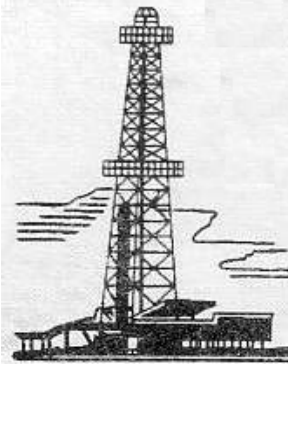


WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **PARIS-HINEMAN #1-7**
 Location: **NW NE NE NW SEC. 07-19S-28W**
 Licence Number: **API: 15-101-22554**
 Spud Date: **January 2, 2015**
 Surface Coordinates: **128' FNL & 2010' FWL**

Region: **Lane Co., KS**
 Drilling Completed: **January 10, 2015**

Bottom Hole Coordinates:
 Ground Elevation (ft): **2782'**
 Logged Interval (ft): **3800'**
 Formation: **Marmaton**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2791'**
 To: **RTD**
 Total Depth (ft): **4455'**

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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 9' 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, Chris Desaire, Log total depth (4455') was even to rotary total depth (4455').

DRILL STEM TEST #1:

LKC (E-zone): Interval: 4074-4100 (26'); Blow: incr 5" IFP, no RB, BOB 11 min FFP, RB incr 3/4" FFP; Times: 5-15-15-30; Recovery: 200' TF, no GIP; Grindouts: 76' MO (50%O, 50%M), 124' GOM (10%G, 40%O, 50%M); Pressures: HP: 2016-1989, SIP: 1069-1063, FP: 28-61, 70-100; BHT: 107 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #2:

LKC (H-zone): Interval: 4166-4188 (22'); Blow: incr 9.5" IFP, surface RB ISIP, BOB 5 min FFP, 3" RB FSIP; Times: 5-15-15-30; Recovery: 205' GIP, 295' TF; Grindouts: 171' GCO (30%G, 70%O, 34 grav.), 124' GOM (10%G, 50%O, 40%M); Pressures: HP: 2071-2041, SIP: 839-815, FP: 31-82, 82-127; BHT: 121 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #3:

LKC (L-zone): Interval: 4308-4320 (12'); Blow: weak incr 1/2" IFP, no RB, weak incr 1/4" FFP, no RB; Times: 5-15-15-30; Recovery: 10' SOCM (2%O, 98%M); Pressures: HP: 2156-2128, SIP: 25-28, FP: 22-23, 23-25; BHT: 111 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #4:

Marmaton: Interval: 4352-4455 (103'); Blow: weak incr 1" IFP, no RB, surf blow FFP, no RB; Times: 5-15-15-30; Recovery: 10' mud w/few oil spots (100%M); Pressures: HP: 2223-2092, SIP: 329-230, FP: 26-29, 29-31; BHT: 108 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

