

McGOWN

DRILLING, INC.

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

Giefer #20 Inj.
Crawford Co., KS
34-28S-22E
API: 037-22261

Spud Date: 3/27/2014
Surface Casing: 7.0"
Surface Length: 20'
Surface Cement: 4 sx
Longstring: 2.875" EUE

Surface Bit: 9.875"
Drill Bit: 5.875"
Longstring: 410.20'
Longstring Date: 3/28/2014

Driller's Log

| Top | Bottom | Formation | Comments |
|------------|--------|-------------|--------------------------------------|
| 0 | 2 | Soil | |
| 2 | 8 | Clay | |
| 8 | 15 | Sandstone | |
| 15 | 29 | Shale | |
| 29 | 39 | Sandy Shale | |
| 39 | 79 | Shale | |
| 79 | 81 | Lime | |
| 81 | 86 | Shale | |
| 86 | 119 | Lime | |
| 119 | 121 | Dk. Shale | |
| 121 | 165 | Shale | |
| 165 | 169 | Sand | Grey, hard |
| 169 | 180 | Shale | |
| 180 | 182 | Coal | |
| 182 | 188 | Shale | |
| 188 | 208 | Lime | 20' |
| 208 | 215 | Shale | |
| 215 | 220 | Lime | 5' |
| 220 | 378 | Shale | |
| 378 | 388 | Coal | |
| 388 | 398 | Sand | Good oil show, good bleed, soft sand |
| 398 | 415 | Shale | |
| 415 | | TD | |