

Southwinds Energy, LLC Drillers Log

Operator: Raygary Oil Co.

Address: 3435 CR1900

Havana, KS 67347

Lease	Watson
Well No.	29
Footage Location	Section 34 T33S R14E
	1788 FSL & 3774 FEL
Contractor	Southwinds Energy, LLC
Spud Date	9/13/2013
Date Completed	9/17/2013
Total Depth	765'

Casing Record	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Cement
Surface	12.25"	8.625"	20 lbs./ft	23.3'	Portland - 6sx
Production	6.75"	4.5"	9.5 lbs./ft	758.05	-

Well Log

Formation	Top	Bottom	Formation	Top	Bottom
Topsoil	0	3			
Clay	3	11			
Lime	11	13			
Shale	13	41			
Lime	41	43			
Shale	43	64			
Lime	64	68			
Shale	68	75			
Lime/Shale	75	97			
Shale	97	334			
Lime	334	335			
Shale	335	398			
Sand	398	470			
Shale	470	499			
Lime	499	506			
Sand	506	521			
Sandy Shale	521	540			
Shale	540	682			
Lime	682	694			
Sand	694	724	Core	698	718
Shale	724	765			