



Scale 1:240 Imperial

Well Name: Trense #1-7
Surface Location: 2202' FSL_2148' FEL
Bottom Location:
API: 15-009-26143-00-00
License Number: 31548
Spud Date: 6/2/2016 Time: 3:00 PM
Region: Barton County
Drilling Completed: 6/9/2016 Time: 3:05 AM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 1987.00ft
K.B. Elevation: 1995.00ft
Logged Interval: 2800.00ft To: 3560.00ft
Total Depth: 3560.00ft
Formation: Lansing Kansas-City
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Tyluka Operations, LLC
Address: P.O. Box 1213
Hays, KS 67601
Contact Geologist: Jeff Zoller
Contact Phone Nbr: 620-786-0807
Well Name: Trense #1-7
Location: 2202' FSL_2148' FEL
API: 15-009-26143-00-00
Pool: State: KS Field: Wildcat
Country: USA

LOGGED BY

Company: Mile High Exploration, LLC
Address: 621 17th St., Suite 1155
Denver, CO 80293
Phone Nbr: 203-671-6034
Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Tyluka Operations, LLC Trense #1-7 was drilled to a total depth of 3560', bottoming in the Arbuckle.

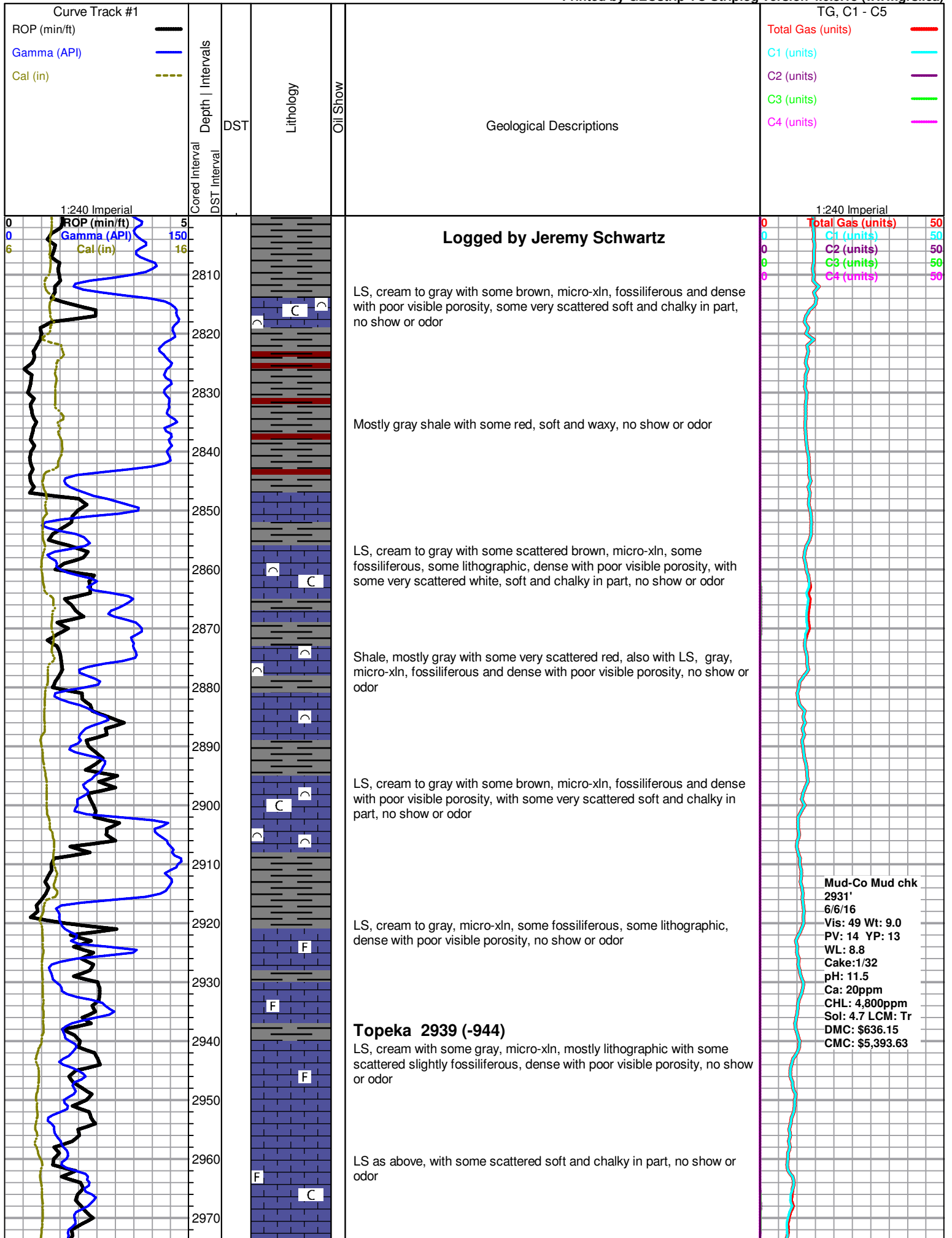
Three DST's were conducted throughout the Lansing Kansas-City and Arbuckle zones. The DST reports can be found at the bottom of this log.

