

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Tyluka Operations, LLC
Well Name	Trense 1-7
Doc ID	1310030

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Tyluka Operations, LLC
Well Name	Trense 1-7
Doc ID	1310030

Tops

Name	Top	Datum
Topeka	2936	-941
Heebner	3151	-1156
LKC	3240	-1245
Muncie Creek	3368	-1373
Stark Shale	3428	-143
Base KC	3453	-1458
Arbuckle	3459	-1464
LTD	3560	-1565



**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:

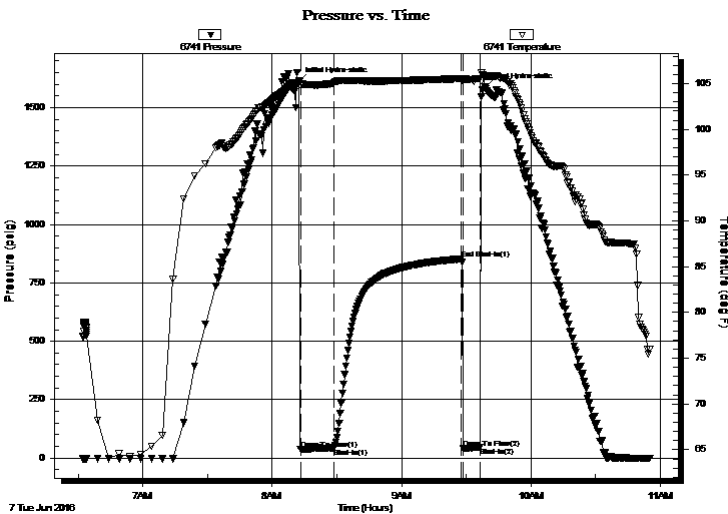
2016.06.07 @ 08:12:30

Time Off Btm:

2016.06.07 @ 09:38:30

TEST COMMENT: I.F. 15 minutes/Weak blow built to 1 inch
I.S.I 60 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

FLUID SUMMARY

Tyluka Operations LLC

7/17S/13W/Barton

PO Box 1213
Hays, Kansas
67601

Trense #1-7

Job Ticket: 65093

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2016.06.07 @ 06:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

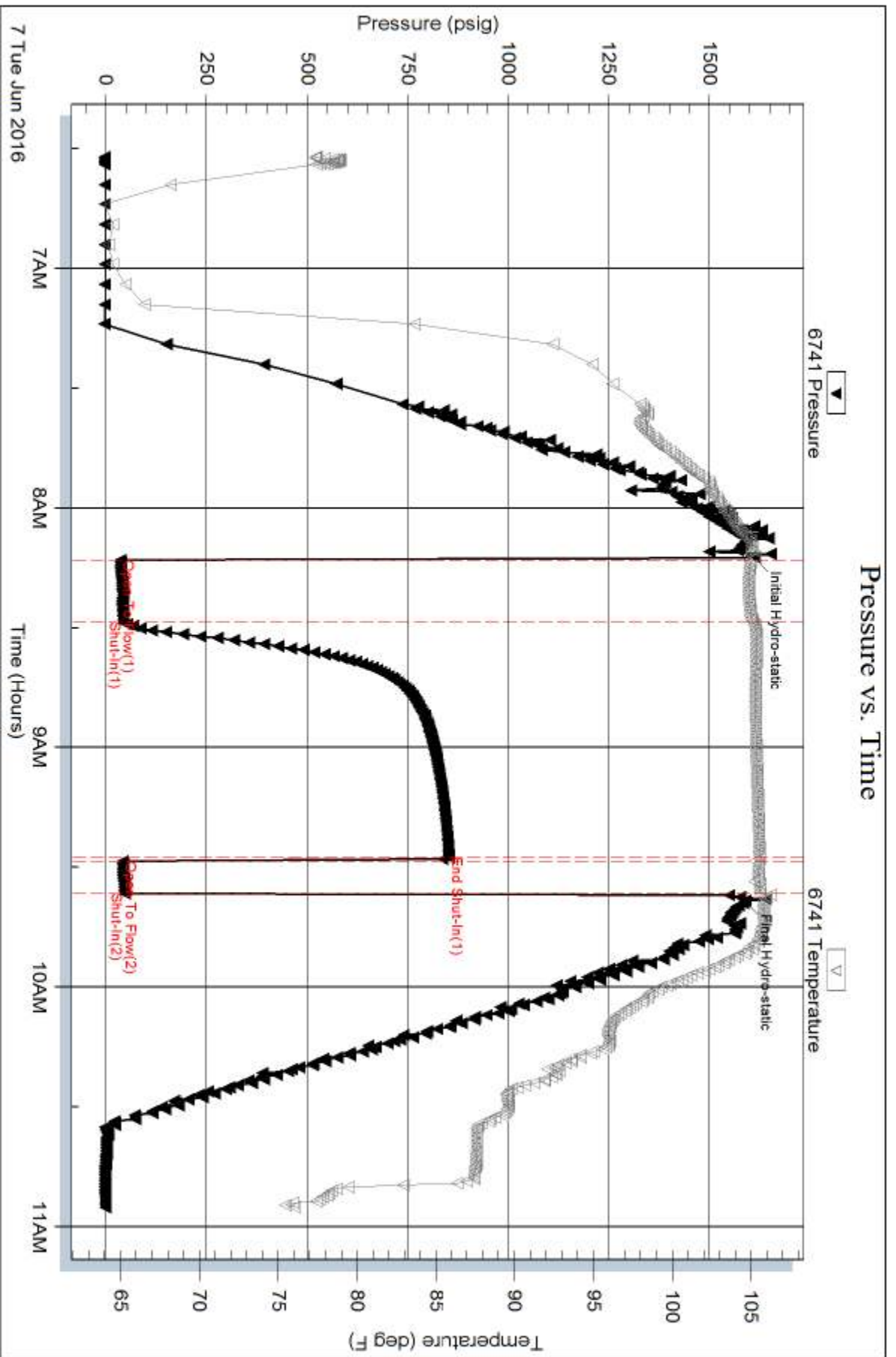
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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:

