

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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Company: Steven A. Ward Oil Company

Lease: Fabrizzius #A-1

SEC: 3 TWN: 14S RNG: 22W
County: TREGO
State: Kansas
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4
Elevation: 2344 EGL
Field Name: Cedar View West
Pool: WILDCAT
Job Number: 451
API #: 15-195-23107-00-00

Operation:
Test Complete

DATE
September
05
2020

DST #1 **Formation:** Cherokee Sand **Test Interval:** 4170 - 4240' **Total Depth:** 4240'
Time On: 23:10 09/05 Time Off: 05:39 09/06
Time On Bottom: 01:28 09/06 Time Off Bottom: 03:28 09/06

Electronic Volume Estimate:
3'

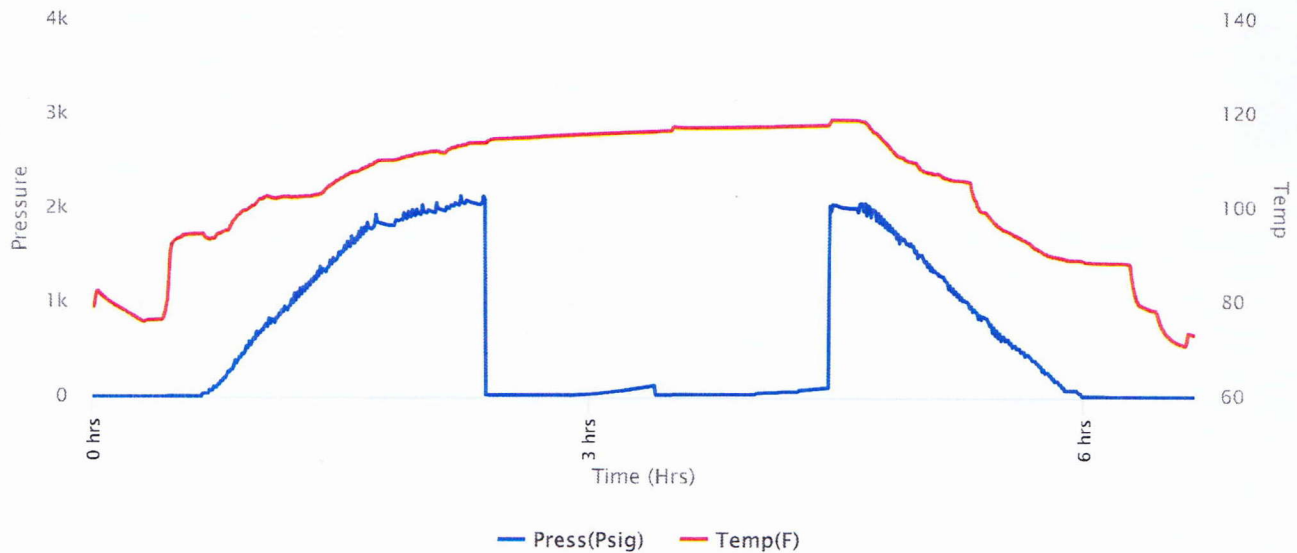
1st Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: .1"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

Inside Recorder





Company: Steven A. Ward Oil Company

Lease: Fabrizzius #A-1

SEC: 3 TWN: 14S RNG: 22W
 County: TREGO
 State: Kansas
 Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4
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DATE
 September
05
 2020

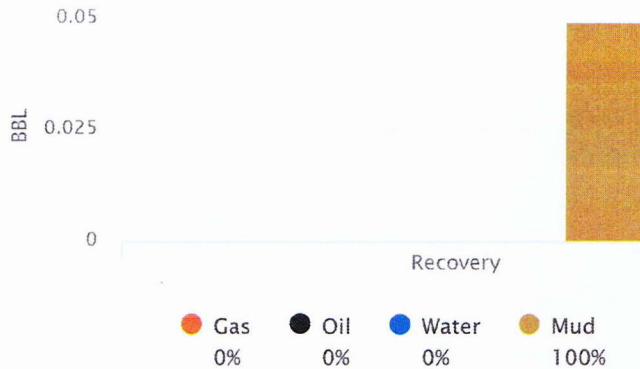
DST #1 **Formation: Cherokee Sand** **Test Interval: 4170 - 4240'** **Total Depth: 4240'**
 Time On: 23:10 09/05 Time Off: 05:39 09/06
 Time On Bottom: 01:28 09/06 Time Off Bottom: 03:28 09/06

