

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

GAP Name: Parachute GAP
Well Name: Federal 20-14
Pad Name: PN-20
Rig Name
Elevation
KB 13

State: Colorado
County: Garfield
Location (SL) SE SW 20-7S-95W 1031 FSL 2139 FWL
Location (BHL) SE SW 20-7S-95W 850 FSL 1980 FWL

Geological Markers	MD	TVD	Comments
WASATCH FM	SURF	SURF	
WASATCH MARKER	2225	2215	
OHIO CREEK (Top Kmv)	3537	3525	
WILLIAMS FORK FM	3942	3930	
TOP GAS	4552	4540	
COAL RIDGE (Paludal)	6032	6020	
Rollins	6407	6395	
Anticipated TD	6607	6595	
Permit TD	6907	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 6907'	7-7/8"	4-1/2"	11.6#	I80, LTC, New	Lead: 317 sx, 12, TXI, 1.79 cuft/sk, Tail: 446 sx, 13 TXI, 1.43 ft³/sk, (30% excess each)

MUD PROGRAM					
DEPTH	MUD TYPE		DENSITY	VISCOSTIY	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	3482	psig	9.7	Anticipated MASP	1965 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 Tincher	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.