

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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	M G Oil Inc
Well Name	LAWRENCE UNIT 15-2
Doc ID	1603662

All Electric Logs Run

CDN
DIL
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	M G Oil Inc
Well Name	LAWRENCE UNIT 15-2
Doc ID	1603662

Tops

Name	Top	Datum
Stone Coral	1995	589
Topeka	3479	-895
Heebner	3764	-1180
Lansing	3800	-1216
BKC	4118	-1534
Pawnee	4267	-1677
Ft Scott	4300	-1716
Mississippian	4408	-1824

FRANKS Oilfield Service, LLC

Invoice

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Date	Invoice #
10/17/2021	0426

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
MG Oil, Inc. PO Box 162 Russell, KS 67665

County/State	Lease/Well#	Terms	Job Type
Lane	Lawrence Unit 15-2	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	55	6.50	357.50
11.38 tons at 55 miles	625.9	1.50	938.85
Class A 3% Calcium 2% Gel 1/4# Flo	230	24.50	5,635.00T
Discount		-2,020.34	-2,020.34



PAID
CK #18599
11/8/21
\$33,346.20

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$6,061.01
<i>We appreciate your business and look forward to serving you again!</i>	Sales Tax (7.0%)	\$295.84
	Balance Due	\$6,356.85

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0426
 LOCATION Hoxie KS
 FOREMAN Fernis Goodwin

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-17-21	31385	Lawrence unit 15-2	15	16 S	24 W	R. Lane
CUSTOMER MG Oil Inc.						
MAILING ADDRESS PO Box 162						
CITY Russell		STATE KS	ZIP CODE 67665			

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Fernis G		
103	TOMW		

JOB TYPE 4546 cement HOLE SIZE 12 1/4 HOLE DEPTH _____ CASING SIZE & WEIGHT 45/4 238
 CASING DEPTH 253.27 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.46 SLURRY VOL 1.41 WATER gal/sk 6.85 CEMENT LEFT in CASING 1.27 bbls / 20'
 DISPLACEMENT 15.5 DISPLACEMENT PSI 150 MIX PSI 150 RATE 4 BPM

REMARKS: SAFETY meeting, Rig up equipment on Lawrence unit #15-2
Rig land casing Break circulation
Hook cementing equipment to casing Pump 5 bbl 1120 spaces
mix 2303 CLASS A 3%cc 2% Gel 1/4 Flow @ 14.4 gpl
Displace with 15.5 bbls Fresh water leaving 20' slot
Rig down / Leave location
Circulated 20' to Pit
Thank you for your business from Fernis & Tom See you in the next one

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE	\$1156.00	\$1150.00
M001	55	MILEAGE	\$6.50	\$357.50
M002	11.38	Ton Mileage delivery charge	\$938.85	\$938.85
CB004	230	CLASS A 3%cc 2% Gel 1/4 Flow	\$24.50	\$5635.00
			sub total	\$8081.35
			less 25% disc.	\$2020.34
			sub total	\$6061.01
			SALES TAX	295.84
			ESTIMATED TOTAL	6356.85

AUTHORIZATION Deion Vasquez TITLE Deion Vasquez DATE 10-17-2021
 I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

FRANKS Oilfield Service, LLC

Invoice

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Date	Invoice #
10/26/2021	0434

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
MG Oil, Inc. PO Box 162 Russell, KS 67665

County/State	Lease/Well#	Terms	Job Type
Lane County, KS	Lawrence Unti 15-2	Net 30	Long String

Description	Quantity	Rate	Amount
Pump Charge	1	1,850.00	1,850.00
Mileage	48	6.50	312.00
28.93 tons at 48 miles	1,388.64	1.50	2,082.96
Thixo blend OWC	250	28.55	7,137.50T
60/40 8% gel 1/4 # flo	330	17.35	5,725.50T
5-1/2" Basket	3	385.00	1,155.00T
5 1/2 Stop Ring	3	35.00	105.00T
5-1/2" Centralizers	11	108.00	1,188.00T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" DV Stage Tool	1	4,200.00	4,200.00T
KCL	2	30.00	60.00T
Mud Flush	500	1.00	500.00T
Discount		-6,402.74	-6,402.74



Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

Subtotal \$19,208.22

We appreciate your business and look forward to serving you again!

Sales Tax (8.5%) \$1,362.08

Balance Due \$20,570.30

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0434
 LOCATION Hoxie
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-26-21	31385	Lawrence Unit 15-2	15	16 S	28 W	Lane
CUSTOMER <u>M.G. Oil Inc</u>						
MAILING ADDRESS <u>PO Box 162</u>						
CITY <u>Russell</u>		STATE <u>KS</u>	ZIP CODE <u>67665</u>			
TRUCK #		DRIVER		TRUCK #		DRIVER
<u>101</u>		<u>Tom W</u>				
<u>#2/103</u>		<u>Jack T</u>				
		<u>Preston D</u>				

JOB TYPE Long String HOLE SIZE 7 7/8" HOLE DEPTH 4510 CASING SIZE & WEIGHT 5 1/2" 15.0 #
 CASING DEPTH 4500' DRILL PIPE 4 TUBING _____ OTHER _____
 SLURRY WEIGHT 14.9/12.9 SLURRY VOL 1.5/2.54 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on Duke #2. Circulate mud down to 30 viscos. Pump 500 Bbl mud flush followed by 20 Bbl KCL water. Mix 250 sx OWC + flush with 118 Bbl water + mud. Set plug. Drop dart + open top ports. Circulate mud 3 hrs. Mix 330sx 60/40 + pump. Flush with 465 Bbl. Break off head. Rack up + move off plug down 9:45

Thanks Tom + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC003	1	PUMP CHARGE	\$1850 ⁰⁰	\$1850 ⁰⁰
M001	48	MILEAGE	\$6.50	\$312 ⁰⁰
M002	28.93 tons	Ton Mileage delivery	\$2082 ⁹⁶	\$2082 ⁹⁶
LB030	250 sx	Class A 6% polymer / 10% gel / 2% gel 500 gal 28.55	\$28.55	\$7137 ⁵⁰
LB021	330 sx	60/40 8% gel 1/4" #10 seal	\$17.35	\$5725 ⁵⁰
FE022	3	5 1/2" basket	\$385 ⁰⁰	\$1155 ⁰⁰
FE102	3	5 1/2" stop ring	\$35 ⁰⁰	\$105 ⁰⁰
FE013	11	5 1/2" centralizer + stabilizer	\$108 ⁰⁰	\$1188 ⁰⁰
FE0033	1	5 1/2" Auto Fill Guide shoe	\$600 ⁰⁰	\$600 ⁰⁰
FE051	1	5 1/2" latch down plug + assembly	\$695 ⁰⁰	\$695 ⁰⁰
FE099	1	5 1/2" DV tool weather Ford	\$4200 ⁰⁰	\$4200 ⁰⁰
CP014	2 gal	KCL	\$30 ⁰⁰	\$60 ⁰⁰
CP013	500 gal	mud flush DV 1100	\$1.00	\$500 ⁰⁰
			sub total	\$25,110 ⁹⁶
			less 25% disc.	\$6,402 ⁷⁴
			sub total	\$19,208 ²²
			SALES TAX	1362.08
			ESTIMATED TOTAL	20,570.30

AUTHORIZATION Dion Vargay TITLE Toolpusher DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **MG Oil Inc**

PO Box 162
Russell, KS 67665

ATTN: Chad Counts

Lawrence Unit #15-2

15-16s-28w Lane,KS

Start Date: 2021.10.22 @ 14:15:24

End Date: 2021.10.22 @ 20:29:54

Job Ticket #: 67676 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.10.26 @ 10:27:46

MG Oil Inc
15-16s-28w Lane,KS
Lawrence Unit #15-2
DST # 1
LKC H - J
2021.10.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

MG Oil Inc
 PO Box 162
 Russell, KS 67665
 ATTN: Chad Counts

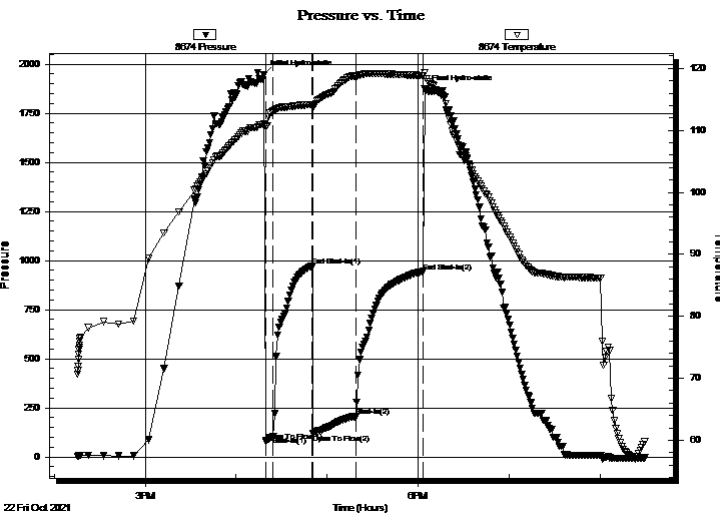
15-16s-28w Lane, KS
Lawrence Unit #15-2
 Job Ticket: 67676 **DST#: 1**
 Test Start: 2021.10.22 @ 14:15:24

GENERAL INFORMATION:

Formation: **LKC H - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:19:54
 Time Test Ended: 20:29:54
 Interval: **3952.00 ft (KB) To 4042.00 ft (KB) (TVD)**
 Total Depth: 4042.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2590.00 ft (KB)
 2583.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 205.19 psig @ 3953.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.22 End Date: 2021.10.22 Last Calib.: 2021.10.22
 Start Time: 14:15:29 End Time: 20:29:53 Time On Btm: 2021.10.22 @ 16:18:24
 Time Off Btm: 2021.10.22 @ 18:04:24

