

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: THARMAN UNIT#1

**LOC.: 280' FNL & 400' FWL
SEC. 9-2-19W
PHILLIPS COUNTY, KANSAS
API: 15-147-20703-00-00**

ELEVATION

KB: 2263
GL: 2258
LOG MEASURED
FROM: KB

SURFACE CASING

8 5/8" Casing set @ 248
w/175 SX

PRODUCTION CASING

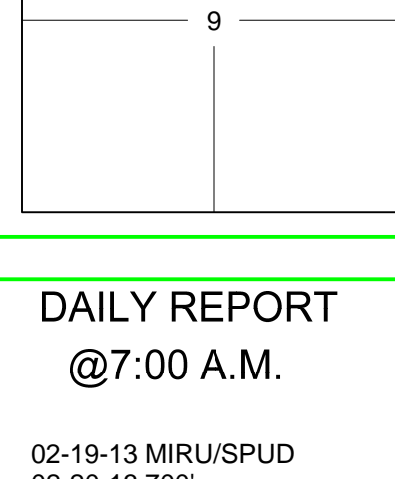
5 1/2"
Casing set

WELL LOG SURVEYS

Compensated Density
Dual Induction
Micro

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1884	+379	-18
Base Stone Corral	1887	+376	-3
Topeka	3231	-968	-4
Heebner	3437	-1174	-2
Toronto	3467	-1204	-4
Lansing	3483	-1220	-3
Stark	3660	-1397	-7
Base Kansas City	3699	-1436	-3



REFERENCE WELL:

Bach
Delmont #1
W/2 E/2 E/2 NE
8-2S-19W

REMARKS AND RECOMMENDATIONS

Production casing has been run to further test this well.

Respectfully submitted,

Robert J. Petersen
Robert J. Petersen

DAILY REPORT

@7:00 A.M.

02-19-13 MIRU/SPUD
02-20-13 700'
(Shut-down for weather)
02-23-13 Start up
02-24-13 2400'
02-25-13 3424' Bit trip
02-26-13 3725' Logging

