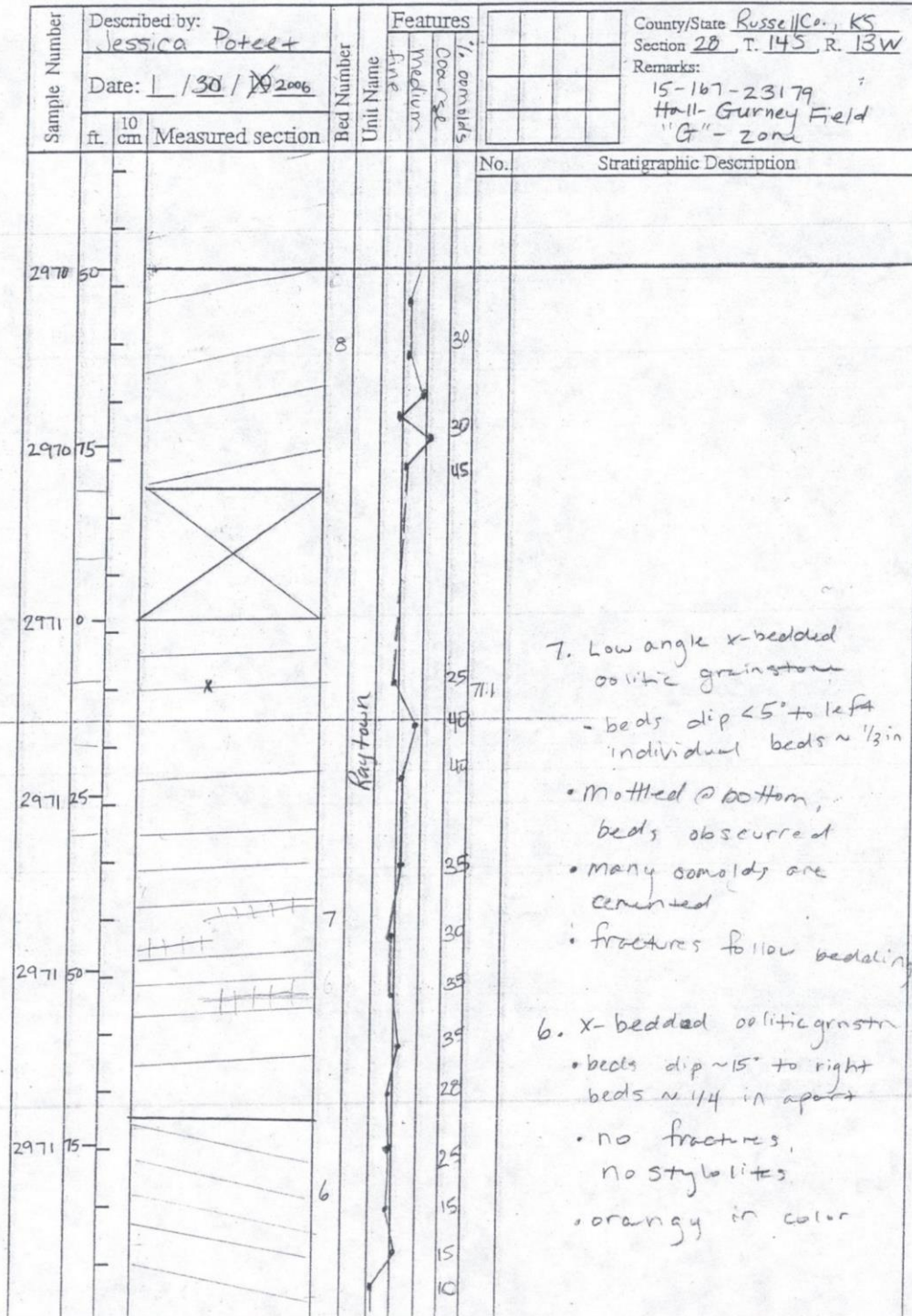
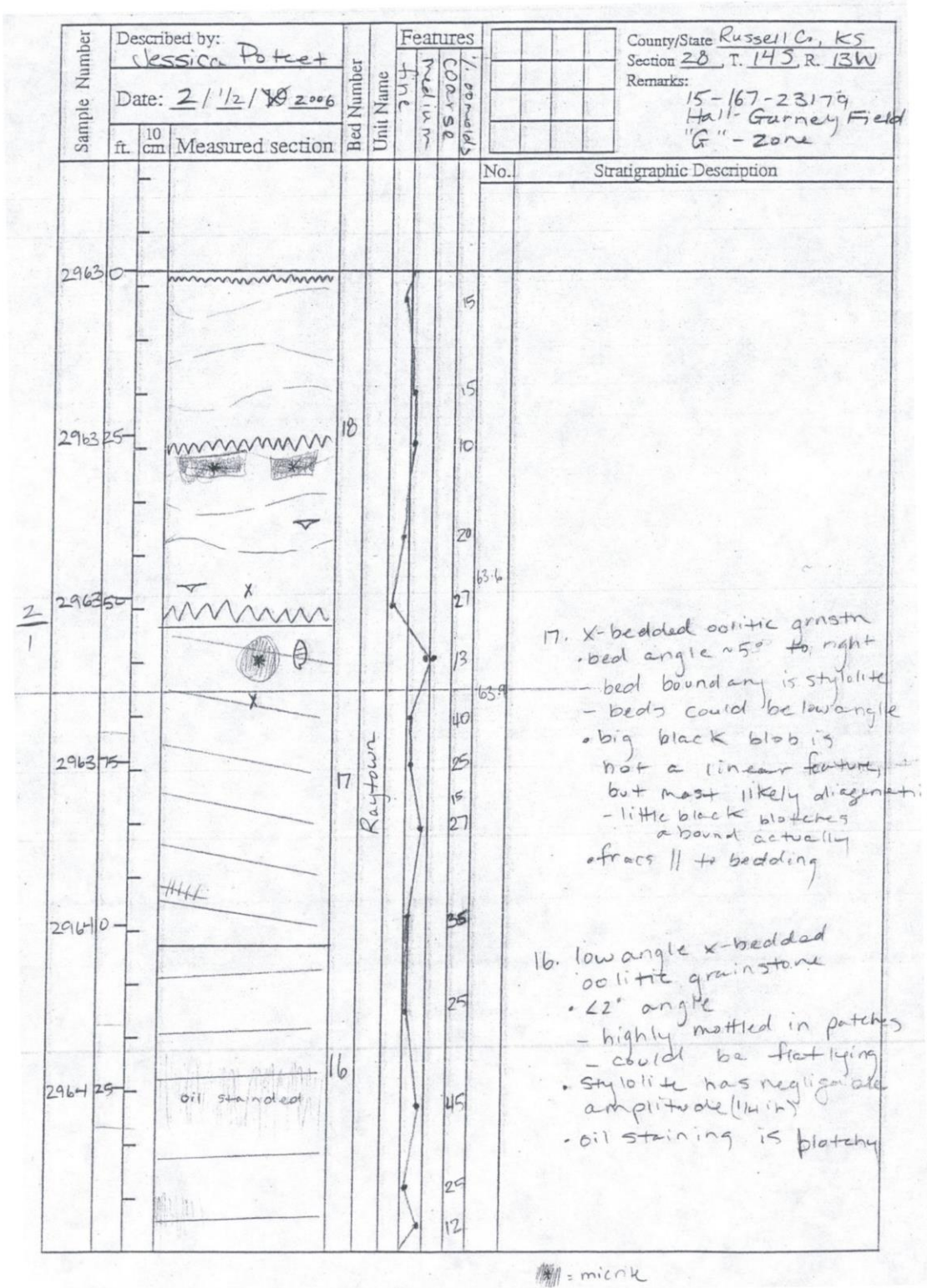