TEST COMMENT: IF: BOB in 3 1/2 mins. 17"
 IS: No return.
 FF: BOB in 3 mins. 70"
 FS: Surface blow built to 4 1/2". 5-25-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.98	111.00	Initial Hydro-static
2	80.92	110.70	Open To Flow (1)
6	106.11	113.18	Shut-In(1)
32	972.40	114.19	End Shut-In(1)
33	117.66	113.93	Open To Flow (2)
61	205.19	118.70	Shut-In(2)
105	943.79	118.86	End Shut-In(2)
106	1872.93	119.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 20%g 20%o 60%m	0.88
189.00	mcgo 40%g 40%o 20%m	2.65
189.00	gocm 20%g 30%o 50%m	2.65
0.00	693 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane,KS
Lawrence Unit #15-2
Job Ticket: 67676 **DST#: 1**
Test Start: 2021.10.22 @ 14:15:24

Tool Information

Drill Pipe:	Length: 3945.00 ft	Diameter: 3.80 inches	Volume: 55.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3952.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			3923.00	
Shut In Tool	5.00			3928.00	
Hydraulic tool	5.00			3933.00	
Jars	5.00			3938.00	
EM Tool	3.00			3941.00	
Safety Joint	2.00			3943.00	
Packer	5.00			3948.00	30.00 Bottom Of Top Packer
Packer	4.00			3952.00	
Stubb	1.00			3953.00	
Recorder	0.00	8790	Inside	3953.00	
Recorder	0.00	8674	Outside	3953.00	
Perforations	21.00			3974.00	
Change Over Sub	1.00			3975.00	
Drill Pipe	63.00			4038.00	
Change Over Sub	1.00			4039.00	
Bullnose	3.00			4042.00	90.00 Bottom Packers & Anchor
Total Tool Length:	120.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane, KS
Lawrence Unit #15-2
Job Ticket: 67676 **DST#: 1**
Test Start: 2021.10.22 @ 14:15:24

Mud and Cushion Information

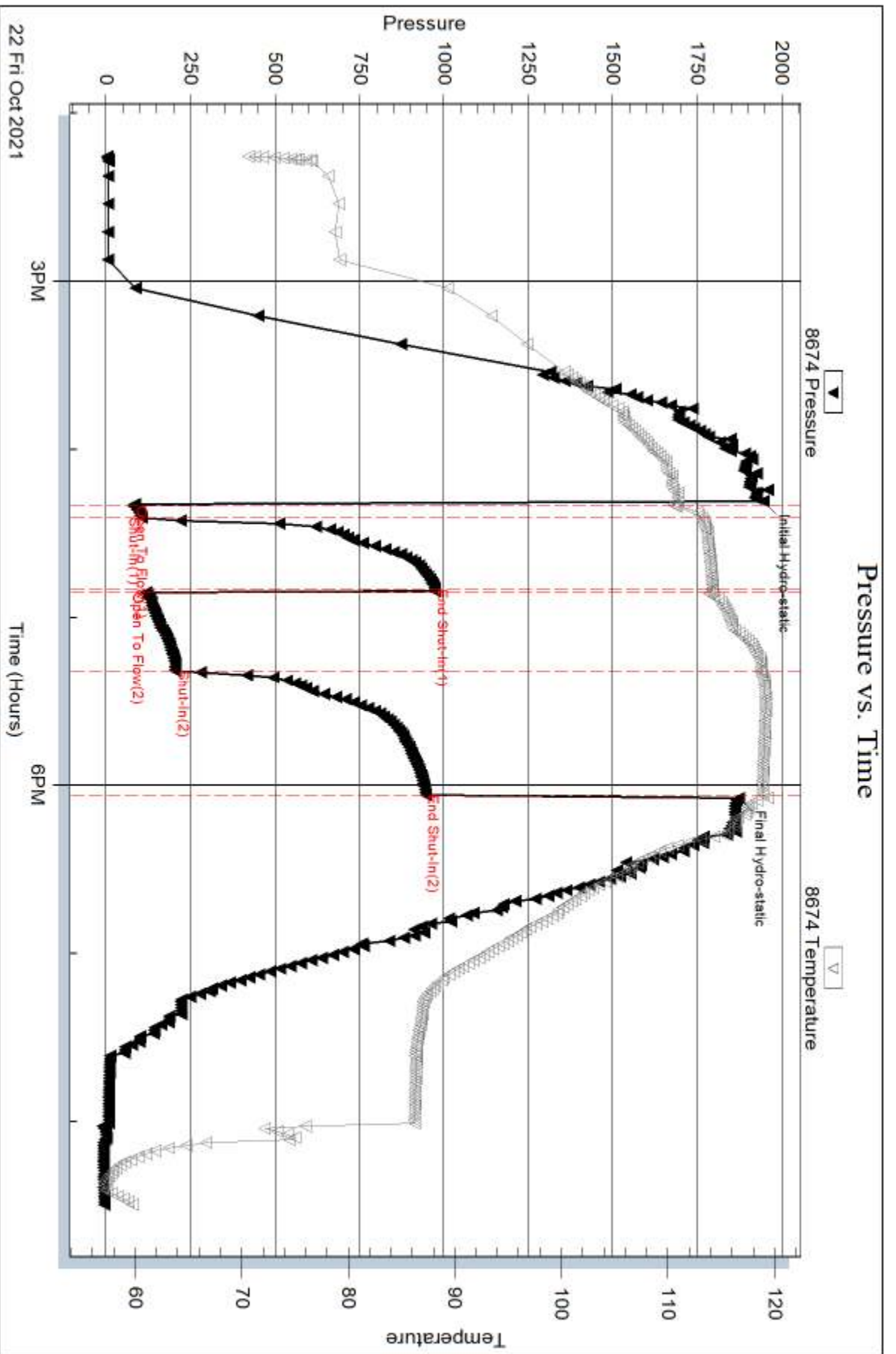
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	gocm 20%g 20%o 60%m	0.884
189.00	mcgo 40%g 40%o 20%m	2.651
189.00	gocm 20%g 30%o 50%m	2.651
0.00	693 GIP	0.000

Total Length: 441.00 ft Total Volume: 6.186 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



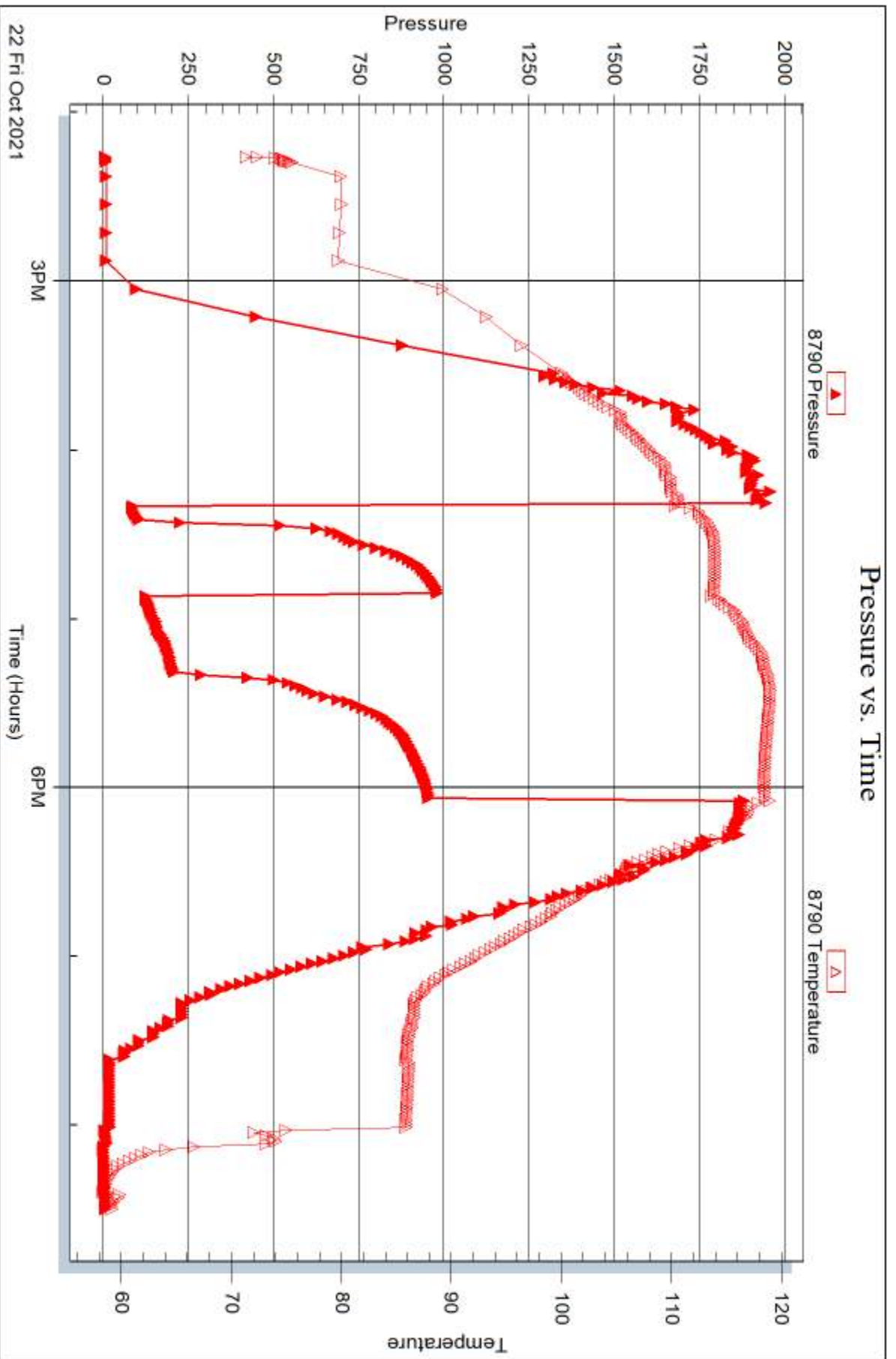
Serial #: 8790

Inside

MG Oil Inc

Lawrence Unit #15-2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67676

Printed: 2021.10.26 @ 10:27:48



DRILL STEM TEST REPORT

Prepared For: **MG Oil Inc**

PO Box 162
Russell, KS 67665

ATTN: Chad Counts

Lawrence Unit #15-2

15-16s-28w Lane,KS

Start Date: 2021.10.23 @ 04:42:34

End Date: 2021.10.23 @ 09:57:34

Job Ticket #: 67677 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.10.26 @ 10:10:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

