## **James Thum**

From:	James Thum
Sent:	Wednesday, October 02, 2019 2:29 PM
То:	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 From: James Thum Sent: Monday, September 30, 2019 11:14 AMTo: Mitch E. Gore MGore@high-mesa.com>; Mick Thomas 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

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
- PBTD 2510
- Current Perfs
- Well head: 2 9/16" 5M FE with 2 7/8" EU 8rd top connection
- Prod Csg 5 ½" 17# J-55 LTC
- Surface Csg
- Tbg 2 /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.
- 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  $5 \frac{1}{2}$ " 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



# Proposed P&A WBS

AM Idaho, LLC								
TRACY TRUST 3-2								
WELLBORE DATA SHEET								
	Pro	posed P&	A WBS -	Scenario 1				
LEASE: WELL:	Bridge Energy Inc Tracy Trust 3-2		SURFACE	EPTH:	2815ft N43-58	-22 720		
LOCATION:	Sect 2/Township 7N/Rang	je 4W			W116-4	7-19.085		
	Payette County		BOTTOM	HOLE LOCATION	N: N43-58	-22.720		
OBJECTIVE:	August Hamilton Sands		ELEVATIO	DN:	2246ft	19.085		
			ELEVATIO	ON(KB):	2263ft			
Scenario 1 - Sqz perfs. Attem	pt to inject into OH via 9 5/8"	csg and perfo	rm top job fr	om surface. Disp	place entire 5 1/2	" x 9 5/8" annu	lus with cmt	
lf top job can be done, plan to	o circulate long plug in from	1460' to surfac	e inside tbg	and tbg/csg ann	ulus.			ED A OTUDE
FORMATION					HOLE SIZE		MUD WEIGHT	FRACTURE GRADIENT
EVALUATION	CASING SIZE (IN)			COMMENTS	(IN)	TVD	(ppg)	(ppg)
				Cut 2.7/9" that 5.1	/2" Prod.ccg. 0.5/9	SC 6' bolow su	faco	
		W.		5 sk plug from 6' to	o 11' (5' plug) 5 1/2	" x 9 5/8" annulu	s and 16" x 9 5/8	" annulus
				Install 16" plate an	nd weld same		WBM	
Plug #1 - Top job 40 bbls 400 s	16" Line Pipe-Welded			No FIT	25"	99ft	8.4	8.4
Plug #2 Sqz perfs with 100 sks (4	2 sks out, 58 sks inside	N.						
Plug #3 CIBP inside 2 7/8" tbg a	at 1465'							
Plug #4 146 sks plug circulate i	n plug from 1460' to surface							
on tog and tog/csg annulus. Plug #5 - Surface plug 5 sks fro	im 6' - 11' (5')							
Total Sks 441 sks		NV.						
9 5	/8"-36ppft-R111-J55-STC			FIT	12 1/4"	733ft	SBM 8.8ppg	8.4
Drilled with 10.5 ppg S	OBM							
		→ IN	Sa	ind present from 8	310-840 Halliburto	n OHL 8/14/10		
TOO 40001 (ODL 0/47/4/	2)		lfi	njection into this s	and package can	be established	, will plan to	
Lost approx 90 bbls duri	)		pe 84	0' to surface 190	sks.cmt_40.bbls	u uispiace 9 5/6	x 3 1/2 annui	us with chit.
primary cmt job				46jts-2 7/8"-6.4pp	oft-eue tubing			
Perf the at 1460'. Circulate in cr	mt plug from			AS1X Packer at	1474 ft Set 10/1	5/10		
1460' - surface' Tbg vol 8.5 bbls	s 41 sks annulus vol 22.2 bbls			Perfs:				
146 sks cmt				1496' - 1517'	10/13/2010			
CIBP at 1465'				1586ft-1598ft				
Attempt to Sqz all perfs with 10	0 sks cmt			1722IL-1753II				
21 bbls 100 sks total				1758ft-1762ft				
12.17 bbls inside csg 58 sks 80	11' plug			17000 1000				
9 bbls in formation 42 sks				1/83ft-1802ft				
	Bridge Plug at 2000ft - drilled out							
Mud Logging	10/8/2010							
Each 10ft from 60ft				2055ft-2087ft				
				2117ft-2138ft				
Haliburton	Bridge Plug at 2150ft - drilled out							
density, neutron, resistivity.s	sonic			2275ft-2297ft				
side wall cores	Bridge Plug at 2510ft							
				05448-05408				
				2041tt-2548ft			SBM	
5 1	/2"-17ppft-R111-J55-LTC	<b>2728f</b>	t 🔨		8 3/4"	2805ft	10.3	11.5