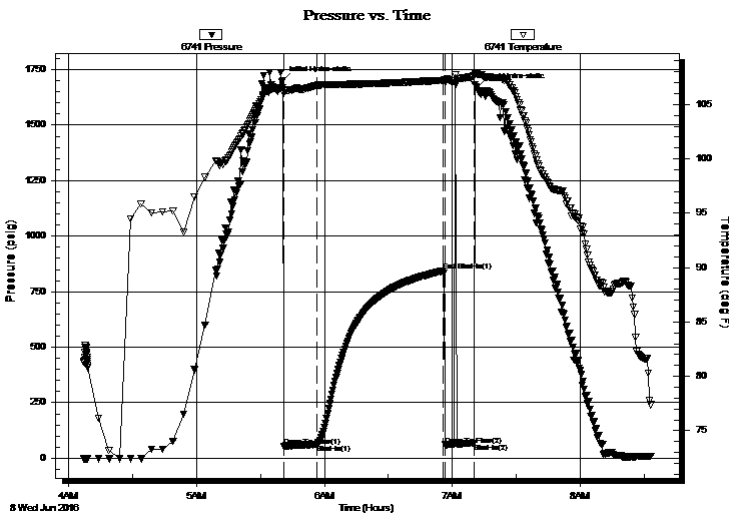
2016.06.08 @ 05:40:31

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 SUMMARY



Time (Min.)	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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tyluka Operations LLC

7/17S/13W/Barton

PO Box 1213
Hays, Kansas
67601

Trense #1-7

Job Ticket: 65094

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2016.06.08 @ 04:07:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

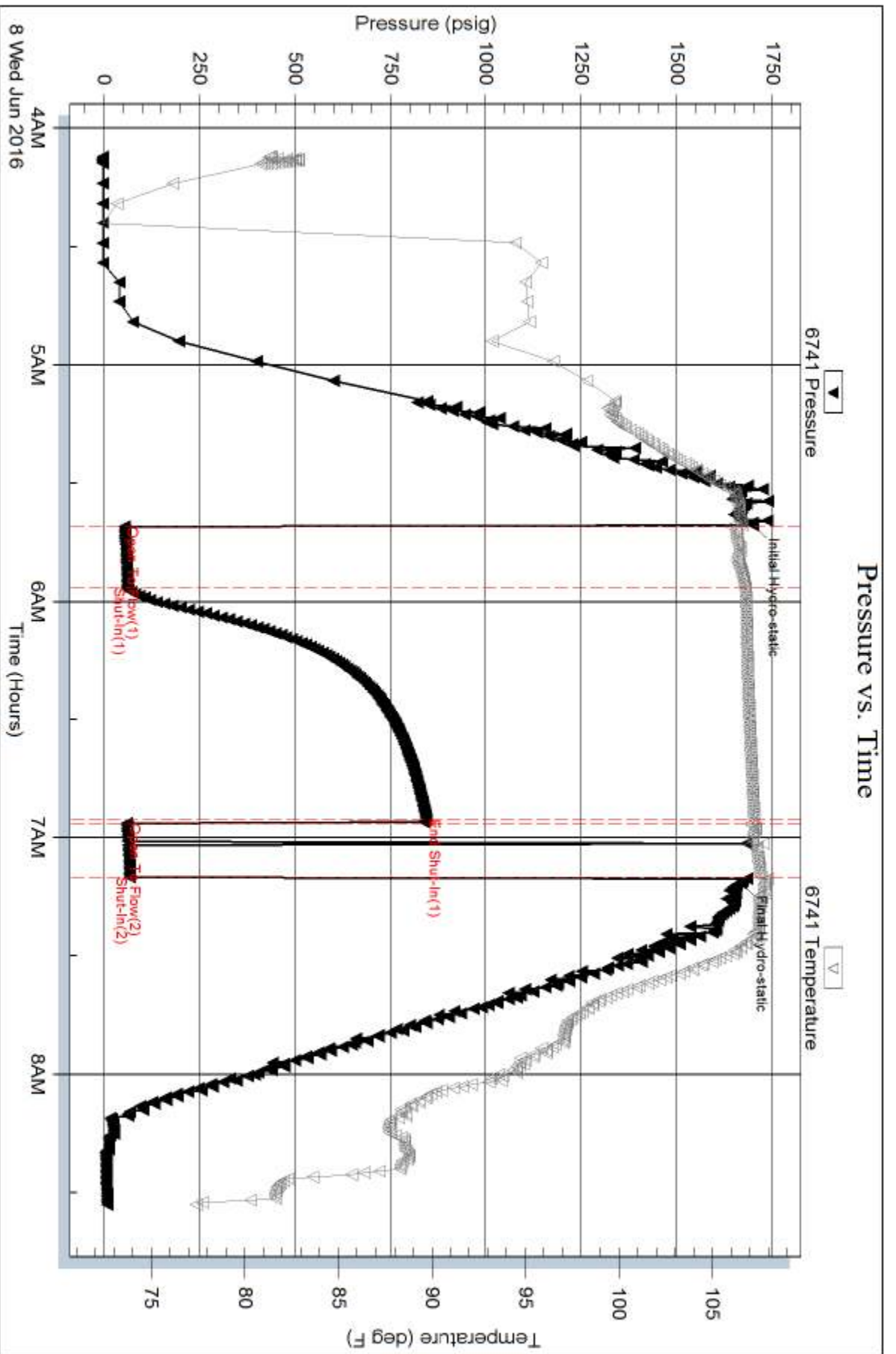
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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: 65095

DST#: 3

Test Start: 2016.06.08 @ 14:34:00

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

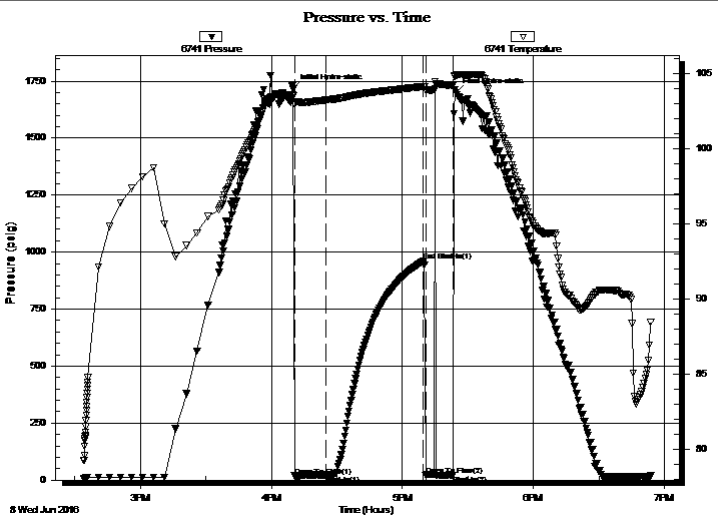
Start Time: 14:34:05 End Time: 18:53:29

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.I 60 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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

