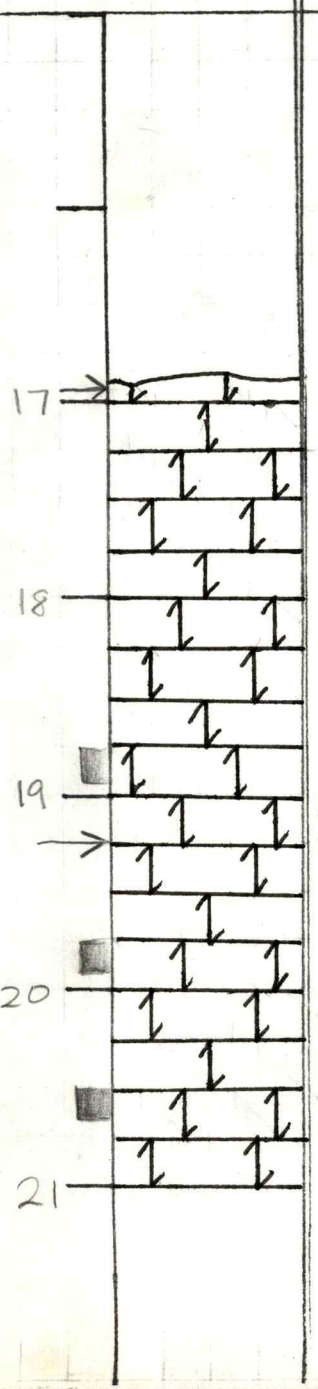
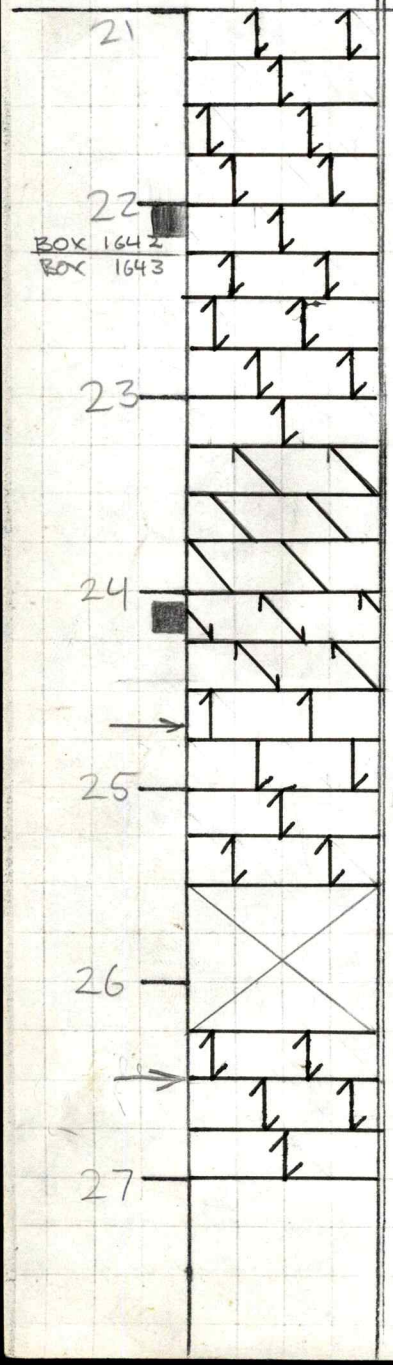
LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9 UHL						1



	ROCK NAME	MUDST. / WACKEST / FILLED PKST / CLEAN PKST / GRAINST	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
								Core is Upper to Middle Warsaw
17	fenestellid-crinoid calc dolo packstone		# ⊟ ∀ ⌓	■ tr ▽ repl. foss	FR (2%)	lt. gry		syntaxial overgrowths on crinoids
18	bryozoan crinoid calc dolopkst		# ⊟ ∀ ⌓		MO (<1%) BP (1%) WP (1%)	lt. gry		
19	crinoid bryozoan sli arg. calc. dolo packstone		⊟ # ∀ ⌓	▽ repl. foss ∪ ?		lt. brn		arg. layer mud lense
20	crinoid bryozoan calc. dolo packstone		⊟ # ∀ ⌓	▽ repl. ⊟ ⌓	BP (2%)	lt. brn		
21								

NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1642 & 1643	2



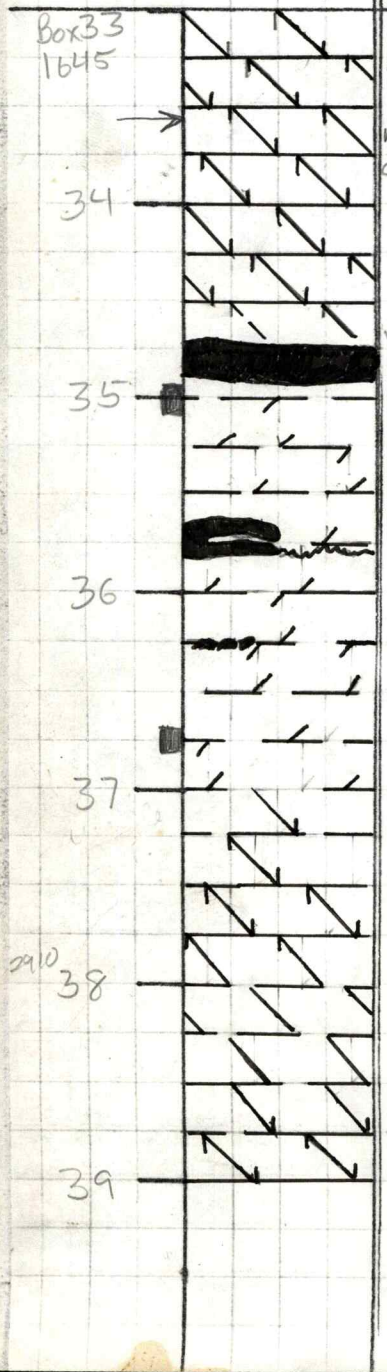
ROCK NAME	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
crinoid-bryozoan calc. dolo packst		▽ repl. brachs + crinoids; (G)	BP (20%)			(85 BOPD, NO WTR 5021-5028)
crinoid-bryozoan calc dolo packstone			MO (10%) WP (10%)			6' pkst; 1' wkst; ½' mdst
				med. brn; lt. brn		
crinoid dolowackstone		▽	VUGS (5%)			
crinoid-bryozoan calc dolopackst	Y?			blk		DST (5020-5055) 19 MCFGPD, 300'O 660' HGCMO, + 60' W
bryozoan-crinoid calc. dolopackst	wb Y?	▽	MO bryomoldic some WP	blk		OIL; mud lense

NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	VHL					1644	3

KB 2128

	ROCK NAME	MUDST. / WACKEST / FILLED PKST / CLEAN PKST / GRAINST.	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
27	bryozoan-crinoid calc. dolo pkst.		# ⊖ ⊘ ⋎ Y	∪ ▽ granular in vugs	VUGS (5%) MO (10%)			lenses of mudst
Box 1643 Box 1644								
2900 28	bryozoan-crinoid calc dolo packst		# ⊟ ⊖ ⋎ Y	▽	VUGS (20%) oil filled 2cm - 1mm			OIL
	bryozoan dolo wackest.		#	▽ ∪				
29	bryozoan-crinoid calc dolopkst. dolowkst		# ⊖ ⊘ ⋎ Y	▽ repl. foss				lenses of dolomudst
	bry. arg. lime wackest		#	▽ slickenslides	FR (1%) MO (2%)			chert is white+blk, porous, fossiliferous blk sh. seam
30	arg. dolo lime mdst			▽		greenish lt. gry		
31	sli. calc., v. arg. dolo wackest + arg. calc. lime mudst			⊙ ab	MO (2%)	greenish lt. brn lt. brn		
32	sli. calc. dolo mdst & dolo wackest.		#	▽ in vugs in mdst	VUG (5%) MO (1%)	lt. brn		chert is globular, found in vugs
	crinoid calc dolo packst		⊖ # ◇ ⊖ ⋎ Y		BP (9%) BC (?)	lt. brn + blk		spirifer fossil on breakage surface
Box 1644 →33 Box 1645								

