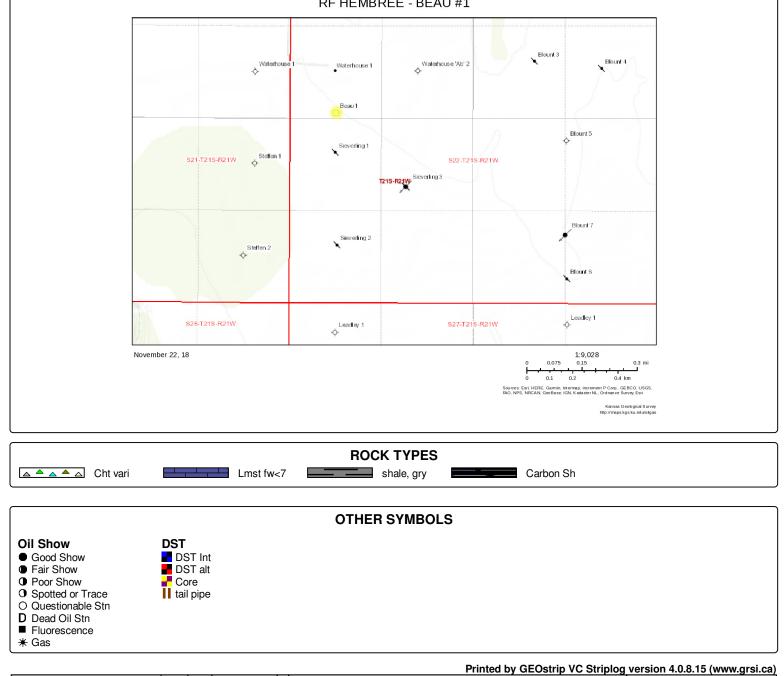
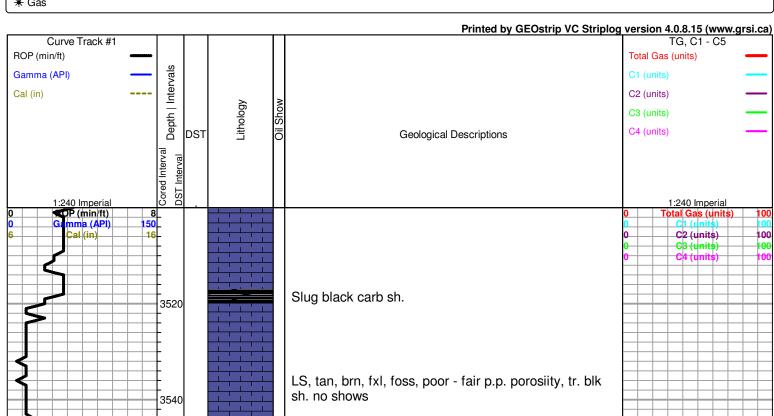


