### LITHOLOGY STRIP LOG

## **WellSight Systems**

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Werth Farms #1-12

Location: SW SE SW

License Number: API: 15-179-21367-00-00 Region: Sheridan County, Kans

Spud Date: July 21, 2014 Drilling Completed: July 29, 2014

Surface Coordinates: 330' FSL & 1650' FWL Section 12-TWP 10S - RNG 26 W

**Bottom Hole Vertical Hole** 

**Coordinates:** 

Ground Elevation (ft): 2589 K.B. Elevation (ft): 2594 Logged Interval (ft): 3500 To: RTD Total Depth (ft): 4120

Formation: Marmaton

Type of Drilling Fluid: Chemical Displace at 3245'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### **OPERATOR**

Company: Eternity Exploration, LLC Address: 338 Spyglasss Drive

Coppell, Texas 75019+5430

#### **GEOLOGIST**

Name: W. Scott Alberg

Company: Alberg Petroleum, LLC Address: 609 Meadowlark Lane

**Pratt, Ks 67124** 

#### **COMMENTS**

Surface Casing: Ran 5 joints new 20# 8 5/8" and set at 218.92', cement did circulate. Plug down at 6:30 am, July 22, 2014.

**Production Casing: None** 

Deviation Surveys: 1/4 degree @ 220'; 1/4 - 3864', 1 1/4 degree @ 4120'.

Pipe Strap - 3854' - 2.03' Short to Board.

Contractor Bit Record: 1-12 1/4" out at 220'

2- 7 7/8" out at 4120'.

Mud: KDT Mud, Ken Rupp, Engineer

Logs: NABORS Completion and Production Services, Inc.

DIL, CDL/CDL, Micro

LTD - 4120'.

Gas Detector: None

# **FORMATION TOPS**

	SAMPLE TOPS	LOG TOPS
ANHYDRITE	2211(+383)	2210(+384)
BASE ANHYDRITE	2245(+349)	2242(+352)
TOPEKA	3588(-994)	3586(-992)
HEEBNER	3811(-1217)	3810(-1216)
TORONTO	3830(-1236)	3832(-1238)
LANSING	3847(-1253)	3846(-1252)
'B' Zone	3873(-1279)	3876(-1282)
'H' Zone	3985(-1391)	3983(-1389)
'K' Zone	4046(-1452)	4046(-1452)
B/KC	4080(-1486)	4080(-1486)
RTD	4120(-1526)	
LTD		4120(-1526)

**DSTs** 

DST #1 3804 to 3854 Toronto & Lansing A Zone Times 30-60-30-60 1st Opening - BOB 18 minutes, no blow back 2nd Opening - Built to 9", no blow back Recovery - 5' OMCW (5% O, 40% M, 55% W) 65' MCW (50% M, 50% W), 63' MCW (20% M, 80% W) 63' MCW (5% M, 95% W, 63' MCW (50% M, 50% W) IFP 22-83# FFP 87-136# ISIP 742# **FSIP 714#** IHP/FHP 1896/1796# **Temp 123** DST #2 3856 to 3892 Lansing B & C Zones Times 30-60-30-60 1st Opening - BOB 2 minutes, no blow back 2nd Opening - BOB 6 minutes, no blow back Recovery: 302' OMCW (3% O, 67% W, 30% M) 1018' MCW (90% W, 10% M), 63' MCW (60% W, 40% M) IFP 98-380# FFP 398-535# ISIP 713# **FSIP 697#** IHP/FHP 1864/1791# **Chlorides 41,000, Temp 126** DST #3 3964 to 3993' H Zone Times 30-60-30-60 1st Opening - BOB 12 minutes, 1/4" blow back. 2nd Opening - BOB 16 minutes, 2" blow back. Recovery: 20' GO (5% G, 95% O) 106' OMCW (5% O, 55% W, 40% M) 63' OMCW (2% O, 78% W, 20% M) IFP 25-65# FFP 70-102# ISIP 807# **FSIP 747#** IHP/FHP 1985/1837# **Temp 126** 

DST #4 3996 to 4056' I, J & K Zones

Times 30-30-30-30

1st Opening - Built to 1 inch, no blow back.

2nd Opening - No Blow, no blow back.

Recovery: 2' Drilling Mud w few oil spots.

IFP 16-19# FFP 18-20# **ISIP 77# FSIP 47#** IHP/FHP 2041/1867#

Temp 117

### **CREWS**

White Knight Drilling, Rig #1

Tool Pusher -**Terry Austin Daylight Driller - Gary Chard Evening Driller - Jerry Rowe** Morning Driller - Marlan Garcia Relief Driller - Robert Galbavy

Based on sample shows, structural position and the results of the DST's, it was recommended by all parties this test well be plugged and abandoned. Respectfully, W. Scott Alberg **ROCK TYPES** Anhy Congl Lmst Black sh TANGER PARTIES Mrlst **Bent** Sdy dolo Gry sh 00000 Shy dolo Shale **Brec** Salt Shale Shysltst Cht Dol Gyp **Clyst** SItst Sltysh Coal Sdy Imst Ss **ACCESSORIES** \*  $\nabla$ **MINERAL** Chlorite Pelec Grysh 1 ø Dol **Pellet Gryslt** Anhy .. φ Sand **Pisolite** Arg Lms В Ø Slty **Plant** Sandylms Bent  $\setminus$ ш Bit **Strom** Sh ß 0 Sltstn **Fuss** Brecfrag **FOSSIL** \_ 9 0 Calc Algae **Oomoldic** • • **TEXTURE** Carb **Amph** ▲ ρ Chtdk Belm **STRINGER Boundst**  $\triangle$  $\circ$ Chtlt **Bioclst** Anhy Chalky 4 Φ cxDol **Brach** Arg CryxIn ■ 1 ≥ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | <l  $\Pi_{\Pi_{1}\Pi_{2}}$ Ψ е **Ferrpel** Bryozoa **Bent Earthy** હ FΧ Cephal Ferr Coal FinexIn Α GS Coral Dol Glau Grainst 0 L Crin Gyp Gyp Lithogr 8 MX Echin Marl Ls MicroxIn  $\propto$ MS **Nodule Fish** Mrst Mudst **↔** P 8 PS **Phos Foram Sltstrg Packst** F MS Wackest Pyr Fossil **Ssstrg** H B Salt Gastro Carbsh  $\cdot$ φ Oolite Sandy Clystn .... 0 Silt Ostra Dol TG, C1-C5 **Curve Track 1** ROP (min/ft) TG (units) Gamma (API) C1 (units) C2 (units) Lithology **Geological Descriptions** C4 (units) C5 (units) ROP (min/ft) Daily Drilling Progress July 19, 2014 MIRT July 20, 2014 Dry Watch July 21, 2014 Spud July 22, 2014 220' WOC July 23, 2014 1075' @ 7:00 am July 24, 2014 2665' @ 7:00 am July 25, 2014 3611' @ 7:00 am







