

# McGown Drilling, Inc.

Mound City, Kansas

**Operator:**

McGown Drilling, Inc.  
Mound City, Kansas

## Randall C13

Linn County, Kansas  
11-22S-23E  
API: 107-25065

**Spud Date:** 12/12/2014  
**Surface Casing:** 8-5/8"  
**Surface Length:** 23'  
**Surface Cement:** 4sx  
**Longstring:** 4-1/2"

**Surface Bit:** 11"  
**Drill Bit:** 6-1/8"  
**Longstring:** 449.05'  
**Longstring Date:** 12/17/2014

## Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	15	Clay	
15	17	Gravel	
17	18	Shale	
18	31	Lime	
31	63	Shale	
63	66	Sandy Shale	
66	87	Shale	
87	99	Lime	Rainbow in samples, Good odor, fair bleed to pit
99	114	Shale	
114	118	Lime	
118	120	BI Shale	
120	128	Sand	Slight bleed to pit, Good odor
128	133	Sandy Shale	
133	158	Shale	
158	163	Lime	
163	166	Shale	
166	176	Lime	
176	180	BI Shale	
180	194	Shale	
194	220	Sandy Shale	
220	228	Shale	
228	240	Sand	Good odor, Slight bleed, Soild grey sand.
240	347	Shale	
347	349	Lime	
349	351	Coal	

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351	360	Shale	White Muddy
360	375	Shale	
375	379	Sandy Shale	White Muddy
379	384	Sand	Dark brown, Slight odor
384	390	Shale	
390	406	Sandy Shale	slight odor
406	437	Shale	
437	440	Shale	White Muddy
440	466	Sand	
<b>466</b>		<b>TD</b>	

442-445 Sand/Sandy shale very laminated

445-448 Sand, poor oil saturation, little bleed back

448-450 Better sand, fair saturation, mostly gas

450-460 Sand, Some shale laminations, very well saturated, good bleed back

460-462 Very good bleed to pit, Good show in samples.

462-464 Excellent show to pit, dark soft sand, well saturated.

<b>Run</b>	<b>Coring Footage</b>	<b>Rec.</b>
1	442'-462'	18.5'
2		