

## Plug and Abandonment Procedure - Proposed

**Well Name:** TBI FEDERAL 36-12C (PF36)  
**API:** 05-045-10362

**Version:** FINAL  
**Date:** 3/14/23

- 1) Notify the BLM office and the COGCC at least 48 hours before plugging operations commence with a Form 42. Ensure proper ground disturbance forms have been completed, one call for utility identification has been done and proper paperwork is on location.
- 2) Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
- 3) Record all casing pressures as found, note in WellView.
- 4) Ensure a Bradenhead Test has already been completed and a Form 17 has been submitted. (test consists of using gauges to monitor production casing and tubing pressures, as surface casing (bradenhead) is opened and pressures are recorded at five-minute intervals for 30 minutes.). If not completed, notify production engineer.
- 5) MIRU workover unit. Kill well if necessary. ND wellhead, NU BOP.
- 6) Test and chart BOPs as per regulations.
- 7) Unland tubing and TOOH.
- 8) RU Wireline and RIH w/ CIBP. Set CIBP 50' above top perf and POOH w/ WL.  
Plug Size: 5.500in 17.00# Set Depth (ft): 4,602
- 9) Perform 500 psi pressure test for 15 minutes. Record pressure test results in WellView. If not successful, notify production engineer.
- 10) RU Wireline and run CBL to surface to determine where to place squeeze plug to eliminate bradenhead pressure.
- 11) TIH w/ tubing. Mix and pump class G neat cement plug. Pick up above top of cement and circulate clean.

Est TOC (ft):	4,456	Plug Description:	Top Perf Plug
Tbg Set Depth (ft):	4,602	Coverage: Top perf	4,652
Plug Height (ft):	146	CIBP	4,602
Plug Vol (sks):	17		

- 12) After cement sets, tag plug and press test casing to 350 psi. Confirm tag and press test in Wellview. Notify Engineer if tag or press test is unsuccessful. Pump 9 ppg mud spacer.

Tag Depth (ft): 4,456      Mud Volume (bbl): 17

- 13) POOH w/ tbg to next cement plug depth. Mix and pump class G neat cement plug. Pick up above plug and circulate clean.

Est TOC (ft):	2,988	Plug Description:	L.Wasatch, Ohio Crk, Will. Fork
Tbg Set Depth (ft):	3,726	Coverage:	L. Wasatch 3,253
Plug Height (ft):	738		Ohio Creek 3,495
Plug Vol (sks):	84		Williams Fork 3,726

- 14) After cement sets, tag plug and press test casing to 350 psi. Confirm tag and press test in Wellview. Notify Engineer if tag or press test is unsuccessful. Pump 9 ppg mud spacer.

Tag Depth (ft): 2,988      Mud Volume (bbl): 30

- 15) POOH w/ tbg to next cement plug depth. Mix and pump class G neat cement plug. Pick up above plug and circulate clean.

Est TOC (ft):	1,415	Plug Description:	Surface Shoe Plug
Tbg Set Depth (ft):	1,700	Coverage:	Surface Casing Shoe 1,545
Plug Height (ft):	285		
Plug Vol (sks):	32		

- 16) After cement sets, tag plug and press test casing to 350 psi. Confirm tag and press test in Wellview. Notify Engineer if tag or press test is unsuccessful. Pump 9 ppg mud spacer.

Tag Depth (ft): 1,415      Mud Volume (bbl): 31

- 17) Confirm any bradenhead pressure has been eliminated. If bradenhead pressure is present, notify production engineer.

- 18) POOH w/ tbg to next cement plug depth. Mix and pump class G neat cement plug. TOOH w/ tubing.

Est TOC (ft):	Surface	Plug Description:	Surface Plug
Tbg Set Depth (ft):	89	Coverage:	Surface down to 89
Plug Height (ft):	75		
Plug Vol (sks):	9		

- 19) RDMO workover unit and support equipment.

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- 20) Wait at least 5 days (and no more than 90), before procedure to next step.
- 21) Dig around wellhead, cut off 4' below ground level. Top off w/ cement if surface plug is not at surface.
- 22) Weld information plate to casing stub with 1/4" weep hole. Take GPS reading of well information plate for regulatory agencies. Inscribe plate with following:  
Caerus Oil and Gas LLC  
TBI FEDERAL 36-12C (PF36)  
05-045-10362  
36-07S-96W
- 23) Back fill hole and release equipment

**Well Name:** TBI FEDERAL 36-12C (PF36)

**API:** 05-045-10362  
**Surface Owner:** FEE  
**Mineral Owner:** FED  
**Well Status:** SI

**Field:** PARACHUTE  
**Lat:** 39.3914018  
**Long:** -108.0653106  
**Sec-Twn-Rng:** 36-07S-96W

**KB (ft):** 14 all depth ref KB unless otherwise noted

	OD (in)	ID (in)	Wt. (lb/ft)	Grade	Hole (in)	Top (ft)	Btm (ft)	TOC (ft)
Conductor	16.000		42.0		24.00	14	74	14
Surface	8.625	8.097	0.0	J-55	12.25	14	1,545	14
Intermediate								
Production	5.500	4.892	17.00	I-80	7.88	14	6,502	14

