

# McGOWAN DRILLING, INC.

Mound City, KS  
620.224.7406

Well #				Casing			
<b>Shannon #SB4</b>				Surface		Longstring	
<b>S&amp;B Operating, LLC</b>				Size:	8 5/8 "	Size:	4 1/2 "
				Tally:	20 '	Tally:	1179 '
API #:	15-001-31560	S-T-R:	14-25S-17E	Cement:	5 sx	Bit:	6.75 "
County:	Allen	Date:	9/4/2018	Bit:	11 "	Date:	9/11/2018
Top	Base	Formation		Top	Base	Formation	
0	1	Soil		1177	1222	Lime	Mississippian
1	21	Lime		1222		TD	
21	147	Shale					
147	236	Lime				Baffle: 1095.20'	
236	265	Shale					
265	267	Lime					
267	270	Sandy Shale					
270	370	Lime					
370	387	Shale					
387	409	Lime					
409	412	Black Shale					
412	430	Lime					
430	433	Shale					
433	443	Lime					
443	574	Shale					
574	575	Lime					
575	620	Shale					
620	624	Lime					
624	625	Shale					
625	631	Lime					
631	705	Shale					
705	709	Lime					
709	724	Shale					
724	734	Lime					
734	761	Shale					
				Sand / Core Detail			
761	778	Lime		Core #1:	1047-1067	Core #2:	
778	787	Shale				<b>Squirrel</b>	
787	790	Lime		820	825	Sand, some shale, soft, good odor & bleed	
790	815	Shale		825	828	Sand w/more shale, soft, good bleed	
815	820	Sandy Shale	Slight odor	828	832	Laminated, mostly shale, odor, little bleed	
820	832	Sand	See details			<b>Bartlesville</b>	
832	846	Sandy Shale		1045	1049	Sand, good oil saturation, good bleed	
846	1009	Shale				Core better than the samples	
1009	1045	Sandy Shale	with sand	1049	1067	Shale, sandy shale, no show	
1045	1049	Sand	See details			<b>Mississippi</b>	
1049	1093	Sandy Shale	with sand	1193	1204	Mississippi - hard	
1093	1177	Shale		1204	1211	Mississippi - 1st break, no oil show	
<b>Total Depth:</b>				<b>1222</b>			