Due to negative DST results, sample shows, gas kicks, and log analysis it was determined by all consenting parties to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

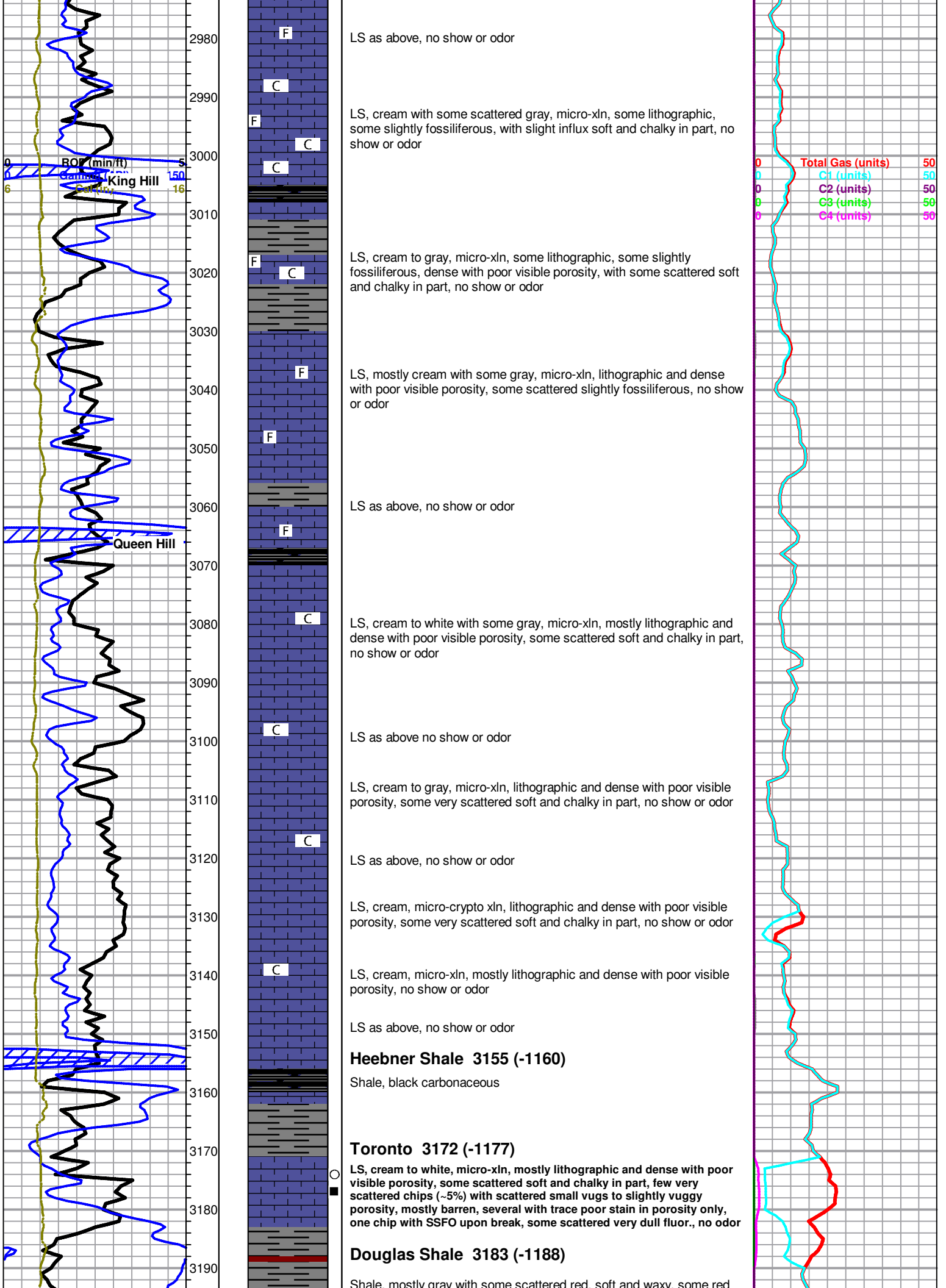
Respectfully Submitted,
Jeremy Schwartz
Geologist

