

Petrographic Table

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			TEXTURE						FRAMEWORK GRAINS												ī		CEM								
Weil	Depth (m)	Formation	Grain Size Avg.	Grain Size Range	Sorting	Roundness	Compaction	Mono.Qtz	Poly.Qtz	Chert	Feldspar	SRF	MRF	Mica	Glauconite	Phosphate	Detrital Carbonate	Heavy Minerals	Matrix Clays	Quartz	Kaolinite	Calcite	Dolomite	Fe-Dolomite	Chlorite	Pyrite	Bitumen	Rock Type	Vis.Porosity(%)	Res.Quality	
a-3-B / 93-P-1	938.7	Cardium	FU	VFU-ML	М	SA-SR	High	48	1	16	1	9	3	tr	tr	-	-	-	2	16	-	-	-	-	tr	-	3	LR	3.5	Р	Poor visi primary i compact
a-85-A / 94-G-15	781.5	Sikanni	VFL	MSLT-FL	w	A-SA	Mod high	56	1	12	1	5	tr	-	tr	-	-	tr	22	1	-	-	-	-	-	1	-	LR	2	Р	Poorly ir intergr p
b-24-A / 93-P-7	2054.3	Cadotte	Gran	ML-Gran	Р	SA-R	Mod	3	tr	87	-	-	tr	tr	-	-	-	-	1	5	3	-	tr	-	tr	-	-	LR	15	G	Chert gr pores be
c-14-F / 94-P-7	1850.5	Cadotte	MU	FU-CL	М	SA-R	High	32	3	40	-	9	1	-	-	-	-	-	tr	11	3	I	-	-	tr	tr	tr	LR	4	Ρ	Poor vis (chert, R
c-14-F / 94-P-7	1853.8	Cadotte	Gran	FL-Peb	Р	SA-R	High	9	1	81	-	tr	-	-	-	-	-	-	1	4	3	-	-	-	-	tr	-	LR	3	Ρ	Poor vis pores; p
b-2-H / 93-P-1	2199.4	Falher	Gran	MU-Peb	Р	SA-R	Mod	4	2	73	-	tr	-	-	-	-	-	-	-	17	-	-	-	-	-	-	3	LR	9	G	Chert gr large po
b-28-G / 93-P-1	2333.0	Falher	CU	FU-VCU	Р	SA-SR	High	3	2	80	-	2	tr	-	-	-	-	-	tr	11	1	-	-	tr	-	tr	tr	LR	6	М	Fair visit reserv q
b-28-G / 93-P-1	2334.7	Falher	FU/Peb	VFU-Peb	Р	SA-R	High	3	-	91	tr	tr	tr	-	-	-	-	-	tr	5	tr	-	-	-	tr	-	tr	LR	3	Р	Cht pebl some dis
b-28-G / 93-P-1	2343.5	Falher	FU	VFL-VCU	Р	SA-SR	High	35	1	25	1	7	2	-	tr	-	4	-	tr	17	-	-	-	7	-	tr	-	LR	4	Р	Small po (chert, R overgrov
d-73-D / 93-P-8	2382.0	Bluesky	FU	VFU-MU	М	SA-SR	High	28	1	42	3	3	tr	-	-	-	-	-	tr	24	1	-	-	-	tr	tr	tr	LR	1	Р	Poor vis reduced
b-18-E / 93-P-8	2397.5	Bluesky	ML	VFU-CL	Р	SA-SR	High	15	3	22	-	12	3	-	-	-	6	-	tr	-	-	-	-	38	-	tr	tr	LR	0	Ρ	Tightly c
d-68-K / 93-P-1	2604.3	Cadomin	MU/Peb	FU-Peb	Ρ	SA-R	Mod high	5	tr	86	-	tr	tr	tr	-	-	-	-	1	4	3	-	-	-	-	tr	-	LR	3.5	Ρ	Chert pe intergr a pores co
a-23-H / 93-P-8	2231.5	Minnes (Niknsin)	MU	VFU-VCL	Р	SA-R	High	30	1	40	-	8	-	-	-	-	-	tr	tr	16	-	-	-	2	-	-	2	LR	tr	Ρ	Very poo hairline f
a-23-H / 93-P-8	2236.8	Minnes (Niknsin)	MU	VFU-VCL	Р	SA-R	High	30	1	33	-	13	tr	-	-	-	tr	-	3	14	-	-	-	4	-	-	1	LR	5	М	Fair visil (chert, R
a-23-H / 93-P-8	2247.4	Minnes (Niknsin)	MU	FU-CU	М	SA-R	High	50	2	20	-	3	-	-	-	-	-	-	tr	24	-	-	-	-	-	-	tr	LR	6	М	Fair visil RF) plu overgrov
d-99-l / 93-P-8	2589.1	Halfway	FU	VFL-ML	М	SA-SR	Mod	70	1	3	tr	tr	-	-	-	tr	3	tr	tr	13	-	7	-	2	-	tr	-	QA	12	G	Good vis grain dis

