WELLSITE GEOLOGISTS REPORT

VERNON C. SCIRAO
CONSULTANT GEOLOGIST

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

Well Name: JAMES CHILDREN'S TRUST #1-9
Location: SE NE NE NW OF SEC. 09-16S-28W
Licence Number: API: 15-101-22541
Spud Date: November 06, 2014
Surface Coordinates: 990' FNL & 2365' FWL

Bottom Hole Coordinates:
Ground Elevation (ft): 2618' K.B. Elevation (ft): 2627'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4500'
Formation: Mississippi
Type of Drilling Fluid: Chemical Premix (Displaced)

Region: Lane Co., KS
Drilling Completed: November 17, 2014

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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 (16.64); DC 6-1/4" x 2-3/8" x 556'; Kelly 40.30'; Tool Joint 5.5" ; Bit: JZ-H420Q, 7-7/8", standard jets 15-15-15; rpm 80, WOB 30k; Kelly Bushing 9' above ground level; LeWayne "Lew" Tresner (tool pusher).

CASING:

Set 8-5/8" casing at 257'

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60-62 spm, Chemical, premix, earth pits, Morgan Mud, Inc., Cade Lines, David Lines.

OPEN HOLE LOGS:

DIN, DI (SP) (Run-1): MI, (Run-2); No Sonic; 5" detail LTD-3600; 2" DI to suface casing; LogTech-Pioneer Wireline, Hays, KS, Chris Desaire, Log total depth (4498') was two feet short to rotary total depth (4500').

DRILL STEM TEST #1:

LKC (E-zone): Interval: 3910-3935 (25'): Blow: weak incr 2" IFP, surf RB, weak incr 6" FFP, surf RB; Times: 5-15-30-60; Recovery: 140' TF: Grindouts: 5' COO (10%O, 90%O, grav 40); 135' SOGCWM (5%O, 5%O, 90%W, 50%M, Rw 0.200 at 40 F, chlorides 40k); Pressures: HP: 1910-1885, SIP: 813-806, FP: 23-39, 46-79; BHT: 113 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DRILL STEM TEST #2:

LKC (I-zone): Interval: 4022-4055 (33): Blow: weak 1/2" IFP, 14" RB, weak surf FFP, no RB; Times: 5-15-30-30; Recovery: 2' SOCM (1%O, 99%M); Pressures: HP: 1999-1964, SIP: 404-836, FP: 18-20, 19-19; BHT: 107 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DRILL STEM TEST #3:

LKC (K-zone): Interval: 4074-4092 (18): Blow: BOB 5 min IFP, 3" RB, BOB 6 min FFP, 9" RB; Times: 5-15-15-30; Recovery: 370' GIP, 304' TF: Grindouts: 90' COO (1%O, 85%O, grav 43), 92' OSWM (45%W, 55%M), 122' OSWM (90%W, 10%M, Rw 0.175 at 39 F, chlorides 90k); Pressures: HP: 1983-1958, SIP: 566-659, FP: 35-75, 89-145; BHT: 122 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DRILL STEM TEST #4:

Pleasanton, Marmaton: Interval: 4152-4260 (108): Blow: weak incr 1/2" IFP, no RB, weak surf FFP, no RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #5

Ft. Scott, Cherokee: Interval: 4326-4422 (96): Blow: weak incr 1/2" IFP, no RB, weak incr to 3" FFP, no RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DRILL STEM TEST #6

LKC (K-zone): Interval: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

ROP (min/ft) — Fine — Ton

DST — Lithology — Depth

Total Gas: TG (units) — Fifty — One

Geological Descriptions

ROP

DST: 3910-3935 (25') 45'-60'-45'-GAS,FLS

3700

LS: fi-med grayish brown; vf-stat; v-chalky in part; rough textured; prob poor to fair vug porosity; N.S.

3750

LS: red; ok grayish brown; vfa-stat; dense; no visible porosity; N.S.

LS: fi-med grayish brown; mic-vf stat; v-chalky, soft in part; foss: poor visible porosity; N.S.

LS: as above w/opaq chert; N.S.

LS: med grayish brown; mic-vf stat; v-chalky, soft in part; poor porosity; N.S.

3800

HEEBNER SH 3795 (-1158)
Shale: dk gray; no carbon; sh was found.

Shale: green, gray; silty;

LS: off white to fi brown; mic-vf stat; v-chalky; some rough vug porosity; N.S.

LANSING 3834 (-1207)
LS: off white fi brown; mic-vf stat; chalky; white chert; minor pin-point porosity & rough vug porosity; N.S.

