

Company/Operator Quest Development Co. P.O. Box 413 Iola, KS 66749		Well No. 21	Lease Name Mannschreck	Well Location 2107 th lnl, 695 fel		1/4 NE	1/4 SW	1/4 SE	Sec. 32	Twp. 22s	Rge, 17e	
Job/Project Name/No.		Well API # 15-031-23929	Type/Well Oil	County Coffee		State KS	Total Depth 1040	Date Started 8/11/2014	Date Completed 8/12/2014			
Driller/Crew		Surface Record		Coring Record								
Andy King	Charlie King	Bit Size: 11 1/4	From 0'	To 40'	Type PDC	Size 11 1/4	From 0'	To 40'	Core #	Size 1040	From 8/11/2014	To 8/12/2014
		Casing Size: 7"	From 40'	To 1040		5 7/8"	From 40'	To 1040				
		Casing Length: 40'										
		Cement Used: 8 sx										
		Cement Type: Portland										

From		To	Formation	From	To	Formation	From	To	Formation
0	29	29	Overburden	969	970	lime			
29	138	138	shale	970	974	shale			
138	254	254	lime	974	977	oil sand + lime (very thin cap rock)			
254	345	345	shale	977	979	good oil sand			
345	408	408	lime	979	981	black sand some oil			
408	445	445	shale	981	1040	shale			
445	573	573	lime						
573	581	581	sand/shale						
581	594	594	lime or sand						
594	733	733	shale						
733	741	741	lime						
741	774	774	shale						
774	781	781	lime						
781	850	850	shale						
850	859	859	lime						
859	877	877	sandy shale						
877	891	891	lime						
891	900	900	shale						
900	904	904	lime						
904	922	922	shale						
922	925	925	lime						
925	930	930	shale						
930	934	934	lime						
934	969	969	shale						

Well Notes: