



Outland State Unit 11-2 2BS 2H

API # 30-0xx-xxxxx

Revised: 5/21/2019

TVD ft-RKB	Geological Tops	Wellbore Sketch	Hole Size	Casing	Drilling Fluids	Cement	OH Logs/Evaluation
1,000'	1,665 Rustler		26"	Surface: 20" 94.0# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 32 - 38 FV 4-6 PV 2-5 YP	Top of Lead: Surface 12.0 ppg 1.86 cuft/sk 2,105 sks Top of Tail: 1,300' 14.8 ppg 1.35 cuft/sk 895 sks (100% Excess)	
2,000'	2,090 Salado		17-1/2"	Intermediate 1: 13-3/8" 68# J55/K55 BTC	Saturated Brine 10.0 - 10.3 ppg 28 - 32 FV	Stage 1 - 100% Excess Top of Lead: 4,000' 11.5 ppg 2.25 cuft/sk 605 sks Top of Tail: 4,975' 14.8 ppg 1.35 cuft/sk 515 sks Stage 2 - 200% Excess Top of Lead: Surface 11.5 ppg 2.25 cuft/sk 2,900 sks	
3,000'	3,665 Yates		12-1/4"	Intermediate 2: 9-5/8" 40# N80 BTC	Cut Brine/WBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 4,000' 11.5 ppg 2.25 cuft/sk 615 sks Top of Tail: 7,250' 14.8 ppg 1.33 cuft/sk 355 sks (50% Excess)	
4,000'	4,085 Capitan Reef		8-3/4" Curve 8-1/2" Lateral	Production: 5-1/2" 20# P110 BTC	OBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: Surface 11.3 ppg 2.93 cuft/sk 975 sks Top of Tail: 9,500' 14.5 ppg 1.20 cuft/sk 1,830 sks (15% Excess)	
5,000'	5,435 Delaware Mtn Gr						
6,000'							
8,000'	8,184 Bone Spring						
9,000'							
9,463	1st Bone Spring SS						
9,692	2nd Bone Spring Carb						
10,000'	10,089 2nd Bone Spring SS						
10,368	3rd Bone Spring Carb						
11,000'							
							17,831' MD 10,574' TVD