



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: KALO UNIT #1-29
Location: NE NE NE NW OF SEC. 29-18S-28W
Licence Number: API: 15-101-22521
Spud Date: June 17, 2014
Surface Coordinates: 285' FNL & 2478' FWL

Region: Lane Co., KS
Drilling Completed: June 26, 2014

Bottom Hole
Coordinates:
Ground Elevation (ft): 2753' K.B. Elevation (ft): 2760'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4645'
Formation: D&A, Mississippi
Type of Drilling Fluid: Chemical Premix (Displaced)

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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 6.25" x 2.25" x 556', 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 264'

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, D. Kerr, Log total depth (4638') was seven feet short to rotary total depth (4645').

DRILL STEM TEST #1:

LKC (K-zone): Interval: 4266-4280 (14'): Blow: weak surf IFF, no RB, no blow FFP; Times: 5-15-15-30; Recovery: 2' mud (100%M); Pressures: HP: 2185-2125; SIP: 682-683; FP: 16-18, 17-20; BHT: 120 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #2:

LKC (Middle Creek, L-zone): Interval: 4299-4323 (24'): Blow: weak surf IFF, no RB, no blow FFP; Times: 5-15-15-30; Recovery: 2' mud (100%M); Pressures: HP: 2100-2054; SIP: 102-585; FP: 18-19, 18-19; BHT: 116 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #3:

Marmaton thru Pawnee: Interval: 4370-4475 (105'): Blow: weak surf IFF, no RB, no blow FFP; Times: 5-15-15-30; Recovery: 5' mud w/oil spots (100%M); Pressures: HP: 2181-2125, SIP: 74-65, FP: 22-23, 22-25; BHT: 121 F; Trilobite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #4:

Myrick Station thru Cherokee: Interval: 4476-4590 (114'): Blow: weak 1/2" IFF, no RB, no blow FFP; Times: 5-15-15-30; Recovery: 5' mud w/oil spots (100%M); Pressures: HP: 2252-2138; SIP: 223-156; FP: 23-24, 24-26; BHT: 121 F; Trilobite Testing, Inc., Scott City, KS, Will MacLeon.

