

**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY: **SHAKESPEARE OIL CO.**  
 LEASE: **Orley 4-14**  
 FIELD: **Chalk Buttes**  
 LOCATION: **2306 F.W.L. 335<sup>th</sup> FEEL**  
 SEC: **14 T15SP 14S** ROE: **32W**  
 COUNTY: **Logan** STATE: **Kansas**

CONTRACTOR: **HD Drilling Rig #2**  
 SPUD: **2-7-11** COMP: **2-22-11**  
 RTD: **4:57:00** LTD: **4:51:8"**  
 MUD UP: **3:40:00** TYPE MUD: **Chemical**  
 SAMPLES SAVED FROM: **3550'** to RTD  
 DRILLING TIME KEPT FROM: **3550'** to RTD  
 SAMPLES EXAMINED FROM: **3550'** to RTD  
 GEOLOGICAL SUPERVISION FROM: **3600'** to RTD

GEOLOGIST ON WELL: **Tim Priest**  
 By: **Weatherford**

FORMATION TOPS: **ELECTRIC LOG** SAMPLE  
 Anhydrite: **2261 (+542)** 2264 (+539)  
 Heebner Shale: **3777 (+974)** 3779 (+976)  
 Lansing: **3815 (+1012)** 3813 (+1010)  
 SARC: **4062 (+1299)** 4066 (+1263)  
 BKC: **4150 (+1347)** 4151 (+1348)  
 Fort Scott: **4318 (+1515)** 4318 (+1515)  
 Cherokee Shale: **4346 (+1543)** 4348 (+1545)  
 Mississippian: **4432 (+1629)** 4434 (+1631)

ELEVATIONS  
 KB: **2803'**  
 DF: \_\_\_\_\_  
 GL: **2793'**

Measurements Are All From **KB**

CASING  
 CONDUCTION: **N/A**  
 SURFACE: **8-5/8" @ 225'**  
 PRODUCTION: \_\_\_\_\_

ELECTRICAL SURVEYS  
 CND/D/SP/P/E: \_\_\_\_\_  
 Micro: \_\_\_\_\_

REMARKS: Due to the positive results of DST #6, it was decided to set production casing to further test the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-109-20976-00-00

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