MG Oil Inc
 PO Box 162
 Russell, KS 67665
 ATTN: Chad Counts

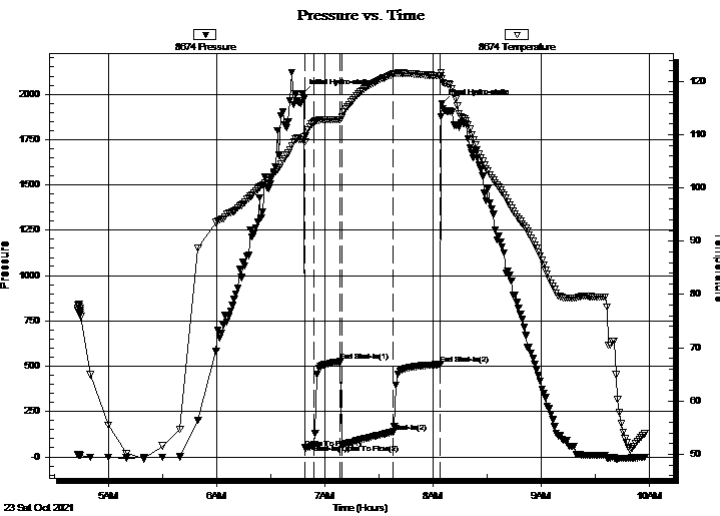
15-16s-28w Lane, KS
Lawrence Unit #15-2
 Job Ticket: 67677 **DST#: 2**
 Test Start: 2021.10.23 @ 04:42:34

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:49:04
 Time Test Ended: 09:57:34
 Interval: **4045.00 ft (KB) To 4070.00 ft (KB) (TVD)**
 Total Depth: 4070.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2590.00 ft (KB)
 2583.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 137.39 psig @ 4046.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.23 End Date: 2021.10.23 Last Calib.: 2021.10.23
 Start Time: 04:42:39 End Time: 09:57:33 Time On Btm: 2021.10.23 @ 06:47:34
 Time Off Btm: 2021.10.23 @ 08:05:04

TEST COMMENT: IF: 1/4" blow built to 7"
 IS: No return.
 FF: BOB in 6 1/2 mins. 36"
 FS: Surface blow built to 5" 5-15-30-25



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.72	109.06	Initial Hydro-static
2	48.66	108.68	Open To Flow (1)
7	67.25	112.37	Shut-In(1)
21	525.74	112.87	End Shut-In(1)
22	67.41	113.33	Open To Flow (2)
51	137.39	121.39	Shut-In(2)
77	509.65	121.06	End Shut-In(2)
78	1948.49	120.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 80%w 20%m	0.88
94.00	gocw m 10%g 5%o 25%w 60%m	1.32
94.00	mcgo 10%g 85%o 5%m	1.32
0.00	379 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane,KS
Lawrence Unit #15-2
Job Ticket: 67677 **DST#: 2**
Test Start: 2021.10.23 @ 04:42:34

Tool Information

Drill Pipe:	Length: 4037.00 ft	Diameter: 3.80 inches	Volume: 56.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4045.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4016.00	
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
EM Tool	3.00			4034.00	
Safety Joint	2.00			4036.00	
Packer	5.00			4041.00	30.00 Bottom Of Top Packer
Packer	4.00			4045.00	
Stubb	1.00			4046.00	
Recorder	0.00	8790	Inside	4046.00	
Recorder	0.00	8674	Outside	4046.00	
Perforations	21.00			4067.00	
Bullnose	3.00			4070.00	25.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane,KS
Lawrence Unit #15-2
Job Ticket: 67677 **DST#: 2**
Test Start: 2021.10.23 @ 04:42:34

Mud and Cushion Information

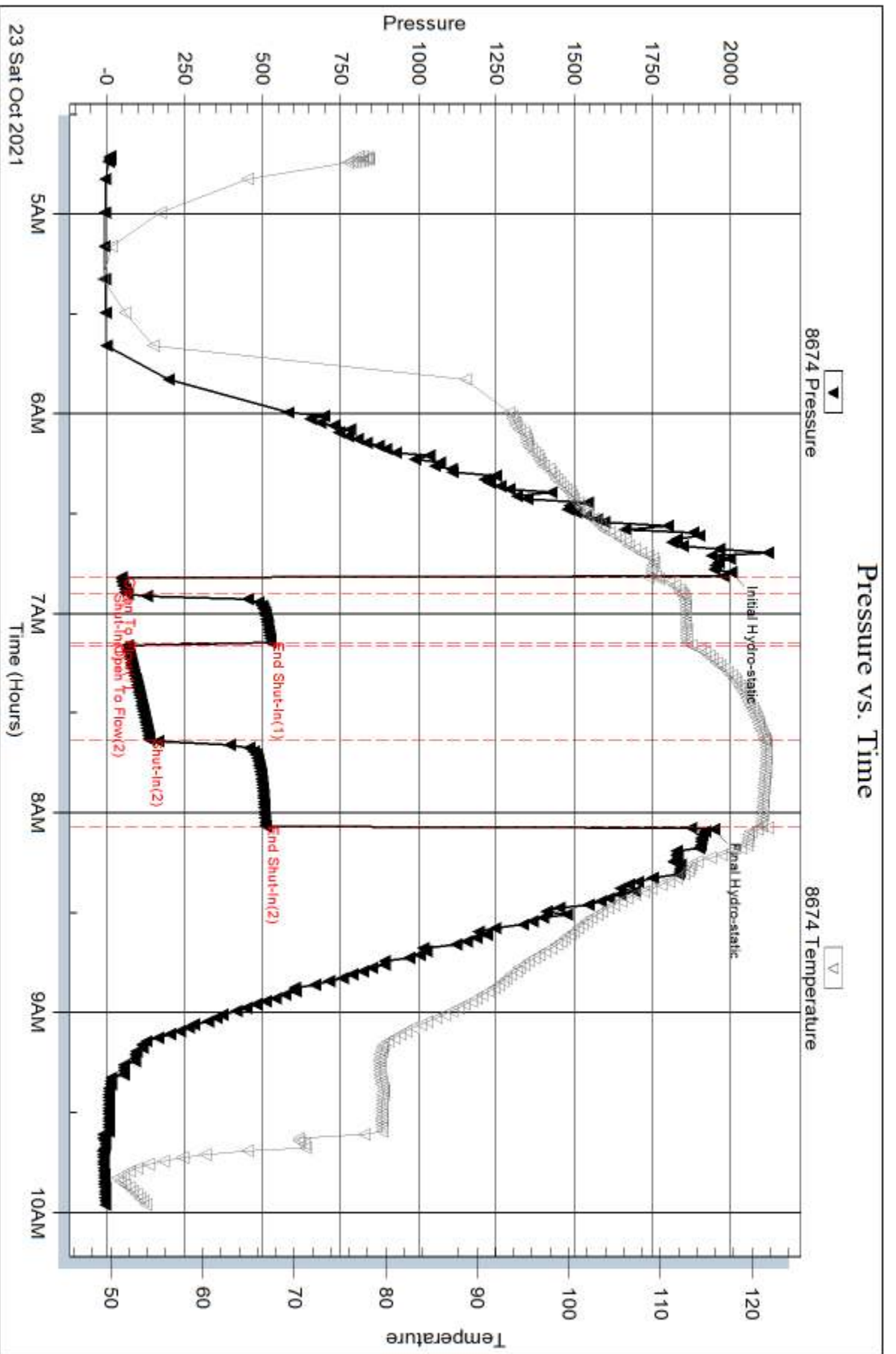
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 47000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mcw 80%w 20%m	0.884
94.00	gocw m 10%g 5%o 25%w 60%m	1.319
94.00	mcgo 10%g 85%o 5%m	1.319
0.00	379 GIP	0.000

Total Length: 251.00 ft Total Volume: 3.522 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 38@60=38
 .27@41=47000