**APPENDIX ONE –
CARTER-COLLIVER CO₂ INJECTION WELL
CORE DESCRIPTION**



Sample Number	Described by:		Bed Number	Features			County/State	Section	Remarks:
	ft	10 cm		Measured section	Unit Name	Coarse			
	Jessica Poteet						Russell Co., KS	T. 14S, R. 13W	15-167-23179 Hall-Gurney Field "G" Zone
	Date: 1/31/2006								
29690									
29695									
29699			9						
29699.5									
29699.75									
29700									
29700.5									
29701									
29701.5									
29702									
29702.5									
29703									
29703.5									
29704									
29704.5									
29705									
29705.5									
29706									
29706.5									
29707									
29707.5									
29708									
29708.5									
29709									
29709.5									
29710									
29710.5									
29711									
29711.5									
29712									
29712.5									
29713									
29713.5									
29714									
29714.5									
29715									
29715.5									
29716									
29716.5									
29717									
29717.5									
29718									
29718.5									
29719									
29719.5									
29720									
29720.5									
29721									
29721.5									
29722									
29722.5									
29723									
29723.5									
29724									
29724.5									
29725									
29725.5									
29726									
29726.5									
29727									
29727.5									
29728									
29728.5									
29729									
29729.5									
29730									
29730.5									
29731									
29731.5									
29732									
29732.5									
29733									
29733.5									
29734									
29734.5									
29735									
29735.5									
29736									
29736.5									
29737									
29737.5									
29738									
29738.5									
29739									
29739.5									
29740									
29740.5									
29741									
29741.5									
29742									
29742.5									
29743									
29743.5									
29744									
29744.5									
29745									
29745.5									
29746									
29746.5									
29747									
29747.5									
29748									
29748.5									
29749									
29749.5									
29750									
29750.5									
29751									
29751.5									
29752									
29752.5									
29753									
29753.5									
29754									
29754.5									
29755									
29755.5									
29756									
29756.5									
29757									
29757.5									
29758									
29758.5									
29759									
29759.5									
29760									

