

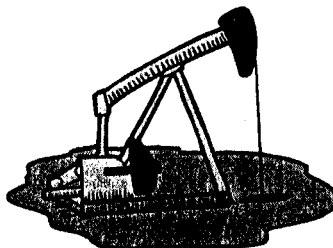
Well Refined Drilling Company, Inc. - Drilling Log
4270 Gray Road * Thayer, KS 66776

Rig #:	One					KC
API No:	15-133-25877-0000					
Operator:	Jones & Buck Development					
Address	PO Box 68					
	Sedan, KS 67361					
Well No:	JBD-4	Lease Name:	Kephart			
Footage Location:	350	feet from the	S	Line		
	2,990	feet from the	E	Line		
Contractor:	Well Refined Drilling Company, Inc., Contractor #33072					
Spud Date:	29-Aug-02	Geologist:				
Date Completed:	03-Sep-02	Total Depth:	750			

S.9	T.30	R.18
Location:	SE SE SW	
County:	Neosho	

[illegible]

Casing Record		
	Surface	Production
Size Hole:	12.500	6.750
Size Casing:	8.625	
Weight:		
Setting Depth:	20	
Type Cement:	Portland	
Sacks:	6	
Elevation:		



Rig Time	Work Performed

Well Log								
Formation	Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom
Overburden	0	2	Shale	459	474	Shale	721	750
Clay	2	6	Sand	474	482	TOTAL DEPTH	750	
Shale	6	58	Shale	482	504			
Lime	58	101	Coal	504	505			
Sand	101	118	Shale	505	508			
Coal	118	119	Pink Lime	508	536			
Sand	119	136	Black Shale	536	541			
Coal	136	137	Shale	541	580			
Sand	137	145	Oswego Lime	580	606			
S Shale	145	158	Black Shale	606	611			
Lime	158	273	Shale	611	613			
Water	173		Lime	613	619			
Shale	273	352	Black Shale	619	622			
Lime	352	355	Coal	622	623			
Shale	355	368	Shale	623	696			
Lime	368	385	Coal	696	697			
Shale	385	427	Shale	697	720			
Sand	427	459	Coal	720	721			