COMPANY: Culbreath Oil & Gas Company, Inc.
LEASE: Kronnweiler #1-27
API #: 15-09-23494
LOCATION: 992 FSL 2542 FEL
SECTION: 27 TWP: 14S RGE: 24W
COUNTY: Logan STATE: Kansas
SPUD: 10-25-13 9:00 am TD: 4740
MUD UP: 3800 ELEVATION: 2817 KB
DRILLING CONTRACTOR: Cardinal Drilling Rig #2

GEOLOGICAL REPORT

Larry A. Nicholson

FIELD

MAIN OIL
AS DISCOVERED

COMPANY	Culbreath Oil & Gas Company, Inc.
API #	15-09-23494
LEASE	Kronnweiler
LOCATION	992 FSL 2542 FEL
SURVEY	992 FSL 2542 FEL
SECTION	27
TWP	14S
RGE	24W
COUNTY	Logan
STATE	Kansas
SPUD	10-25-13 9:00 am
TD	4740
MUD UP	3800
DRILLING CONTRACTOR	Cardinal Drilling Rig #2
SAMPLE BOXES	Kansas
DRILLING TIME	Kansas
ELECTRICAL SUPERVISION	Larry A. Nicholson
WELLSITE GEOLOGIST	Larry A. Nicholson

27
14S
24W

ELEVATIONS
KB 2817
GL 2807
Log Measurement KB
All Depths Are From KB 4 ft. 2817

CASING RECORD
Surface Size 8 5/8 in @ 223 ft w/ 150 sx
Production Size 4 1/2 in @ 4740 ft w/ 175 sx

ELECTRICAL SURVEY: Dual Induction, Dual Compensated Porosity, Borehole Compensated Sonic, Micro Log

FORMATION TOPS & STRUCTURAL POSITION

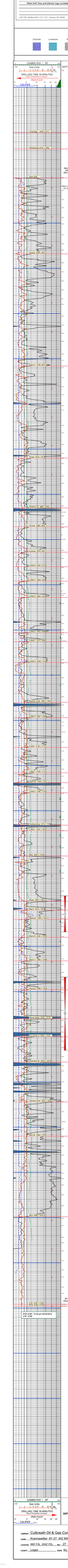
FORMATION	SAMPLE	LOG	DATUM	STRUCTURAL POSITION
Anhydrite			2406	+411
Base Anhydrite			2440	+377
Lansing			3966	-1149
Muncie Creek			4206	-1389
Stark			4299	-1482
Swope			4316	-1499
Hebner			4376	-1559
Dennis			4399	-1582
Fort Scott Ls			4519	-1702
Chanute Sh			4578	-1761
Mississippian			4660	-1843
Viola			4718	-1901
ARBUCKLE DRILLED			4740	-1923

REMARKS & RECOMMENDATIONS

Based on shows and drill stem test this well was P&A.

**Note Drill Time and Electric logs correlate and are on same depth.*

LAN TEC Modified DDS 707, 4/12 Version 05.2005 Tech: LB Area: KS & OTA Unit no: 2802 Unit

LEGEND

Chert | Crystalline Rock | Sandstone | Shale | Limestone