

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**BACH OIL PRODUCTION**  
**WELL: OXBOW UNIT #1**  
**LOC.: 600' FNL & 100' FEL**  
**SEC. 11-1-19W**  
**PHILLIPS COUNTY, KANSAS**  
**API: 15-147-20716-00-00**

**ELEVATION**  
 KB: 2009  
 GL: 2004  
 LOG MEASURED FROM: KB

**SURFACE CASING**  
 20# 8 5/8 "  
 Casing set @ 222'  
 w/175 SX

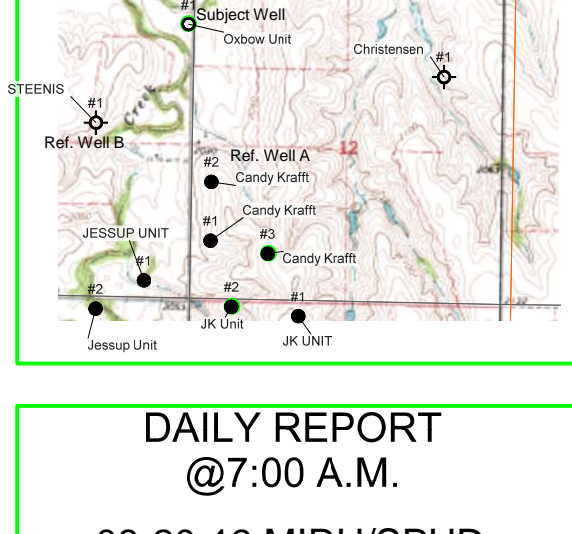
**PRODUCTION CASING**  
 5 1/2" Casing set

**WELL LOG SURVEYS**  
 DIL/CDL/MICRO

**DRILLING CONTR.: MURFIN RIG #24**  
**SPUD: 05-20-13 COMP: 05-25-13**  
**MUD UP: 2800' TYPE MUD: CHEM.**  
**DRILL TIME: 2900 to' RTD**  
**RTD: 3501 LTD: 3500'**  
**SAMPLES SAVED: 2900'-RTD**  
**GEOLOGIST: ROBERT J. PETERSEN**

### ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS.A	POS.B
Stone Corral	1643	+366	-7	-1
Base Stone Corral	1666	+343	-8	+1
Topeka	3003	-994	-10	+1
Heebner	3206	-1197	-12	-1
Toronto	3234	-1225	-13	+3
Lansing	3252	-1243	-15	-3
Muncie Creek	3363	-1354	-15	N/A
Stark	3427	-1418	-13	N/A
BKC	3468	-1459	-12	Flat
LTD	3500	-1491	N/A	N/A



**REFERENCE WELL:**  
 Ref. Well A  
 Bach  
 Candy Krafft #2  
 2000' FSL & 330' FWL  
 12-1-19W

Ref. Well B  
 Musgrove  
 Steenis #1  
 SE SW NE  
 11-1-19W

### REMARKS AND RECOMMENDATIONS

Production casing was set to further test this well.

Respectfully submitted,  
*Robert J. Petersen*  
 Robert J. Petersen

**DAILY REPORT**  
**@7:00 A.M.**  
 08-20-13 MIRU/SPUD  
 08-22-13 415' Drilling  
 08-23-13 2325' Drilling  
 08-23-13 3158' Short trip  
 08-24-13 3365' DST #2  
 08-25-13 3501' RTD