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
10	0.0492	M	0	0	0	100

Total Recovered: 10 ft
 Total Barrels Recovered: 0.0492

Reversed Out
 NO

Recovery at a glance



GIP cubic foot volume: 0

Initial Hydrostatic Pressure	2044	PSI
Initial Flow	23 to 25	PSI
Initial Closed in Pressure	124	PSI
Final Flow Pressure	26 to 33	PSI
Final Closed in Pressure	99	PSI
Final Hydrostatic Pressure	2036	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	20.2	%



Company: Steven A. Ward Oil

Company

Lease: Fabrizius #A-1

SEC. 8 TWN: 14S RNG: 22W
County: TREGO
State: Kansas
Drilling Contractor: Discovery Drilling
Company, Inc. - Rig 4
Elevation: 2344 EGL
Field Name: Cedar View West
Pool: WILDCAT
Job Number: 451
API #: 15-195-23107-00-00

Operation:
Test Complete

DATE
September
05
2020

DST #1 Formation: Cherokee Sand Test Interval: 4170 - 4240' Total Depth: 4240'
Time On: 23:10 09/05 Time Off: 05:39 09/06
Time On Bottom: 01:28 09/06 Time Off Bottom: 03:28 09/06

BUCKET MEASUREMENT:

1st Open: 1/8 in. blow. Died in 25 mins.
1st Close: No blow back.
2nd Open: No blow. Flushed tool after 5 mins, No blow.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud

Steven A. Ward Oil Company LEASE AND WELL NO. Fabrizius No. A-1 SEC. 3 TWP. 14S RGE. 22W TEST NO. 1 DATE 9-5-20



Company: Steven A. Ward Oil Company

Lease: Fabrizius #A-1

SEC. 3 TWP. 14S. R22W
County: Trego
State: Kansas
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4
Elevation: 2344 EGL
Field Name: Cedar View West
Pool: WILDCAT
Job Number: 451
API #: 15-195-23107-00-00

Operation:
Test Complete

DATE
September
05
2020

DST #1 **Formation:** Cherokee Sand **Test Interval:** 4170 - 4240' **Total Depth:** 4240'
Time On: 23:10 09/05 Time Off: 05:39 09/06
Time On Bottom: 01:28 09/06 Time Off Bottom: 03:28 09/06

Down Hole Makeup

Heads Up: 14.73 FT	Packer 1: 4164.62 FT
Drill Pipe: 4120.76 FT ID-3 1/2	Packer 2: 4169.62 FT
Weight Pipe: 0 FT ID-2 7/8	Top Recorder: 4154.04 FT
Collars: 31.02 FT ID-2 1/4	Bottom Recorder: 4174 FT
Test Tool: 33.57 FT ID-3 1/2-FH Jars Safety Joint	Well Bore Size: 7 7/8
Total Anchor: 70.38	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT 4 1/2-FH	
Change Over: .5 FT	
Drill Pipe: (in anchor): 62.38 FT ID-3 1/2	
Change Over: .5 FT	
Perforations: (below): 3 FT 4 1/2-FH	

Steven A. Ward Oil Company LEASE AND WELL NO. Fabrizius No. A-1 SEC. 3 TWP. 14S RGE. 22W TEST NO. 1 DATE 9-5-20



Company: Steven A. Ward Oil
Company

Lease: Fabrizzius #A-1

County: TREGO
State: Kansas
Drilling Contractor: Discovery Drilling
Company, Inc. - Rig 4
Elevation: 2344 EGL
Field Name: Cedar View West
Pool: WILDCAT
Job Number: 451
API #: 15-195-23107-00-00