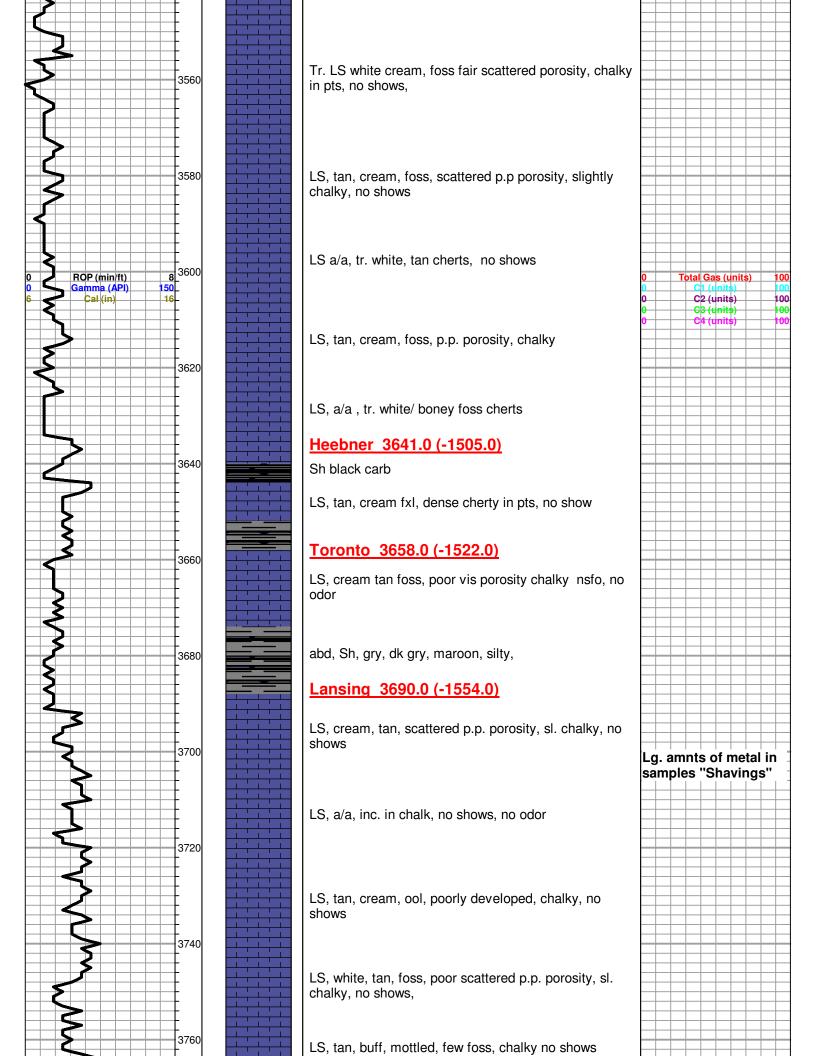
GEOLOGIST'S REPORT

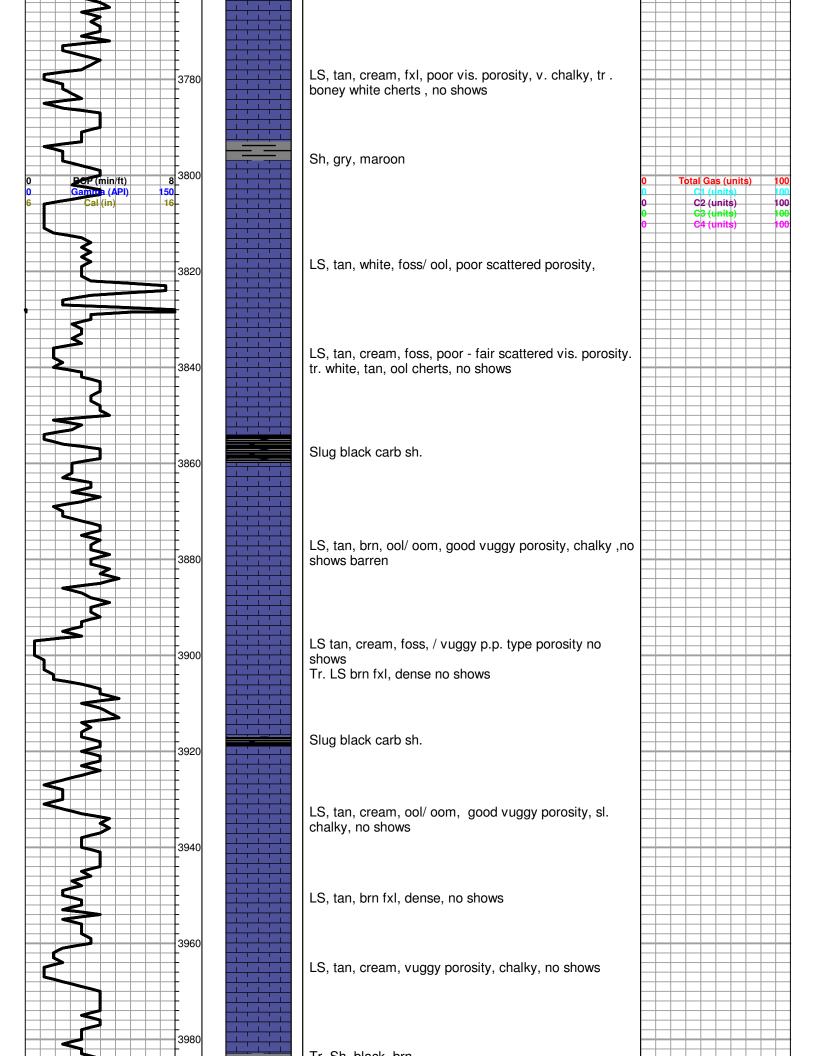
DRILLING TIME AND SAMPLE LOG

COMPANY_R.F. Hem	Ī	ELEVATIONS						
					ELE TATIONS			
LEASE Beau #1				KB_2136				
FIELD <u>Eakin NW</u>					3			
LOCATION S2-S2-SW-NW								
SEC 22 TWSP 21S RGE 21W					2129'			
COUNTY Hodgeman STATE Kansas					surements Are All m <u>KB</u>			
CONTRACTOR Pickrell Drilling, inc (Rig #10)					CAS I NG SURFACE 8 5/8"@ 1262'			
SPUD11/16/2018COMP11/25/2018					JCT I ON			
RTD_4292' LTD					CTRICAL SURVEYS			
MUD UP_700'					NONE			
SAMPLES SAVED FRO	OM MC	35	500'	TO_	RTD			
DRILLING TIME KEPT FROM3500'					RTD			
SAMPLES EXAMINED FROM3500'								
GEOLOGICAL SUPERVISION FROM 3540'								
GEOLOGIST ON WELL Wyatt Urban								
FORMATION TOPS	- LO	0	SAMPLES					
Anhydirte								
B. Anhydrite Heebner	1279 3641	(+857) (-1505)						
Toronto	3658	(-1505) (-1522)		-				
Lansing	3690	(-1554)						
Base KC	4055	(-1919)			22			
Ft. Scott	4213	(-2073)			\uparrow			
Cherokee	4231	(-2095)						
Miss	4271	(-2135)						
RTD	4292	(-2156)		L				