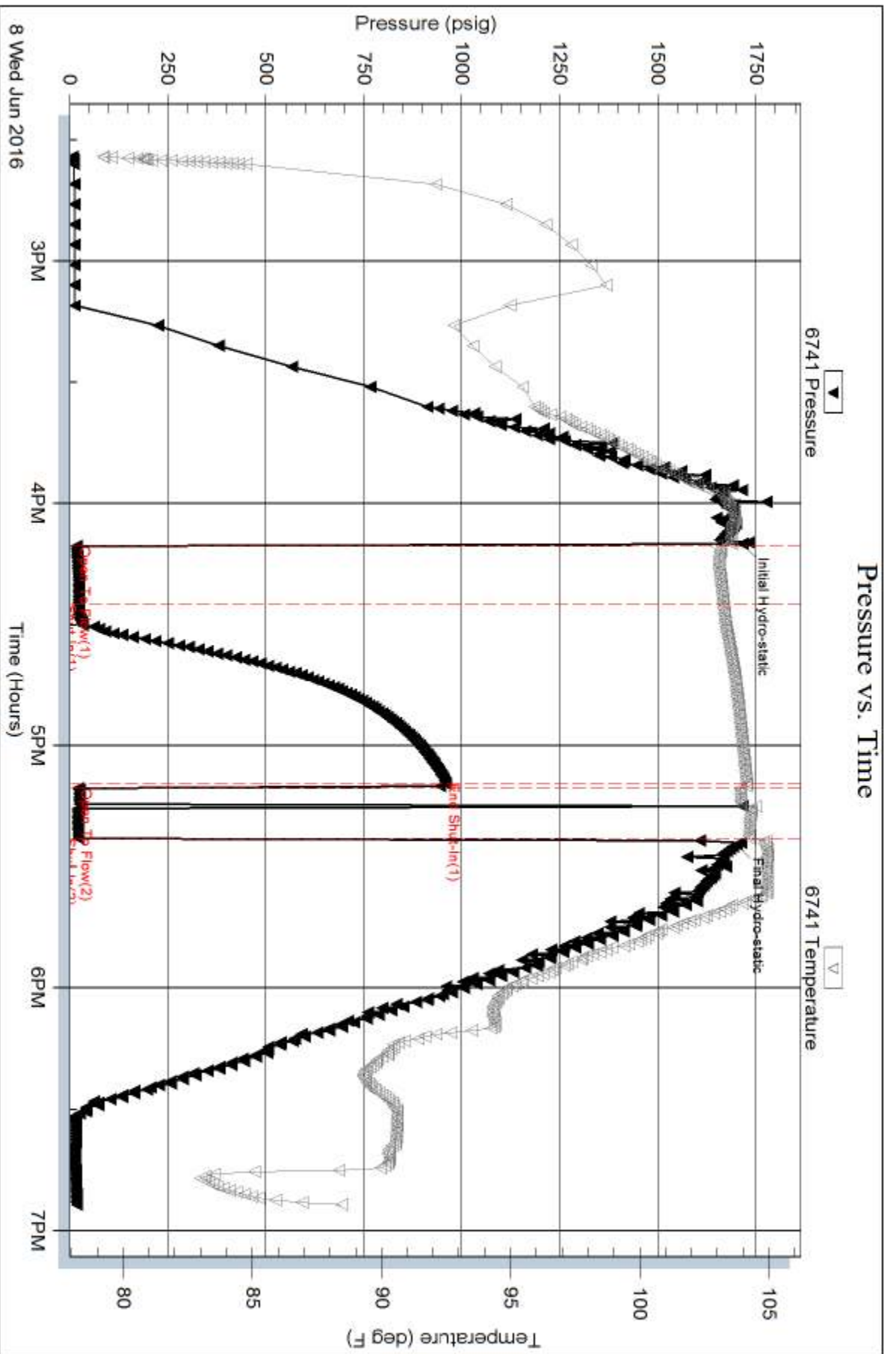
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1705

Date	6-3-16	Sec.	7	Twp.	17	Range	13	County	Barton	State	Ks	On Location		Finish	3:15 PM
------	--------	------	---	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location *Russell 205 to Eggs 4 Sale sign*

Lease	<i>Trense</i>		Well No.	<i>1-17</i>	Owner	<i>2 1/2 E, N/Side</i>	
Contractor	<i>Discovery</i>			<i>3</i>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job	<i>Surface</i>				Charge To	<i>Tyluka operations</i>	
Hole Size	<i>12 1/4"</i>	T.D.	<i>955'</i>		Street		
Csg.	<i>8 3/8"</i>	Depth	<i>955'</i>		City		
Tbg. Size		Depth			State		
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	<i>18'</i>	Shoe Joint	<i>18'</i>		Cement Amount Ordered	<i>350 60/40 4 1/2 cc 2% gel</i>	
Meas Line		Displace	<i>59 1/2 BLS</i>				

EQUIPMENT

Pumptrk	<i>5</i>	No.	Cementer	<i>Brett</i>	Common	<i>210</i>
			Helper		Poz. Mix	<i>140</i>
Bulktrk	<i>4</i>	No.	Driver	<i>Billy</i>	Gel.	<i>7</i>
			Driver		Calcium	<i>13</i>
Bulktrk	<i>pu</i>	No.	Driver	<i>Rick</i>		
			Driver			

JOB SERVICES & REMARKS

Remarks:	<i>Cement did Circulate</i>	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<i>360</i>
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	<i>Baffle plate</i>
Centralizer	<i>Rubber plug</i>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	<i>Long Surface</i>	Tax	
Mileage	<i>18</i>	Discount	
		Total Charge	
X Signature	<i>John Decker</i>		