Operation:
Test Complete

DATE
September
05
2020

DST #1 Formation: Cherokee Sand Test Interval: 4170 - 4240' Total Depth: 4240'
Time On: 23:10 09/05 Time Off: 05:39 09/06
Time On Bottom: 01:28 09/06 Time Off Bottom: 03:28 09/06

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 56 Filtrate: 5.8 Chlorides: 2,500 ppm

Steven A. Ward Oil Company LEASE AND WELL NO. Fabrizzius No. A-1 SEC. 3 TWP. 14S RGE. 22W TEST NO. 1 DATE 9-5-20



Geologic Report

Drilling Time and Sample Log

Operator Steven A. Ward Oil Company			Elevation KB 2352'	
Lease Fabrizius		No. A-1	DF	
			GL 2344'	
API # 15-195-23107-0000			Casing Record Surface 8 5/8" @ 221'	
Field Cedar View West			Production	
Location 2180' FSL & 2013' FWL			Electrical Surveys CNL/CDL, DIL	
Sec. 3	Twp. 14s	Rge. 22w		
County Trego		State Kansas		
Formation	Sample tops	Log Tops	Datum	Struct Comp
Anhydrite	1794'	1794'	+558	+556 +2
Base	1835'	1835'	+517	+519 -2
Topeka	3502'	3501'	-1149	-1143 -6
Heebner	3741'	3739'	-1387	-1379 -8
Toronto	3760'	3759'	-1407	-1399 -8
Lansing	3774'	3774'	-1422	-1413 -9
BKC	4027'	4027'	-1675	-1665 -10
Pawnee	4126'	4130'	-1778	-1767 -11
Fort Scott	4203'	4202'	-1850	-1835 -15
Cherokee Sand	4225'	4222'	-1870	-1867 -3
Conglomerate	4255'	4254'	-1902	-1892 -10
Mississippian	4318'	4317'	-1965	-1957 -8
Total Depth	4335'	4335'	-1983	

Reference Well For Structural Comparison **Zenith Drilling Co. Fabrizius #1**
 SE SE SW Sec. 3 T14s R22w Trego County, Kansas

Drilling Contractor	Discovery Drilling Co., Inc. Rig #4	
Commenced	8-30-2020	Completed 9-
Samples Saved From	3450'	To
Drilling Time Kept From	3350'	To
Samples Examined From	3450'	To
Geological Supervision From	3450'	To

Displacement **3200'**
 Mud Type **Chemical**

Summary and Recommendations

The location for the Fabrizius #1 well was found via 3-D seis new well ran structurally as expected via the survey. One Drill conducted which was negative. After all gathered data had been decision was made to plug and abandon the Fabrizius #1 well.

Plugging Orders:

- 1st plug @ 1850' w/ 50 sks
- 2nd plug @ 900' w/ 100 sks
- 3rd plug @ 275' w/ 50 sks
- 4th plug @ 40' w/ 10 sks
- Rat Hole 30 sks
- Mouse Hole 15 sks

255 sks 60/40 poz, 4% gel 1/4# F.S.

KCC-Case Morris

Respectfully Su

Jason T Alm
 Hard Rock Con

RTD
RTD
RTD
RTD
RTD

seismic survey. The
rill Stem Test was
been examined the

Submitted,

Consulting, Inc.