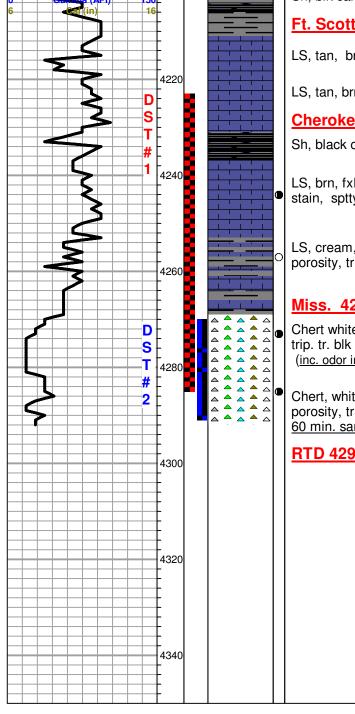








			II. SII, DIACK, DIII	
			LS, cream, foss, scattered p.p. type porosity, chalky, no shows	
0	SoP (min/ft) Samma (API) 15	4000 0	Tr. LS, tan, oom, fair oom porosity, no shows	0 Total Gas (units) 100 0 Cd (units) 100
6				0 C2 (units) 100 0 C3 (units) 100 0 C4 (units) 100
		4020	LS, brn, sl. chalky, poor scattered p.p. type porosity, no shows	
	<		TIO STIOWS	
		4040	Slug shale, aqua green waxey - silty	
	\$		LS, brn, dense, few foss, no shows	
		4060	BKC 4055.0 (-1919.0)	
	3		Sh, gry, green, maroon	
	\$	4080	LS, white, cream, poor scattered porosity, sl. chalky,	
	\(\)		no shows, tr. pyrite	
		4100		
	}		LS, tan, ool, chalky, no shows, tr. tan & white, cherts	
	\$		LS, tan, ool, chalky, no shows, tr. tan, white cherts	
	\	4120		
	2		Sh, gry- dk gr	
	E	4140		
	\$		LS, tan, buff, few foss, ool, poorly developed p.p. porosity, sl. chalky	
		4160	 Sh, gry, blk, few maroon	DST#1 4224-4284 45-45-45-45
			3.1, g. j. 5.1., 1011 maroon	1st Open: Weak building blow
	3	4180	Chert white, boney gry- poor scattered- vuggy porosity, Sh, a/a	6" 2nd Open:
	>		60 min sample decrease of SFO, ft. odor Weak: built to 3"	
0	ROP (alm/ft)	4200	odor Sh. blk carb	Recovery: 82' OWCM (5%O_5%W_90%M)



Ft. Scott 4213.0 (-2073.0)

LS, tan, brn sl. chalky, no shows

LS, tan, brn fxl, dense, cherty, no shows

Cherokee 4231.0 (-2095.0)

Sh, black carb, dk gry

LS, brn, fxl, heavily fractured, dense, tr. blk to dark brn stain, sptty lt.brn sfo, few vis gas bubbles. fair odor

LS, cream, white, chalky, few sl. dol., fair scattered porosity, tr. blk stain, fair odor, nsfo

Miss. 4271.0 (-2135.0)

Chert white/ boney, trip, scattered p.p. porosity, sl. trip. tr. blk stain, golden brn SFO, faint odor (inc. odor in 40 min. sample)

Chert, white, boney/ gry, poor scattered vuggy porosity, tr. brn-blk stain, poor spotty sfo, faint odor, 60 min. sample dec. SFO & odor

RTD 4292.0 (-2156.0)

Pressures: ISIP 396 psi FSIP 500 psi

IFP 21-40 psi FFP 44-52 psi HSH 2155-2136 psi

DST#2 4274-4292 45-45-30-30

1st Open:Weak building 5.5"

2nd Open: Weak; 2.5"

Recovery: 10' Clean Oil

55' Muddy Water (25%M, 75%W)

Pressures: ISIP 704 psi FSIP 386 psi IFP 19-32 psi FFP 32-43 psi HSH 2209-2091 psi