

Southwinds Energy, LLC Drillers Log

Operator: G & J Oil Co.
 Address: PO Box 188
 Caney, KS 67333

License #34133

Lease	Brant
Well No.	13-03 API: 15-019-27365
Footage Location	Section 15 T34S R13E 1155 FSL & 4463 FEL
Contractor	Southwinds Energy, LLC
Spud Date	11/20/2013 ✓
Date Completed	11/25/2013 ✓
Total Depth	846' 6.75" 866' Core Hole

Core: 746' - 766'
846' - 866'

Casing Record	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Cement	Sacks
Surface	12.75"	8.625"	20lbs/ft	42.80'	Portland	6
Production	6.75"	4.5"	9.5lbs/ft	832'		

Well Log

Formation	Top	Bottom	Formation	Top	Bottom
Top Soil	0	4	Shale	382	431
Red Clay	4	18	Sand	431	469
Lime	18	23	Shale	469	547
Shale	23	40	Lime	547	551
Lime	40	43	Shale	551	559
Shale	43	45	Sand	559	569
Lime	45	46	Shale	569	717
Shale	46	56	Lime	717	719
Sand	56	66	Shale	719	724
Shale	66	100	Lime	724	744
Lime	100	126	Sand (oil show)	744	759
Sandy Shale	126	132	Core	746	766
Shale	132	139	Shale	759	804
Sand	139	207	Lime	804	813
Shale	207	227	Shale	813	817
Sand	227	243	Lime	817	846
Shale	243	273	Core	846	866
Lime	273	282			
Shale	282	285			
Sand	285	287			
Shale	287	290			
Sand	290	378			
Black Shale	378	382			
Lime	382	386			