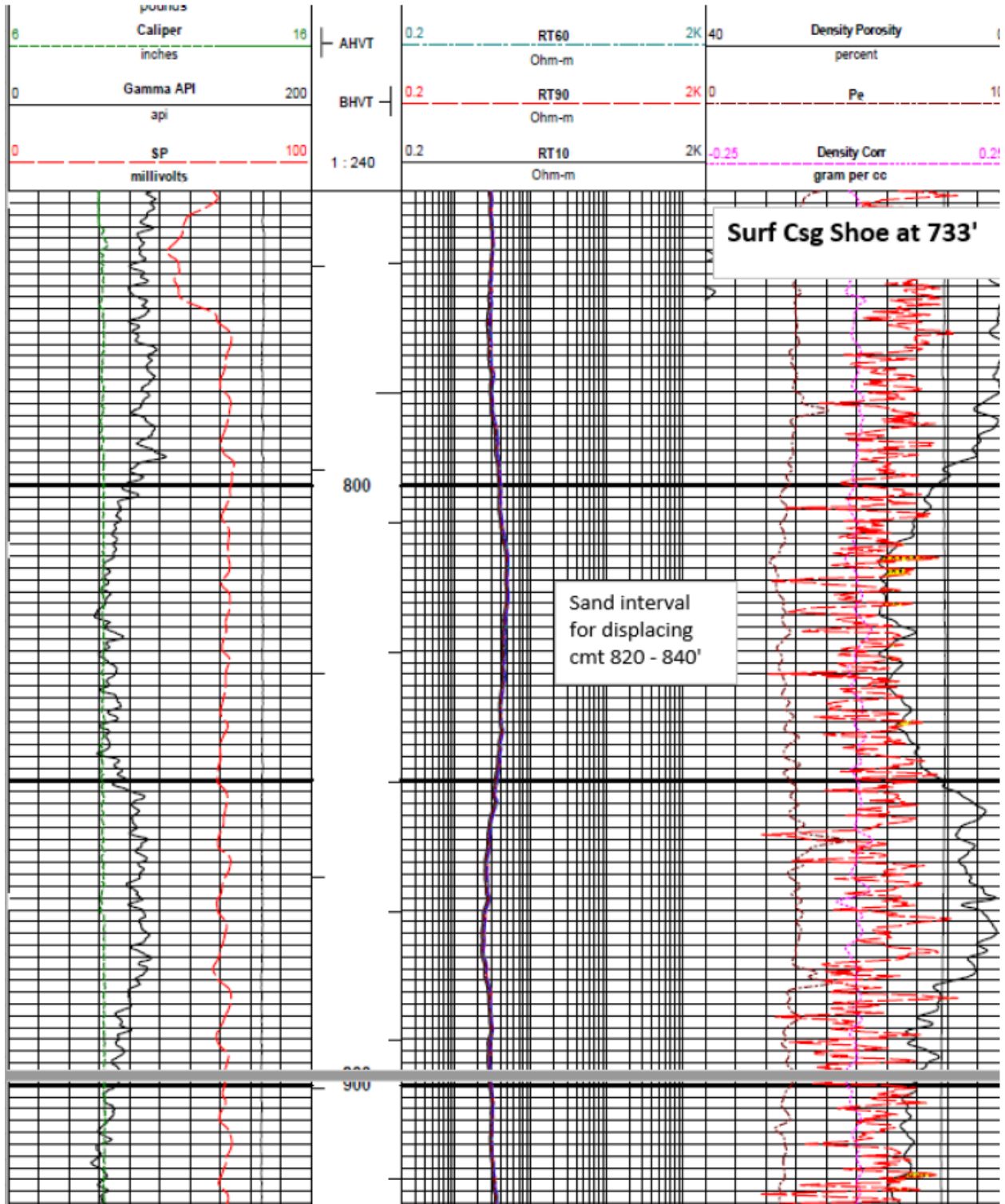
AM Idaho, LLC
TRACY TRUST 3-2
WELLBORE DATA SHEET
Proposed P&A WBS - Scenario 1

