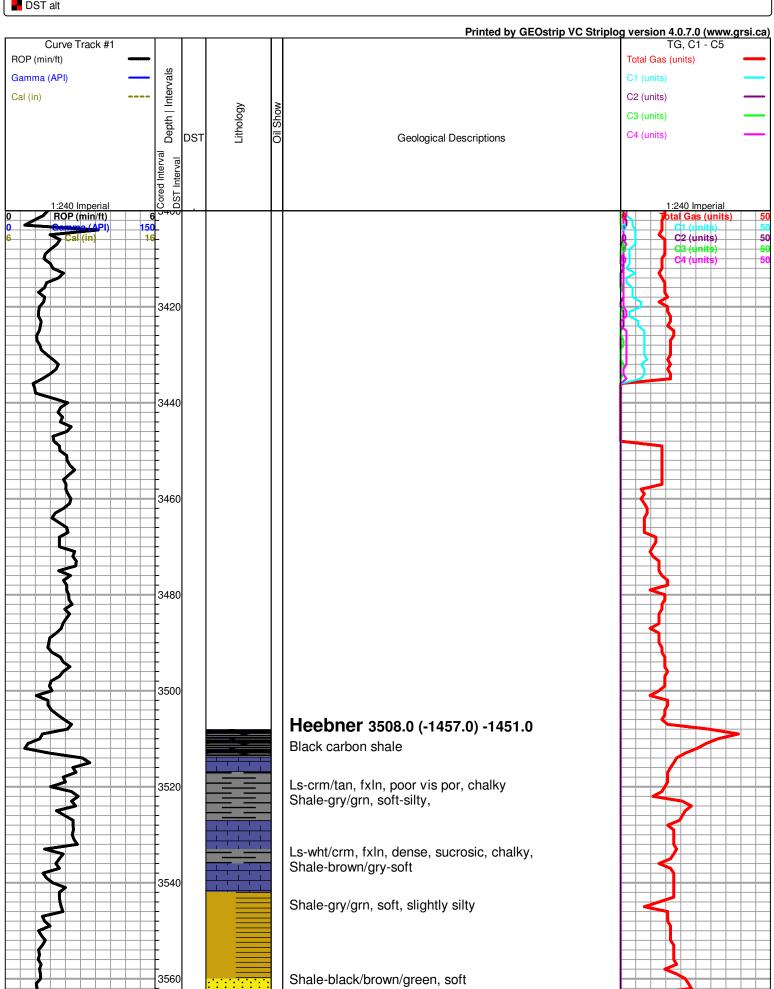
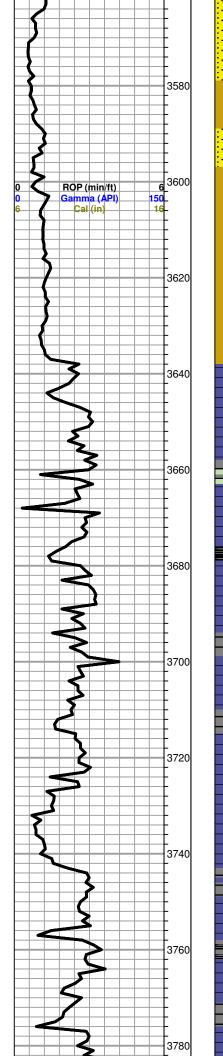
| Company:<br>Address:<br>Contact Geologist:<br>Contact Phone Nbr:<br>Well Name:<br>Location:<br>Pool:<br>State:  | OPERATOR<br>Victory Operating, Inc.<br>6 N. Scottsdale St.<br>Wichita, KS 67230<br>Roscoe Mendenhall<br>316-648-5633<br>ILS Land #1-21<br>8 5/8" @ 1001' API:<br>SW/4 SE/4 NW/4 Sec.21-T22S-R16W Field:<br>Kansas Country:                         |              |
|---|--|--------------|
| Husgice<br>Petroleum<br>Corporation<br>Ciaflin, Kansas  |  |              |
| Scale 1:240 Imperial  |  |              |
| Well Name:   Surface Location:   Bottom Location:   API:   License Number:   Spud Date:   Region:   Drilling Completed:   Surface Coordinates:   Bottom Hole Coordinates:   Ground Elevation:   K.B. Elevation:   Logged Interval:   Total Depth:   Formation:   Drilling Fluid Type: | ILS Land #1-21   8 5/8" @ 1001'   15-145-21687   9/11/2012 Time:   Pawnee 9/18/2012   9/18/2012 Time:   2040.00ft 2051.00ft   3300.00ft To:   4165.00ft To:   Arbuckle Chemical/Fresh Water Gel   LOGGED BY   Musgrove Petroleum   212 Main Street | 6:00 PM      |
| Address:  | Claflin, KS 67525  |              |
| Phone Nbr:<br>Logged By:  | 620-450-7087<br>Geologist Name:  | Kurt Talbott |
| Contractor:<br>Rig #:<br>Rig Type:<br>Spud Date:<br>TD Date:<br>Rig Release:  | CONTRACTOR<br>Sterling Drilling Company<br>2<br>Mud Rotary<br>9/11/2012 Time:<br>9/18/2012 Time:<br>Time:  | 6:00 PM      |
| K.B. Elevation:<br>K.B. to Ground:  | ELEVATIONS<br>2051.00ft Ground Elevation:<br>11.00ft   | 2040.00ft    |
| ROCK TYPES   A A A Cht vari Lmst fw<7   |  |              |