LS: as above;

3850

LS: white to fi brown; mic-vf stat; translucent chert; sl oolitic; fair int grain porosity; N.S.

LS: white to fi brown; mic-vf stat; chalky in part; no visible porosity; N.S.

LS: fi brown; vf-f stat; scattered vug porosity and light int stat porosity; N.S.

3900

LS: fi brown; mic-vf stat; dense to chalky in part; no visible porosity; N.S.

Shale: dk gray;

LS: fi brown; mic-vf stat; sl granular; poor fair vug porosity; sl show dark oil; no odor; spotted stain 3930;

LS: white to fi brown; mic-vf stat; chalky oolitic; v-tight int ool porosity; N.S., 3935;

3950

LS: med to brown grayish brown; vf-stat; med- coarse oomoldic porosity; N.S.

LS: grayish brown; mic-vf stat; dense to chalky; minor opaq chert; no visible porosity; N.S.

LS: as above;

MUNCIE CREEK 3980 (-1361)
Shale: black; carbon; 4000.
LS: med-dk grayish brown; vf-stat; dense; sl foss, sl oolitic; no visible porosity; N.S.

4000

Shale: grays;

LS: fi grayish brown; vf-stat; sl granular; dense; chalky in part; scattered pin point porosity; N.S.

Shale; gray;
LS: dk brown; vf-stat; dense; N.S.

Shale; grays;

LS: fi brown; vf-stat; dense to chalky in part; scattered, shallow vug porosity w/dark stain, no visible sd or oil; 4065, 4070-75m;

4050

LS: dk grayish brown; vf-stat; sl foss; dense; no visible porosity; N.S., 4050-4060;

LS: grayish brown; vf-stat; dense; no visible porosity; N.S.

LS: fi grayish brown to gray; vf-stat; dense; trc poor porosity; porosity; N.S.

STARK SH 4074 (-1447)
Shale: black; carbon; 4080-90m.
LS: dk brown; vf-stat; dense; N.S.
Shale: gray; green;
LS: white to fi gray; mic-vf stat; much soft, strongly foun chalk; no fine vug porosity w/dark wet stain, v-poor dry stains but good dry foun; 4082, 4092-30m.

4100

LS: fi gray; vf-stat; dense to chalky in part; no visible porosity; N.S.

LS: fi gray; vfa-fat; dense to sl chalky in part; opaq chert; no visible porosity; N.S.

HUSHPUCKNEY 4117 (-1490)
Shale: black; carbon; trace 4118-30 & 50m.
LS: dk grayish brown; vf-stat; dense; no visible porosity; N.S.

Shale: gray; calcareous in part;

4150

LS: fi gray to brown; mic-vf stat; dense to chalky in part; no visible porosity; N.S.

LS: off white to fi gray & brown; mic-vf stat; dense; chalky in part; no visible porosity; N.S.

BKC 4154 (-1527)
Shale: dk pray to black;

LS: fi grayish brown; vf-stat; dense; chalky in part; no visible porosity; N.S.

Shale: gray; calcareous in part;

LS: fi gray to brown; mic-vf stat; dense to chalky; no visible porosity; N.S.

4200

LS: off white to fi grayish brown; vf-stat; dense to chalky; no visible porosity; N.S.

LS: grayish brown; mic-vf stat; chalky; no visible porosity; N.S.

Shale: gray; maroon;

LS: fi-med grayish brown; vf-stat; dense; no visible porosity; N.S.

LS: off white, fi gray; vf-stat; chalky; trace fine vug porosity; dry stain; no visible oil; 4250-30m.

4250

LS: off white, fi gray; mic-vf stat; chalky; trace pin-point porosity w/specks of stain, trc dry stain; no visible oil; 4260-70m.

PAWNEE 4263 (-1636)
LS: fi brown, vf-stat; dense, blocky; chalky in part; trc chert at base; no visible porosity; N.S.

4300

LS: fi-med brown; vf-stat; dense; chalky in part; minor green sh; no visible porosity; N.S.

Shale: dk gray, greenish gray;

Shale: black; carbon; 4310.

4350

LS: fi gray, off white; mic-vf stat; dense to chalky; no visible porosity; N.S.

LS: as above;

Shale: black; carbon; floods 4350.

FT. SCOTT 4336 (-1709)
LS: fi grayish-tan mahn w/dark gray to brown oolitic; vf-stat; v-tight int ool porosity at best; N.S.

LS: grayish brown; mic-vf stat; chalky; gray oolitic chert; N.S.