Comments

visible porosity dominated by grain dissolution (chert, fspar, RF) and some modified ry intergr porosity; poorly interconnected pores; reserv quality reduced by high action and abundant qtz overgrowths.

y interconnected, small, grain-moldic pores (diss chert, fspar); trace modified primary r porosity; reserv quality reduced by fine gr size and clays.

granule congl; good visible porosity consisting of mainly large modified primary intergr between chert clasts; pores commonly lined w drusy qtz.

visible porosity consisting of modified primary intergr plus some secondary grain diss , RF); possible hairline fractures may provide some interconnectivity of pores.

visible porosity consisting of modified primary intergr plus trace chert grain dissolution ; porosity occluded mainly be qtz and kaolinite cement.

granule congl; fair visible porosity consisting of mostly modified primary intergr pores; pores between chert clasts, partly plugged by bitumen.

isible porosity consisting of modified primary intergr and trace chert grain dissolution; / quality reduced by compaction and abundant qtz overgrowths.

ebble congl with sand matrix; poor visible porosity consisting of modified primary and diss of grains (chert, RF, fspar); pores mainly in matrix sand.

pores poorly interconnected; modified primary intergr and secondary grain diss pores , RF, fspar); reserv quality reduced by fine grain size, high compaction, and qtz rowths.

visible porosity; poorly interconnected modified primary intergr pores; reserv quality ed by high compaction and abundant qtz overgrowths.

cemented with ferroan dolomite.

pebble congl with sand matrix; poor visible porosity consisting of modified primary r and some secondary diss of chert clasts; main cements are quartz and kaolinite; commonly lined w drusy qtz.

poor visible porosity, poorly interconnected pores; rare chert grain diss; possible trace ne fracture porosity.

isible porosity consisting of modified primary intergr and common grain dissolution , RF); moderately interconnected small pores.

isible porosity consisting of modified primary intergr and some grain dissolution (chert, lu possible hairline fracture porosity; moderate pore interconnectivity; abundant qtz rowths.

visible porosity, somewhat patchy; pore types are modified primary intergr plus chert dissolution plus calcite cement dissolution.

Exploration Assessment of Tight Gas Plays, Northeastern British Columbia PETROGRAPHIC SUMMARY

					FRAMEWORK GRAINS												CEMENTS														
Well	Depth (m)	Formation	Grain Size Avg.	Grain Size Range	Sorting	Roundness	Compaction	Mono.Qtz	Poly.Qtz	Chert	Feldspar	SRF	MRF	Mica	Glauconite	Phosphate	Detrital Carbonate	Heavy Minerals	Matrix Clays	Quartz	Kaolinite	Calcite	Dolomite	Fe-Dolomite	Chlorite	Pyrite	Bitumen	Rock Type	Vis.Porosity(%)	Res.Quality	
d-99-l / 93-P-8	2598.0	Halfway	FU/MU	VFL-CL	Ρ	SA-R	Mod	62	tr	tr	tr	-	-	-	-	tr	2	tr	-	11	-	24	tr	-	-	tr	-	QA	2	Ρ	Poor visit diss; pose cement.
d-55-A / 94-G-9	1360.1	Halfway	ML	VFU-CL	Ρ	SA-R	Mod high	63	tr	18	tr	tr	-	-	-	tr	tr	tr	-	13	-	tr	3	-	-	tr	2	SL	13	G	Good visi
d-55-A / 94-G-9	1370.2	Halfway	ML	VFL-CL	Р	SA-SR		7	-	-	-	-	-	-	-	1	-	-	-	tr	-	-	91	-	-	-	tr	dol	13	G	Sandy do qtz + pho

Comments

visible porosity consisting of modified primary intergr and some secondary chert grain possible trace calcite cement dissolution; reservoir quality reduced by abundant calcite int

visible porosity consisting of mostly secondary chert grain dissolution.

by dolomite with original depositional texture of shelly packstone-grainstone (coquina); phosph detrital grains; trace qtz and chert cement; good moldic/vuggy porosity.

