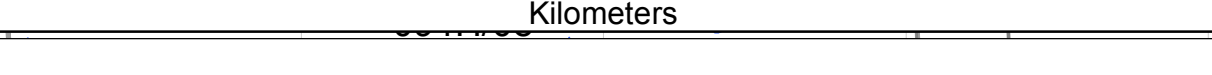


Depth to Bedrock Map

Date: December 2018 Projection: UTM Zone 10N Datum: NAD 83
 Scale: 1:250 000
PETREL ROBERTSON CONSULTING LTD.

To accompany Geoscience BC Report 2018-16 "Mapping the Susceptibility to Amplification of Seismic Ground Motions in the Montney Play Area of Northeast British Columbia" by P.A. Monahan, V.M. Levson, B.J. Hayes, K. Dorey, Y. Mykuta, R. Brenner, J. Clarke, B. Galambos, C. Galmos, C. Candy, C. Krumbiegel, and E. Calderwood

Compilation of surficial geology by:
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Legend

- Vs Sites
- Seismograph Arrays
- Field Sites
- Petroleum Wells
 - BR Depth
 - 0 - 5
 - 5 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 100
 - 100 - 1000
 - Well Total Depth - No BR Reported
 - <30m
 - 30 - 50m
 - >50m
- Geotechnical Data
 - BR Depth
 - 0 - 5
 - 5 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 100
 - 100 - 1000
 - Well Total Depth - No BR Reported
 - <30m
 - 30 - 50m
 - >50m
- Water Wells
 - BR Depth
 - 0 - 5
 - 5 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 100
 - 100 - 1000
 - Well Total Depth - No BR Reported
 - <30m
 - 30 - 50m
 - >50m
- Depth to Bedrock Contours
 - 15m
 - 30m
 - 100m

