

Proposed Wellbore Diagram: FEDERAL 399-23-1

Last Updated: 5/17/2018

Well	Pad	EU	API
FEDERAL 399-23-1	FEDERAL 399-23-1 Pad	62387124	05-103-09914
Land Owner	First Sales	Location	Initial Cleanout
Federal	9/5/2014	Lot 10 24 1S98W 6	
Top Perf	Bottom Perf	Current EOT	EOT %
		NA	
Bottom Cond Csg	Bottom Surf Csg	Bottom Prod Csg	
	50	550	
Average Inc	Float Collar	TOC	
	510	550	

ANNULAR CALCULATIONS: $(OH^2 - OD_{csg}^2) / 1029.4$

8 5/8" csg in 12 1/4" hole	Annular Capacity	0.0735	bbl/ft
	23sks	4.71	bbls
	64' > 50' with excess (should be cement to surface)	64.1	ft of cement
5 1/2" 15.5 J-55 csg in 7 1/4" hole	$(7.25^2 - 5.5^2) / 1029.4 =$ bbl/ft	0.0217	bbl/ft
	106sks	21.71	bbls
	1001' > 550' with excess (should be cement to surface)	1001.6	ft of cement

P&A calculations

5 1/2" 15.5# J-55 csg capacity = 0.0238bbl/ft		
100' to surface in 5 1/2" csg	2.38	Total bbls of cement
#sks*yield*0.1781 = #bbls	11.62	Total number of sacks

