

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

**GAP Name:** Parachute GAP **State:** Colorado  
**Well Name:** Federal 20-14BB **County:** Garfield  
**Pad Name:** PN-20 **Location (SL)** SE SW 20-7S-95W 1034 FSL 2151 FWL  
**Rig Name** **Location (BHL)** SE SW 20-7S-95W 250 FSL 1980 FWL  
**Elevation**  
**KB** 13

Geological Markers	MD	TVD	Comments
WASATCH FM	SURF	SURF	
WASATCH MARKER	2284	2245	
OHIO CREEK (Top Kmv)	3566	3500	
WILLIAMS FORK FM	3970	3895	
TOP GAS	4600	4520	
COAL RIDGE (Paludal)	6080	6000	
Rollins	6455	6375	
Anticipated TD	6655	6575	
Permit TD	6875	6795	

Casing and Cementing Program					
DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	CEMENT VOLUME
<b>CONDUCTOR</b>					
0-40'	± 24"	16"	0.25" Wall PE	X42	± 5 yds ready mix (to surface)
<b>SURFACE CASING</b>					
0' - 800'	12-1/4"	8-5/8"	24#	J-55, STC, New	512 sx, 15.8#, Class G Neat, 1.16 ft <sup>3</sup> /sk (80% excess)
<b>PRODUCTION CASING</b>					
0' to 6875'	7-7/8"	4-1/2"	11.6#	180, LTC, New	Lead: 313 sx, 12, TXI, 1.79 cuft/sk, Tail: 439 sx, 13 TXI, 1.43 ft <sup>3</sup> /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	3330	psig	9.4	Anticipated MASP	1835 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.