

EnCana Oil Gas (USA) Inc.
Gap Drilling Plan Prognosis

GAP Name: Parachute GAP
Well Name: Federal 20-11BB
Pad Name: PN-20
Rig Name
Elevation
KB 13
State: Colorado
County: Garfield
Location (SL) SE SW 20-7S-95W 1047 FSL 2151 FWL
Location (BHL) NE SW 20-7S-95W 1500 FSL 1980 FWL

Geological Markers	MD	TVD	Comments
WASATCH FM	SURF	SURF	
WASATCH MARKER	2243	2230	
OHIO CREEK (Top Kmv)	3572	3550	
WILLIAMS FORK FM	3976	3950	
TOP GAS	4593	4565	
COAL RIDGE (Paludal)	6068	6040	
Rollins	6448	6420	
Anticipated TD	6648	6620	
Permit TD	6923	6895	

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' – 800'	12-1/4"	8-5/8"	24#	J-55, STC, New	512 sx, 15.8#, Class G Neat, 1.16 ft³/sk (80% excess)
PRODUCTION CASING					
0' to 6923'	7-7/8"	4-1/2"	11.6#	180, LTC, New	Lead: 312 sx, 12, TXI, 1.79 cuft/sk, Tail: 449 sx, 13 TXI, 1.43 ft³/sk, (30% excess each)

MUD PROGRAM				
DEPTH	MUD TYPE	DENSITY	VISCOSITY	LOSS
		lbs/gal	(sec/qt)	(cc)
0' – 800'	Fresh Water Gel	8.8 - 8.9	28 – 35	NC
800' – TD	LSND	8.9 – 10.5	35 – 55	10 – 5

ABNORMAL PRESSURES / TEMPERATURES / POTENTIAL HAZARDS					
Anticipated BHP	3516	psig	9.8	Anticipated MASP	2000 psig

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)	Stacy Tinch	Office / Cell	720.876.5581 / 785.393.2447
Geologist (Secondary)	TJ Dewane		720.876.5495 / 303.518.3630
Engineer (Drilling)	Frank Fernandez		720.876.3442 / 303.250.7849
Engineer (Completions)	Ryan McGilvery		720.876.3631 / 303.358.8684

ADDITIONAL OPERATOR COMMENTS
EnCana requests permission to drill the discussed well in a "S" shaped well design.