#### **OTHER SYMBOLS**







A/A plus Sand-gry/grn- very fine grained. mica, glauc, mostly friable, poor por

A/A shaly sand

Sand-green/clear, very fine grained, mostly friable, poor iner gran. por, mica, glauconitic

Total

as (units)

(units)

3 (units)

A/A Shale-gry/grn,

Sand& Shale A/A

### Lansing 3637.0 (-1586.0) -1580.0

Ls-crm/wht/tan, fxIn, poor vis por, chalky, Shale-gry

Ls-crm/wht, fxIn, few ool/fossils, chalky, poor vis por

Ls-wht/crm, fxln, poor iner xln por, spotty brown stains, NSFO, no odor, chalky

Ls-crm/wht, fxIn, slightly sucrosic, trace (2 piece) good oom por., dark brown edge staining, NSFO, no odor.

Ls-crm/tan, fxIn, poor iner xIn por, spotty brown stains, NSFO, no odor. chalky

Ls-gry/wht/tan, fxIn, few fossils, dense, poor vis por.

Ls-tan/gry, fossils in part, chert-tan/crm/boney wht, Trace spotty brown stains, NSFO, no odor.

LS-buff/gry, ool/fossils, poor vis por, slightly chalky, chert-A/A

Ls-crm/tan/wht, fxIn, ool, few fossils, poor iner xIn por, spotty brown stains, broken open TrSFO, no odor

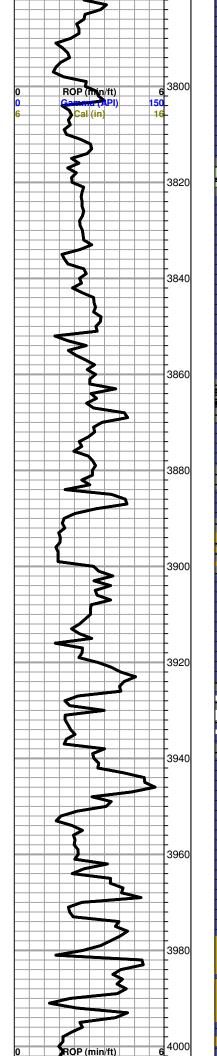
Ls-tan/crm, fxln, ool, few fossils, poor iner xln por & poor scattered sub oom por, spotty brown stains, broken open TrSFO, chalky, cherty

Ls-tan/crm, fxIn, dense, poor vis por, cherty, chalky

Ls-A/A few gry shales

Ls-gry/tan, fxln, few fossils, poor vis por, cherty, Trace black carbon shale

Ls-crm/tan, finely ool, scattered sub oom por, barren, chalky, Shale-gry



Ls-tan/gry, fxIn, sucrosic, poor vis por, chalky

Ls-tan/buff, dense, scattered poor iner xIn por, cherty, chalky

Ls-gry/crm/tan, sucrosic, fxIn, poor iner xIn por, cherty

Ls-wht/crm, fxln, cherty in part, chalky, poor vis por, slightly granular, Shale-brown abundant

Ls-crm/gry, ool, fxIn, poor vis por, chalky, Shale-gry abundant.

Ls-tan/lt gry, fxIn, dense, poor vis por, slightly chalky

Ls-crm/lt gry, fxln, finely ool, poor iner xln por, chalky, no vis shows.

