

---

---

# McGOWN

DRILLING, INC.

---

---

**Operator:**  
N&W Enterprises, Inc.  
Fort Scott, KS

**Giefer #21 Inj.**  
Crawford Co., KS  
34-28S-22E  
API: 037-22266

**Spud Date:** 3/28/2014  
**Surface Casing:** 7.0"  
**Surface Length:** 20'  
**Surface Cement:** 4 sx  
**Longstring:** 2.875" EUE

**Surface Bit:** 9.875"  
**Drill Bit:** 5.875"  
**Longstring:** 410.90'  
**Longstring Date:** 3/31/2014

### Driller's Log

Top	Bottom	Formation	Comments
0	2	Soil	
2	6	Clay	
6	13	Sandstone	
13	72	Shale	
72	76	Lime	
76	80	Shale	
80	115	Lime	
115	139	Shale	
139	142	Sandy Shale	
142	160	Shale	
160	166	Sand	Grey, hard
166	182	Shale	
182	201.5	Lime	20'
201.5	209	Shale	
209	214	Lime	5'
214	216	Dk. Shale	
216	317	Shale	
317	319	Lime	Dark
319	382	Shale	
382	394	Sand	Good oil show
394	415	Shale	
<b>415</b>		<b>TD</b>	