

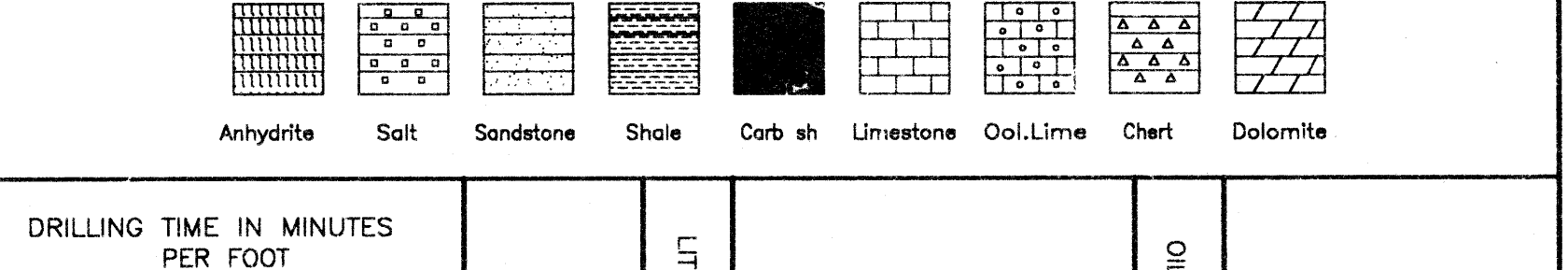
API# 15-135-25936

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: American Leasing, Inc. ELEVATIONS: \_\_\_\_\_  
 LEASE: Deaise 3-33 KB: 2152'  
 FIELD: Thistle Grove SW DE: \_\_\_\_\_  
 LOCATION: 1223' FSH + 2259' FWL CI: 2144'  
 SEC: 33 TWP: 17S RGE: 21W Measurement Area All  
 COUNTY: AVES STATE: KS From: KS  
 CONTRACTOR: Discovery Rig #3 SURFACE: 8 1/2" @ 211' 15 3/4"  
 SPUD: 2-6-17 COMP: 2-13-2017 PRODUCTION: 9201-52 1554  
 RTD: 4200 LTD: 4802 ELECTRICAL SERVICES: \_\_\_\_\_  
 WIND UP: 2550 TYPE WIND: Fixed DEF: DC/4

REMARKS: Anhydrite: 1422-1459  
Based upon sample examination, log analysis and DST  
Results, 5 1/2" casing was set @ 4201' 1' off h.k.  
 Recommended Runs:  
Ft. Scott: 4100-4103  
Miss: 4197-201



LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
	Carb sh
	Limestone
	Ool.Lime
	Chert
	Dolomite

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
3550				
Heedeen 3592				
-1440				
3600				
Leasing 3636				
-1484				
3650				
3700				
3750				
3800				
3850		ls: tan - white xh sd - ns		
		ls: gray xh		
		ls + sh		
3900		ss		
		sh: black ls: gray		
		sh: brown-red gray		
3950		ls + sh		
BAC 3952		ss		
-1800		ls + sh		
		ss		
4000		sh:		
		ss		
		cht orange		
Pouncee 4023		ls: gray - xh base		
-1871		ls: gray - dk gray xh - mic base ns		
4050		ss		
		a a		
		ss		
		ls: dk gray		
		sh gray		
		sh: black		
		ls: white-tan - xlv. + cherty, fossiliferous GP, fossiliferous pool inter.		DST # 1 4080-4135 IFP: 608 17 min NBB FSP: 608 6.5 min NBB FSP: 608 Rec: 577' GIP SD' MCGO 30266, 50260 2050 m FSP: 1168 FSP: 1184 IFP: 24-39 FFP: 40-59
4100		sh: red		
Cherokee 4114		sh: gray - brown NBB ss: fg - blue ss: fg - blue - white ss: brown		
-1962		sh: gray - brown - green ls: gray		
* 4150		ss: fg, PS, cluden, fsp sh: gray - green sh: white - gray, PS, fg, cluden NS		
		sh: green		
		ss		
		sh: green - brown		
Miss 4025		Dol: tan - suc, GSPD cht white - tan, xlv GP, fossiliferous, fsp xlv, GP, fsp AA - mic, chert		
-2033				
CFS 4200				
KTB 4208				
-2048				

CONTRACTOR: Discovery Rig #3 LOCATION: 1223' FSH + 2259' FWL  
 LEASE: Deaise 3-33 IP: \_\_\_\_\_ SEC: 33 TWP: 17S RING: 21 W  
 ELEVATION: 2152' KA RTD: \_\_\_\_\_ COUNTY: AVES STATE: KS