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1542

Date	6-9-16	Sec.	7	Twp.	17	Range	13	County	Barton	State	Ks	On Location		Finish	5:30 PM
Lease								Location		Norsington 4W3N2E2W					
TENSE								Well No.		1-7					
Contractor								Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Discovery Drig Rig 3								Type Job		plug 7 1/2					
Hole Size								Charge To		Tylwre Operating LLC					
T.D.								Depth		3560					
Csg.								Street							
Tbg. Size								City		State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered 235 80 4% gel 1/4 flow					
Meas Line								Displace							
EQUIPMENT															
Pumptrk		3		No.		Cementer		Brett		Common		141			
						Helper		Dave		Poz. Mix		94			
Bulktrk		14		No.		Driver				Gel.		8			
						Driver				Calcium					
						Driver				Hulls					
JOB SERVICES & REMARKS															
Remarks:								Salt							
Rat Hole								Flowseal 60#							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48'							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
50 5/16 73439'								Handling 243							
50 2 1000'								Mileage							
80 2 500'								FLOAT EQUIPMENT							
10 2 40 w/ plug								Guide Shoe							
30 Rat hole								Centralizer							
15 mouse hole								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								1 8 1/8 Dry Hole plug							
								Pumptrk Charge plug							
								Mileage 18							
X Signature <i>John Dancher</i>								Tax							
								Discount							
								Total Charge							



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:

ELEVATIONS







K.B. Elevation: 1995.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 1987.00ft

DATE	DEPTH	ACTIVITY
Monday, June 06, 2016	3100'	Geologist Jeremy Schwartz on location @ 1530hrs, ~3100', Drlg ahead through Heebner
	3238'	Shale, Toronto, Douglas Shale, Brown Lime, CFS @ 3238', Conduct Short Trip, Successful short trip, CFS 1 hour, Resume Drlg ahead through Brown Lime, Lansing,
Tuesday, June 07, 2016	3300'	CFS @ 3300', Strap Out for DST #1 in the Lansing "A-D", Successful Test, Resume Drlg
	3408'	ahead through Lansing F-G, CFS @ 3325', Resume Drlg, CFS @ 3408', Resume Drlg,
Wednesday, June 08, 2016	3458'	CFS @ 3458', Conduct DST #2 in the Lansing H-K, Successful Test, Resume Drlg,
	3474'	CFS @ 3474', Conduct DST #3 in the Arbuckle, Successful Test, Resume Drlg,
Thursday, June 09, 2016	3482'	CFS @ 3482, Resume Drlg, CFS @ 3490', Resume Drlg ahead to TD, TD of 3560
	3560'	reached @ 0305hrs, CTCH 1hour, drop survey, OOH, Conduct Logging Operations, Logging Operations complete @ 0900hrs
		Geologist Jeremy Schwartz off location @ 1100hrs

		SHELBY RESOURCES, LLC								OIL - P&A								ENERGYQUEST II, LLC (ORIGINAL OP. SHELBY)															
		NANCY #1-17								A. SCOTT RITCHIE et al								PUTNAM #1								HOFFMAN RANCH #1-18							
		TRENSSE #1-7								NW-NE-SW-NW 17-17S-13W								NW-NE-NE 7-17S-13W								SW-NW-SE-NE 18-17S-13W							
		1995				1992				1958				1945				1995				1945											
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.											
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.									
ANHYDRITE TOP	942	1053	940	1055	928	1064	-	11	-	9	913	1045	+	8	+	10	889	1056	-	3	-	1											
BASE	968	1027	975	1020	956	1036	-	9	-	16							916	1029	-	2	-	9											
TOPEKA	2936	-941	2939	-944	2920	-928	-	13	-	16							2876	-931	-	10	-	13											
HEEBNER SHALE	3151	-1156	3155	-1160	3138	-1146	-	10	-	14	3112	-1154	-	2	-	6	3092	-1147	-	9	-	13											
TORONTO	3166	-1171	3172	-1177	3156	-1164	-	7	-	13	3128	-1170	-	1	-	7	3109	-1164	-	7	-	13											
DOUGLAS SHALE	3180	-1185	3183	-1188	3166	-1174	-	11	-	14	3143	-1185	+	0	-	3	3119	-1174	-	11	-	14											
BROWN LIME	3230	-1235	3234	-1239	3219	-1227	-	8	-	12	3196	-1238	+	3	-	1	3172	-1227	-	8	-	12											
LKC	3240	-1245	3246	-1251	3228	-1236	-	9	-	15	3204	-1246	+	1	-	5	3182	-1237	-	8	-	14											
LKC B	3266	-1271	3270	-1275	3254	-1262	-	9	-	13	3232	-1274	+	3	-	1	3207	-1262	-	9	-	13											
LKC D	3289	-1294	3290	-1295	3275	-1283	-	11	-	12	3254	-1296	+	2	+	1	3229	-1284	-	10	-	11											
LKC G POROSITY	3314	-1319	3317	-1322	3300	-1308	-	11	-	14	3280	-1322	+	3	+	0	3250	-1305	-	14	-	17											
MUNCIE CREEK	3368	-1373	3370	-1375	3354	-1362	-	11	-	13	3333	-1375	+	2	+	0	3309	-1364	-	9	-	11											
LKC H	3374	-1379	3375	-1380	3361	-1369	-	10	-	11	3342	-1384	+	5	+	4	3316	-1371	-	8	-	9											
LKC I	3394	-1399	3395	-1400	3380	-1388	-	11	-	12	3363	-1405	+	6	+	5	3334	-1389	-	10	-	11											
LKC J	3407	-1412	3419	-1424	3392	-1400	-	12	-	24	3377	-1419	+	7	-	5	3349	-1404	-	8	-	20											
STARK SHALE	3428	-1433	3428	-1433	3413	-1421	-	12	-	12	3397	-1439	+	6	+	6	3369	-1424	-	9	-	9											
LKC K	3434	-1439	3437	-1442	3420	-1428	-	11	-	14	3406	-1448	+	9	+	6	3380	-1435	-	4	-	7											
BKC	3453	-1458	3453	-1458	3442	-1450	-	8	-	8	3426	-1468	+	10	+	10	3397	-1452	-	6	-	6											
ARBUCKLE	3459	-1464	3463	-1468	3476	-1484	+	20	+	16	3442	-1484	+	20	+	16	3412	-1467	+	3	-	1											
RTD			3560	-1565	3539	-1547			-	18	3457	-1499			-	66	3525	-1580			+	15											
LTD	3560	-1565			3537	-1545	-	20			3456	-1498	-	67			3526	-1581	+	16													