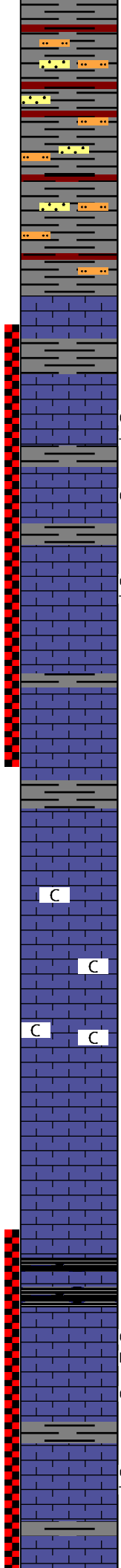
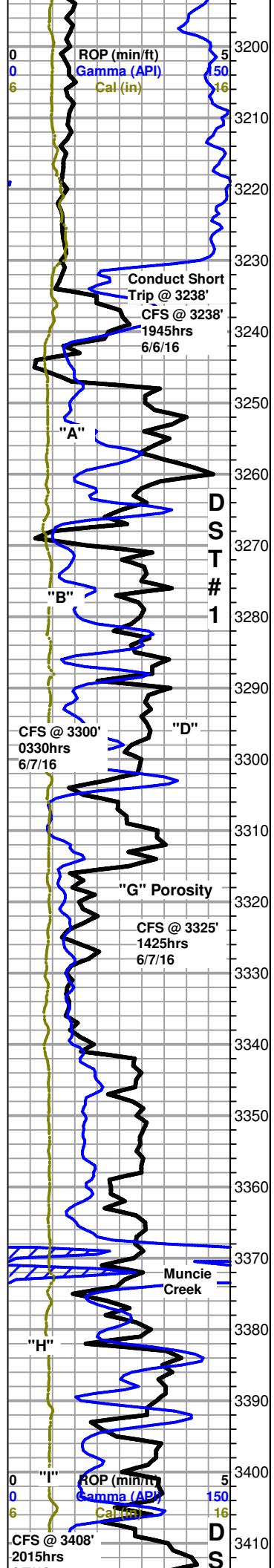
CONTRACTOR

Contractor: Discovery Drilling
Rig #: 3
Rig Type: mud rotary
Spud Date: 6/2/2016 Time: 3:00 PM
TD Date: 6/9/2016 Time: 3:05 AM
Rig Release: Time:



Mud-Co Mud chk
 2931'
 6/6/16
 Vis: 49 Wt: 9.0
 PV: 14 YP: 13
 WL: 8.8
 Cake: 1/32
 pH: 11.5
 Ca: 20ppm
 CHL: 4,800ppm
 Sol: 4.7 LCM: Tr
 DMC: \$636.15
 CMC: \$5,393.63





gray with some scattered sand clusters, gray, v. blocky and dense

Shale as above, silty, with some very scattered sand clusters, gray, v. grained, sub-angular, fairly well sorted and friable, NSFO, no odor

Shale and scattered siltstone with very scattered sandstone as above, no show or odor

Brown Lime 3234 (-1239)
 LS, brown with some scattered gray, fossiliferous and dense with no visible porosity, no show or odor

Trensse 1-7 dst 1.jpg

Lansing Kansas-City 3246 (-1251)
 LS, cream, micro-crypto xln, mostly lithographic and dense with poor visible porosity, with some scattered (~10%) sub-oolitic to sub-oomoldic, some with poor to fair visible oomold porosity and scattered brown stain, few chips with SSFO on surface, slight to fair show free oil upon break with fair visible inter-oomold porosity and very slight show gas bubbles, chips become mostly saturated with light golden brown to brown stain when left under lamp, with dull to bright yellow fluorescence and instant streaming cut with lighter fluid, fair show free oil in tray, fair fleeting odor

