

Plug and Abandonment Procedure - Proposed

Well Name: RAMOS 1-23A
API: 05-045-12700

Version: FINAL
Date: 3/13/23

- 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 internals 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 TOO H.

- 8) Perform 500 psi pressure test for 15 minutes. Record pressure test results in WellView. If not successful, notify production engineer.

- 9) RU Wireline and RIH w/ CIBP. Set CIBP 50' above top perf and POOH w/ WL.

Plug Size:	4.500in	11.60#	Set Depth (ft):	4,420
------------	---------	--------	-----------------	-------

- 10) TIH w/ tubing. Mix and pump class G neat cement plug. Pick up above top of cement and circulate clean. TOO H w/ tubing.

Est TOC (ft):	4,276	Plug Description:	Top Perf Plug
Tbg Set Depth (ft):	4,420	Coverage: Top perf	4,470
Plug Height (ft):	144	CIBP	4,420
Plug Vol (sks):	11		

11) RU Wireline, RIH and perforate csg. POOH w/ WL.

Perf Depth (ft): 3,277 Gun Charge: 4 spf - 90 deg phasing

12) TIH w/ tbg. Establish injection through squeeze holes into production csg annulus. Mix and pump a balanced squeeze plug of class G neat cement. Pick up above top of cement and circulate clean.

TOOH w/ tubing.

Est TOC (ft):	2,552	Plug Description:	L. Wasatch, Ohio Crk, Will. Fork
Tbg Set Depth (ft):	3,277	Coverage:	L. Wasatch 2,808
Plug Height (ft):	725		Ohio Creek 3,091
Plug Vol (sks):	199		Williams Fork 3,277
Squeeze Vol (sks):	144		
Internal Vol (sks):	55		

13) RU Wireline, RIH and perforate csg. POOH w/ WL.

Perf Depth (ft): 1,614 Gun Charge: 4 spf - 90 deg phasing

14) TIH w/ tbg. Establish injection through squeeze holes into production csg annulus. Mix and pump a balanced squeeze plug of class G neat cement. Pick up above top of cement and circulate clean.

TOOH w/ tubing.

Est TOC (ft):	1,409	Plug Description:	Surface Shoe Plug
Tbg Set Depth (ft):	1,614	Coverage:	Surface Casing Shoe 1,539
Plug Height (ft):	205		
Plug Vol (sks):	58		
Squeeze Vol (sks):	43		
Internal Vol (sks):	16		

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

16) RU Wireline, RIH and perforate csg. POOH w/ WL.

Perf Depth (ft): 95 Gun Charge: 4 spf - 90 deg phasing

17) TIH w/ tbg. Establish injection through squeeze holes into production csg annulus. Mix and pump a balanced squeeze plug of class G neat cement. TOO H w/ tubing.

Est TOC (ft):	Surface	Plug Description:	Surface Plug
Tbg Set Depth (ft):	95	Coverage:	Surface down to 95
Plug Height (ft):	75		
Plug Vol (sks):	21		
Squeeze Vol (sks):	15		
Internal Vol (sks):	6		

-
- 18) RDMO workover unit and support equipment.
 - 19) Wait at least 5 days (and no more than 90), before procedure to next step.
 - 20) Dig around wellhead, cut off 4' below ground level. Top off w/ cement if surface plug is not at surface.
 - 21) 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
 - RAMOS 1-23A
 - 05-045-12700
 - 01-08S-96W
 - 22) Back fill hole and release equipment

Well Name: RAMOS 1-23A

API: 05-045-12700

Surface: FEE

Minerals: FEE

Well Status: SI

Field: PARACHUTE

Lat: 39.3789102

Long: -108.0602798

Sec-Twn-Rng: 01-08S-96W

KB (ft): 20 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		65.0		24.00	20	80	20
Surface	8.625	8.097	24.0	J-55	12.25	20	1,539	20
Intermediate								
Production	4.500	4.000	11.60	I-80	7.87	20	6,601	4,350

