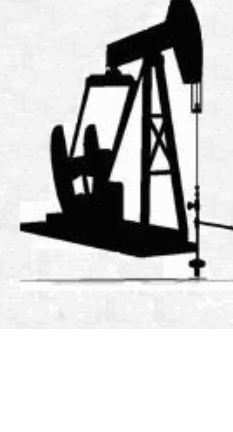
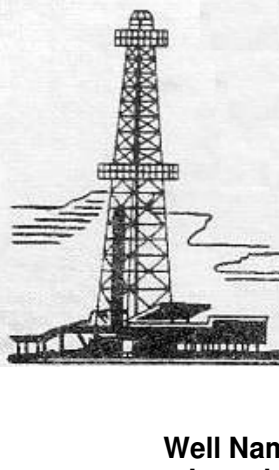


WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: RH A Unit #1-33
 Location: NE NE NW NE 33-18S-28W
 Licence Number: API: 15-101-22506
 Spud Date: April 10, 2014
 Surface Coordinates: 225' FNL & 1326' FEL

Region: Lane Co., KS
 Drilling Completed: April 22, 2014

Bottom Hole Coordinates:
 Ground Elevation (ft): 2745' K.B. Elevation (ft): 2752'
 Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4636'
 Formation: Mississippi
 Type of Drilling Fluid: Chemical Premix (Displaced)

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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 6.25" x 2.25" x 616', hardbanded, Kelly 40.30', Tool Joint 5.5"; Bit: JZ-HA20-Q, 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 263'
 Set 5-1/2" production casing

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60 spm, Chemical, premix, displaced; 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 (4633') was three feet short to rotary total depth (4636').

DRILL STEM TEST #1:

LKC "H-zone": Interval: 4154-4180 (26'); Blow: weak surf IFP, no RB, no blow FFP, no RB; Times: 5-15-30-60; Recovery: 2' mud w/oil spots (100%M); Pressures: HP: 2133-2048, SIP: 912-952, FP: 31-37, 30-32; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #2:

LKC "J-zone": Interval: 4222-4241 (19'); Blow: weak incr 1-1/4" IFP, no RB, weak incr 3" FFP, no RB; Times: 5-15-30-60; Recovery: 93' TF; Grindouts: 1' oil (100%O), 30' OCM (30%O, 70%M), 62' SOCM (5%O, 95%M, sample taken at bottom of last stand); Pressures: HP: 2147-2076, SIP: 583-582, FP: 36-45, 48-78; BHT: 119 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #3:

LKC (Cannville): Interval: 4254-4265 (11'); Blow: surf IFP, no RB, weak incr 1" FFP, no RB; Times: 5-15-30-60; Recovery: 2' FO (100%O), 5' SOCM (10%O, 90%M); Pressures: HP: 2158-2152, SIP: 584-600, FP: 32-39, 29-30; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #4:

LKC (Cannville, K-zone): Interval: 4252-4270 (18'); Blow: weak incr 1/4" IFP, no RB, weak incr 1/2" FFP, no RB; Times: 5-15-30-60; Recovery: 7' OCM (30%O, 70%M); Pressures: HP: 2119-2087, SIP: 528-561, FP: 31-31, 30-32; BHT: 108 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #5:

LKC (Middle Creek): Interval: 4288-4296 (8'); Blow: BOB 1/2 min IFP, BOB RB 12 min ISIP; BOB 1 min FFP, BOB RB 15 min FSIP; Times: 5-15-30-60; Recovery: 1178' GIP & 1116' TF; Grindouts: 620' GO (40%G, 60%O, grav 37), 434' GO (20%G, 80%O), 62' MGO (60%G, 20%O, 20%M); Pressures: HP: 2125-2098, SIP: 786-759, FP: 154-220, 240-428; BHT: 132 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #6:

Pleasanton, Marmaton: Interval: 4331-4440 (109'); Blow: weak 1/2" IFP, no RB, weak surf FFP, no RB; Times: 5-15-30-60; Recovery: 10' mud (100%M); Pressures: HP: 2162-2128, SIP: 59-47; FP: 24-23, 25-25; BHT: 115 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #7:

Pawnee thru Cherokee Sand: Interval: 4442-4585 (143'); Blow: weak incr 1" IFP, no RB, no blow FFP, no RB; Times: 5-15-30-60; Recovery: 10' mud (100%M); Pressures: HP: 2279-2206, SIP: 523-240, FP: 28-28, 30-32; BHT: 118 F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

