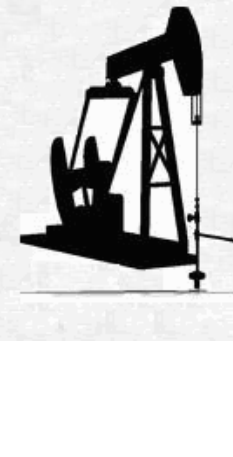
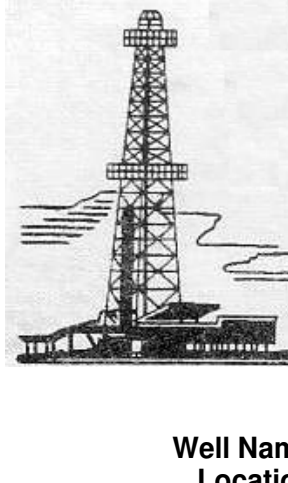


WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **RAMSEY-WILSON UNIT #1-12**
 Location: **SE SE NE SW SEC. 12-18S-31W**
 Licence Number: **API: 15-171-21182**
 Spud Date: **October 05, 2016**
 Surface Coordinates: **1462' FSL & 2608' FWL**

Region: **Scott Co., KS**
 Drilling Completed: **October 14, 2016**

Bottom Hole Coordinates:
 Ground Elevation (ft): **2906'**
 Logged Interval (ft): **3800'**
 Formation: **D&A, Mississippi**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2916'**
 To: **RTD** Total Depth (ft): **4647'**

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
 Omlitz, KS 67564-8561**

DRILLING CONTRACTOR:

Southwind Drilling Co., Rig #1

DP 4.5" XH; DC 6-1/4" x 2-3/8" x 522.50', Kelly 40.00', Tool Joint 5.5" ; Bit: JZ-HA20Q, 7-7/8", standard jets 15-15-15; rpm 75, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

Set 8-5/8" casing at 254'

CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, displaced 3491', Mud-Co, Service Mud, Inc., Colby, KS, Reid Atkins.

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, T. Martin, Log total depth (4647') was flat to rotary total depth (4647').

DRILL STEM TEST #1:

Pleasanton, Marmaton: Interval: 4310-4410 (100' anchor); Blow: weak, 1/4" died to surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' SOC (10%O, 90%M); Pressures: HP: 2159-2100 psi, SIP: 660-330 psi; FP: 20-18, 19-20 psi; BHT: 119 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #2:

Pawnee, Myrick Station, Ft. Scott: Interval: 4426-4500 (74' anchor); Blow: weak surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' mud (no show); Pressures: HP: 2221-2154 psi, SIP: 460-602 psi, FP: 18-19, 19-19 psi; BHT: 117 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #3:

Cherokee: Interval: 4498-4575 (77' anchor); Blow: weak 1/4" died to surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' mud (no show); Pressures: HP: 2255-2181 psi, SIP: 125-155 psi, FP: 16-17, 17-17 psi; BHT: 117 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

