

McGown Drilling, Inc.

Mound City, Kansas

Operator:

McGown Drilling, Inc.
Mound City, Kansas

Werkowitch # K-5

Linn Co., KS
17-22S-22E
API: 107-24818

Spud Date:	9/13/2013	Surface Bit:	11.0"
Surface Casing:	8.625"	Drill Bit:	6.75"
Surface Length:	21.70'	Longstring:	883.0'
Surface Cement:	4 sx	Longstring Date:	9/24/2013

Driller's Log

Top	Bottom	Formation	Comments
0	3	Soil	
3	20	Shale	
20	57	Lime	
57	61	Bl. Shale	
61	63	Lime	
63	64	Shale	
64	82	Lime	
82	86	Shale	
86	95	Lime	
95	99	Shale	
99	102	Lime	
102	106	Shale	
106	110	Lime	
110	136	Shale	
136	140	Sand	
140	144	Sandy Shale	
144	233	Shale	
233	236	Sand	Limey
236	270	Shale	
270	275	Shale	
275	285	Shale	
285	289	Lime	
289	298	Shale	
298	307	Lime	
307	317	Shale	
317	328	Sand	

Werkowitch K-5

Linn Co., KS

328	338	Shale	
338	339	Coal	
339	354	Shale	
354	355	Coal	
355	360	Shale	
360	372	Lime	
372	387	Shale	
387	390	Lime	
390	391	Coal	
391	426	Shale	
426	450	Lime	
450	475	Shale	
475	480	Sand	
480	486	Sandy Shale	
486	502	Shale	
502	510	Sandy Shale	
510	560	Shale	
560	562	Lime	
562	609	Shale	Muddy
609	619	Shale	
619	624	Shale	Muddy
624	629	Shale	
629	630	Coal	
630	655	Shale	
655	657	Sandy Shale	
657	673	Shale	
673	733	Shale	
733	734	Coal	
734	792	Shale	
792	795	Sand	
795	796	Shale	
796	797	Coal	
797	801	Shale	
801	902	Lime	
902		TD	