ROCK TYPES

Cht	Lmst fw7>	shale, gry	shale, red
Cht vari	shale, grn	Carbon Sh	Ss

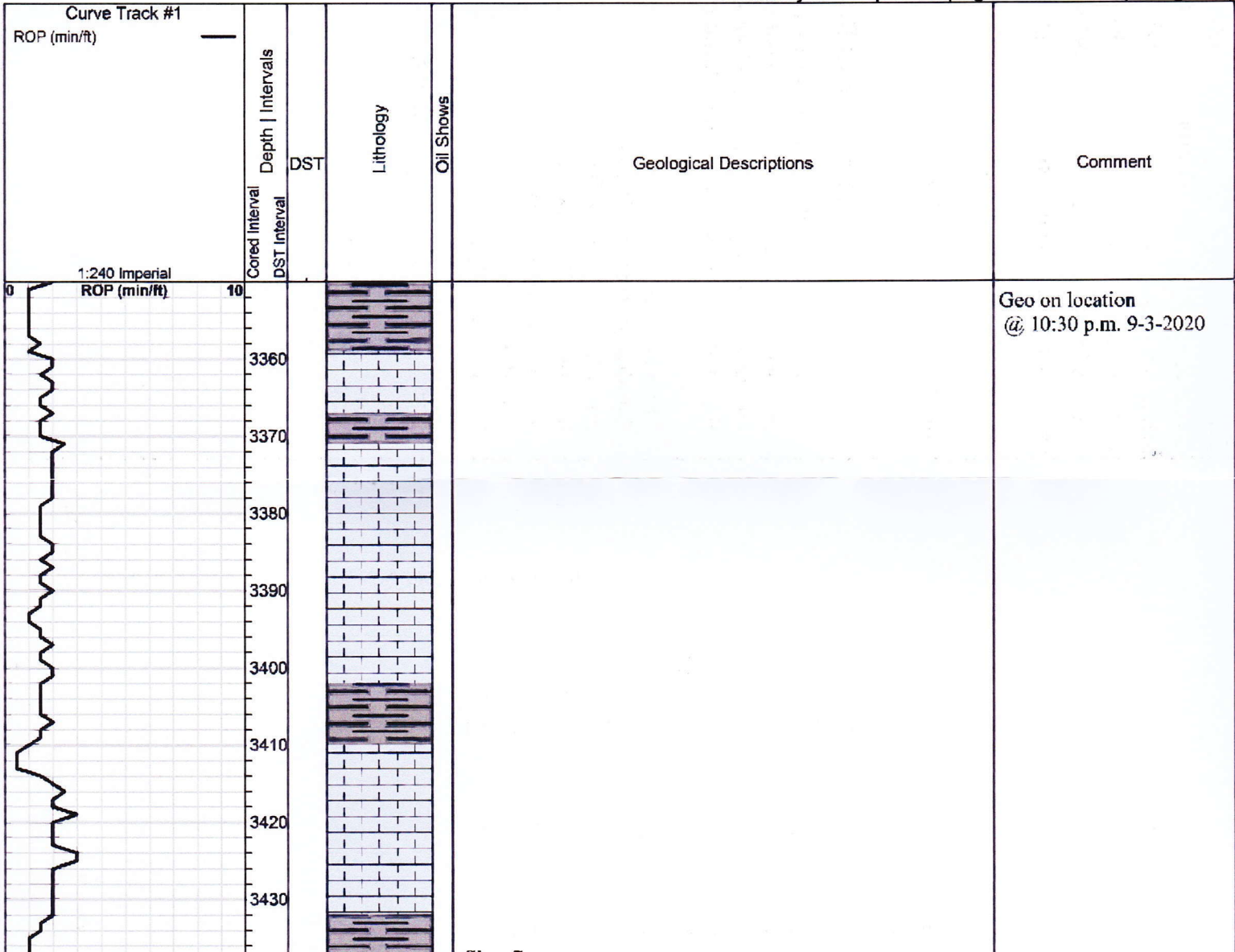
ACCESSORIES

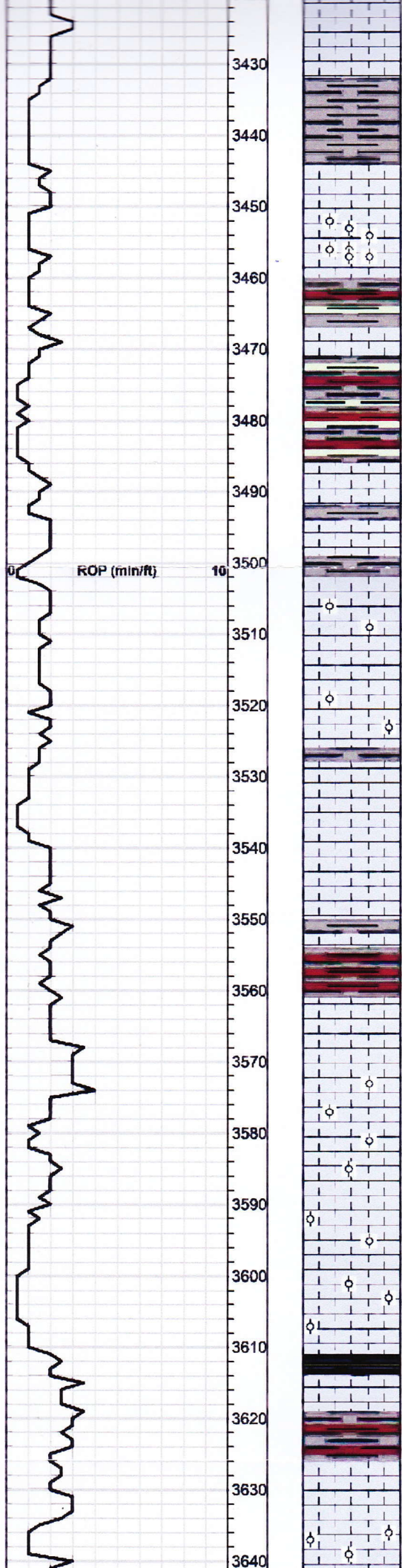
MINERAL	FOSSIL	STRINGER
▲ Chert, dark	◇ Oolite	●●● Sandstone
△ Chert White		— Shale

OTHER SYMBOLS

OIL SHOWS	DST
● Even Stn	■ DST Int
● Spotted Stn 50 - 75 %	■ DST all
● Spotted Stn 25 - 50 %	■ Core
○ Spotted Stn 1 - 25 %	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Sh - Gry

Ls - Tan-offwh, fn xln, ool pkst w/ fair-good ooc por, barren

Sh - Gry-grn-brn

Sh - Gry-grn-brn

Sh - ala

Ls - Tan-lt gry, fn xln, dns

Topeka 3502' -1150

Ls - Lt gry, fn xln, ool in part, sl fossil, dns

Ls - ala

Ls - Tan, fn xln w/ good interxln por, barren, sl chalky

Ls - ala, dns

Sh - Gry-brn

Ls - Tan-lt gry, sl mottled w/ gry sh, fn-subxln, dns

Ls - ala, fn xln, ool in part w/ fair ooc por, barren

Ls - Tan, fn, xln ool in part w/ fair-good interxln and ooc por, barren

Ls - ala

Sh - Blk, carb

Sh - Bry-brn

Ls - Tan, fn xln, ool in part w/ fair-good interxln & ooc por, barren

Sh - Bry-brn

3630
3640
3650
3660
3670
3680
3690
3700
3710
3720
3730
3740
3750
3760
3770
3780
3790
3800
3810
3820
3830
3840

Ls - Tan, fn xln, ool in part w/ fair-good interxln & ooc por, barren

Ls - ala

Sh - Gry-brn

Sh - Blk, carb.

Ls - Tan, fn xln, ool pkst w/ fair-good ooc por, barren

Ls - ala, poor-fair por

Ls - ala, dns

Ls - Tan-lt gry, fn-subxln, sl ool in part, dns

Heebner 3741' -1389

Sh - Blk, carb

Sh - Gry-brn

Toronto 3760' -1408

Ls - Tan, fn xln w/ poor scat interxln por, barren

Lansing 3774' -1422

Ls - Tan-offwh, fn xln, ool in part w/ poor scat oom por, barren

Ls - Offwh, fn xln, ool pkst in part w/ poor-fair oom por, barren, very cherty, chalky

