

Well Name : DWU CP08D 33-M33 496  
 Surface Location : M33 Pad  
 API#: 05-045-14700-00  
 Prepared By : SALVATORE AMICO

Permit # : 20074013  
 Well AFE # : WAR.MSA.C057  
 Information : Non-Confidential  
 Elevations : GL (ft) = 8404'  
 KB est. (m) = 8422

Well Type : Williams Fork  
 Well Profile : S-Shape  
 Proposed Spud : October 14, 2007  
 Spud to RR (AFE) : 43 Days  
 AFE (Drill & Case) : \$3,151,985

Geological Formations	Legend (see bottom of page)	Formation Tops (ft) (estimated)		Hole Size (inch)	Bit Type	Mud Type	Program Highlights
		MD	TVD				
GARFIELD COUNTY							
Conductor set at 97 ft				17-1/2"	Bit#1		Surface hole was drilled by Rig PD-194 from 97' to 2010' MD Surface Casing: 10-3/4" 40.5# J-55 STC See Directional for survey info
Cameron MBS: 11" x 10-3/4" x 5M Parasite String at +/-1695'							
Surface casing set @ 1976' TVD							
Surface Casing Shoe		1,980	1,976				
KOP @' (Build at 3.0°/100')	LC			9-7/8"	Bit#2		Mudlogging: Surface csg to TD
Wasatch	Shale	3,753	3,587		HC504ZX 6x16	Mud System	Potential Problems Differential Sticking: Could be a problem across porous zones, avoid letting drillstring sit these zones, keep pipe moving. Monitor filter cake for quality and thickness.
Wasatch "G"	Silty Shale/ sand   2	6,040	5,606			Aerated LSDF BLACK FURY	Directional: MD Scribe out of surface at 0.5°/100' Az-226 Build angle @ 3.00/100' to 2738' MD Hold inclination to 6,867' MD (6,335' TVD). Start the drop @ -2.00/100' to be vertical at 8,269' Cont. Vertical to TD See directional plan for more details
							Intermediate Logging Program: No Open Hole/Cased logs will be run on this interval.
Ohio Creek	Sand/Shale	7,386	6,813				Intermediate Casing: Set +/- 500' into Williams Fork 0' to .8369' MD: (7.782' TVD) 7", 23# & 26#, L80, LT&C DV Tool at 50' into Wasacht "G" @ 6090' MD
Williams Fork	Sand / Shale   1	7,813	7,228				Intermediate Cement: 2 Stages 1st Stage: TOC 200' above DV Collar Tail: 7,959' MD to 5,700' MD Premium Lite Cement 12.5 ppg Premium lite cement 50% Excess (over gauge hole)
End of Hold (Drop at -2.0°/100') Intermediate Casing		8,368	7,782				2nd Stage: Tail: 5,500' MD to 1,800' MD Premium Lite Cement 11.0 ppg extended wit LW-6 100% Excess (over gauge hole)
				6 1/8"			*** BE ALERT FOR KICKS AT ALL TIMES ***
Cameo	Sand / Shale/ Coal   C		10,411		Bit#3 UD513		Production Casing: Surface to TD (11.691' MD) 4 1/2", 13.5#, P110, BTC Run 3 marker joints through WF.
Rollins	Sand /Shale / Coal   2	11,491	10,903				Production Cement: See Cement Program for details Tail:(11,691' to 7,763'): 200' above 7" casing shoe.
						<9.0 ppg Aerated	Premium Lite Cement 12.5 ppg 80% Excess (over gauge hole)
TD	Production Casing	11,691	11,103			to 11,691' MD	Logging: Open Hole: Triple Combo + Microlog (One attempt) No Cased Hole will be run on this interval

Legend: 1 - Primary Zone 2 - Secondary Zone C - Coal LC- Lost Circulation