#### Log Section - Sand at 830' +/-



## Scenario 2 Contingency

		AM Io	laho, LLC				
		TRACY	TPUST 3.2				
TRACY TRUST 3-2 WELLBORE DATA SHEET							
	Proposp	ed P&A	VBS - Scenario 2	2			
LEASE:	Bridge Energy Inc	т	OTAL DEPTH:	2815ft			
WELL:	Tracy Trust 3-2 Sect 2/Township 7N/Pange 4W	sı ,	URFACE LOCATION:	N43-58-22 W116-47	2.720		
LOCATION.	Payette County	B	OTTOM HOLE LOCATIO	N: N43-58-22	2.720		
SPUD DATE:	August	_		W116-47-	19.085		
OBJECTIVE:	Hamilton Sands	EI	LEVATION: LEVATION(KB):	2246ft 2263ft			
Scopario 2 - Soz porfe	Spot 500' plug from 1450' to 0	50' Spot plu	in all annuli from 9	22' to curface			
Perforate below shoe a	at 833' and circulate cmt to surf	ace	ig in an annun nom a	ss to surface.			
CODMATION				HOLE		MUD	FRACTURE
EVALUATION	CASING SIZE (IN)		COMMENTS	SIZE (IN)	TVD	(ppg)	(ppg)
		4	Cut 2 7/8" tbg, 5 1/ 5 sk plug from 6' to	/2" Prod csg, 9 5/8" S 2 11' (5' plug) 5 1/2" x	C 6' below surf 9 5/8" annulus	ace and 16" x 9 5/8".	annulus
			Install 16" plate an	d weld same	0 0 0 0 0 0 0 0 0 0	WBM	
	16" Line Pipe-Welded	- <u>*</u>	No FIT	25"	99ft	8.4	8.4
Plug #1 sgz 100 sks (perfs) 8	801' plug						
Plug #2 CIBP at 1465' (inside	e tbg)						
Plug #3 500' plug from 1460'	to 960' 50 sks		40km 0 7/011 0 4mm				
Plug #5 5' surface plug 6' - 1	1' (5 sks)		46jt5-2 //8**6.4ppft	-eue tubing			
Total Cmt 428 sks							
			12 1/4"			SBM	
ş	9 5/8"-36ppft-R111-J55-STC		FIT		733ft	8.8ppg	8.4
Drilled with 10.5 ppg	g SOBM		Perf tha/Cea at 93	2'			
		1111	Attempt to circulate	e cmt plug from 833' (	100' below sho	e) to surface	
			leaving cmt plug in	side 2 7/8" tbg, tbg/cs	g annulus, an	d prod csg/surface	
		- M	csg annulus.	hts 00 also and			
Top of plug at 960' Tbg	volume - 3 bbis 14 sks		Tbg volume - 4.8 b Tbg/Csg annulus v	olis 23 sks cmt olume - 12.6 bbls 60	sks cmt		
Annulus volume - 7.6 b	obls 36 sks		Prod Csg / Surf Cs	sg annulus 40 bbls 19	0 sks		
	TOC 1300' (CBL 8/17/10)		Perf tbg at 1460'.	Circulate in cmt plu	g from 1460	- 960' (500' plug)	
ſ	primary cmt job						
			AS1X Packer at	1474 ft Set 10/15/	10		
			Perfs:				
			1496' - 1517'	10/13/2010			
Attempt to Sqz all perfs with	100 sks cmt		1586ft-1598ft 1722ft-1753ft				
(assumiung all cmt goes to all p	perforations)		TILL TOOL				
			1758ft-1762ft				
			17830-18020				
10/8/2010			T CON TOOLA				
Bridge Plug at 2000ft - drille	ed out						
Each 10ft from 60ft			2055ft-2087ft				
Bridge Plug at 2150ft - drille	ed out 10/9/2010		2117ft-2138ft				
	$\setminus$						
Haliburton	\		00755 00075				
density,neutron,résistiv side wall cores	Bridge Plug at 2510ft		22/5ft-229/ft				
			2541ft-2548ft			SBM	
	5 1/2"-17ppft-R111-J55-LTC	2728ft		8 3/4"	2805ft	10.3	11.5