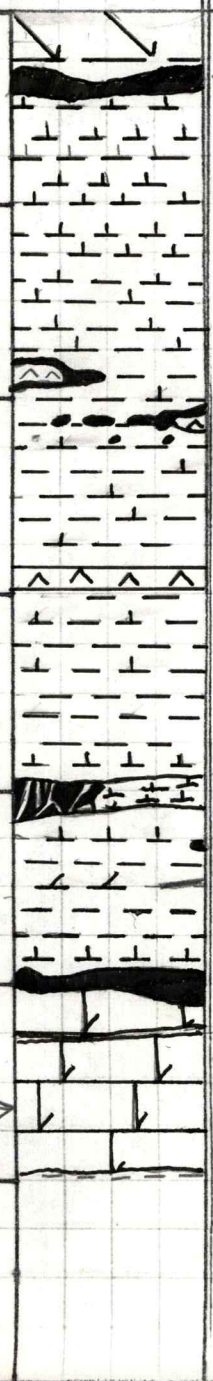
NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1645	4



MUDST. | WACKEST | FILLED PKST | CLEAN PKST | GRAINST.

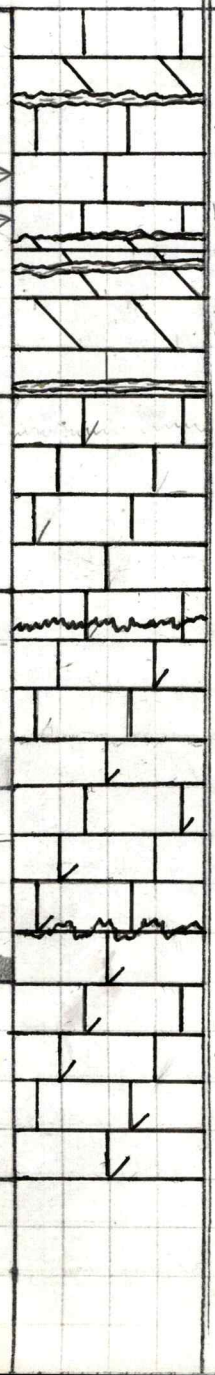
ROCK NAME	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
crinoid-bryo calc. dolo packst w/ min. lenses of dolomudst	▭ # ⌓ ▽ Y	Ⓖ ■ tr ▽ repl. foss esp crinoids ∪	WP (<1%) BP (1%)	lt. brn foss in blk matrix		"matrix" is dolomitized oil stains fine (~.104 mm) dolomite matrix
crinoid sli. arg. calc dolowackest + packst w/ lenses of dolomudst	▭ # ⌓ ▽ Y	▽ repl. foss ∪ Ⓖ ▽	WP (<1%) BP (1-2%) MO (<1%) FR (<1%) in chert	green wh + gry		lenses of lt. brn, Fe dolomudst. grn sh residue above foss. chrt.
arg. dolo lime wackest + mdst	# Y	▽ contains geodal qtz. ∪	MO (2%) BP (1%)			
arg. dolo bry. lime mudst + wackest.	# Y	▽ Ⓖ ∪	FR (<1%) VUG (2%) assoc. w/ chert	dk brn w/ lenses of lt. grn brn		
arg. dolo c - bryozoan lime wackestone	# Y	⌒ ab. Ⓖ	BP	greenish dk brn w/ lt. brn strks		
arg. dolo limemdst		⌒		lt. brn w/ strks of dk brn		dk brn strks are ferroan dolo
arg., calc dolowackest	▭ Y #	∪	BC			Ferroan + non ferroan dolo

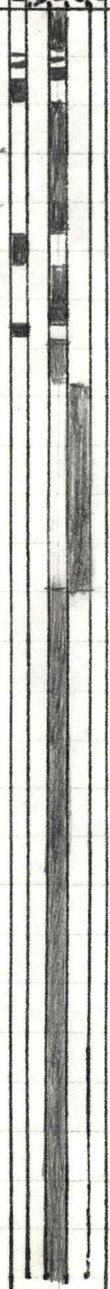
NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1646 + 1647	5



