| Marc A. Downing<br>Consulting Petroleum Geologist | Geologic Report<br>Drilling Time and Sample Log |
|---|---|

| | | | |
|---|---|---|---|
| Operator | Downing-Nelson Oil Co., Inc. | Elevation<br>KB 2196<br>DF 2194<br>GL 2188 | |
| Lease | Seitz-Barnhardt | No. C-4 | |
| API # | 15-195-22953-0000 | Casing Record<br>Surface<br>8 5/8" @ 216' | |
| Field | Ridgeway | Production<br>5 1/2" @ 3950 | |
| Location | 1000' FNL & 1650' FEL | Electrical Surveys<br>CNDL, DIL, MEL | |
| Sec. 34 | Twp. 12s | Rge. 21w | |
| County Trego | State Kansas | | |

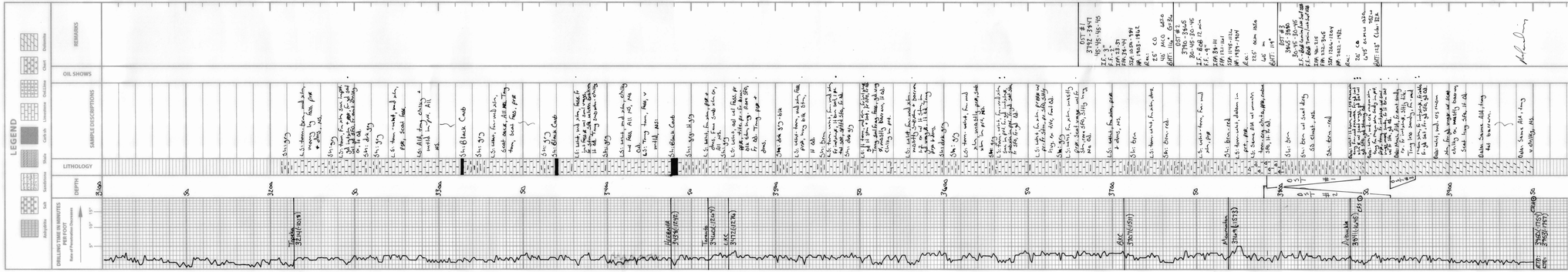
| Formation | Sample tops | Log Tops | Datum | Struct Comp |
|---|---|---|---|---|
| Top Anhydrite | 1569 | 1559 | +627 | +10 |
| Base Anhydrite | 1606 | 1604 | +582 | +7 |
| | | | | |
| Topeka | 3214 | 3215 | -1019 | +1 |
| Heebner | 3438 | 3439 | -1243 | -2 |
| Toronto | 3460 | 3462 | -1266 | -2 |
| LKC | 3472 | 3474 | -1278 | -2 |
| BKC | 3707 | 3709 | -1513 | FL |
| Marmaton | 3769 | 3770 | -1574 | -3 |
| Arbuckle | 3841 | 3844 | -1648 | -12 |
| | | | | |
| Total Depth | 3950 | 3953 | -1757 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Reference Well For Structural Comparison DNOCI
Seitz-Barnhardt C #1 335' FNL & 1700' FEL Sec. 34-12s-21w

| Drilling Contractor | Discovery Drilling, Rig #3 | | |
|---|---|---|---|
| Commenced | 6-20-14 | Completed | 6-25-14 |
| Samples Saved From | 3200 | To | RTD |
| Drilling Time Kept From | 3100 | To | RTD |
| Samples Examined From | 3200 | To | RTD |
| Geological Supervision From | 3100 | To | RTD |

**Summary and Recommendations**

**Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion in the Arbuckle.**

Respectfully Submitted,

Marc A. Downing