## LITHOLOGY STRIP LOG

# **WellSight Systems**

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

Well Name: HERMAN L. LOEB LLC. Banta F #120

Location: SE NW SE SE Sec. 20, T27S, R18W, Kiowa Co., Kansas

License Number: 15-097-21747-00-00 Region: Wildcat Spud Date: 2/7/13 Drilling Completed: 2/17/13

Surface Coordinates: 840' FSL, 665' FEL, 665' FEL

**Bottom Hole Coordinates:** 

Ground Elevation (ft): 2,186'
Logged Interval (ft): 3,200'
To: 4,877'
K.B. Elevation (ft): 2,199'
Total Depth (ft): 4,877'

Formation: Kinderhook

Type of Drilling Fluid: Native Mud To 3,092' and Chemical Gel To RTD

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.cor

#### **OPERATOR**

Company: Herman L. Loeb LLC.

Address: PO Box 838

Lawrenceville IL 62439 Phone: 812-453-0385

## **GEOLOGIST**

Name: Jame R. Hall Well Site Supervision

Company: Black Gold Petroleum Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

316-838-2574

#### Comments

Drilling contractor: Sterling Drilling, Rig #5, Tool Pusher: Alan Loftis.

Surface Casing: 8 5/8" set at 563' w/350sx, cement.

Cement did circulate.

Production Casing: 5 1/2", set on 2/18/13, cemented w/200sx 50/50 poz.

Prior to DST #1 @ 4,404' pipe strap 0.03' long to the board. Prior to DST #2 @ 4,770' ran survey, see information below.

At 4,470' stopped drilling, to work on gas equipment. Changed out the filament on the hot wire and chromatograph and recalibrated the equipment. The chromatograph filament was bad, but hotwire could have been reading ok, through 4,405 thru 4,454' (mud contaminated with gas and oil).

Deviation Surveys: 0.75 @ 568', 1.5 @ 4,404', 1.0 @ 4,770'.

## Bit Record:

#1 12 1/4" out @ 568'.

#2 7 7/8" JZ HA20-Q in @ 568', out @ 4,877', made 4,309' in 109.5hrs.

Drilling time commenced: @ 3,300'. Minimum 10' wet and dry samples commenced: @ 3,270' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Serling Rig unit # 5. Tooke Daq Drilling time and Hotwire gas values were placed on this Plotted Sample Strip log.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,092', Mud Engineer: Brad Bortz.

DST Co. Trilobite Testing Co., Tester: Chris Staats, (Pratt Kansas).

Open Hole Logs: Halliburton. (Liberal Kansas), Logging Engineer: J Bollom.

DIL, CDL/CNL/PE, MEL/SON.

E-Log Formation Tops: Stotler 3,379 (-1180), Howard 3,592 (-1393), Heebner 4,028 (-1829), Brown Lm 4,182 (-1983), Lansing "A" 4,190 (-1991), L/KC "H" 4,348 (-2149), K/C "I" 4,396 (-2197), Swope 4,494 (-2295), Hertha 4,541 (-2342), B/KC 4,576 (-2377), Marmaton 4,614 (-2415), Pawnee 4,663 (-2464), Labette Sh 4,686 (-2487), Cherokee Sh 4,701 (-2502), Mississippian 4,744 (-2545), Kinderhook Sh 4,780 (-2581), Kinderhook Sand 4,812 (-2613).