# Scenario 3 Contingency

		AM	Idaho	o, LLC				
		TRAG		UST 3-2				
	N	/ELLBC	RE D	ATA SHEE	т			
	Propos	ped P&	A WBS	- Scenario	3			
LEASE: WELL:	Bridge Energy Inc Tracy Trust 3-2		SURFAC	EPTH: E LOCATION:	2815ft N43-5	8-22.720		
LOCATION:	Sect 2/Township 7N/Range 4	w			W116-	47-19.085		
SPUD DATE:	Payette County August		BOTTON	I HOLE LOCATIO	N: N43-58 W116-	8-22.720 -47-19.085		
OBJECTIVE:	Hamilton Sands		ELEVATI	ON:	2246ft	10.000		
			ELEVAII	ON(KB):	2263ft			
below surf shoe a	or injection established on 9 nd sqz shoe with 50sks each	) 5/8" csg. n, circulate	cmt bac	s, circulate in 5 k to surface on	tbg and tbg/c	1460°-960°, Sq sg annulus fro	z 100 <sup>.</sup> om 733' to si	urface.
FORMATION					HOLE	Ŭ	MUD	FRACTURE
EVALUATION	CASING SIZE (IN)			COMMENTS	(IN)	TVD	(ppg)	(ppg)
			Λ I I	Out 0.7/0" the .5.4	/2" Deed ever 0.5/	)" CC Cl below and		
		11		5 sk plug from 6' t	o 11' (5' plug) 5 1/.	2" x 9 5/8" annulus	ace and 16" x 9 5/8	" annulus
	16" Line Dine Welded	11.		Install 16" plate an	nd weld same	00#	WBM	0.4
	l'plug	- 1 <u>-</u>		NO FIT	20	991	0.4	0.4
Plug #2 CIBP at 1465' (inside th	og)	N.						
Plug #3 500' plug inside tog and Plug #4 Sgz perfs at 833' 100 sl	d tog/csg annulus 50 sks ks			46jts-2 7/8"-6.4ppf	t-eue tubing			
Plug #5 Sqz perfs at 733' 100 sl	ks							
Plug #6 73 sk plug from 733' to Plug #7 - 5 sks plug 6' to 11' (5'	surface tbg and tbg/csg			Tbg volume - 4.24 Tbg/Csg annulus	bbls 20 sks cmt 7 - 11.14 bbls 53 sks	'33' s cmt 733'		
		N.					SBM	
Total sks 428 9 5/	/8"-36ppft-R111-J55-STC			FIT	201	733ft	8.8ppg	8.4
Drilled with 10.5 ppg S	OBM		7	If well cannot be c	33 <sup>.</sup> irculated to surfac	e csg and to surfa	ce.	
	833'	- N		plan to sqz with <u>1</u>	00 sks cmt 21 bbl	<u>s</u>		
				Leave 100' baland	ed plug inside tbg	/csg from 833' to 7	33' (shoe depth	). WOC 12 hrs
	1			Perf tbg/csg at 73	3' (surf csg shoe) a	and attempt to circ	ulate to surface.	
				If well circulates -	plan to spot cmt pl	lug from 733' to su	rface on all strin	gs.
Spot 500' plug inside 2 7/8" Top of plug at 960' The yold	' and annulus	- M		If well does not cir Then take returns	culate - Plan to sq	z again - <u>100 sks</u> is and spot cmt plu	<u>cmt 21 bbls</u> a from 733' to si	urface
Annulus volume - 7.6 bbls 3	36 sks			inside tbg and tb	g/csg annulus.		g	
				-				
Lost	t approx 90 bbls during	∖		- CIBP at 1465'	. Circulate în cmt	piug from 1460	- 960 (500 più	g)
primary cmt job								
				ASTA Packer at	1474 It Set 10/	15/10		
		=		Perfs:	10/10/0010			
Attempt to Sqz all perfs with 100	sks cmt			1496' - 1517' 1586ft-1598ft	10/13/2010			
21 bbls 100 sks 801 ft p	olug			1722ft-1753ft				
(assumiung all cmt goes to all perfo	orations)			1758ft-1762ft				
	\ Ī							
10/8/2010				1783ft-1802ft				
Bridge Plug at 2000ft - drilled out	<u>t</u>							
Mud Logging				2055# 2087#				
Each foil from out	\ Ī			200011-200711				
Bridge Plug at 2150ft - drilled ou	<u>at</u> 10/9/2010			2117ft-2138ft				
Haliburton	\ ا			2275# 2227#				
side wall cores	Bridge Plug at 2510ft			22/01-229/10				
				05444 05404				
				<u>294111-254811</u>			SBM	
5 1/	/2"-17ppft-R111-J55-LTC	2728ft			8 3/4"	2805ft	10.3	11.5