

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

**GAP Name:** Parachute GAP  
**Well Name:** Federal Gardner 20-7  
**Pad Name:** PN-20  
**Rig Name**  
**Elevation**  
**KB** 13

**State:** Colorado  
**County:** Garfield  
**Location (SL)** SE SW 20-7S-95W 1083 FSL 2187 FWL  
**Location (BHL)** SW NE 20-7S-95W 2180 FNL 1980 FEL

Geological Markers	MD	TVD	Comments
WASATCH FM	SURF	SURF	
WASATCH MARKER	2446	2245	
OHIO CREEK (Top Kmv)	4074	3640	
WILLIAMS FORK FM	4564	4060	
TOP GAS	5305	4715	
COAL RIDGE (Paludal)	6731	6130	
Rollins	7121	6520	
Anticipated TD	7321	6720	
Permit TD	7496	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 7496'	7-7/8"	4-1/2"	11.6#	I80, LTC, New	Lead: 228 sx, 12, TXI, 1.79 cuft/sk, Tail: 568 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	3551	psig	9.9	Anticipated MASP	2034 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.