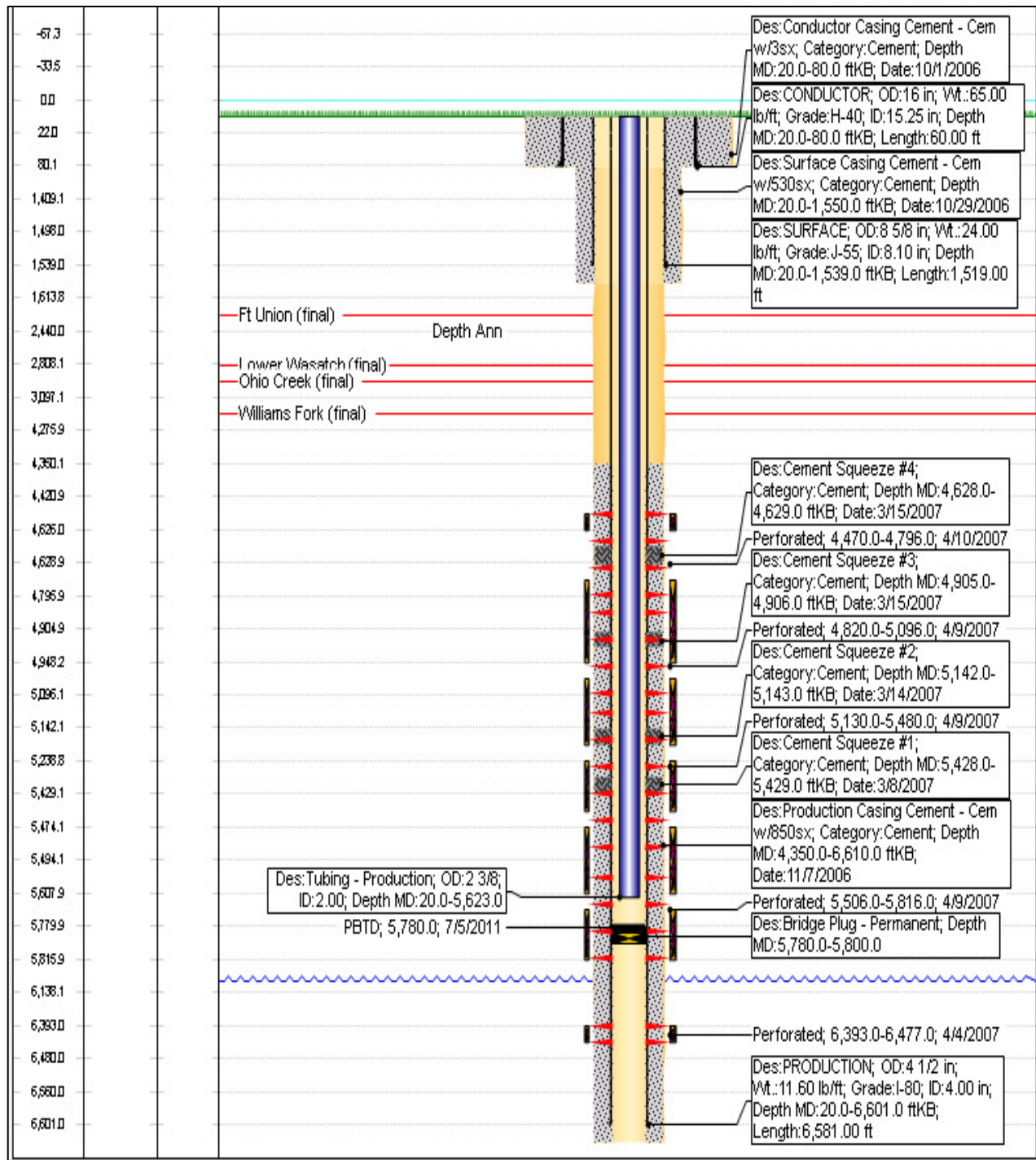
	OD (in)	ID (in)	Wt. (lb/ft)	Grade	EOT (ft)
Tubing	2.375	2.00	4.6	J-55	5,623

Gross Perf Interval		Formation Tops	RGL (ft)	RKB (ft)
Top Perf (ft)	4,470	Wasatch	0	20
Btm Perf (ft)	6,477	L. Wasatch	2,788	2,808
		Wasatch G	no top	
PBTD (ft)	5,780	Fort Union	1,596	1,616
		Ohio Creek	3,071	3,091
Surf Csg. Press (psi)	No Flow	Williams Fork	3,257	3,277
Int Csg. Press (psi)	0	Top Gas	4,314	4,334
Prod Csg. Press (psi)	262			
Tubing Press (psi)	1			
Test Date:	9/14/2022			

Well Notes CIBP with 2 sx cement at 5,780'

General Notes All Displacement fluid shall contain corrosion inhibitor and biocide. Premix 5 gallons per 100 bbls fluid to be placed between all plugs.

Current WBD



Plugged WBD