Sh - Blk, carb

Sh - Gry-brn

Ls - Tan, fn xln, ool in part w/ poor scat ooc por, barren

Ls - Offwh-tan, fn xln, ool pkst in part w/ poor scat oom & interxln por, barren

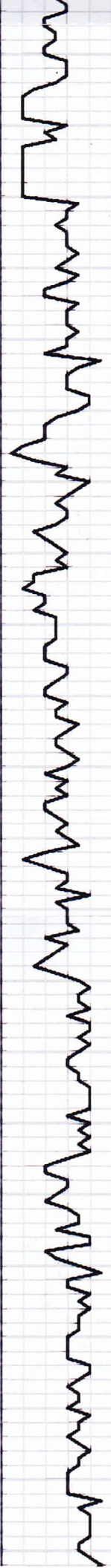
Mud Check by Mudco
Vis 48
Wt 8.7
Fil 5.6
pH 11.5
Chl 3.7k

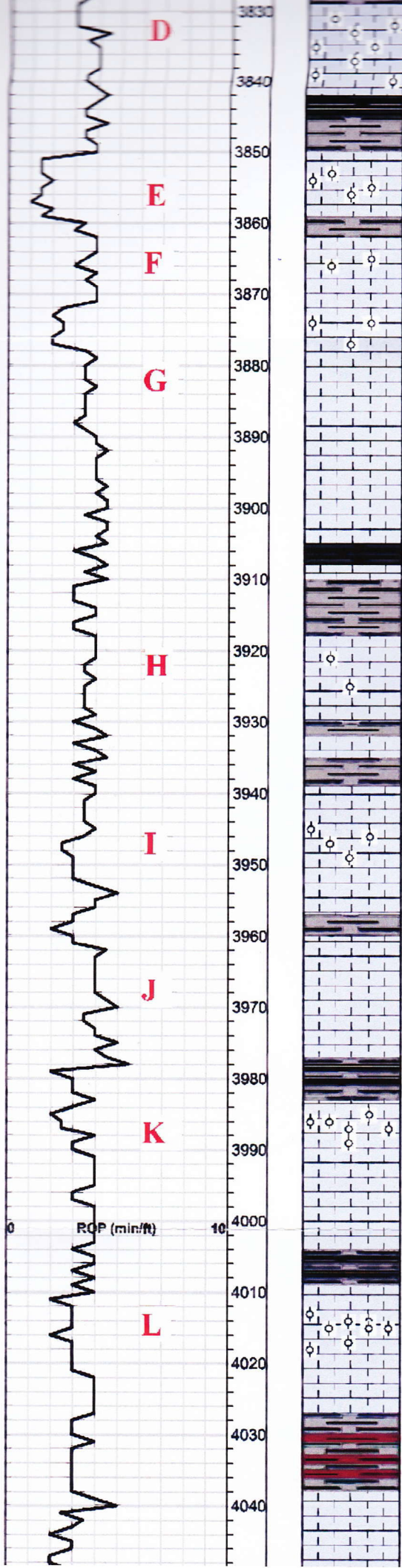
A

B

C

D





Ls - Offwh-tan, fn xln, ool pkst in part w/ poor scat oom & interxln por, barren

Sh - Blk, carb

Sh - Gry

Ls - Tan-offwh, fn xln, ool w/ scat fair ooc & interxln por, few rxn w/ lt scat oil st, nsfo, no odor, no fluor

Ls - Tan, fn-subxln, ool in part, dns

Ls - Offwh-tan, fn xln, ool w/ fair ooc por, barren, heavy wht-lt gry chert.

Ls - ala, dns

Ls - ala

Sh - Blk, carb

Sh - Gry-brn

Ls - Tan, fn-subxln, sl ool, dns

Sh - Gry

Ls - Tan, fn-subxln, ool in part w/ poor scat ooc por, barren

Ls - Tan, fn xln w/ scat poor pinpoint interxln por, few rxn w/ lt-fair spot oil st, nsfo, no odor,