ROCK TYPES

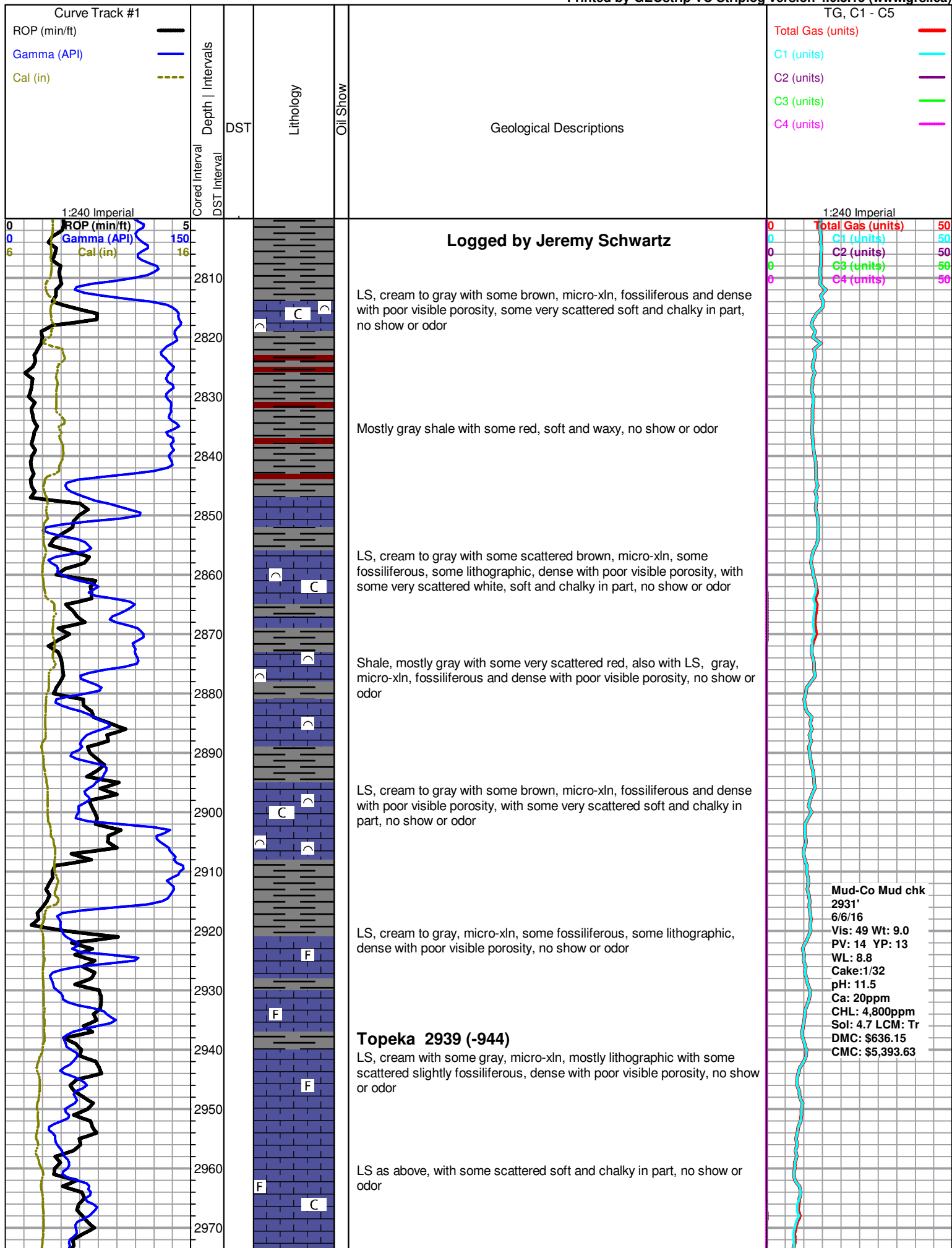
 Dolprim	 shale, grn	 Carbon Sh
 Lmst fw<7	 shale, gry	 shale, red