	ROCK NAME	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
39	arg. chty, calc. dolo wacke stone	# ♈ ⊖	V? ▽		lt. gry w/dk brn mottling		
40	calc sh		V	FR(<1%)	"		
41	cherty sli. calc sh		▽repl. ^ ▽repl. ^	VUG(25%)	green-gray		silica replaces gypsum; iron-bearing clays or ferroan
Sample 42	sli calc sh		gypsum xals repl. by chert		white; green		gypsum crystals
43	sli. cherty argillaceous dolomudst. or sli. cherty calc sh	⊖ ♈ # Y (in chert only)	▽ ▽ ▽	FR(3%) in chert; MO(1%)	gry, wh. blk; lt. brn		chert is fossiliferous, gray, white, green; more calc. + fossiliferous around chert; blue stain may be from iron bearing clay minerals
	brach-bryo cherty dolo lime pkst		▽	WP(2%			cherty areas have very porous dolomatrix + WP; sh. seam; brachs much larger (~ 3cm long)
	dolomudst		⊖ ▽				
45	foss. sli. chrty lime pkst	⊖ ♈ Y ⊖	▽ ■ trace	WP(<1%)			fine gr. pkst. blk sh. seam

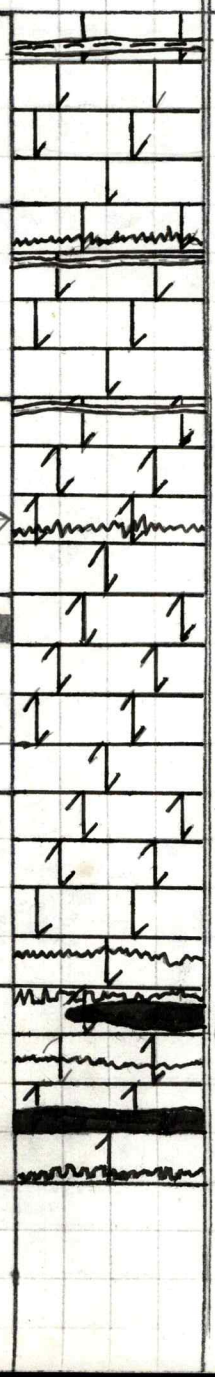
NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1647 + 1648	6





ROCK NAME	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
bry-brach sli. cherty lime pkst		▽ (replaces fossils, esp. brachs)		lt. brn w/ sporadic dk. brn		interlam dolomdst + dolo pkst
dolomudst + dolo packst						blk sh seam
sli. cherty bry-brach lime packst						chert is spherulitic, white
bry-cri lime pkst		▽minor				
dolomudst						shale seam/stylolite
bry dolo pkst dolomudst			MO (2%) (in dolo pkst)			may be argillaceous mdst, not dolomudst (or calcareous sh)
bry lime pkst						blk sh seam
bry, v. sli. dolo lime pkst				lt. brn w/ sporadic dk brown	lt brn	
bry sli. dolo lime pkst	minor	▽minor				change in matrix % is more gradual than indicated
						insoluble residue contains ferroan dolomite
bry-crin sli dolo lime pkst		▽ minor		lt. brn w/ dk sporadic "matrix"		thicle insoluble residue along stylolite
crinoid-bry. sli. dolo lime pkst	Y?	dolo. + v. minor chert are in WP		lt brn		

NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1648 + 1649	7

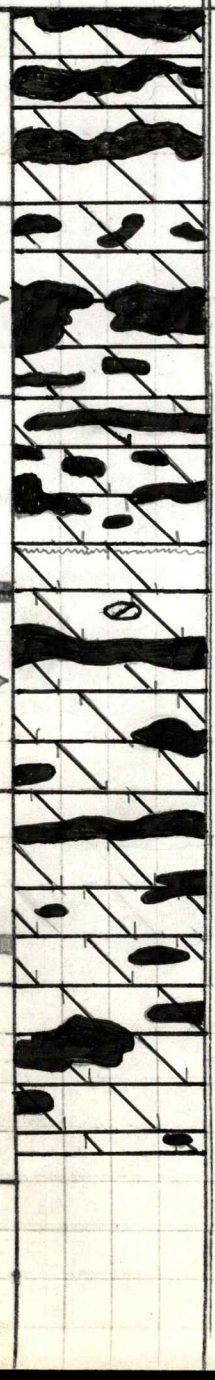


ROCK NAME	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
crinoid dolo lime pkst	Y? ?? ?		cfsmS FR1%			blk sh seam
		ab.				dark color in 52 – 51.75 maybe due to pyrite
crinoid dolo lime pkst	Y ??					blk sh. seam 0.5cm thick
				med brn		small crinoids? 0.5 – 2.0mm diam.
fossiliferous dolo lime pkst	ab ab ab c Fr	some fossils + matrix replaced by ferroan dolomite				blk shale seam
fossiliferous dolo lime pkst						
				lt. brn w/ dk matrix		dark color in matrix possibly pyrite
fossiliferous dolo. lime pkst						
		trace				residue is concentrated around stylolites
spiculitic(?) (fossiliferous) cherty dolo. lime pkst	Y	some fossils are dolomitized	FR (1%) MO (<1%)	lt. brn		fossils are difficult to identify ~1mm long ~0.2mm wide Chert is gray, wh + blk, fos w wh. dolo. rind

NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL					1649 & 1650	8

	ROCK NAME	MUDST. / WACKEST / FILLED PKST / CLEAN PKST / GRAINST.	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
57	dolo, sli. cherty lime wkst		8? Y	trace dolomite is Ferroan				
58	sli. dolo spic cherty lime wackest (Sample)		Y minor 8 rare	G trace				spicules are black
59	sli. cherty dolo. lime mudst.							lenses are noncalcareous and Ferroan; insoluble residues in small lenses beneath large (A=1") stylolite
Box 1649 Box 1650				G trace trace				chert is gry, blk, + wh. w/ wh. porous "rind" rind is Ferroan dolomite small (1mm thick .5cm long) lenses of shale
60	cherty dolo lime mudst.				spic MO (<1%) chert FR (<1%)	lt. brn		
	spiculitic calc. cherty dolowackest		Y		sms/VUGS (<1%) sms MO (<1%) spicule molds	lt. brn black		VUGS assoc. w/chert chert is gray w/ white spicules or white w/ black spicules molds in white chert
61	sli. spic cherty calc. dolomudst.							
	calc spicule, cherty dolowackest		Y					lense of gry mdst. in lt. brn + blk dolomdst
62	spiculitic v. cherty calc dolomudst		Y (ab)		sms FR (<1%) (in chert) VUG (<1%)	lt. brn + black	?	dolomite is very ferroan black dolomite surrounds white/gray spic. chert ... in lenses of lt. brn. dolomite
5063								

NO.	LEASE	SPOT	LOCATION	COUNTY	INTERVAL	BOX NO.	PAGE
3-9	UHL			COMANCHE		1651	9



	ROCK NAME	MUDST.	WACKEST	FILLED PKST	CLEAN PKST	GRAINST	FOSSILS AND PARTICLES	DIAGENETIC FEATURES	POROSITY	COLOR	OIL STAIN S M H	COMMENTS
63	sli. spiculitic v. cherty dolomudst.						Y					
64	sli. spiculitic v. cherty dolomudst						Y	sh. strks	VUG (<1%) assoc.			insoluble residues seem to be concentrated near chert
								sh. strks				chert takes K-ferrocyanide stain
65	sli. spiculitic v. cherty dolomudst						Y	sh. strks				shale streaks may be layers of insoluble residue
												chert is gray, but similar to wh. chert below, except gry chert has a more granular texture
66	sli. spiculitic v. cherty sli. calc. dolomudst						Y			lt. brn		dolomite filled vug
67	sli. spiculitic, v. cherty, sli. calc. dolomdst						Y		VUG (<1%)	lt. brn		burrows are more dolomitic than rest of rock
5068	sli. spiculitic v. cherty, sli. calc. dolo. mdst						Y (visible only in chert)		SX SMC VUG (2%) assoc. w/ chert	lt. brn		white, porous, dolo. "rind" surrounds chert. chert is translucent while w/ spicules
												5068 2428 2440