~3260' Mostly same as above, with shows slightly dropping out (<5%), with some scattered pyrite, some very scattered dull yellow fluor., SSFO in tray, poor fleeting odor

~3270' LS, cream, micro-xln, mostly sub-oolitic to oomoldic and dense, some barren, some (~20%) with poor to fair visible oomold porosity and slight to fair show free oil on surface, some chips too dense to break but when agitated have fair to good show free oil with slight show gas bubbles coming from porosity, with some scattered yellow fluor., fair show free oil in tray, fair fleeting odor

~3280' LS, cream to light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered sub-oolitic to sub-oomoldic, dense and barren, no fluor., NSFO, no odor

~3300' 30" LS, cream to gray, micro-xln, some lithographic, some oolitic and dense with poor visible porosity, mostly barren, some very scattered (~5%) oolitic to oomoldic with poor to fair visible porosity and very scattered brown stain, upon break chips have SSFO, some very scattered dull fluor., poor odor

3300' 60" LS, gray to cream, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered sub-oolitic, dense and barren, NSFO, no fluor., or odor

3325' 30" LS, cream to white, micro-xln, lithographic and dense with poor visible porosity, some scattered sub-oolitic to oolitic, with some very scattered soft and chalky in part, NSFO, no fluor., or odor

3325' 60" Mostly same as above, with very slight influx sub-oomoldic to oomoldic, dense with poor visible oomold porosity, slightly chalky, no show, fluor., or odor

LS as above, fairly chalky, no show or odor

LS, cream to gray with some brown, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

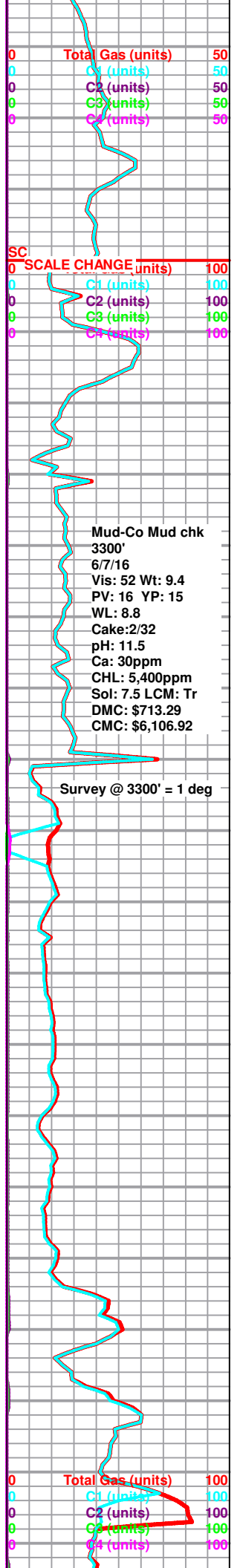
Trensse 1-7 dst 2.jpg

~3380' LS, mostly gray with some scattered cream, micro-xln, lithographic and dense with poor visible porosity, with some scattered (~15%) small cream chips sub-oomoldic to slightly yuggy porosity and scattered light golden brown stain to mostly saturated stain, few chips saturated light stain that increases to darker brown under lamp, upon break chips show mostly saturated to saturated matrix and VSSFO to NSFO in most, few larger chips too dense to break but slowly bleed oil to surface and FSFO when agitated, slow streaming cut with bright white fluor., NSFO in tray, scattered dull to bright yellow fluor., good odor

LS, mostly same as above with less gray and influx cream, with shows appearing to be slightly dropping out, few small chips mostly saturated with fair show gas bubbles and fair to good show free oil upon break, good odor

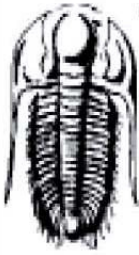
3408' 30" LS, cream with some scattered white, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky in part, few chips (~5%) with re-crystallized edges and scattered light brown to brown stain, mostly poor visible porosity with few small vugs in some, upon break fair show free oil with scattered inter-xln stain and mostly poor visible inter-xln porosity, NSFO in tray, some very scattered dull yellow fluor., poor odor

