Woolsey Operating Company, LLC Scale 1:240 (5"=100') Imperial Measured Depth Log					
Well Name:	WARREN FEE 10				
Location:	NW SE SW SW				
License Number:	API: 15-007-23916-00-00 Region: Barber County, Kansas				
Spud Date:	July 18, 2012 Drilling Completed: July 30, 2012				
Surface Coordinates:	Section 18-T32S-R12W, 480' FSL, 785' FWL Medicine Lodge North Pool				
Bottom Hole	Vertical Hole				
Coordinates:					
Ground Elevation (ft):	1615 K.B. Elevation (ft): 1625				
Logged Interval (ft):	3500 To: RTD Total Depth (ft): 4865				
Formation:	McLish Shale				
Type of Drilling Fluid:	Chemical Mud, Displace at 3259'. Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com				

## OPERATOR

Company: Woolsey Operating Company,LLC Address: 125 N. Market, Suite 1000 Wichita, KS 67202

## GEOLOGIST

Name: W. Scott Alberg Company: Alberg Petroleum, LLC Address: 609 Meadowlark Lane Pratt, Kansas 67124

## **FORMATION TOPS**

	SAMPLE TOPS	LOG TOPS
LECOMPTON	3530(-1905)	3531(-1906)
KANWAKA	3560(-1935)	3562(-1937)
HEEBNER	3695(-2070)	3697(-2072)
TORONTO	3711(-2085)	3712(-2086)
BROWN LIME	3865(-2240)	3866(-2241)
LANSING	3874(-2249)	3875(-2250)
HUSHPUCKNEY SHALE	4266(-2641)	4266(-2641)
B/KC	4327(-2702)	4326(-2701)
MISSISSIPPIAN	4397(-2772)	4398(-2773)
KINDERHOOK SHALE	4591(-2966)	4589(-2964)
WOODFORD SHALE	4656(-3031)	4656(-3021)
VIOLA	4686(-3061)	4686(-3061)
SIMPSON GROUP	4778(-3153)	4775(-3150)
RTD	4865(-3240)	
LTD		4865(-3240)

COMMENTS Surface Casing: Set 5 joints 10 3/4" at 216'(tallied 202') with 240 sxs Class A, 2% gel, 3% cc, plug down at 7:30 pm on July 18, 2012. Cement did Circulate. Production Casing: 5 1/2" Casing Ran. Deviation Surveys:1 1/4 - 216', 1- 1066', 1 - 1558', 1-2082, 3/4 2577', 1 - 3074', 1 - 3568', 2 - 4063', 3/4 - 4188', 2-4423', 1 3/4 - 4481', 1 1/4 - 4865'. Contractor Bit Record:

1- 14 3/4" out at 216'. 2- 7 7/8" out at 4865'.

Pipe Strap at 4423'

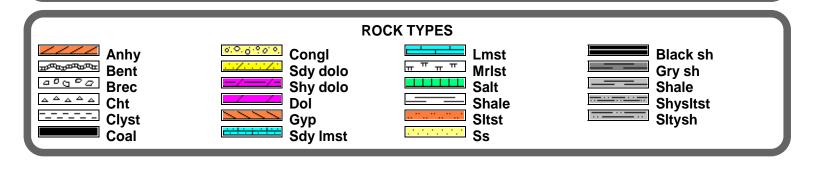
Board 4435.41' Strap 4438.69'

Strap long 3.28'.

Gas Detector: Woolsey Operating Company, Trailer #1 Mud System: Mud Co, Brad Bortz, Engineer DSTs: Trilobite Testing Logged by Superior Well Services. LTD - 4865'.

