

DST #3 4005' – 4030' Mississippian zone

Times: 30"- 60"- 60"- 90"

1st open: weak blow, built to 5 inches

1st shut-in: bled off, no blow back

2nd open: weak blow, 3 inches immediately, built to 6 inches

2nd shut-in: bled off, no blow back

Recovery: 20' total fluid, 20' (0.28 bbl) slightly oil spotted mud (1% oil, 99% mud)

BHT- 111°F

IH: 2037#, IF: 13#-16#, ISI: 113#, FF: 13#-15#, FSI: 96#, FH: 2056#

Analysis of zones with shows are as follows, please refer to the mudlog for sample descriptions:

Lansing	"B"	3665' – 3681', no sample show, good permeability, low resistivity
K.C.	"D"	3715' – 3727' drilling break with sample show, low resistivity
	"I"	3789' – 3800' Zone included in DST #1, recovery in test included 65' Heavy gas cut muddy watery oil with 600' gas in pipe, shut-in-pressures 686# to 622#, chlorides equal 46,000 ppm, 1' permeability at 3790'
	"J"	3805' – 3828' Zone included in DST #2, recovery in test 25' total (15' mud cut water, 10' mud), shut-in-pressures 1066# 1049#, logs show permeability from 3814' to 3820' and 3821' to 3825', lower resistivity with good SP deflection and 15% porosity average
	"K"	3842' – 3855' sample show, logs show SP deflection with permeability from 3842' to 3853', low resistivity, comparing to other zones above would have tested similar to "J" zone possibly more water recovery
Marmaton		3970' – 3975' and 3982' – 3986' sample shows in both zones logs show slight SP deflection with 1' permeability at 3970' resistivity read lower or equal to shale baseline
Mississippian		4010' – 4027' main objective, DST #3 was run over interval recovery included 20' of slightly oil spotted mud, shut-in-pressures 113# to 96#, logs show permeability from 4010' to 4027', Rt = 13 ohms, slight deflection in SP, 17% porosity, sample shows
Viola		4098' – 4105' and 4120' – 4134' sample show in intervals with low resistivity equivalent to shale baselines, good resistivity separation at 4154' to 4159' with 3% porosity, shows no perm on microlog