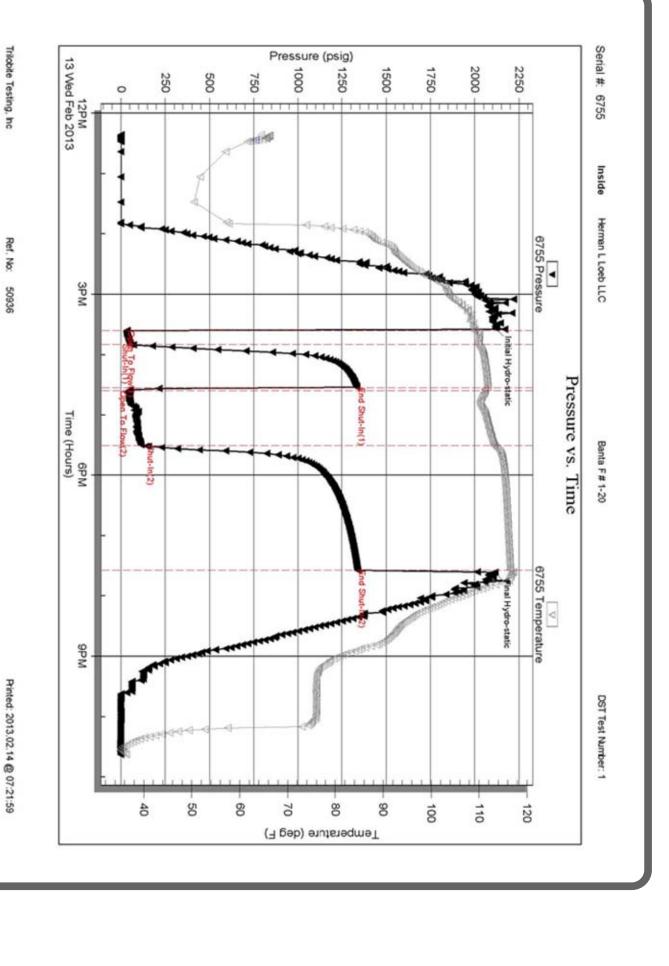
Note: The open hole log gamma ray and caliper curves have been placed on this sample strip log, for better correlation. No stip log shift was necessary, due to close correlation with the open hole logs.