Ls - ala, dns

Sh - Gry-drk gry

Ls - Tan-offwh, fn xln, ool pkst in part w/ fair oom por, barren, very chalky

Ls - Tan, fn-subxln, dns, chalky

Sh - Gry-drk gry

Ls - Tan, fn xln, ool pkst w/ fair oom por, barren, sl chalky

BKC 4027' -1675

Sh - Gry-brn

Ls - Tan-gry, mottled w/ gry sh, fn xln, dns

Ls - Tan, fn xln, ool pkst w/ fair oom por, barren, si
chalky

BKC 4027' -1675

Sh - Gry-brn

Ls - Tan-gry, mottled w/ gry sh, fn xln, dns

Sh - Brn-gry

Ls - Tan-lt gry, subxln

Sh - Gry-brn

Ls - Lt gry-tan, subxln, dns

Sh - Brn-gry-grn

Ls - Lt gry-tan, subxln, dns, heavy orange chert-sharp

Sh - Brn-gry-grn

Pawnee 4126' -1774

Ls - Tan-gry, subxln, dns

Ls - ala

Ls - Gry, subxln, dns

Ls - ala, sl mottled w/ drk gry sh

Sh - Blk, carb

Sh - Gry-brn

Fort Scott 4203' -1851

Ls - Offwh-lt gry, subxln, dns

Sh - Gry-brn-grn

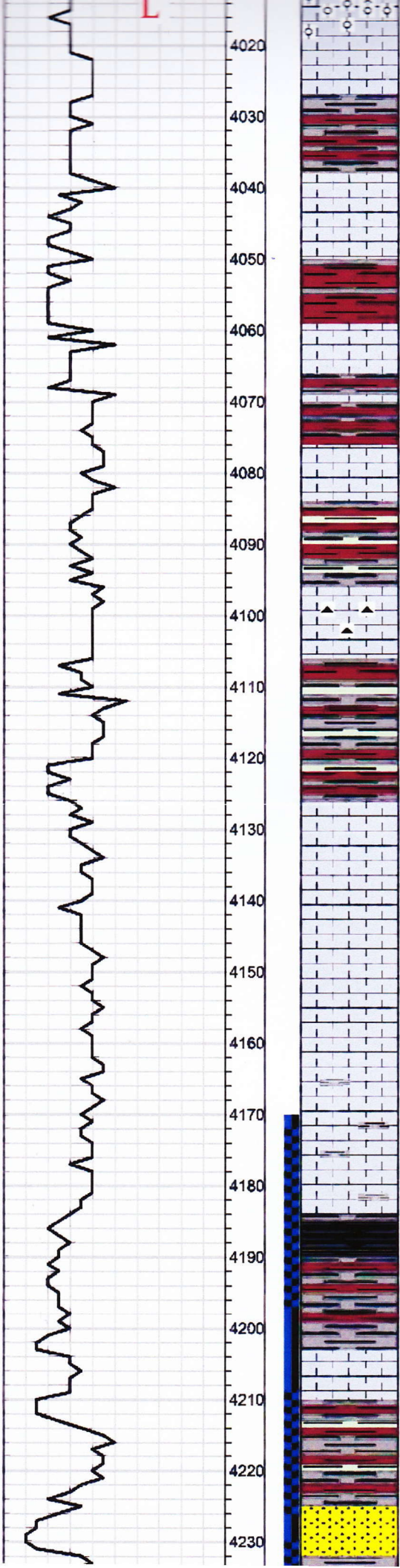
Cherokee Sand 4225' -1873

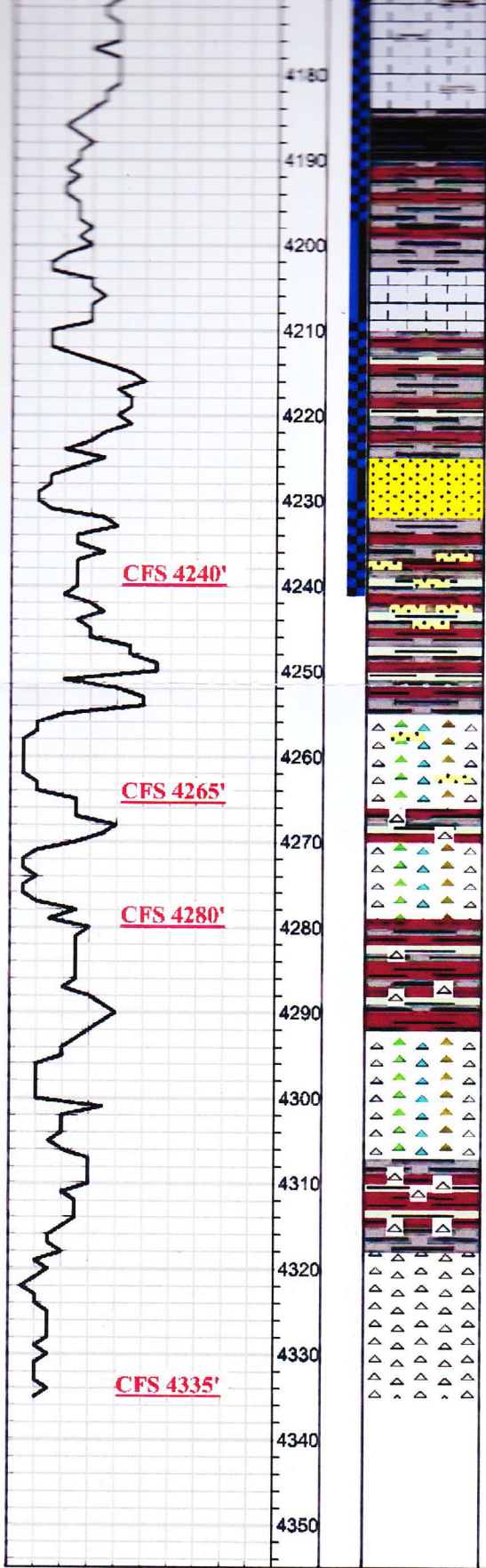
● Ss - Qtz, sl frosted, fn-med gr, sub-rounded/angular,
fair cement in part, fair-well sort w/ poor-scat good
inter-granular lt fair oil st. fms por w/ lt spot cut. sl afo

Mud Check by Mudco
Vis. 56
Wt. 9.1
Fil. 5.8
pH 11.0
Chl 2.5k

DST #1
Cherokee Sand
4170' - 4240'
30-30-30-30

IH 2044#
IF 23-25#
Built to 1/8 in
ISI 124#
Dead
FF 26-33#
Dead
FSI 99#
Dead
FH 2036#
