

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAAB OIL
 Lease / Well VONFELDT/STAB #4
 GL 2196 → KB 2201 (datum)

Location NE SE NE Sec. 19-125-19W
 County ELLIS State KS
 depth this sheet - from 1530 to 3250' OA.

scale 1" = 20'
 page 1 of 5

DRILLING TIME (min/ft)	DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)				
					0.5	1	2	3
	30			222' - 8 5/8" surface Anhydrite 1549(+652) Base 1597(+604)				
	50			TOP ANH.				
				ANHYDRITE				
	1600			BASE ANH.				
				MUD UP 2995' (MUDCO) MUD VIS 72, wt 8.8 (3050')				
	3160			bf fuxlw lst., tite, n.s. gry sh.				
				gry fuxlw lst., tite, n.s., sl. fossiliferous				
				gry sh. ↓				
	3200			gry sh. to sdy sh.				
				bf lst., n.s.				
				dk gry sh. MUD VIS 50; wt. 8.8				
	TP			Topoka 3240 (-1039)				
				bf fuxlw foss. lst., tite, n.s.				
	50							

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Location NE SE NE Sec. 19-12S-19W
 County ELLIS State KS scale 1" = 20'
 depth this sheet - from 3250 to 3430 page 2 of 5

DRILLING TIME (min/ft)						DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5				
						50			bf fuxlw tite lst., n.s.
									ala, very chalking, gd ϕ , n.s.
									dk gry sh.
									bf - gry lst., fuxlw, tite, n.s.
						3300			bf - gry fuxlw tite lst., very fossiliferous, n.s.
									MUD VIS 50; wt 8.8
									lt.-dk brn fuxlw granular lst., sl. ϕ , n.s.
									ala, sl. fossiliferous
									blk carb. sh.
						50			bf fuxlw tite lst., n.s., sl. fossiliferous
									gry fuxlw granular lst., tite, n.s.
									bf fu - mxtlw tite lst., w/ltc gry chert, n.s.
						3400			
									blk carb. sh.
									MUD VIS 49; wt. 9.0
									wh - bf fuxlw lst., tite, n.s.
						30			

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Location NE SE NE Sec. 19-125-19W
 County ELLIS State KS scale 1" = 20'
 depth this sheet - from 3430 to 3610' page 3 of 5

DRILLING TIME (min/ft)						DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5				
						30			wh-bf fuxlw lst., foss., cherty, lite, n.s.
						50			afa sl. oolitic MUD vis 52; wt 9.0
						H6			bf fu-med xw lite lst., sl. foss., n.s. Heebner Sh. 3471(-1270)
									blk carb. sh.
									wh fuxlw lst., sl. φ, n.s.
									grn-gry sh. to sdy. sh. Toronto 3494(-1293)
						Top			wh fuxlw cherty lst., lite, n.s.
						3500			dk gry sh. LKC 3515(-1314)
						LKC			
						A			wh fuxlw lite lst., n.s.
									tan-dk brn foss. lst., sl. φ, n.s. MUD vis 56; wt 9.1
						B			dk gry sh.
									bf fuxlw lst., lite, n.s.
						50	v. sl. show		gry sh.
						C			wh lst., sl. φ, v. sl. str, NO odor, NO free oil, NO fluorescence
									blk-gry sh
						D	sl. show		bf fuxlw lst., sl. pinpoint φ, sl. str, v. sl. odor, NO free oil, v. weak fluores.
									lite lst., n.s.
						E			dk gry sh.
						F			bf fuxlw lst., n.s.
									gry sh.
						3600			bf fuxlw oolitic lst., sl. φ, n.s.
									afa, no φ
						10			

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Location NE SE NE Sec. 19-12S-19W
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 depth this sheet - from 3610 to 3790 page 4 of 5

DRILLING TIME (min/ft)							DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5	6				
							10			wh fuxls granular lst., fair ϕ , n.s.
							10			⊙ CFS
										G
										bf fm-med xls tite lst., n.s. gry sh. sl. fossiliferous
										bf fuxls lst., sl. cherty, tite, n.s. blk carb. sh. to gry sh.
							50			MUD VIS 47; wt. 9.5
										bf fuxls lst., tite, n.s.
										H
										gry sh.
										bf fm-med xls tite lst., sl. oolitic, n.s.
										I
							3700			gry sh.
										bf fuxls tite lst., sl. fossiliferous, n.s. - dk gry sh.
										MUD VIS 58; wt. 9.5
										K
										bf fuxls lst., sl. ϕ @ top; no show except v. sl. odor ftrc stn (1 piece)
										bf fuxls tite lst., n.s.; sl. fossiliferous
										L
							50			bf fuxls tite lst., w/ some chert, n.s. blk sh.
										MUD VIS 54; wt. 9.5
										gry sh.
										wh lst., tite, n.s. (Marmaton) red-gry sh., clayey, soft
										pyritic
										BKC 3749(-1548)
										LC ?
										- tite lst., n.s. red sh., soft
							90			

LOST
CIRC @
3772
MIX MUD

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 depth this sheet - from 3790 to page 5 of 5

DRILLING TIME (min/ft)							DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5	6				
							90 PN			red sh., soft cherty lst, orange, fite, n.s.
							3800			<u>Pawnee Ls. 3794-3812'</u> wh-clear-orange chert MUD VIS 30. wt 8.7
										fresh-weathered, w/blk siltstone, fair str. (live + dead) No free oil, poor fluorescence; no odor red to gry sh. (very fine ϕ , mostly pinpoint, minor vugs)
										red-gry-grn shale grn sh. (Simpson)
							50			<u>Arbuckle 3856(-1655)</u> a/a, w/trc fite sst, n.s. wh fresh granular dolomite, sl. ϕ n.s., w/wh chert a/a w/trc sucrosic dolomite, cherty, sl. ϕ ; n.s.
										a/a, w/more chert, pyrite MUD VIS 72; wt 9.2
							3900			bf sl. sucrosic dolomite, sl-fr ϕ , n.s., minor chert a/a w/more chert
							TD 3920'			run Pioneer O-H log @ TD; PEA 12/11/2013 Note: Arbuckle top @ drilling break 3837'

5' samples ↓

rough →

