

GAP Name: Parachute GAP
Well Name: Federal 25-8BB
Pad Name: PH25
Rig Name: 6064
GL
KB
State: Colorado
County: Garfield
Location (SL) SE NE 25-7S-96W 1963 FNL 636 FEL
Location (BHL) SE NE 25-7S-96W 2470 FNL 660 FEL
22'

Geological Markers	MD	TVD	Comments
OHIO CREEK (Top Km)	3509	3486	
WILLIAMS FORK FM	4043	4016	
TOP GAS	4706	4676	
COAL RIDGE (Paludal)	5996	5966	
ROLLINS SS (lles Fm)	6366	6336	
TD	6566	6536	
Permit TD	6716	6686	

Casing and Cementing Program						
DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	CEMENT VOLUME	
CONDUCTOR						
0-40'	± 24"	16"	0.25" Wall PE	X42	± 5 yds ready mix (to surface)	
SURFACE CASING						
0' - 1100'	12-1/4"	8-5/8"	24#	J-55, STC, New	Lead: 289 sx, 12.5, G extended, 2.11 ft ³ /sk Tail: 178 sx, 15.8, Class G, 1.16 ft ³ /sk	
NOTE: Lead cement includes excess equivalent to 80% Entire Annulus (Lead and Tail)						
PRODUCTION CASING						
					Lead: 231 sx, 12, TXL, 1.79 cuft/sk, Tail: 416 sx, 13 TXL, 1.43 ft ³ /sk, (30% excess each)	
0' to 6716'	7-7/8"	4-1/2"	11.6#	180, LTC, New		

MUD PROGRAM						
DEPTH	MUD TYPE	DENSITY	VISCOSITY	LOSS	(cc)	NC
		lbs/gal	(sec/qt)			
0' - 1100'	Fresh Water Gel	8.8 - 9.0	28 - 35			
1100' - TD	LSND	9.0 - 9.0	35 - 55			10 - 5
ABNORMAL PRESSURES / TEMPERATURES / POTENTIAL HAZARDS						
Anticipated BHP	3009	psig	8.7	Anticipated MASP	1538	psig
A cross sections of "sized" lost circulation material will be kept on location during drilling operations as a contingency for any fluid lost circulation. There are no known abnormal pressures, temperatures and/or potential hazards.						

LOGGING PROGRAM			
Mud Logger	None Anticipated	Coring	None Anticipated
DST	None Anticipated	Cased Hole Logs	CBL/CCL/GR/VDL/ RST(in lieu of PEX) to be run in accordance with State Regulations
Open Hole Logs	PEX Optional- At Operator's Discretion	Directional Surveys	Once every 200' with MWD in hole. Once every 1000' while vertical.

EnCana Contacts			
Geologist (Primary)	TJ Devane	Office / Cell	720.876.5495 / 303.518.3630
Geologist (Secondary)	Stacy Kosner		720.876.5581 / 785.393.2447
Engineer (Drilling)	Frank Fernandez		720.876.3442 / 303.250.7849
Engineer (Completions)	Ryan McGilvery		720.876.3681 / 303.358.8684

ADDITIONAL OPERATOR COMMENTS

EnCana requests permission to drill the discussed well in a "S" shaped well design. Visit Master APD for further details.