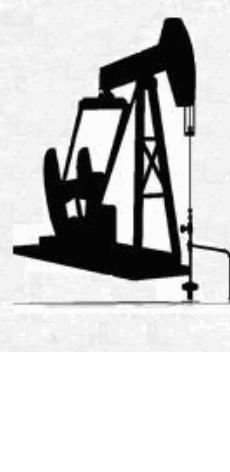
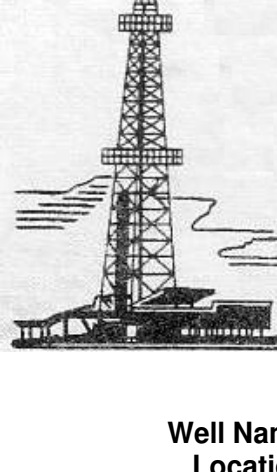


# WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG  
CONSULTANT GEOLOGIST



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

Well Name: MILLER-WILLIAMS #1-7  
 Location: N2 SW NW SEC. 7-T26S-R20W  
 Licence Number: API: 15-047-21652  
 Spud Date: October 16, 2015  
 Surface Coordinates: 900' FNL & 330' FWL

Region: Edwards Co., KS  
 Drilling Completed: October 26, 2015

Bottom Hole Coordinates: 2246' K.B. Elevation (ft): 2255'  
 Ground Elevation (ft): 3800' To: RTD Total Depth (ft): 4850'  
 Logged Interval (ft): 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 6-1/4" x 2-3/8" x 556'; Kelly 41.00'; Tool Joint 5.5" ; Bit: JZ-HA20Q, 7-7/8" , standard jets 16-16-16; rpm 80, WOB 35k; Kelly Bushing 9' above ground level; LeWayne "Lew" Tresner (tool pusher).

### CASING:

Set 8-5/8" casing at 264.79' KB

### CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, displaced 3546, Mud-Co/Service Mud, Inc., Justin Whiting.

### GAS DETECTION SYSTEM:

USB-1208LS-41, portable hot-wire, Delphian 3.0 volt catalytic bead combustible gas detector.

### OPEN HOLE LOGS:

DN, PE, DI (SP), MIL (stacked); No Sonic; 5" detail LTD-3950; 2" DI to surface casing; Weatherford Logging Services, Liberal, KS, Jeffrey Randle, Log total depth (4851') was one foot long to rotary total depth (4850').

### DRILL STEM TEST #1:

Cherokee Lime: Interval: 4590-4705 (114'); Blow weak surf. no build IFP, no RB, weak surf. died 2 min after second open; Times: 5-15-15-30; Recovery: 5' mud w/skim of oil (100%M); Pressures: HP: 2288-2239, SIP: 59-44, FP: 44-36, 37-32; BHT: 114 F; Trilobite Testing, Inc., Hays, KS, Ken Swinney.

### DRILL STEM TEST #2:

Mississippi Dolomite: Interval: 4701-4765 (64'); Blow BOB 2-1/2 min IFP, no RB, BOB 3 min FFP, no RB; Times: 5-15-15-30; Recovery: 887' gas & oil cut muddy salt water; Grindout: 5%G, 5%O, 70%W, 20%M; R<sub>w</sub> 0.38 at 55 deg F, chloride 22k; Pressures: HP: 2325-2270, SIP: 1401-1361, FP: 124-215, 240-431; BHT: 126 F; Trilobite Testing, Inc., Hays, KS, Ken Swinney.

### REMARKS

It was determined that this well should be plugged and abandoned.