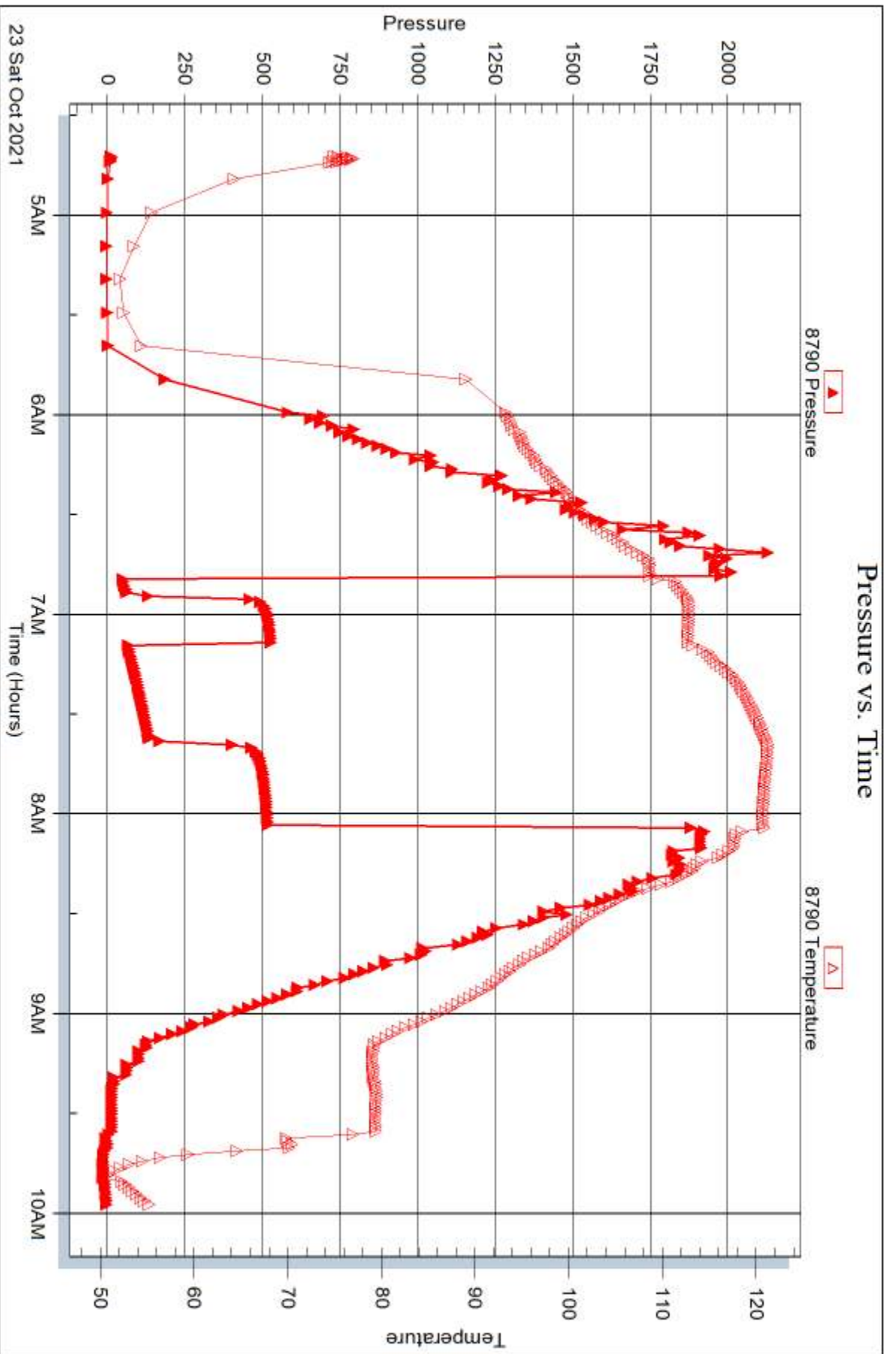
Serial #: 8790

Inside

MG Oil Inc

Lawrence Unit #15-2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **MG Oil Inc**

PO Box 162
Russell, KS 67665

ATTN: Chad Counts

Lawrence Unit #15-2

15-16s-28w Lane,KS

Start Date: 2021.10.24 @ 12:18:50

End Date: 2021.10.24 @ 17:32:50

Job Ticket #: 67678 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.10.26 @ 10:05:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

MG Oil Inc
 PO Box 162
 Russell, KS 67665
 ATTN: Chad Counts

15-16s-28w Lane, KS
Lawrence Unit #15-2
 Job Ticket: 67678 **DST#: 3**
 Test Start: 2021.10.24 @ 12:18:50

GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:23:20
 Time Test Ended: 17:32:50
 Interval: **4289.00 ft (KB) To 4328.00 ft (KB) (TVD)**
 Total Depth: 4328.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2590.00 ft (KB)
 2583.00 ft (CF)
 KB to GR/CF: 7.00 ft

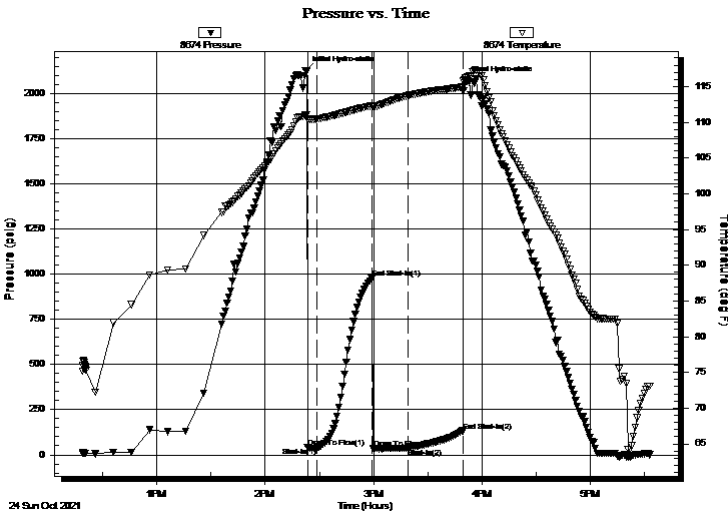
Serial #: 8674

Outside

Press@RunDepth: 37.81 psig @ 4290.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.24 End Date: 2021.10.24 Last Calib.: 2021.10.24
 Start Time: 12:18:55 End Time: 17:32:49 Time On Btm: 2021.10.24 @ 14:22:20
 Time Off Btm: 2021.10.24 @ 15:50:20

TEST COMMENT: IF: 1/4" blow built to 1/2"
 IS: No return.
 FF: 1/2" blow built to 2"
 FS: No return. 5-25-20-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.21	111.01	Initial Hydro-static
1	39.91	110.42	Open To Flow (1)
7	39.02	110.48	Shut-In(1)
37	975.78	112.32	End Shut-In(1)
38	36.09	112.19	Open To Flow (2)
57	37.81	113.74	Shut-In(2)
87	132.33	114.94	End Shut-In(2)
88	2070.94	115.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 10%o 90%m	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane,KS
Lawrence Unit #15-2
Job Ticket: 67678 **DST#: 3**
Test Start: 2021.10.24 @ 12:18:50

Tool Information

Drill Pipe:	Length: 4287.00 ft	Diameter: 3.80 inches	Volume: 60.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4289.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4260.00	
Shut In Tool	5.00			4265.00	
Hydraulic tool	5.00			4270.00	
Jars	5.00			4275.00	
EM Tool	3.00			4278.00	
Safety Joint	2.00			4280.00	
Packer	5.00			4285.00	30.00 Bottom Of Top Packer
Packer	4.00			4289.00	
Stubb	1.00			4290.00	
Recorder	0.00	8790	Inside	4290.00	
Recorder	0.00	8674	Outside	4290.00	
Perforations	2.00			4292.00	
Change Over Sub	1.00			4293.00	
Drill Pipe	31.00			4324.00	
Change Over Sub	1.00			4325.00	
Bullnose	3.00			4328.00	39.00 Bottom Packers & Anchor
Total Tool Length:	69.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc
PO Box 162
Russell, KS 67665
ATTN: Chad Counts

15-16s-28w Lane, KS
Lawrence Unit #15-2
Job Ticket: 67678 **DST#: 3**
Test Start: 2021.10.24 @ 12:18:50

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

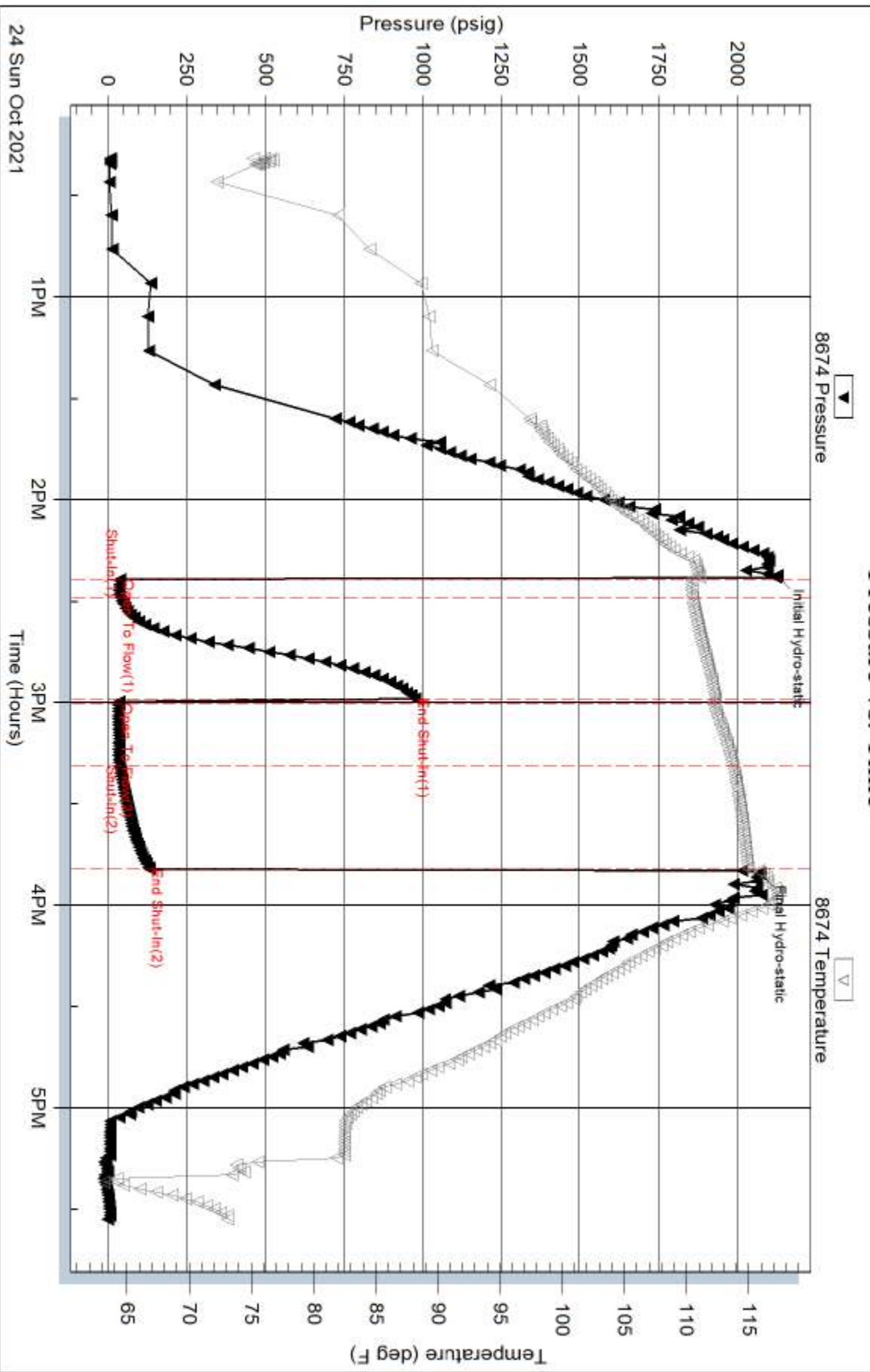
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	ocm 10%o 90%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