Sample Number	Described by: Jessica Poter		Bed Number	Unit Name	Features			County/State Russell Co., KS	Section 26, T. 14S, R. 13W	Remarks: 15-167-23179 Hall Gurney Field "G" - Zone
	ft.	10 cm			Measured section	fine	med. coarse			
										No. Stratigraphic Description
2967	50		12				35			11. x-bedded oolitic gmsstn • beds dip 15° to right - very mottled & faint bedding • stylolite is bed boundary - 1/2 in amplitude - highly fossiliferous • maybe micritic adjacent to above styl • fractures sin enth & ⊥ + to bedding
2967	75						30			
							40			
2968	0		11				40			
							25			10. x-bedded oolitic gmsstn • beds dip 5-10° to left - beds increase & up-hole - wavy lamination & mottling @ bottom • stylolite @ top of bed - 1/2 in amplitude - to bedding - pyrite in stylolite
2968	25						15			
							25			
							20			
2968	50						35			
			10				30			
							40			
2968	75						30			
							20			



Sample Number	Described by: Jessica Potcer		Measured section	Bed Number	Unit Name	Features		No.	Stratigraphic Description
	ft.	10 cm				fine	medium		
									County/State <u>Russell Co, KS</u> Section <u>28</u> , T. <u>14S</u> , R. <u>13W</u> Remarks: <u>15-167-23179</u> <u>Hall-Gurney Field</u> <u>"G" - zone</u>
2961	50			19				5	
								13	
2961	75							20	1b. mottled, wavy-bedded oolitic grainstone/packstone
								15	• beds are light & dark alternating - rippled in areas • more black blotches - bring out burrowing
2962	0							25	• many pervasive stylolites - biggest: amp - 1.5 in - smaller: amp - 1/2 in - pyrite/sln enhanced cavities
								30	- 0% porosity near some stylolites - to bedding
2962	25			18	Raytown			30	• fractures semi to bedding
								15	• beds ~ .5 cm thick
2962	50							25	
								20	
2962	75							15	
								12	
								10	
								5	

Sample Number	Described by: Jessica Poter		Bed Number	Unit Name	Features	County/State	
	ft.	10 cm				Russell Co., KS	Section 20, T. 14S, R. 13W
Date: 2/27/2006		Measured section	No.	Stratigraphic Description			
3 2	29600				20	Raytown	1. coarse medium fine
	29605		20 - mottled flat-bedded oolitic grainstone • only difference btw bed 20 & 19 is less mottling & no mud • still flat bedded w/ interruptions from mottling • sin enhanced fractures & cavity • stylolite @ top of bed 1.5 in (4cm) amp. - huge sin enhnd crests				
	29607.5						19. Mottled flat-bedded oolitic packstone / grainst * fossiliferous • stylolites - 1 @ base of bed • sin enhanced crests - amp: 1.25 inch - 1 in middle going diag. • amp: 1/4 inch - 1 near top • Base of bed is muddy, filled w/ fossils & large sin enhanced pores - some maybe shell molds • beds mostly mottled w/ faint appearance of flat lying beds
	29610						
	29612.5		19				

Sample Number	Described by: <u>Jessica Poter</u>		Bed Number	Unit Name	Features	County/State <u>Russell Co., KS</u>	
	ft.	10 cm				Section <u>28, T. 14 S, R. 13 W</u>	Remarks: <u>15-167-23174</u> <u>Hall Gurney Field</u> <u>"G" - Zone</u>
Date: <u>2/27/2006</u>		Measured section				No.	Stratigraphic Description
2958	50		22			0	<p>21. mottled oolitic grain stone & packstone</p> <ul style="list-style-type: none"> • may have been x-bedded - white cement; ooids w/ dark mottled blotches of cement * Two inches of core misplaced & not marked - has oil stained fracture coming off stylolite • mottled texture enhanced by dark wispy discontinuous dark layers of ncom. ooids • stylolites @ top & base of bed as well as in btw. - amp: n/a to 4cm - one sty has layer of micrite above it (<.5cm)
2958	75	x				2.58.1	
2959	0					5	
2959	0					11	
2959	25	<p>phyl</p>	21			0	
2959	25					2	
2959	25					10	
2959	25					2	
2959	50					20	
2959	50					10	
2959	75					5	
2959	75					2	
						5	
						10	

Sample Number	Described by: JESSICA POTTEET		Bed Number	Features				County/State Russell Co., KS
	Date: 3/12/2006	Measured section		Unit Name	fine	medium	coarse	
ft.	10 cm							Remarks: 15-167-23179 Hall-Gurney Field "G" zone
2954 0								
2954 25		F2c						26. Fossiliferous weckestone
2954 50		F2b	26					<ul style="list-style-type: none"> • Forams, crinoids fragments & unidentifiable bits (abrasion) • Faint wispy/wavy lamination • white mud • stylolites w/ darker mud. lenses below • gradational contact w/ above bed.
2954 75		F2a						25. Clay-rich, silty mud
2955 0		# F1a	25	Raytown				<ul style="list-style-type: none"> • w/ carbonate lenses • Lenses formed contp. - silt laminae drape over • smelly! (organic-rich)
2955 25		F1c						24. Burrowed low-angle
		#	23					crossbedded oolitic grns
								<ul style="list-style-type: none"> • no more corals • laminae 1cm @ 40° to right • burrow interrupting lamination • large, calcite-filled fenestrae at top .5cm • area of SiO₂ ooids (old) • gastropod 1.5 cm, moldic • laminae diagenetically altered & cement • add 2 inches