ACCESSORIES

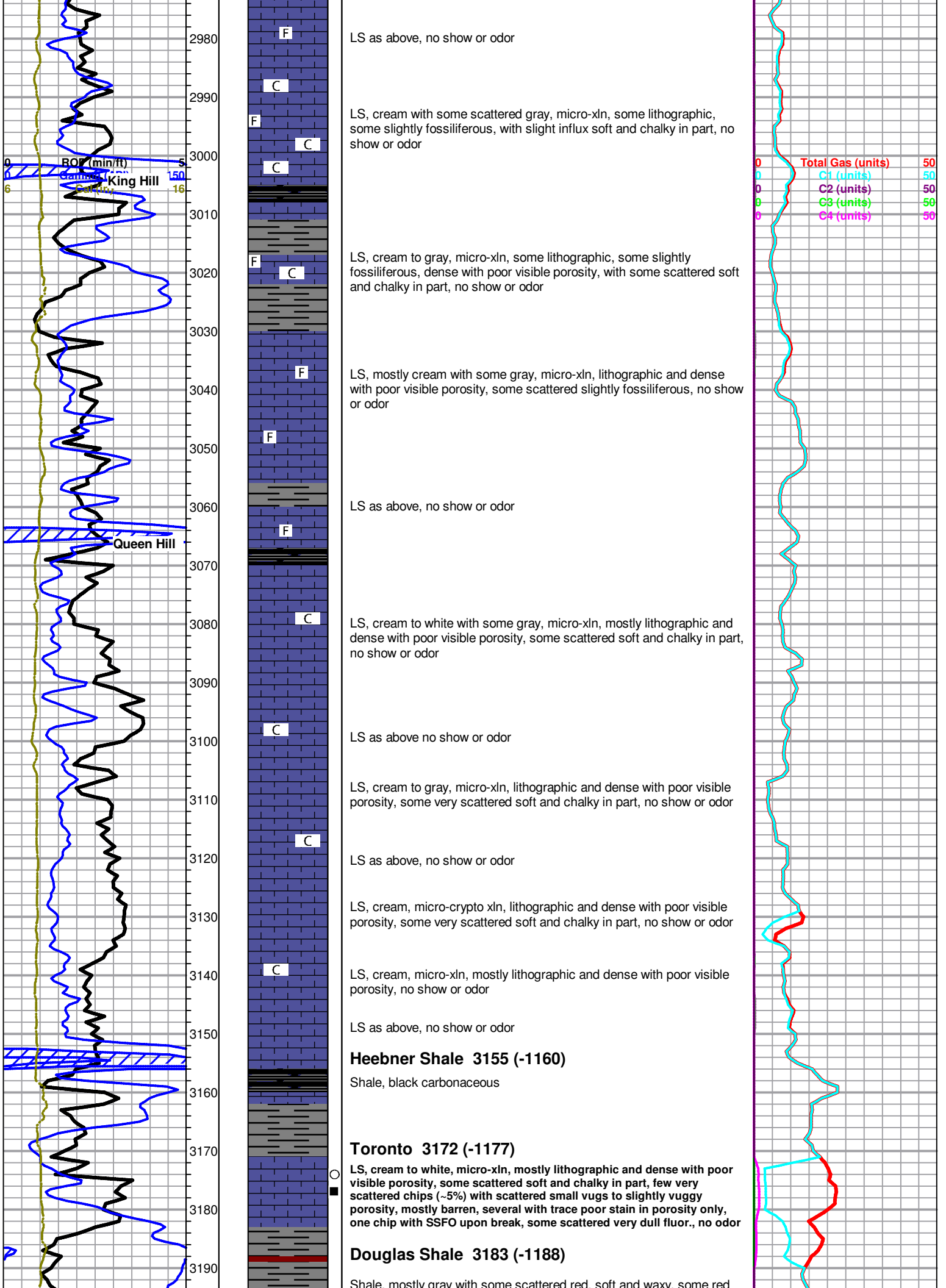
MINERAL P Pyrite	FOSSIL ∩ Bioclastic or Fragmental F Fossils < 20%	STRINGER ~ Chert ••• Sandstone ••• Siltstone	TEXTURE C Chalky
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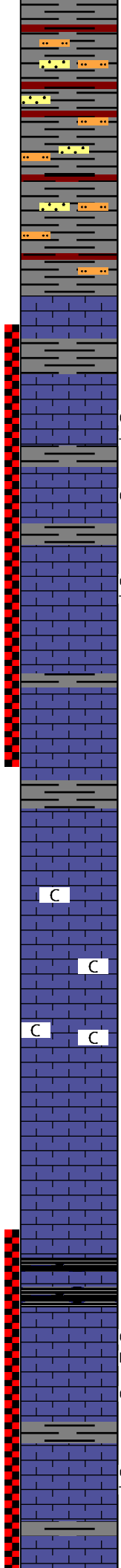
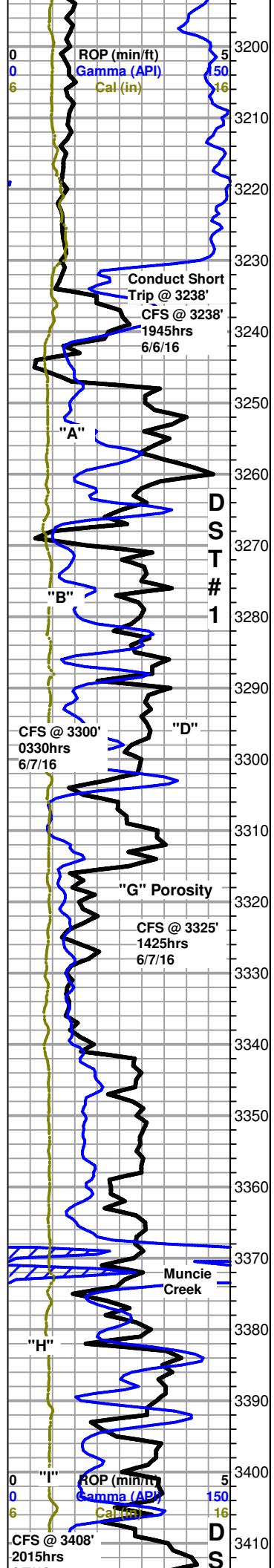
OTHER SYMBOLS

MISC  Daily Report  Digital Photo  Document  Folder  Link  Vertical Log File  Horizontal Log File  Core Log File	Oil Show ● Good Show ● Fair Show ● Poor show ○ Spotted or Trace ○ Questionable Stn D Dead Oil Stn ■ Fluorescence * Gas	DST ■ DST Int ■ DST alt
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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





blocky and dense

Shale as above, silty, with some very scattered sand clusters, gray, vf 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