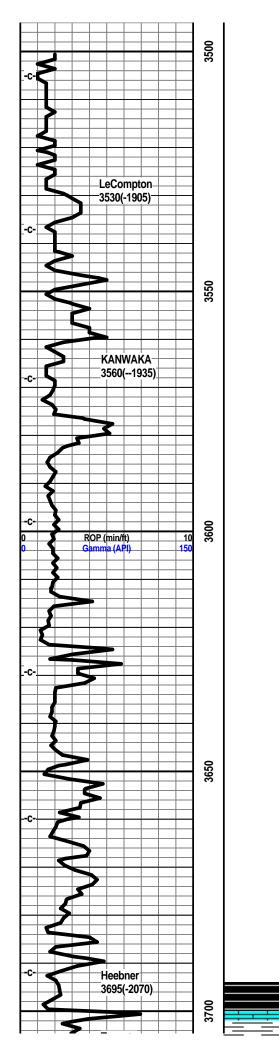
DST #1 4362 to 4423' Mississippi Times 30-60-60-120 1st Opening - Strong Blow BOB in 2 minutes - no blow back 2nd opening - Strong Blow, GTS 45 minutes - no blow back. IHP 2114# FHP 2090# IFP 39-60# FFP 75-96# ISIP 1070# FSIP 1076# Recovery: 100' SGOCM (15% g, 3% O, 82% M) 110' GOCM (25% g, 15% O, 60% M) Gas Gauge: 45 min 6.5 MCF 50 min 6.8 MCF 60 min 7.3 MCF DST #2 4424 to 4481' Mississippi Times 30-60-60-120 1st Opening - Strong Blow BOB 30 Seconds, GTS 30 min - Weak 1/4" blow back 2nd Opening - Strong Blow BOB immediately, GTS immediately. Fair 4" blow back IHP 2151# FHP 2137# IFP 55-109# FFP 76-212# ISIP 1342# FSIP 1313# Recovery: 300' GO (20% G, 80% O), 60' MC&GCO (20% G, 65% O, 15%M), 30' MC&GCWO (20% G, 40% O, 25% W, 15% M) Chlorides 95,000 ppm, 36 degree Gravity. Gas Gauge 5 min 8.5 MCF 10 min 9.7 MCF 20 min 13.0 MCF 30 min 15.5 MCF 40 min 19.6 MCF 50 min 21.7 MCF 60 min 23.8 MCF **CREWS** Hardt Drilling, Inc Rig #1

Tool Pusher - Scott Adelhardt Drillers - Days - Steve Myers Evening - Jody Divine Morning - Billy Maas



## DSTs

	ACCESSORIES								
MINERAL         ✓       Anhy         △       Arg         B       Bent         △       Bit         ③       Brecfrag         △       Calc         ■       Calc         ■       Carb         ▲       Chtdk         △       Chtlt         ✓       Dol         ●       Ferrpel         △       Ferr         ✓       Glau         ○       Gyp         ▼       Marl         ●       Nodule         ●       Phos         ○       Sandy         ✓       Silt	<ul> <li>Chlorite</li> <li>Dol</li> <li>Sand</li> <li>Slty</li> </ul> FOSSIL <ul> <li>Algae</li> <li>Algae</li> <li>Algae</li> <li>Belm</li> <li>Bioclst</li> <li>Brach</li> <li>Bryozoa</li> <li>Cephal</li> <li>Coral</li> <li>Coral</li> <li>Crin</li> <li>Echin</li> <li>Fish</li> <li>Fossil</li> <li>Gastro</li> <li>Oolite</li> <li>Ostra</li> </ul>	▼       Pelec         ∅       Pellet         ∅       Plant         ∅       Plant         ∅       Fuss         ₀       Oomoldic         STRINGER       Anhy         △       Arg         ◙       Dol         ⊠       Gyp         Ls       T         ™       Sitstrg         ∑       Ssstrg         Carbsh       Clystn         Dol       Dol	Grysh Gryslt Lms Sandylms Sh Sltstn TEXTURE Boundst C Chalky C Cryxln B Earthy FX Finexln Grainst L Lithogr Microxln Mudst Packst Wackest						
Curve Track 1           ROP (min/ft)           Gamma (API)	July 18, July 19, July 20, July 21, July 22, July 23, July 24, July 25, July 26, July 27, July 28, July 28, July 29,	Geological Descriptions	TG, C1-C5 TG (units) C2 (units) C3 (units) C5 (units) C5 (units)						



Shale, black, grey, carb. Limestone, grey-white, xln, dense.