LEASE:	Bridge Energy Inc	TOTAL DEPTH:	2815ft
WELL:	Tracy Trust 3-2	SURFACE LOCATION:	N43-58-22.720
LOCATION:	Sect 2/Township 7N/Range 4W	BOTTOM HOLE LOCATION:	W116-47-19.085
	Payette County		N43-58-22.720
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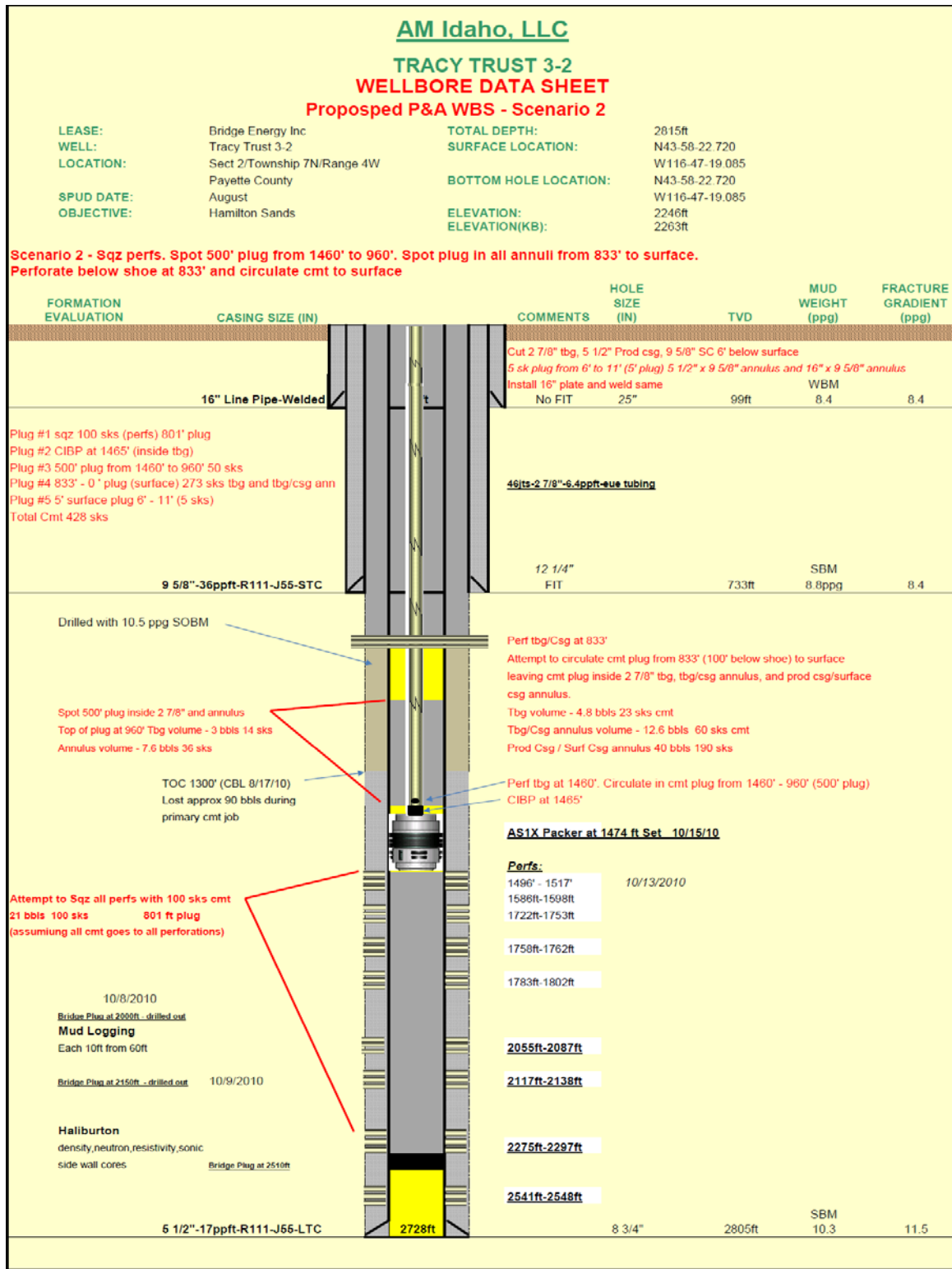
Scenario 1 - Sqz perms. Attempt to inject into OH via 9 5/8" csg and perform top job from surface. Displace entire 5 1/2" x 9 5/8" annulus with cmt
If top job can be done, plan to circulate long plug in from 1460' to surface inside tbg and tbg/csg annulus.

FORMATION EVALUATION	CASING SIZE (IN)	COMMENTS	HOLE SIZE (IN)	TVD	MUD WEIGHT (ppg)	FRACTURE GRADIENT (ppg)
	16" Line Pipe-Welded	Cut 2 7/8" tbg, 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 16" plate and weld same	No FIT	25"	99ft	WBM 8.4
Plug #1 - Top job 40 bbls 190 sks 840' to surface Plug #2 Sqz perms with 100 sks (42 sks out, 58 sks inside) Plug #3 CIBP inside 2 7/8" tbg at 1465' Plug #4 146 sks plug circulate in plug from 1460' to surface on tbg and tbg/csg annulus. Plug #5 - Surface plug 5 sks from 6' - 11' (5') Total Sks 441 sks						
	9 5/8"-36ppft-R111-J55-STC	FIT	12 1/4"	733ft	SBM 8.8ppg	8.4
Drilled with 10.5 ppg SOBMs TOC 1300' (CBL 8/17/10) Lost approx 90 bbls during primary cmt job		Sand present from 810-840 Halliburton OHL 8/14/10 If injection into this sand package can be established, will plan to perform top down job from surface and displace 9 5/8" x 5 1/2" annulus with cmt. 840' to surface 190 sks cmt 40 bbls <u>46jts-2 7/8"-6.4ppft-eue tubing</u> <u>AS1X Packer at 1474 ft Set 10/15/10</u>				
Perf tbg at 1460'. Circulate in cmt plug from 1460' - surface' Tbg vol 8.5 bbls 41 sks annulus vol 22.2 bbls 146 sks cmt CIBP at 1465' Attempt to Sqz all perms with 100 sks cmt 21 bbls - 100 sks total 12.17 bbls inside csg 58 sks 801' plug 9 bbls in formation 42 sks		<u>Perfs:</u> 1496' - 1517' 10/13/2010 1586ft-1598ft 1722ft-1753ft 1758ft-1762ft 1783ft-1802ft				
Mud Logging Each 10ft from 60ft Bridge Plug at 2000ft - drilled out 10/8/2010 Haliburton density,neutron,resistivity,sonic side wall cores Bridge Plug at 2150ft 10/9/2010 Bridge Plug at 2510ft		<u>2055ft-2087ft</u> <u>2117ft-2138ft</u> <u>2275ft-2297ft</u> <u>2541ft-2548ft</u>				
	5 1/2"-17ppft-R111-J55-LTC			2728ft	8 3/4"	SBM 10.3
				2805ft		11.5

Log Section – Sand at 830' +/-



Scenario 2 Contingency



Scenario 3 Contingency

