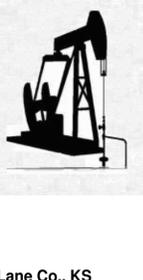




WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **RISLEY #1-36**
Location: **SE NW SW NW OF SEC. 36-18S-30W**
Licence Number: **API: 15-101-22538** Region: **Lane Co., KS**
Spud Date: **September 19, 2014** Drilling Completed: **October 2, 2014**
Surface Coordinates: **1844 FNL & 588 FWL**

Bottom Hole Coordinates:
Ground Elevation (ft): **2854'** K.B. Elevation (ft): **2861'**
Logged Interval (ft): **3800'** To: **RTD** Total Depth (ft): **4613'**
Formation: **Mississippi**
Type of Drilling Fluid: **Chemical Premix (Displaced)**
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: **Larson Engineering Inc.**
Address: **562 West State Road 4**
Olmits, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3 (Co. Tools)

DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8" x 556', Kelly 40.30', Tool Joint 5.5" ; Bit: JZ-HA20Q, 7-7/8", standard jets 15-15-15; rpm 80, WOB 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

CASING:

Set 8-5/8" casing at 256'

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60-62 spm, Chemical, premix, earth pits, Morgan Mud, Inc., Cade Lines.

OPEN HOLE LOGS:

DN, DI (SP) (Run-1); ML (Run-2); No Sonic; 5" detail LTD-3600; 2" DI to surface casing; LogTech-Pioneer Wireline, Hays, KS, Dan Schmidt, Log total depth (4614') was one foot long to rotary total depth (4613').

DRILL STEM TEST #1:

LKC (H-zone): Interval: 4135-4155 (20'); Blow: weak surf IFP, no RB, no blow 2nd open; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2112-2106, SIP: 35-69, FP: 21-22, 22-23; BHT: 109 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #2:

LKC (K-zone): Interval: 4242-4259 (17'); Blow: weak surf IFP, no RB, no blow 2nd open; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2164-2126, SIP: 913-912, FP: 20-22, 22-25; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #3:

LKC (K2, Middle Creek Lime): Interval: 4271-4285 (14'); Blow: weak surf IFP, no RB, blow died 2nd open; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2145-2133, SIP: 23-25, FP: 20-22, 21-22; BHT: 109 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #4:

LKC (L-zone): Interval: 4278-4296 (18'); Blow: weak surf IFP, no RB, died 2nd open; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2183-2118, SIP: 25-28, FP: 22-23, 22-22; BHT: 108 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #5:

LKC (Lower L-zone): Interval: 4276-4310 (34'); Blow: weak surf IFP, no RB, no blow 2nd open; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2183-2132, SIP: 211-205; FP: 22-25, 22-24; BHT: 107 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #6:

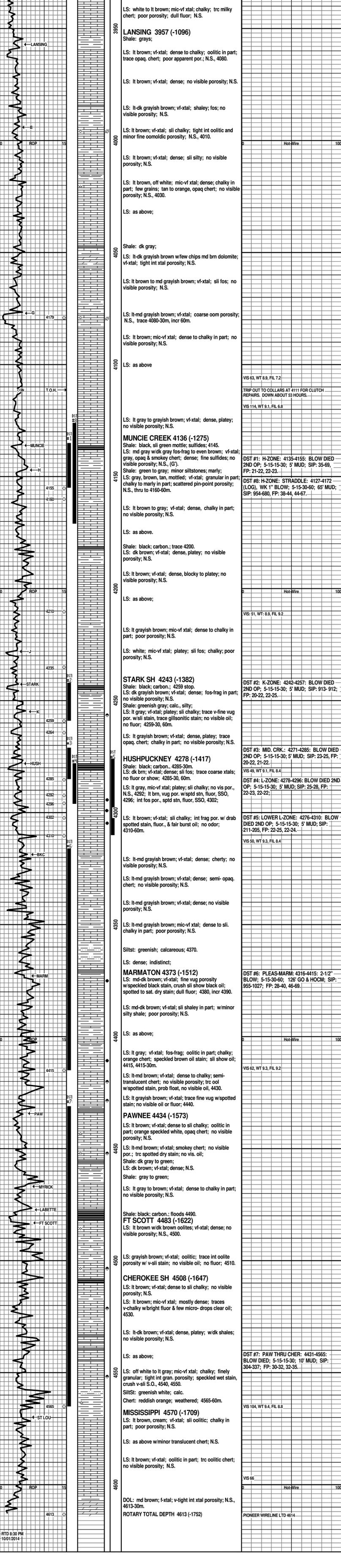
Pleasanton thru Marmaton: Interval: 4316-4415 (99'); Blow: weak incr 1" IFP, no RB, weak incr 2-1/2" FFP, no RB; Times: 5-15-30-60; Recovery: 126' TF; Grindouts: 60' Oil (1%G, 99%O, 23 grav.), 66' HGOCM (5%G, 30%O, 65%M); Pressures: HP: 2271-2042, SIP: 955-1027, FP: 28-40, 46-69; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #7:

Pawnee thru Cherokee: Interval: 4431-4565 (134'); Blow: weak incr 1/2" IFP, no RB, no blow 2nd open; Times: 5-15-15-30; Recovery: 10' mud (100%M); Pressures: HP: 2327-2107; SIP: 304-337, FP: 30-32, 32-35; BHT: 112 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #8:

LKC (H-zone): Straddle Interval: 4127-4172 (45' anchor, 442' tailpipe): Blow: weak incr 1" IFP, no RB, weak incr 1" FFP, no RB; Times: 5-15-30-60; Recovery: 65' mud (100%M); Pressures: HP: 2246-2058, SIP: 954-680, FP: 38-44, 44-67; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.



RTD 8:30 PM
10/01/2014

PIONEER WIRELINE LTD 4614