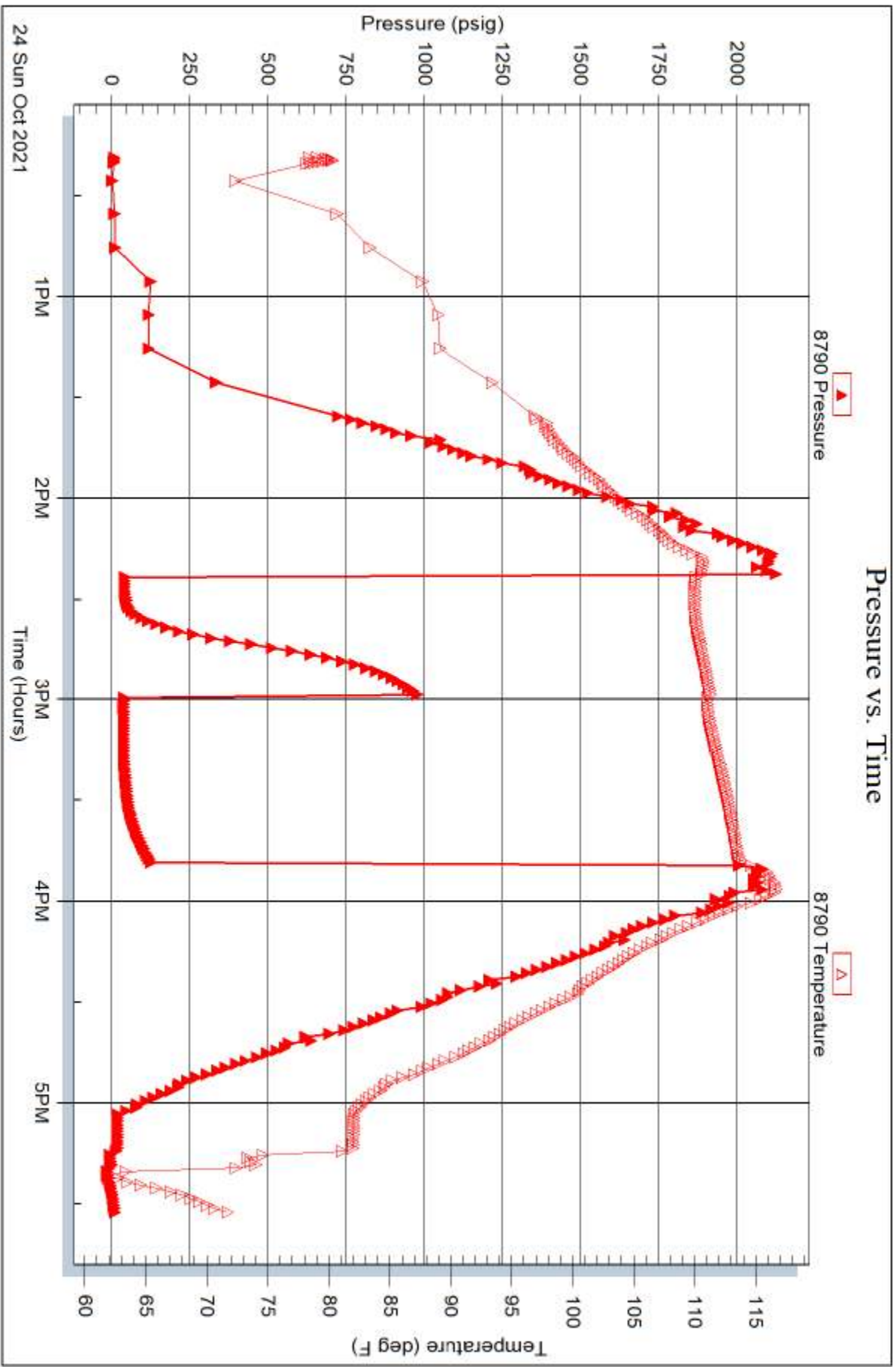
Serial #: 8790

Inside

MG Oil Inc

Lawrence Unit #15-2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67678

Printed: 2021.10.26 @ 10:05:23



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67676

Well Name & No. Lawrence unit 15-2 Test No. 1 Date 10-22-21
 Company MG Oil Inc Elevation 2590 KB 2583 GL
 Address P.O. Box 162 Russell, KS 67665
 Co. Rep / Geo. Chad Counts Rig Duke 2
 Location: Sec. 15 Twp 16 Rge. 28 Co. Lane State KS

Interval Tested 3952 4042 Zone Tested H-J
 Anchor Length 90 Drill Pipe Run 3945 Mud Wt. 9.2
 Top Packer Depth 3947 Drill Collars Run — Vis 50
 Bottom Packer Depth 3952 Wt. Pipe Run — WL 7.2
 Total Depth 4042 Chlorides 2200 ppm System LCM 3

Blow Description IF: BoB in 3 1/2 mins. 17"
IS: No return.
FF: BoB in 3 min. 70"
FS: surface blow built to 4 1/2.

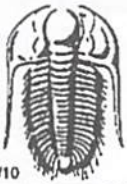
Rec	Feet of	%gas	%oil	%water	%mud
<u>189</u>	<u>90cm</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>189</u>	<u>MC90</u>	<u>40</u>	<u>40</u>	<u>20</u>	
<u>63</u>	<u>90cm</u>	<u>20</u>	<u>20</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>693 GIP</u>	%gas	%oil	%water	%mud

Rec Total 441 BHT 118 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 1944 Test 1450 T-On Location 13:15
 (B) First Initial Flow 80 Jars 250 T-Started 14:15
 (C) First Final Flow 106 Safety Joint 75 T-Open 16:19
 (D) Initial Shut-In 972 Circ Sub NIL T-Pulled 18:04
 (E) Second Initial Flow 117 Hourly Standby — T-Out 20:35
 (F) Second Final Flow 205 Mileage 92 - 115 Comments —
 (G) Final Shut-In 943 Sampler —
 (H) Final Hydrostatic 1872 Straddle — EM Tool 350

Initial Open 5 Shale Packer — Ruined Shale Packer —
 Initial Shut-In 25 Extra Packer — Ruined Packer —
 Final Flow 30 Extra Recorder — Extra Copies —
 Final Shut-In 43 Day Standby — Sub Total 350
 Sub Total 1890 Total 2240 MP/DST Disc't —

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67677

Well Name & No. Lawrence unit 15-2 Test No. 2 Date 10-23-21
 Company MG Oil Inc Elevation 2590 KB 2583 GL
 Address _____
 Co. Rep / Geo. Chrd counts Rig Duke, 2
 Location: Sec. 15 Twp 16 Rge. 28 Co. Lawe State KS

Interval Tested 4045 4070 Zone Tested K
 Anchor Length 25 Drill Pipe Run 4037 Mud Wt. 9.2
 Top Packer Depth 4040 Drill Collars Run — Vis 50
 Bottom Packer Depth 4045 Wt. Pipe Run — WL 7.2
 Total Depth 4070 Chlorides 2200 ppm System LCM 3

Blow Description IF: 1/4 blow built to 7,
IS: NO return.
FF: BoB in 6 1/2 min. 36"
FS: surface blow built to 5.

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>MC90</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>94</u>	<u>90cwm</u>	<u>10</u>	<u>5</u>	<u>25</u>	<u>60</u>
<u>63</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
	<u>379 GFP</u>				

Rec Total 251 BHT 121 Gravity 38 API RW .27 @ 41 °F Chlorides 47,000 ppm

(A) Initial Hydrostatic 2003 Test 1450 T-On Location 4:00
 (B) First Initial Flow 48 Jars 250 T-Started 4:42
 (C) First Final Flow 67 Safety Joint 75 T-Open 6:48
 (D) Initial Shut-In 525 Circ Sub NIL T-Pulled 8:03
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 10:00
 (F) Second Final Flow 137 Mileage 92 - 115 Comments _____
 (G) Final Shut-In 509 Sampler _____
 (H) Final Hydrostatic 1948 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2240
 Sub Total 1890 MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 25

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67678

Well Name & No. Lawrence unit 15-2 Test No. 3 Date 10-24-21
 Company MG oil Inc Elevation 2890 KB 2583 GL
 Address _____
 Co. Rep / Geo. chad counts Rig Duke 2
 Location: Sec. 15 Twp 16 Rge. 28 Co. Lame State KS

Interval Tested 4289 4328 Zone Tested Lawrence Ft Scott
 Anchor Length _____ 39 Drill Pipe Run 4287 Mud Wt. 9.1
 Top Packer Depth _____ 4284 Drill Collars Run _____ Vis 53
 Bottom Packer Depth _____ 4289 Wt. Pipe Run _____ WL 7.2
 Total Depth _____ 4328 Chlorides 2400 ppm System LCM 2
 Blow Description IFI 1/4 blow built to 1/2.
FS: No return
FF: 1/2 blow built to 2.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 10 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2127</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>9:20</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:18</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:22</u>
(D) Initial Shut-In <u>975</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>15:44</u>
(E) Second Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2-</u>	T-Out <u>17:33</u>
(F) Second Final Flow <u>37</u>	<input checked="" type="checkbox"/> Mileage <u>92-X2</u> 115+115	Comments <u>Short trip</u>
(G) Final Shut-In <u>132</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2070</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2355</u>
	Sub Total <u>2005</u>	MR/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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

Well Name: Lawrence Unit 15-2
Well Id: 15-101-22659
Location: SE SE SE NW Sec 15 T16S R28W
License Number: 31385
Spud Date: 10/16/2021
Surface Coordinates:
Region:
Drilling Completed: 10/25/2021
Bottom Hole
Coordinates:
Ground Elevation (ft): 2576
Logged Interval (ft): 3500 To: 4510
Formation: LKC-Mississippian
Type of Drilling Fluid: Chemical based mud
K.B. Elevation (ft): 2584
Total Depth (ft): 4510

