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| Marc A. Downing | | Geologic Report | |
| Consulting Petroleum Geologist | | Drilling Time and Sample Log | |
| Operator Downing-Nelson Oil Co., Inc. | | Elevation KB 2046 DF 2044 GL 2038 | |
| Lease Black & Gold No. 1-17 | | API # 15-051-26765-0000 | |
| Field Wildcat | | Casing Record Surface 8 5/8" @ 729' Production 5 1/2" @ 374' | |
| Location 1805' FNL & 1680' FWL | | Electrical Surveys CN DL, DIL, MEL, Sonic | |
| Sec. 17 | Twp. 14s | Rge. 18w | |
| County Ellis | | State Kansas | |
| Formation | Sample tops | Log Tops | Datum |
| Top Anhydrite | 1273 | 1272 | +774 |
| Base Anhydrite | 1317 | 1317 | +729 |
| Struct Comp | | | |
| Topoka | 3047 | 3049 | -1003 |
| Heebner | 3296 | 3299 | -1253 |
| Toronto | 3326 | 3326 | -1280 |
| LKC | 3351 | 3352 | -1306 |
| BKC | 3577 | 3579 | -1533 |
| Arbuckle | 3642 | 3644 | -1598 |
| Total Depth | 3745 | 3745 | -1699 |
| Reference Well For Structural Comparison Leben Drilling Fort Hays College #1 NE NW NW Sec. 17-14s-18w | | | |

| | |
|-----------------------------------|-------------------|
| Discovery Drilling, Rig #1 | |
| Commenced 1-6-15 | Completed 1-13-15 |
| Samples Saved From 3000 | To RTD |
| Drilling Time Kept From 2950 | To RTD |
| Samples Examined From 3000 | To RTD |
| Geological Supervision From 2950 | 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