Ls-wht/crm, fxln, few fossils, dense, poor ppt por, no vis shows.

Ls-gry/crm, fxIn, slightly dolomitic, poor vis por, dense, cherty

Ls-gry/tan, fxIn, dense, poor ppt to iner xIn por, Shaleblack/gry  $% \left( {{\left[ {{{\rm{S}}_{\rm{T}}} \right]}_{\rm{T}}}} \right)$ 

Ls-gry/crm, fxIn, poor ppt por, chalky in part, increasing gry shale, trace black carbon

Ls-gry/crm, fxIn, poor vis por, cherty, dense

Ls-crm/gry, fxIn, poor vis por, chalky, trace peach colored chert

Ls-gry A/A

Ls-gry/tan, fxIn, poor vis por, slightly cherty, shalemaroon/brwn

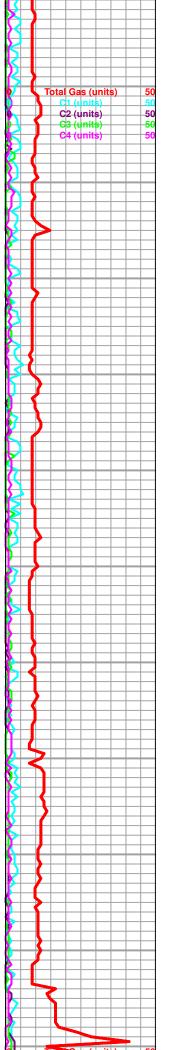
Ls- A/A increasing shale, trace peach chert

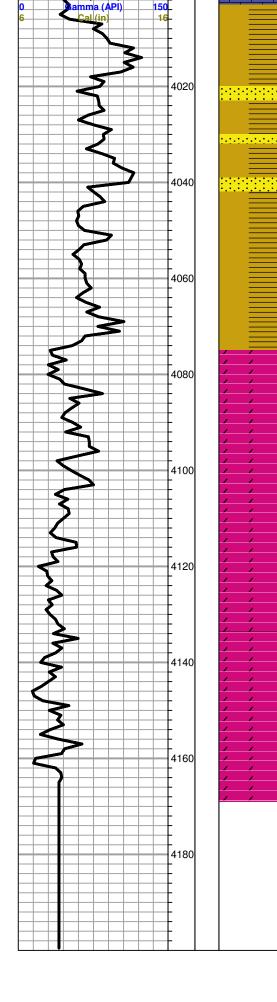
Ls-gry/tan, fxIn, poor vis por, dense

Shale-brown/maroon/green/gry, Chert-tan/peach

A/A No vis shows

Ls- crm/gry, fxIn, poor vis por, mostly dense, Shalebrown/maroon/green/gry





Ls & Shale A/A, chert-tan/peace/wht

Shale-maroon/yellow/green firm, slightly sandy

## Simpson Sand 4016.0 (-1965.0) -1959.0

Shale-maroon/brown, firm, Trace sand-wht/grn/clear, f grained, sub round, poor iner gran por, friable

Sand-wht/clear/gry, f grain, poor iner granular por, friable, no vis shows, dull fluorescents.

Shale-maroon/green/yellow, sandy, firm

Shale-maroon/gry/grn/turq/

#### A/A

Ls-crm dense, cherty, poor vis por, Shale- A/A

### Arbuckle 4073.0 (-2022.0) -2016.0

Dol-crm/buff, f-med rhomb xln, dense, poor vis por, no vis shows, dull fluor. Chert-wht/crm

Dol-crm/tan/buff, f-med xln, few rhomb, poor iner xln por, dense, chert- A/A

Dol-crm/lt gry, fxIn, poor iner xIn w/scattered poor vug por, barren, dense, slightly chalky, slightly cherty

Dol-tan/lt gry, f-med xln, few rhombic, dense, poor vis por, chalky, cherty,

Dol-wht/crm A/A

Dol-crm/tan/lt gry, fine/few med. xIn, frew rhombic., dense, scattered poor vis por, chert-wht/crm, Shale-grn-firm

Dol-crm/tan, f-med xln, few rhombic, poor scattered ppt/iner xln por, cherty

Dol-A/A,

Dol-A/A, Ls-crm/tan, dense, poor vis por, chalky,

Dol-crm/tan, f-med rhomb xIn, poor scattered iner xIn por, dense, chalky, chert-crm/opaque

# RTD 4165.0 (-2114.0) 0.0