4400

LS: med-dk grayish brown; vf-stat; dense; no visible porosity; N.S.

Shale: black; carbon;,

LS: fi gray; vf-stat; oolitic in part; chalky part exhibits bright fluor, trc wet & dry stain & micro-drops oil; 4370 and 5'+.

LS: gray; vf-stat; dense; shaley in part; no visible porosity; N.S.

4450

LS: fi gray to brown; vf-stat; chalky to dense; w/stylos; no visible porosity; N.S.

Sand/Silt: white; very-fine, v-tight int grain porosity.

Sand/Silt/Shale: as above;

Chert: tan, brown, tr reddish; angular, sharp; w/sh, 4.5, 4469 snap.

EROS. MISSISSIPPI 4437 (-1810)
Dominant Top

4500

LS: fi brown, cream; mic-vf stat; dense to chalky; chert as above; no visible porosity; N.S.

LS: fi brown, cream; mic-vf stat; dense to chalky; sl oolitic; no visible porosity; N.S.

LS: fi brown, spotted maroon; shaly; minor chert; no visible porosity; N.S.

LS: fi brown w/dk gray spots and streaks; mic-vf stat; chalky; shaley; no visible porosity; N.S.

ROTARY TOTAL DEPTH 4500 (-1873)

RTD 10:44 AM
11/18/2014 7

Hot/line — 100

DST #1: 3910-3935 (25') MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 140' TF: Grindouts: 5' COO (10%O, 90%O, grav 40); 135' SOGCWM (5%O, 5%O, 90%W, 50%M, Rw 0.200 at 40 F, chlorides 40k); Pressures: HP: 1910-1885, SIP: 813-806, FP: 23-39, 46-79; BHT: 113 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DST #2: 4022-4055 (33) DI, 2" DI TO SURFACE; 5" DETAIL LTD-3600; 2" DI TO SURFACE; LOG: LOGTECH-PIONEER WIRELINE, HAYS, KS, CHRIS DESAIRE; Times: 5-15-30-30; Recovery: 2' SOCM (1%O, 99%M); Pressures: HP: 1999-1964, SIP: 404-836, FP: 18-20, 19-19; BHT: 107 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DST #3: 4074-4092 (18) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 370' GIP, 304' TF: Grindouts: 90' COO (1%O, 85%O, grav 43), 92' OSWM (45%W, 55%M), 122' OSWM (90%W, 10%M, Rw 0.175 at 39 F, chlorides 90k); Pressures: HP: 1983-1958, SIP: 566-659, FP: 35-75, 89-145; BHT: 122 F; Tribolite Testing, Inc., Scott City, KS, Chuck Smith.

DST #4: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #5: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #6: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #7: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #8: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #9: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #10: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #11: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #12: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #13: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #14: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #15: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #16: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #17: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #18: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #19: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #20: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #21: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #22: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #23: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #24: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #25: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #26: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #27: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #28: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #29: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #30: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #31: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #32: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #33: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #34: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #35: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #36: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #37: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #38: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #39: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #40: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #41: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #42: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #43: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #44: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #45: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #46: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #47: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #48: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #49: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #50: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #51: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #52: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #53: 4152-4260 (108) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-15-30; Recovery: 5' mud (100%M); Pressures: HP: 2038-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #54: 4326-4422 (96) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 63' GOCM (25%G, 15%O, 80%M); Pressures: HP: 2143-2094, SIP: 409-1052, FP: 18-22, 26-31; BHT: 112 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #55: 4068-4076 (log), 4072-4080 (rotary) (8' anchor, 422' tailpipe); Blow: weak incr 1/2" IFP, no RB, weak incr 3", decr 2" after a few minutes, then steady FFP, no RB; Times: 5-15-45-60; Recovery: 310' GIP, 171' TF: Grindouts: 45' COO (10%O, 33 grav.), 126' GMO (5%G, 50%O, 40%M); Pressures: HP: 2024-1915, SIP: 660-680, FP: 15-30, 53-68; BHT: 117 F; There was possible slight leak at the head joint which may have compromised the blows? Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #56: 4250-4260 (10) MI, BOB 5 MIN IFP, 3" RB, BOB 6 MIN FFP, 9" RB; Times: 5-15-30-60; Recovery: 1' mud (100%M); Pressures: HP: 2000-1968, SIP: 81-93; FP: 21-23, 22-28; BHT: 109 F; Tribolite Testing, Inc., Scott City, KS, Justin Harris.

DST #57: 4326-4422 (96) MI, B