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MG Oil Inc.
Address: 1256 W Hwy 40
Russell, Ks 67665

GEOLOGIST

Name: Chad Counts
Company: MG Oil Inc.
Address: P.O. Box 162
Russell, Ks 67665

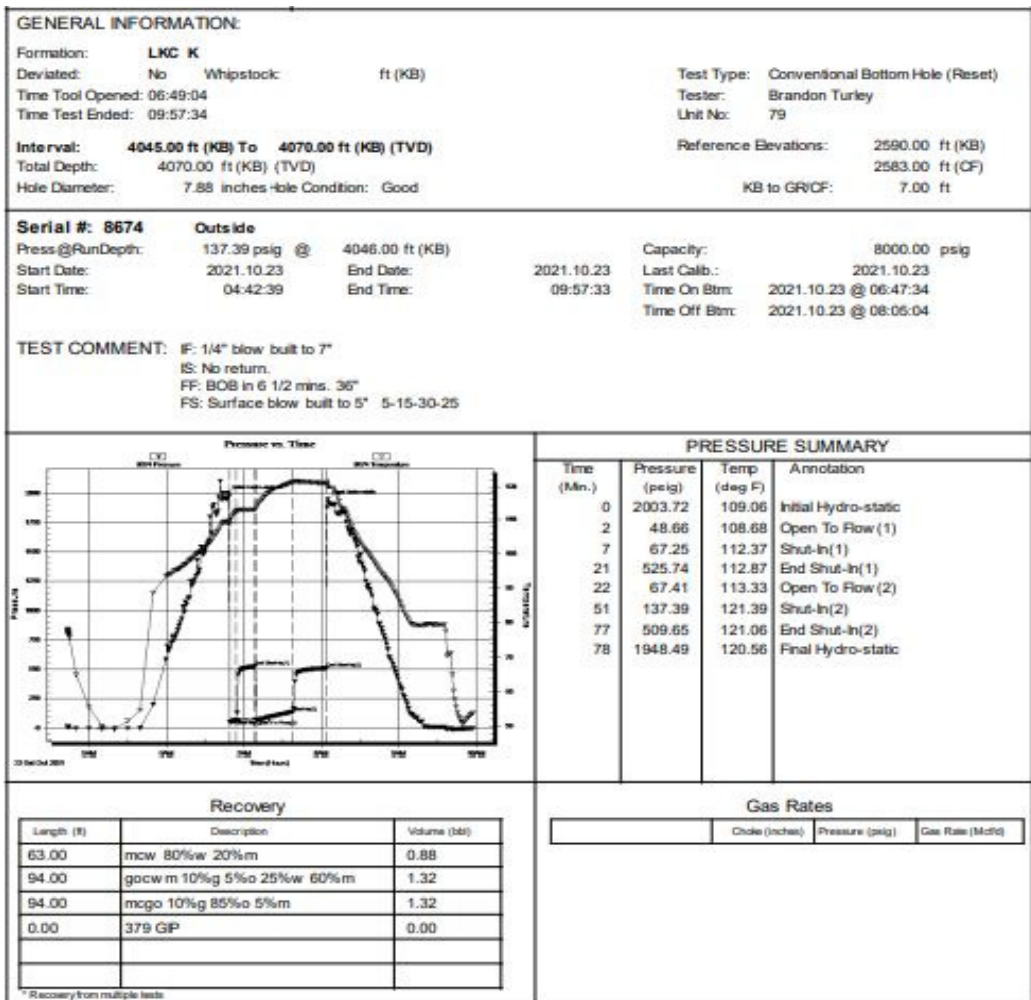
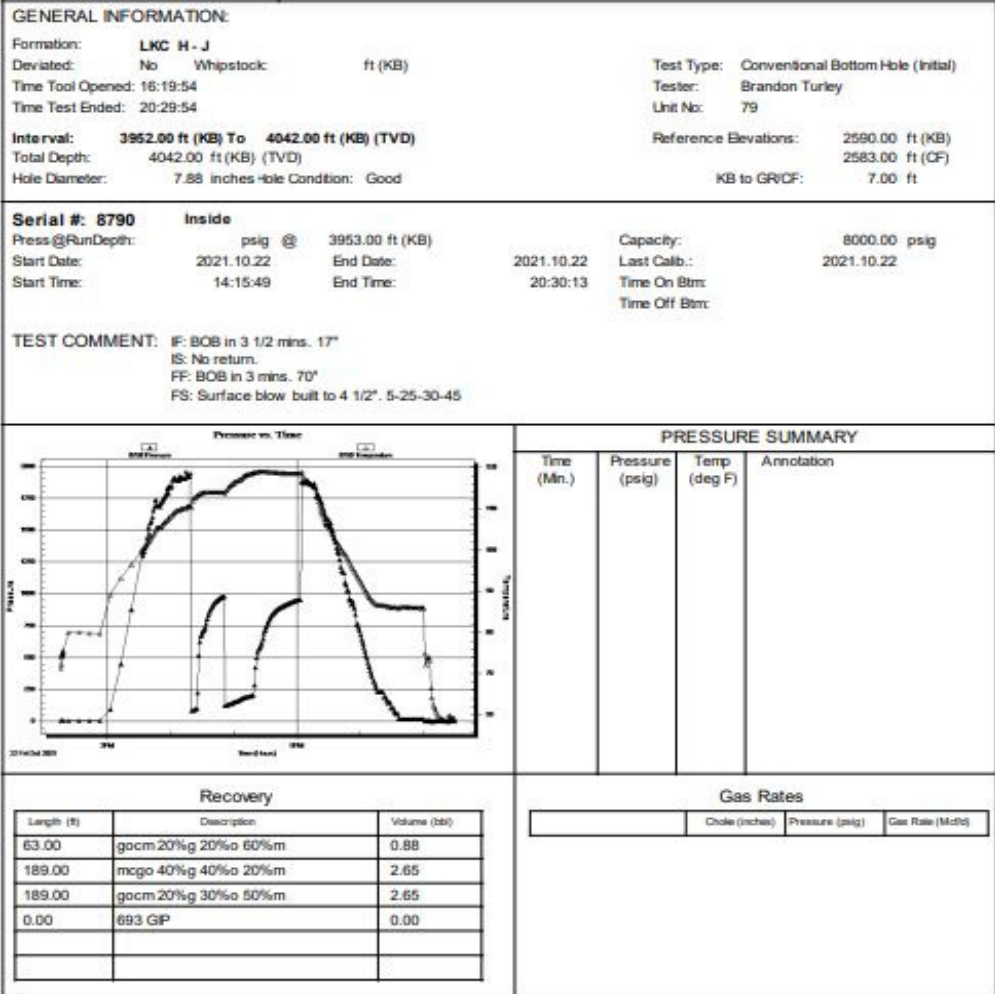
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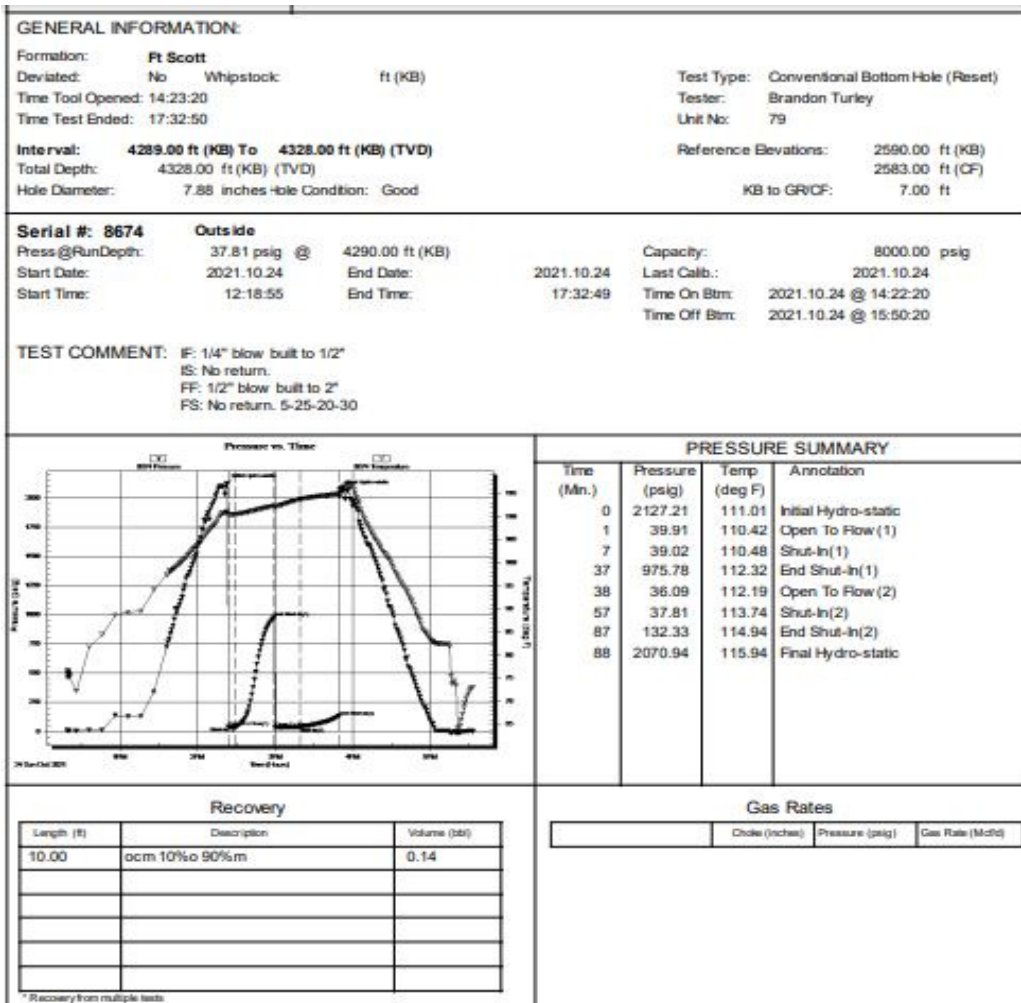
The Lawrence Unit 15-2 was drilled with Duke Drilling tools beginning 10-16-2021 and completed 10-25-2021.