3408' 60" :LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor



Mud-Co Mud chk 3300'
 6/7/16
 Vis: 52 Wt: 9.4
 PV: 16 YP: 15
 WL: 8.8
 Cake: 2/32
 pH: 11.5
 Ca: 30ppm
 CHL: 5,400ppm
 Sol: 7.5 LCM: Tr
 DMC: \$713.29
 CMC: \$6,106.92

Survey @ 3300' = 1 deg



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tyluka Operations LLC

7/17S/13W/Barton

PO Box 1213
Hays, Kansas
67601
ATTN: Jeremy Schwartz

Trense #1-7

Job Ticket: 65093

DST#: 1

Test Start: 2016.06.07 @ 06:32:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:00

Time Test Ended: 10:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/34

Interval: **3239.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Reference Elevations: 1995.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1987.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 43.57 psig @ 3295.70 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.07 End Date: 2016.06.07

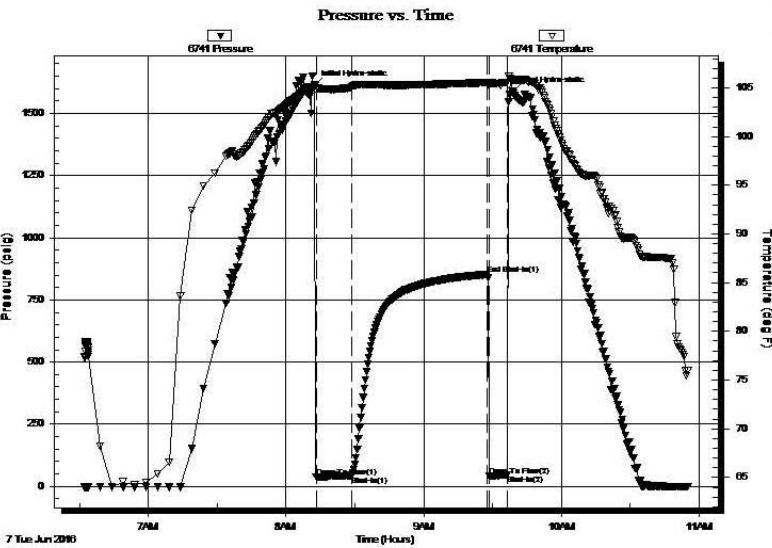
Last Calib.: 2016.06.07

Start Time: 06:32:05 End Time: 10:54:59

Time On Btm: 2016.06.07 @ 08:12:30

Time Off Btm: 2016.06.07 @ 09:38:30

TEST COMMENT: I.F. 15 minutes/Weak blow built to 1 inch
I.S. 160 minutes/no blow back
F.F. 10 minutes/no blow / flush tool no help/pull test



PRESSURE SUMMARY

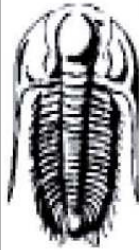
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1612.45	105.27	Initial Hydro-static
1	36.42	104.92	Open To Flow (1)
16	43.57	105.12	Shut-In(1)
75	852.56	105.53	End Shut-In(1)
76	42.04	105.23	Open To Flow (2)
84	47.11	105.55	Shut-In(2)
86	1587.99	105.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tyluka Operations LLC

7/17S/13W/Barton

PO Box 1213
Hays, Kansas
67601
ATTN: Jeremy Schwartz

Trense #1-7

Job Ticket: 65094 **DST#: 2**
Test Start: 2016.06.08 @ 04:07:01

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:41:01

Time Test Ended: 08:33:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/34

Interval: **3366.00 ft (KB) To 3458.00 ft (KB) (TVD)**

Reference Elevations: 1995.00 ft (KB)

Total Depth: 3458.00 ft (KB) (TVD)

1987.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6741 Inside

Press@RunDepth: 62.00 psig @ 3454.39 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.08 End Date: 2016.06.08

