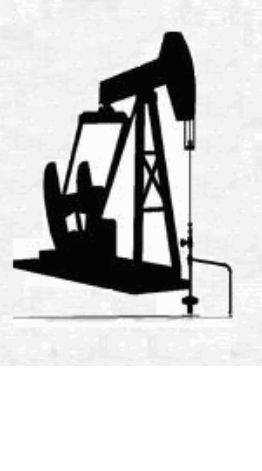
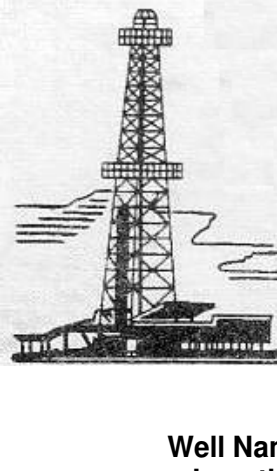


WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: RHONDA #1-16
Location: NE SW NE SW OF SEC. 16-18S-29W
Licence Number: API: 15-101-22533
Spud Date: August 20, 2014
Surface Coordinates: 1865' FSL & 1797' FWL

Region: Lane Co., KS
Drilling Completed: August 31, 2014

Bottom Hole Coordinates:
Ground Elevation (ft): 2813' **K.B. Elevation (ft):** 2820'
Logged Interval (ft): 3800' **To: RTD Total Depth (ft):** 4611'
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
 Olmitz, 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 262'

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60-62 spm, Chemical, premix, earth pits, Morgan Mud, Inc., McCook, NE., 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, Justin Henrickson, Log total depth (4610') was one foot short to rotary total depth (4611').

DRILL STEM TEST #1:

LKC (E-zone): Interval: 4026-4047 (21') : Blow: weak surf. IFF, no RB; weak surf incr to 1/4" FFP, no RB; Times: 5-15-30-60; Recovery: 68' TF, no GIP; Grindouts: 5' CO (100%O, grav 26), 63' SOGCM (5%G, 5%O, 90%M); Pressures: HP: 1991-1893, SIP: 1036-1027, FP: 17-19, 21-46; BHT: 117 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #2:

LKC (I-zone): Interval: 4155-4190 (35') : Blow: weak incr. 5-1/2" IFF, no RB, BOB 18 min FFP, no RB; Times: 5-15-30-60; Recovery: 320' MW w/oil spots (1%O, 59%W, 40%M, Rw 0.45 at 83 F, chlorides 13k); Pressures: HP: 2117-1941, SIP: 681-668, FP: 27-83, 121-173; BHT: 124 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #3:

LKC (J-zone): Interval: 4194-4201 (7') : Blow: BOB 2 min IFF, no RB, BOB 2 min FFP, no RB; Times: 5-15-15-30; Recovery: 1142' TF; Grindouts: 5' MW (95%W, 5%M, Rw 0.37 @ 72 F, chlorides 19k), 1008' MW (90%W, 10%M), 126' MW (70%W, 30%M); Pressures: HP: 2109-1986, SIP: 794-791, FP: 173-283, 332-540; BHT: 126 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #4:

LKC (K-zone): Interval: 4217-4233 (16') : Blow: weak incr 1-1/2" IFF, no RB, weak incr 1-1/2" FFP, no RB; Times: 5-15-30-60; Recovery: 151' MW (60%W, 40%M, Rw 0.38 @ 81 F); Pressures: HP: 2090-1973; SIP: 855-854; FP: 17-29, 33-51; BHT: 120 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #5:

LKC (L-zone): Interval: 4257-4275 (18') : Blow: weak surf IFF, no RB, no blow 2nd open; Times: 5-15-15-30; Recovery: 1' mud; Pressures: HP: 2100-2007, SIP: 16-17, FP: 15-15, 16-16; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #6:

Pleasanton: Interval: 4300-4342 (42') : Blow: weak incr 1/2" IFF, no RB, weak incr 4" FFP, no RB; Times: 4-1-1/2" FFP, no RB; Recovery: 40' oil (100%O, 31 grav), 32' SOCM (10%O, 90%M); Pressures: HP: 2143-2157, SIP: 1100-1085, FP: 19-27, 31-61; BHT: 119 F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #7:

Marmaton (Altamont): Interval: 4341-4390 (49') : Missrun due to packer seat failure; Recovery: 339' mud; Pressures: HP: 2177-2136; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #8:

Pleasanton thru Marmaton (Altamont): Interval: 4302-4390 (88') : Blow: weak incr 1/2" IFF, no RB, weak incr 4-1/2" FFP, no RB; Times: 5-15-30-60; Recovery: 40' oil (100%O, 31 grav.), 40' SOCM (5%O, 95%M); Pressures: HP: 2205-2170, SIP: 1123-1111, FP: 56-64, 68-96; BHT: 122 F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #9:

Myrick Station thru Cher: Interval: 4435-4549 (114') : Discovered that drill pipe in derrick was loose during trip in hole w/tool. Had to trip out to tighten. Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #10:

Myrick Station thru Cherokee: Interval: 4435-4549 (114') : Blow: weak incr 1/2" IFF, no RB, weak incr 1-1/2" FFP, no RB; Times: 5-15-30-60; Recovery: 5' HOCM (30%O, 70%M); Pressures: HP: 2296-2238, SIP: 342-707, FP: 68-75, 81-88; BHT: 125 F; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