Structurally, this well ran similar to seismic prognosis. Owing to positive structural position, sample shows, and recovery from DST 1 and 2, it was agreed by all parties to further test the well through 5 1/2" casing.

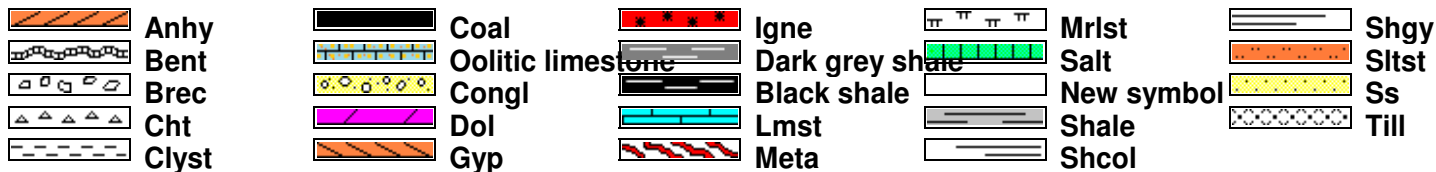
Respectfully,

Chad Counts

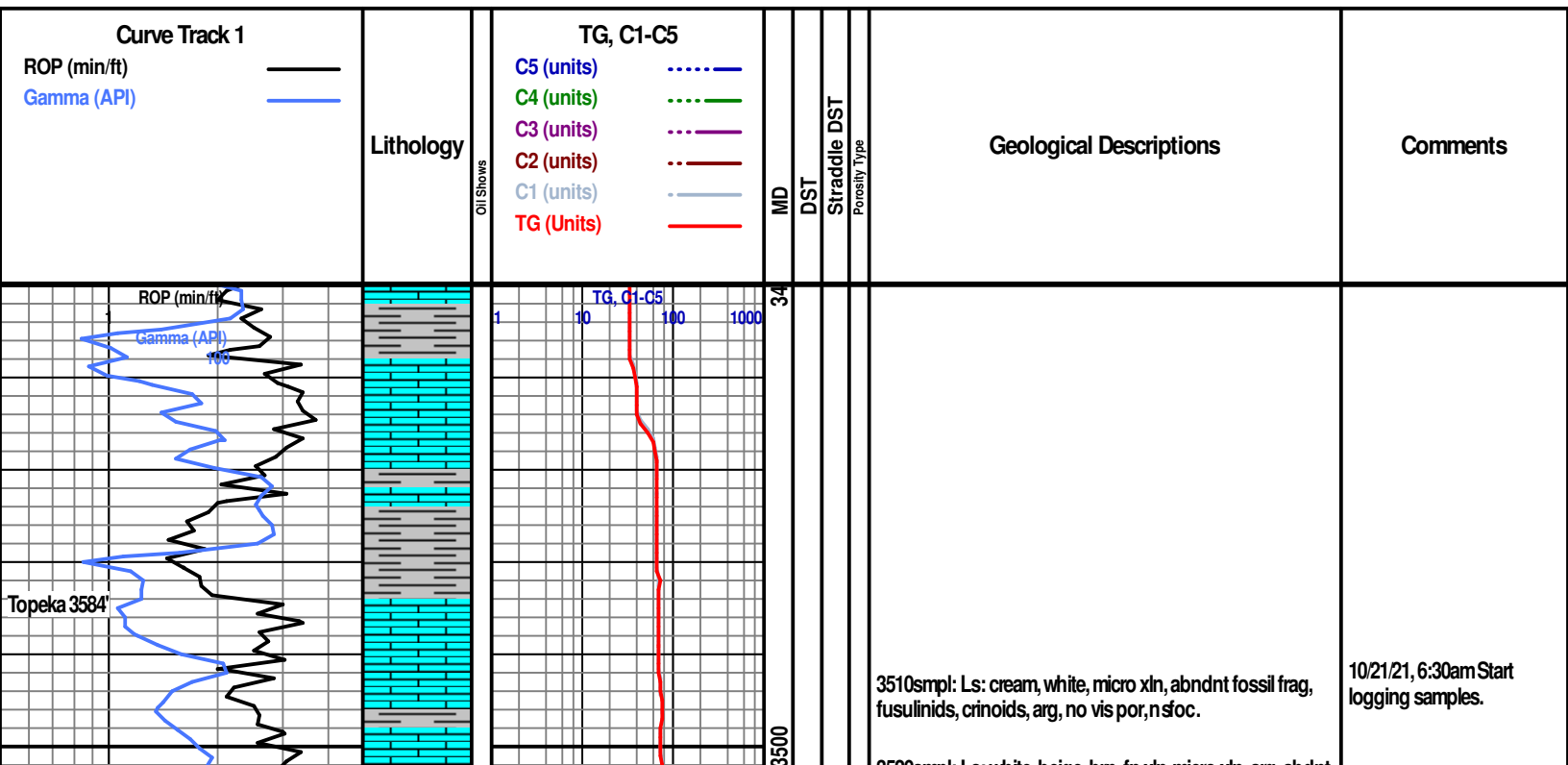
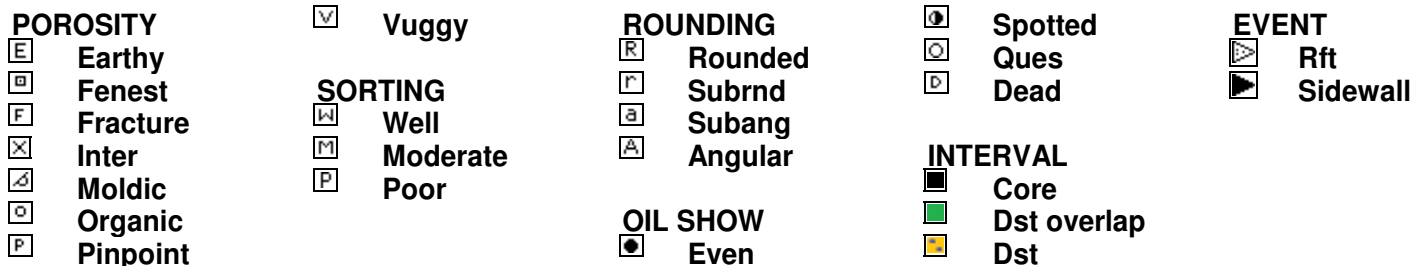


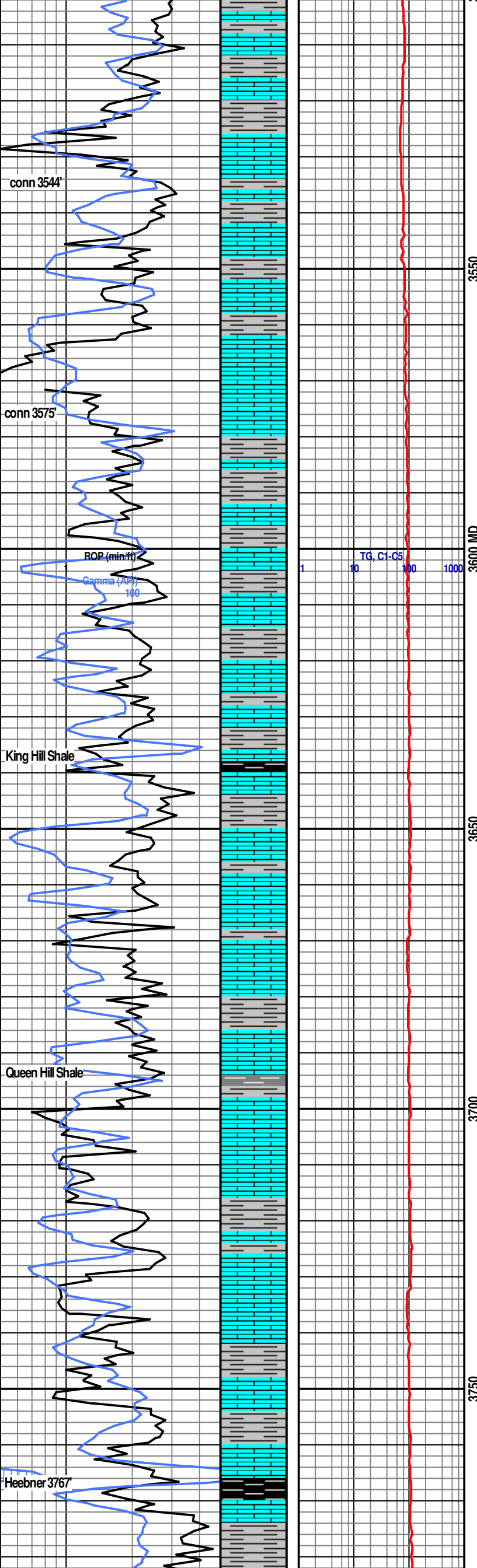


ROCK TYPES



OTHER SYMBOLS





3520smp: Ls: white, beige, brn, fn xln-micro xln, arg, abndt fossil frag, earthy tex, no vis por, nsfo c. Abndt dark grey platy sh, mod calc.

3530 smp: Grey-md grey shale, sub platy, mod firm, calc, few inclusions, occ. mottled. Ls: A/A

3540 smp: grey shale: sub platy, sl calc, mod firm, sl gritty-smooth.

3550 smp: Ls, cream-buff, micro xln-occ sparry fn xln, rare pp por, mod mar, r fossil frag, NSFOC. abndt sh aa.

3560 smp: Sh light grey, mod firm-soft, sub platy-non platy, sl. calc, sl mottled w/org matter. Ls: cream, white, dense, micr xln.