BHT 118 deg F





Ls - ala, sl mottled w/ drk gry sh

Sh - Blk, carb

Sh - Gry-brn

Fort Scott 4203' -1851

Ls - Offwh-lt gry, subxln, dns

Sh - Gry-brn-grn

Cherokee Sand 4225' -1873

○ Ss - Qtz, sl frosted, fn-med gr, sub-rounded/angular, fair cement in part, fair-well sort w/ poor-scat good inter-gr por, lt-fair oil st, few pcs w/ lt spot sat, sl sfo on break, v friable in part, much grn sh inclusion, lt yel fluor, v sl odor

Sh - Brn-gry-grn, few dns Ss clusters

Conglomerate 4255' -1903

Chert - Multicolored, mostly fresh, weathered in part, unconsolidated, much red-brn clay, few pcs dns Ss clusters, totally barren, no odor

Chert - ala

Sh - Brn-gry-grn, much multicolored chert

Chert - Multicolored, mostly fresh, sl weathered in part, mostly unconsolidated, ool in part, much red clay, totally barren, no odor

Sh - Gry-brn-grn, much multicolored chert, few pcs dns Ss clusters, totally barren

Mississippian 4318' -1966

Chert - Wht-yel, mostly fresh, few pcs sl weathered w/ poor pinpoint por, chalky in part, totally barren

RTD 4335' -1983

DST #1
Cherokee Sand
4170' - 4240'
30-30-30-30

IH	2044#
IF	23-25#
	Built to 1/8 in
ISI	124#
	Dead
FF	26-33#
	Dead
FSI	99#
	Dead
FH	2036#
BHT	118 deg F
Recovery:	10' Mud

Mud Check by Mudco
Vis 53
Wt 9.3
Fil 6.0
pH 11.0
Chl 2.2k

Respectfully,
Jason T Alm
AAPG #10134582