Quaternary Geology

Generalized map unit	Dominant composition	Description and example subunits
Alluvial	loam, gravel and sandstone	Modern fan and stream deposits including floodplains (A) and alluvial fans (B)
Colluvial	fracture sorted, stratified sands and siltstone	Steep slope colluvial fans (C) and debris fans (D) that have been deposited and unconformably bedded (E). (C) also includes minor alluvial and glaciofluvial deposits along valley bottoms
Organic	organic rich mud and siltstone	Marine peats (F) and minor logs (G)
Fillon	fine grained sand (stone) and silt and very fine sand (stone)	Mid-Holocene sediments, mainly siltstone (H) and thin silt lenses (I)
Glaciofluvial	sands and gravel, minor silt and sandstone	Glacial outwash fans and gravel terraces (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z), (AA), (AB), (AC), (AD), (AE), (AF), (AG), (AH), (AI), (AJ), (AK), (AL), (AM), (AN), (AO), (AP), (AQ), (AR), (AS), (AT), (AU), (AV), (AW), (AX), (AY), (AZ), (BA), (BB), (BC), (BD), (BE), (BF), (BG), (BH), (BI), (BJ), (BK), (BL), (BM), (BN), (BO), (BP), (BQ), (BR), (BS), (BT), (BU), (BV), (BW), (BX), (BY), (BZ), (CA), (CB), (CC), (CD), (CE), (CF), (CG), (CH), (CI), (CJ), (CK), (CL), (CM), (CN), (CO), (CP), (CQ), (CR), (CS), (CT), (CU), (CV), (CW), (CX), (CY), (CZ), (DA), (DB), (DC), (DD), (DE), (DF), (DG), (DH), (DI), (DJ), (DK), (DL), (DM), (DN), (DO), (DP), (DQ), (DR), (DS), (DT), (DU), (DV), (DW), (DX), (DY), (DZ), (EA), (EB), (EC), (ED), (EE), (EF), (EG), (EH), (EI), (EJ), (EK), (EL), (EM), (EN), (EO), (EP), (EQ), (ER), (ES), (ET), (EU), (EV), (EW), (EX), (EY), (EZ), (FA), (FB), (FC), (FD), (FE), (FF), (FG), (FH), (FI), (FJ), (FK), (FL), (FM), (FN), (FO), (FP), (FQ), (FR), (FS), (FT), (FU), (FV), (FW), (FX), (FY), (FZ), (GA), (GB), (GC), (GD), (GE), (GF), (GG), (GH), (GI), (GJ), (GK), (GL), (GM), (GN), (GO), (GP), (GQ), (GR), (GS), (GT), (GU), (GV), (GW), (GX), (GY), (GZ), (HA), (HB), (HC), (HD), (HE), (HF), (HG), (HH), (HI), (HJ), (HK), (HL), (HM), (HN), (HO), (HP), (HQ), (HR), (HS), (HT), (HU), (HV), (HW), (HX), (HY), (HZ), (IA), (IB), (IC), (ID), (IE), (IF), (IG), (IH), (II), (IJ), (IK), (IL), (IM), (IN), (IO), (IP), (IQ), (IR), (IS), (IT), (IU), (IV), (IW), (IX), (IY), (IZ), (JA), (JB), (JC), (JD), (JE), (JF), (JG), (JH), (JI), (JJ), (JK), (JL), (JM), (JN), (JO), (JP), (JQ), (JR), (JS), (JT), (JU), (JV), (JW), (JX), (JY), (JZ), (KA), (KB), (KC), (KD), (KE), (KF), (KG), (KH), (KI), (KJ), (KK), (KL), (KM), (KN), (KO), (KP), (KQ), (KR), (KS), (KT), (KU), (KV), (KW), (KX), (KY), (KZ), (LA), (LB), (LC), (LD), (LE), (LF), (LG), (LH), (LI), (LJ), (LK), (LL), (LM), (LN), (LO), (LP), (LQ), (LR), (LS), (LT), (LU), (LV), (LW), (LX), (LY), (LZ), (MA), (MB), (MC), (MD), (ME), (MF), (MG), (MH), (MI), (MJ), (MK), (ML), (MN), (MO), (MP), (MQ), (MR), (MS), (MT), (MU), (MV), (MW), (MX), (MY), (MZ), (NA), (NB), (NC), (ND), (NE), (NF), (NG), (NH), (NI), (NJ), (NK), (NL), (NM), (NO), (NP), (NQ), (NR), (NS), (NT), (NU), (NV), (NW), (NX), (NY), (NZ), (OA), (OB), (OC), (OD), (OE), (OF), (OG), (OH), (OI), (OJ), (OK), (OL), (OM), (ON), (OO), (OP), (OQ), (OR), (OS), (OT), (OU), (OV), (OW), (OX), (OY), (OZ), (PA), (PB), (PC), (PD), (PE), (PF), (PG), (PH), (PI), (PJ), (PK), (PL), (PM), (PN), (PO), (PP), (PQ), (PR), (PS), (PT), (PU), (PV), (PW), (PX), (PY), (PZ), (QA), (QB), (QC), (QD), (QE), (QF), (QG), (QH), (QI), (QJ), (QK), (QL), (QM), (QN), (QO), (QP), (QQ), (QR), (QS), (QT), (QU), (QV), (QW), (QX), (QY), (QZ), (RA), (RB), (RC), (RD), (RE), (RF), (RG), (RH), (RI), (RJ), (RK), (RL), (RM), (RN), (RO), (RP), (RQ), (RR), (RS), (RT), (RU), (RV), (RW), (RX), (RY), (RZ), (SA), (SB), (SC), (SD), (SE), (SF), (SG), (SH), (SI), (SJ), (SK), (SL), (SM), (SN), (SO), (SP), (SQ), (SR), (SS), (ST), (SU), (SV), (SW), (SX), (SY), (SZ), (TA), (TB), (TC), (TD), (TE), (TF), (TG), (TH), (TI), (TJ), (TK), (TL), (TM), (TN), (TO), (TP), (TQ), (TR), (TS), (TT), (TU), (TV), (TW), (TX), (TY), (TZ), (UA), (UB), (UC), (UD), (UE), (UF), (UG), (UH), (UI), (UJ), (UK), (UL), (UM), (UN), (UO), (UP), (UQ), (UR), (US), (UT), (UU), (UV), (UW), (UX), (UY), (UZ), (VA), (VB), (VC), (VD), (VE), (VF), (VG), (VH), (VI), (VJ), (VK), (VL), (VM), (VN), (VO), (VP), (VQ), (VR), (VS), (VT), (VU), (VV), (VW), (VX), (VY), (VZ), (WA), (WB), (WC), (WD), (WE), (WF), (WG), (WH), (WI), (WJ), (WK), (WL), (WM), (WN), (WO), (WP), (WQ), (WR), (WS), (WT), (WU), (WV), (WW), (WX), (WY), (WZ), (XA), (XB), (XC), (XD), (XE), (XF), (XG), (XH), (XI), (XJ), (XK), (XL), (XM), (XN), (XO), (XP), (XQ), (XR), (XS), (XT), (XU), (XV), (XW), (XX), (XY), (XZ), (YA), (YB), (YC), (YD), (YE), (YF), (YG), (YH), (YI), (YJ), (YK), (YL), (YM), (YN), (YO), (YP), (YQ), (YR), (YS), (YT), (YU), (YV), (YW), (YX), (YY), (YZ), (ZA), (ZB), (ZC), (ZD), (ZE), (ZF), (ZG), (ZH), (ZI), (ZJ), (ZK), (ZL), (ZM), (ZN), (ZO), (ZP), (ZQ), (ZR), (ZS), (ZT), (ZU), (ZV), (ZW), (ZX), (ZY), (ZZ)

b - blanket
 d - deltaic
 f - fan
 h - hummocky
 p - plain
 r - ridged
 t - terraced
 v - veneer

Geotechnical borehole data obtained outside the project boundary contributed to the interpretations.
 Petroleum well data plotted includes all wells with shallow gamma ray logs normalized and interpreted for this project and the Petrel Robertson Consulting Ltd. depth to bedrock study (2016). These data sets include well data outside the project boundary.