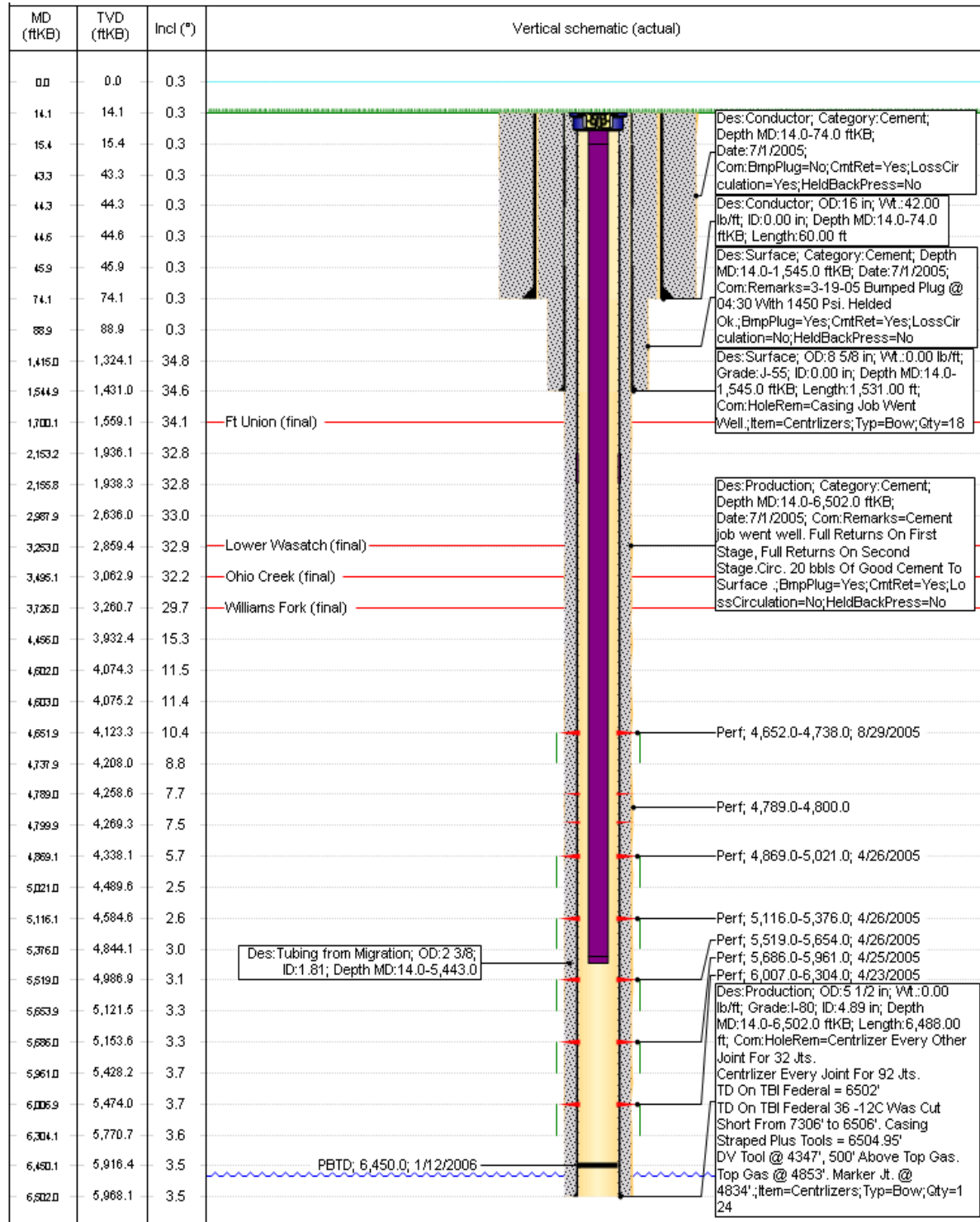
	OD (in)	ID (in)	Wt. (lb/ft)	Grade	EOT (ft)
Tubing	2.375	1.995	4.7		5,443

Gross Perf Interval		Formation Tops	RGL (ft)	RKB (ft)
Top Perf (ft)	4,652	Wasatch	0	14
Btm Perf (ft)	6,304	L. Wasatch	3,239	3,253
		Wasatch G	no top	
PBTD (ft)	6,450	Fort Union	1,686	1,700
		Ohio Creek	3,481	3,495
Surf Csg. Press (psi)	No Flow	Williams Fork	3,712	3,726
Int Csg. Press (psi)	0	Top Gas	4,597	4,611
Prod Csg. Press (psi)	463			
Tubing Press (psi)	469			
Test Date: 9/23/2022				

**Well Notes** COGCC has 1545' TOC Prod Csg, revised Drilling Completion Report (6/16/05) and CBL (4/15/05) show good cement to <150' where log stops. Expect cement at surface, top off if needed.

**General Notes** All Displacement fluid shall contain corrosion inhibitor and biocide. Premix 5 gallons per 100 bbls fluid to be placed between all plugs.  
Federal well requires 9ppg weighted spacer fluid (mud/brine) between plugs, procedure describes as mud, discuss fluid specifications w/ Eng.

## Current WBD



## Plugged WBD