Trense 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

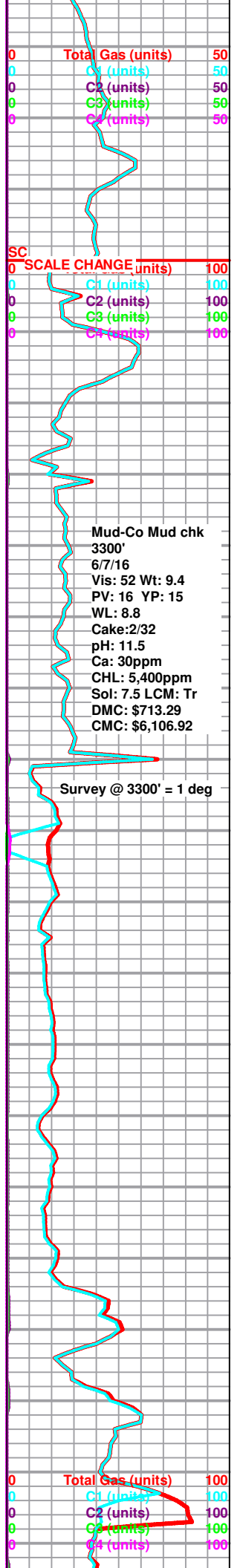
Trense 1-7 dst 2.jpg

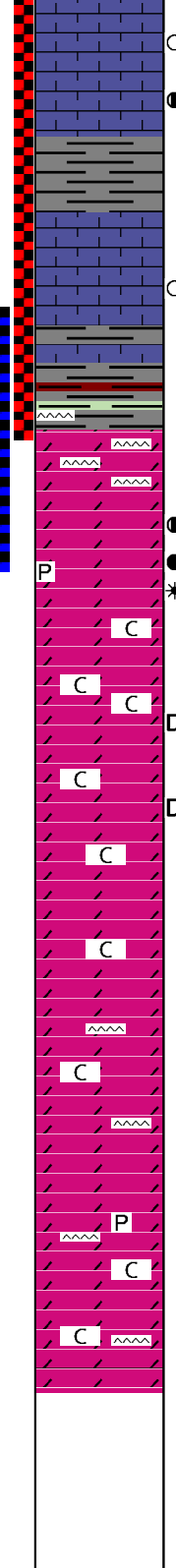
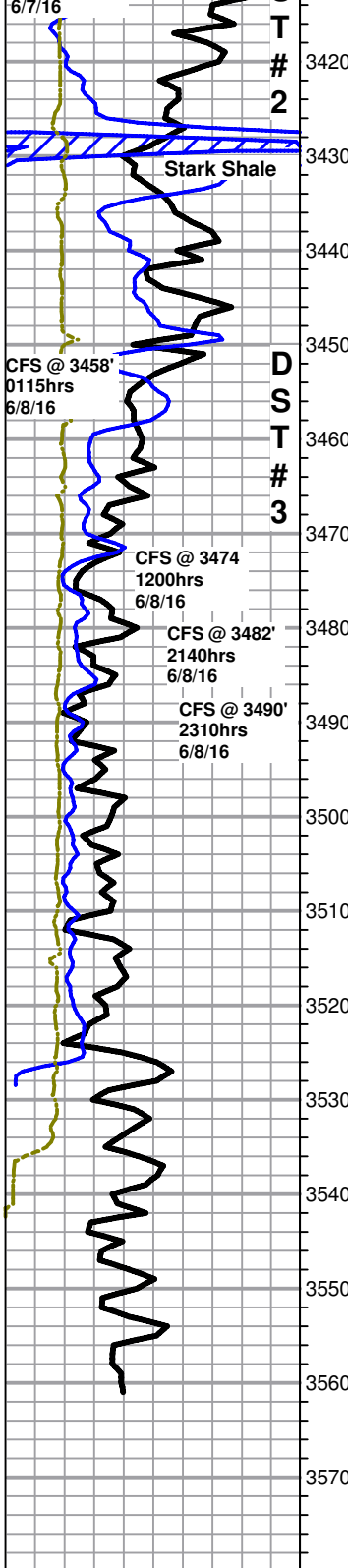
~3380' LS, mostly gray with some scattered cream, micro-xln, lithographic and dense with poor visible porosity, with some scattered (~15%) small cream chips sub-oomoldic to slightly yuggy porosity and scattered light golden brown stain to mostly saturated stain, few chips saturated light stain that increases 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





LS, cream to white with some scattered light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky in part, few chips (<5%) with slight edge porosity and very slight scattered stain on edge only, NSFO, no fluor., no odor

~3430' LS, cream to light gray, micro-xln mostly lithographic and dense with poor visible porosity, few very scattered chips (~5-10%) with some scattered small vugs to slightly vuggy porosity and mostly saturated light golden brown stain, upon break chips have NSFO to VSSFO and show some fair inter-xln porosity as well as mostly saturated to saturated inter-xln stain, NSFO in tray, chips with shows have dull yellowish-green fluor., poor odor

~3440' LS, cream to light gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, found 2 chips sub-oolitic with scattered inter-oolite light golden brown stain, some scattered poor to fair inter-oolite porosity, dense, dull yellow fluor., NSFO in tray, no odor

BKC 3453 (-1458)

3458' 30" LS, cream to light gray with some scattered white, micro-xln, lithographic and dense with poor visible porosity, no show, fluor., or odor

3458' 60" Mostly same as above, with influx gray shale with some scattered red and trace green, with some scattered orange to opaque cherts, no show or odor

Arbuckle 3463 (-1468)

Trensse 1-7 dst 3.jpg

3474' 30" Dolomite, cream to white, micro-xln, mostly sub-sucrosic to sucrosic, some barren, some (~30-40%) with scattered brown to black stain, some chips dense with poor visible porosity and NSFO upon break, some scattered fair visible inter-xln porosity, some scattered chips sucrosic and saturated with oil pooling up on surface, fairly friable, upon break chips show poor to fair visible inter-xln porosity and slight to fair show free oil, NSFO in tray, good odor

3474' 60" Dolomite, mostly same as above with slight influx sucrosic with shows (~40-50%), scattered to saturated stain in most, some with slight to fair show free oil pooling up on surface, upon break some chips show poor to fair inter-xln porosity with mostly saturated matrix and slight to fair show free oil with slight show gas bubbles in some, trace pyrite, fair show free oil in tray, good odor

3482' 60" Dolomite, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, barren, some scattered (~15%) sub-sucrosic to sucrosic with poor visible porosity and scattered to very scattered stain, upon break most chips show poor inter-xln porosity and scattered to very scattered stain in matrix, VSSFO in some, chalky, with trace pyrite, VSSFO in tray, fair odor

3490' 60" Dolomite, cream with some scattered white, micro-xln, sub-sucrosic to lithographic and dense with poor visible porosity, some very scattered gilsonitic stain on some chips, slightly chalky, NSFO or odor

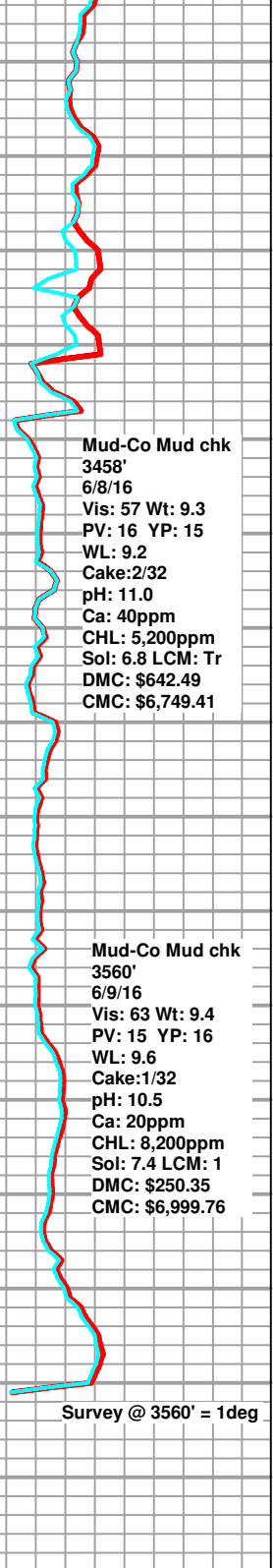
~3500 Dolomite, cream with some scattered white, micro-xln, mostly sub-sucrosic to sub-rhombic and dense and barren with poor visible porosity, some with scattered to very scattered gilsonitic stain, with some very scattered white to tan chert, slightly chalky, NSFO, poor odor