Last Calib.: 2016.06.08

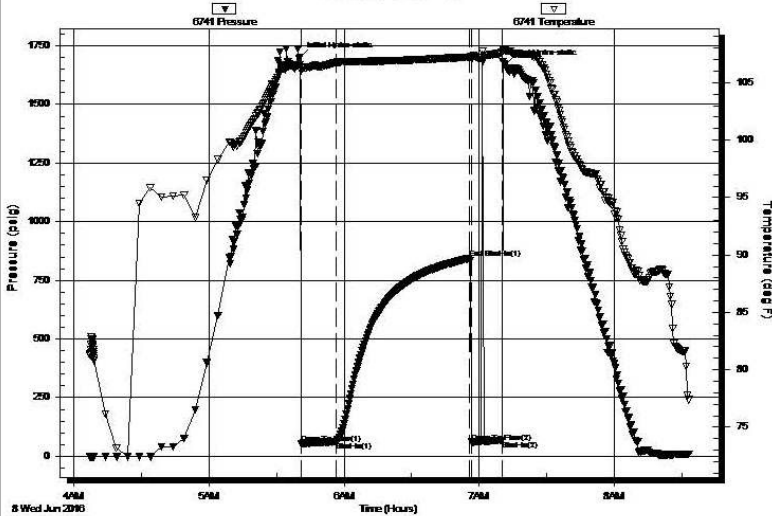
Start Time: 04:07:06 End Time: 08:33:00

Time On Btm: 2016.06.08 @ 05:40:31

Time Off Btm: 2016.06.08 @ 07:11:31

TEST COMMENT: I.F. 15 minutes/Weak blow built to 1 1/4 inch
I.S.I 60 minutes/no blow back
F.F. 15 minutes/no blow flush tool no help/pull test

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.34	106.58	Initial Hydro-static
1	53.58	105.97	Open To Flow (1)
16	62.00	106.75	Shut-In(1)
75	843.01	107.22	End Shut-In(1)
76	59.92	107.09	Open To Flow (2)
90	66.81	107.60	Shut-In(2)
91	1667.68	107.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Tyluka Operations LLC

7/17S/13W/Barton

PO Box 1213
Hays, Kansas
67601

Trense #1-7

Job Ticket: 65095

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2016.06.08 @ 14:34:00



TRILOBITE TESTING, INC

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:10:30

Time Test Ended: 18:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/34

Interval: **3446.00 ft (KB) To 3474.00 ft (KB) (TVD)**

Reference Elevations: 1995.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

1987.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6741

Inside

Press@RunDepth: 23.21 psig @ 3470.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.08 End Date: 2016.06.08

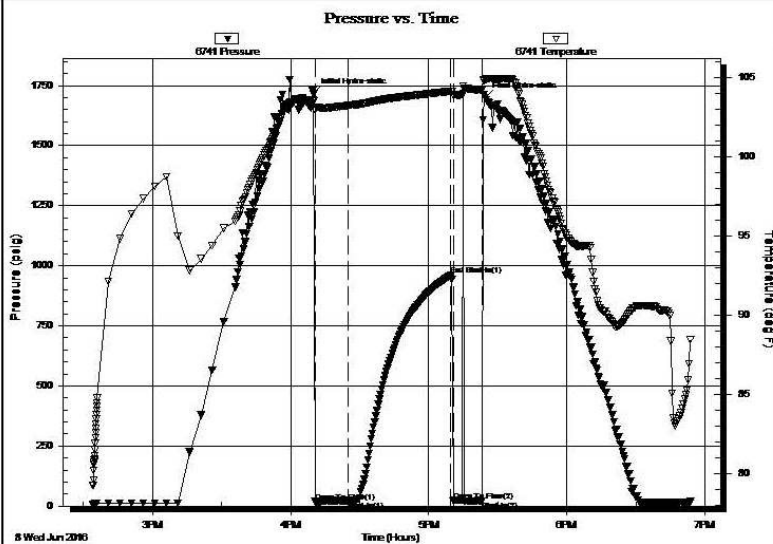
Last Calib.: 2016.06.08

Start Time: 14:34:05 End Time: 18:53:29

Time On Btm: 2016.06.08 @ 16:10:00

Time Off Btm: 2016.06.08 @ 17:24:30

TEST COMMENT: I.F. 15 minutes/Weak surface blow died in 8 minutes
I.S. 160 minutes/no blow back
F.F. 15 minutes/no blow flush tool no help/ pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.49	103.53	Initial Hydro-static
1	18.10	102.95	Open To Flow (1)
15	23.21	103.23	Shut-In(1)
60	960.67	104.14	End Shut-In(1)
61	22.10	103.87	Open To Flow (2)
73	22.12	104.24	Shut-In(2)
75	1700.88	104.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)