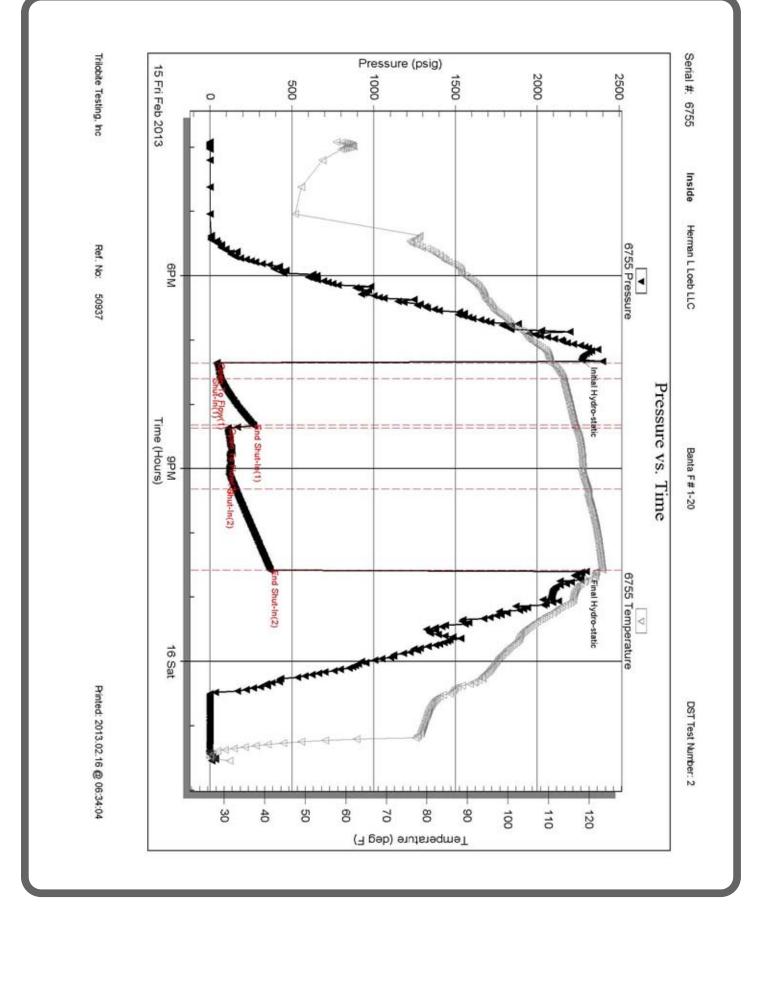
## **DSTs**

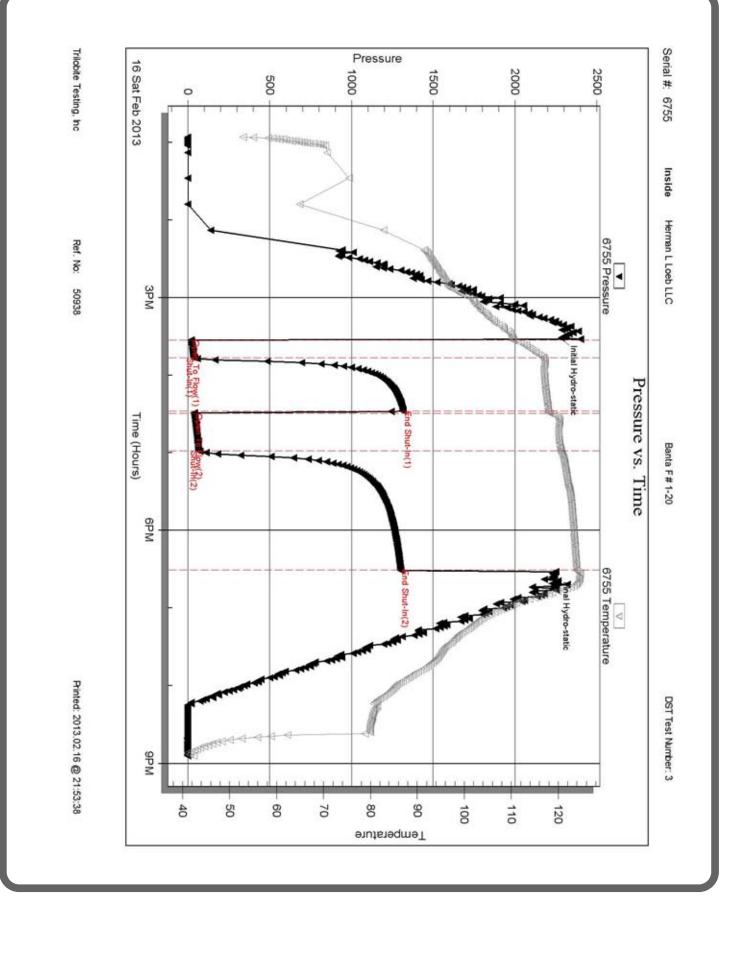
DST #1 Kansas City "I" 4,386' to 4,404' (18' anchor), 15,45,60,120, IH 2117, IF 30-52 (BOB 2min), ISI 1332 (no blow), FF 40-139 (BOB 30sec, GTS 10min TSTM), FSI 1337 (weak blow), FH 2113, Rec; 4,375' GIP, 150' gasy mud (40%gas,60%mud), 180' gasy oil & water cut mud (20%gas,40%oil,20%water,20%mud), BHT 118F, ChI 80,000, Rwa 0.18 @ 38F (0.058 @ BHT).

DST #2 (Mississippi Chert), 4,723' to 4,770' (47'), 15,45,45,90, IH 2270, IF 40-63 (weak 4inch blow), ISI 260, FF 109-152 (fair 5inch blow), FSI 365, FH 2270, Rec: 620' gas in pipe, 280' gassy mud (2%gas, 98%mud), BHT 125F.

DST #3 Kinderhook Sand, 4,819' to 4,837' (18'), 15-45-30-90, IH 2282, IF 18-39 (1inch blow), ISI 1317, FF 38-65 (2inch blow), FSI 1300, FH 2236, Rec; 80' muddy water (80%water,20%mud), BHT 125, Rwa 0.30 @ 42F (0.10 @ BHT), ChI 40,000ppm (mud 5,000ppm).







## Other

## **CARBONATE CLASSIFICATION:**

**Anhy** 

AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud free carbonate rock, grain supported. BOUNDSTONE; carbonate rock bound together at deposition (coral, etc.). CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.

**ROCK TYPES** 

Black sh

Congl