Dolomite as above, no show or odor

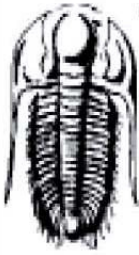
Dolomite, cream with some scattered white, micro-xln, sub-sucrosic to sub-rhombic, dense and barren with poor visible porosity, some with some very scattered fair visible inter-xln porosity, slightly chalky, with some very scattered white to tan chert, no show or odor

Dolomite as above, with some scattered light brown, trace slightly pyritic, with trace white to tan chert, slightly chalky, no show or odor

Dolomite, cream to light brown with some scattered white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, with some scattered white to light brown and tan chert, fairly chalky, no show or odor



Rotary TD 3560' @ 0305hrs 6/9/16
Casedhole Solutions Logging TD @ 3560'
Complete Logging Operations @ 0900hrs 6/9/16
Geologist Jeremy Schwartz off location @ 1100hrs 6/9/16



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

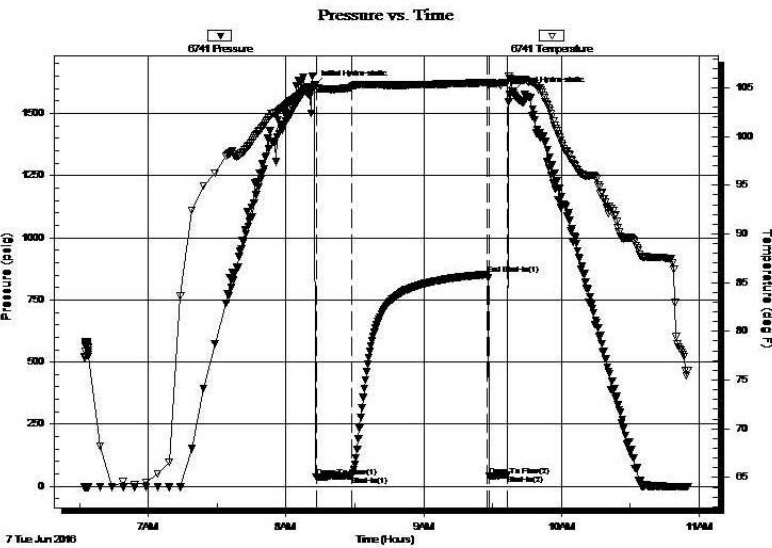
Last Calib.: 2016.06.07

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

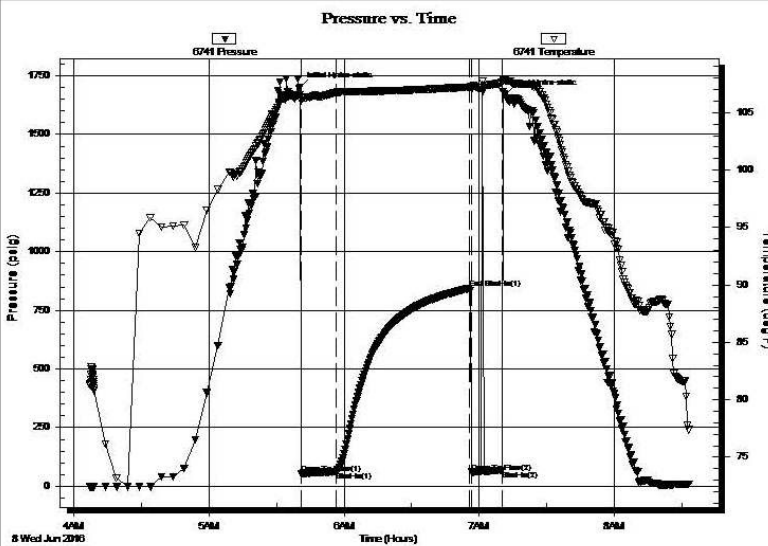
Job Ticket: 65094 **DST#: 2**
Test Start: 2016.06.08 @ 04:07:01

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:41:01
Time Test Ended: 08:33:01
Interval: **3366.00 ft (KB) To 3458.00 ft (KB) (TVD)**
Total Depth: 3458.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72 Great Bend/34
Reference Elevations: 1995.00 ft (KB)
1987.00 ft (CF)
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 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

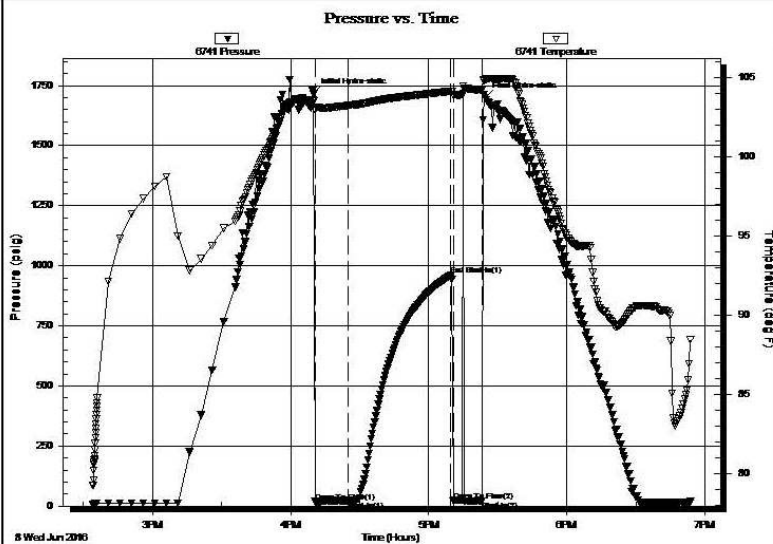
Last Calib.: 2016.06.08

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)