3570 smp: Ls: cream, buff, occ. fossil frag, most micro xln, occ. pp vuggy por, sl mar, NSFOC.

3580 smp: Ls, cream, beige, micro xln-vf xln, v poor inxl por, occ. vuggy por, occ. fossil frag, fusulinids, NSFOC/

3590smp: Ls: cream, beige, white, micro xln, mod arg, poor inxl por, NSF OC. Grey sh, sub platy, firm, sl calc.

3600 smp: Ls, cream, buff, grey, micro xln, no vis por, hvy arg, several inclusions, sl. foss, NSFOC.

3610 smp Ls: cream, beige, micro xln-vf sparry xln, mod-hvy marl, occ. pp vug, poor vis por, rrfossil frag, NSFOC.

3620 smp: Ls, cream, buff, micro xln, lithographic tex, occ fossil fragment, no vis por, NSFOC.

3630 smp: Ls, cream, buff, micro xln-vf xln, mod-hvy marl cont, abndt fusulinids, poor inxl por, NSF OC.

3640smp: Ls: cream-buff, lith tex, vfxln-micor xln, mod marl, poor-no vis por, NSFOC.

3650smp: Ls: grey-cream, vfn xln, arg, hvy mottled org material, abndt incl and fossil clast, no vis por, NSFOC. Trc black shale, platy firm, carb.

3660 smp: Ls, cream, grey, spk brown, micro xln, mod arg, abdn mott org, poor-no vis por, NSF OC. Trc black shale a/a.

3670smp: Ls: brown-grey, micro xln, occ. brown chert, poor-no vis por, occ. mottled org material, brittle, NSFOC.

3680 smp: Ls, grey, beige, micro xln, occ. foss frag, no vis por, NSFOC.

3690 sample: Ls cream, white, lt brown, micro xln, mod marl, occ pp vug, poor inxl por, NSFOC.

3700 smp: Ls: lt grey, beige, fn xln, occ. pp vuggy por, abndt plant matter, poor inxl por, brittle, fair marl cont.

3710 smp: Med grey sh, sub platy-non platy, mod firm, calc, hvy org mat. Ls, grey cream, micro xln-vf xln, occ. fusulinids, fair org mat, occ. pp por, NSFOC.

3720 smp: Ls: cream, white, micro xln-fn xln, fair marl, poor vis inxl por, brittle, occ. opaque chert, NSF OC.

3730 smp: Ls, cream, lt brown, fn xln-micro xln, brittle, abndt marl, poor vis inxl por, NSFOC.

3740 smp: Ls. white, grey, cream, micr xln, occ. brittle, hvy marl content, poor-no vis por, NSF OC.

3750 smp: Ls, grey-brown, micro xln, poor vis inxl por, brittle, mod arg, sl-mod marl, NSFOC.

3760 smp: Ls, cream, grey, micro xln, hvy marl cont, very brittle, poor-no vis por, NSF OC.

3770 smp: Ls: brown, fn-micro xln, hvy mottled carb material, abndt fossil frag, several small intraclasts, brittle, arg, NSFOC, no odor.

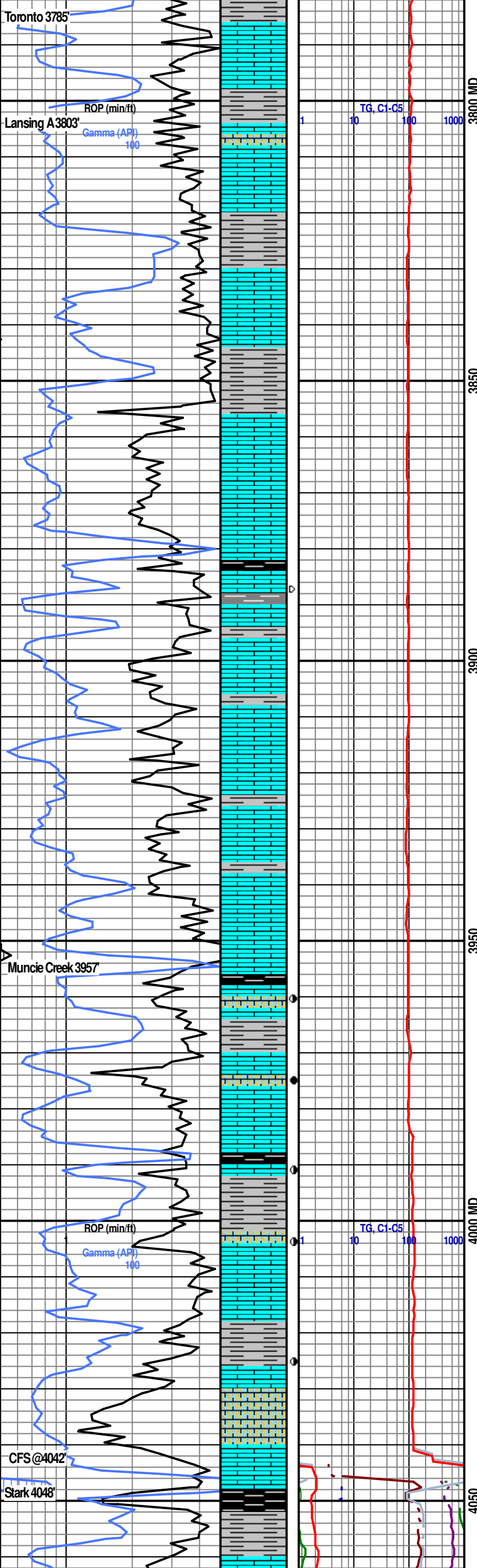
3780 smp: Flood black shale, mod carb, very platy, sl calc, firm. Ls: cream, brown, hvy mottled, abndt fossil fragm, arg, brittle, no vis por, nsfo c.

3790 smp: sh, dove grey, very soft, mushy, smooth, non calc. Ls, tan, cream, vfxln-micro xln, no vis por, trc hvy blk gils stain/org matter, no free oil or odor.

Mud co check:
 MW 8.6
 VIS 64
 Chloride: 2000ppm
 3# LCM
 Solids:2%
 pH:11.5

MW 9.0
 VIS 54
 2# LCM

MW 9.1
 VIS 50
 2# LCM



3800 smpl: Ls, cream-off white, micro xln, occ fossil fragments, no vis por, very dense, glassy tex, NSFOC.

3810 smpl: Ls cream, micro xln, very dense, sl marl, r pp vug, no vis inxl por, NSFOC.

3820 smpl: Lans A-ls, cream-off white, micro xln, grainstone, oolitic, no dissolution, sl. marl, no vis por, dense, NSFOC. no odor.

3830 smpl: Ls, cream, white, micro xln, very dense, no vis por, sl marl, glassy tex. NSFOC.

3840 smpl: Ls, cream, white, micro xln, sl. incr in marl, no vis por, v. dense, NSFOC.

3850 smpl: Ls: cm, white, micro xln, occ gmstone-packstone, no dissolution, no vis por, dense, NSFOC. Maroon shale, soft, non platy, smooth, non calc.

3860 smpl: Ls cream, micro xln, very dense, sl marl, no vis por, NSFOC.

3870 smpl: Ls, white-crm, micro xln, dense, no vis por, occ vif xln, brittle w/ hvy marl.

3880 smpl: Ls, cream-grey, mostly mudstone, occ. few packstone w/ large ooid clasts, poorly std, no dissolution, very hvy marl in sample, NSFOC.

3890 smpl: Ls, cream-grey, micro xln, very dense, no vis por, mod marl, NSFOC.

3900 smpl: Ls, cream, grey-brown, micro xln, few very fine xln, mod marl, very poor-no vis por, spotty dead edge staining, no show free oil or odor.

3910 smpl: Ls, cream, grey, micro xln, rfn xln, very dense, occ. brittle, sl. marl, r fossil frag, NSFOC.

3920' smpl: Ls, cream, micro xln, very dense, sl. cherty, no vis por, sl. marl, NSFOC.

3930 smpl: Ls, cream, micro xln, few oomoldic, very cherty, very poor-no vis por, NSFOC.

3940 smpl: Ls, cream, buff, micro xln, sl. inc marl, sl. cherty, no vis por, very dense, NSFOC.

3950 smpl: Ls, cream, micro xln, trc fn xln, poor-no vis por, sl. marl, r chert, NSFOC.

3960 smpl: Ls, cream, grey, micro xln, dense, no vis por. Trc grey platy shale, very firm.

3970 smpl: flood black shale, firm platy, carbonaceous. KC H1 por: brown, fine xln, poor-fair inxl & pp vuggy por, sl show free oil, few gas bubbles escaping pores, fair streaming cut, f-good odor.

3980 smpl: Ls, grey-brown, argillaceous, mottled, poor inxl por, occ r vug, few cuttings a/a, weak odor, very ssfo. Shale, grey-brown, platy.

3990 smpl: KC H2 por, cream-white, grains to ne partial dissolution, scattered to occ. consistent vuggy por, occ large pore throats, slight-fair show free oil, fair streaming cut, good odor.

4000 smpl: Ls, white-off white, micro xln, dense, occ. grainstone, oolitic, no vis dissolution, NSFOC.

4010 smpl: cherryvale ls, grey-off white, fn xln, scattered inxl por, patchy sat & stain, ssfo on cup fair odor. Shale: dk grey, sl. carb, platy, firm.

4030 smpl: Ls, white, cm, micr xln, no vis por, very dense, NSFOC.

4020 smpl: KC I porosity, grey, fn xln, sl marl cont, scattered pp porosity, scattered stain and patchy sat, faint-fair odor, ssfo upon crush.

4042 smpl: A/A
4042 20": Upper KC J: white, fine spary calcite, very brittle, vssfo, faint-fair odor, very few cuttings representing gas show.

4042 40" white, oomoldic grainstone, excellent por, limited permeability, barren, NSFOC.

4060 smpl: Black shale, firm, platy, very carb, sl calc.

4070 smpl: light grey calcareous shale/argillaceous limestone, micro xln, hard, dense, no vis por, NSFOC.

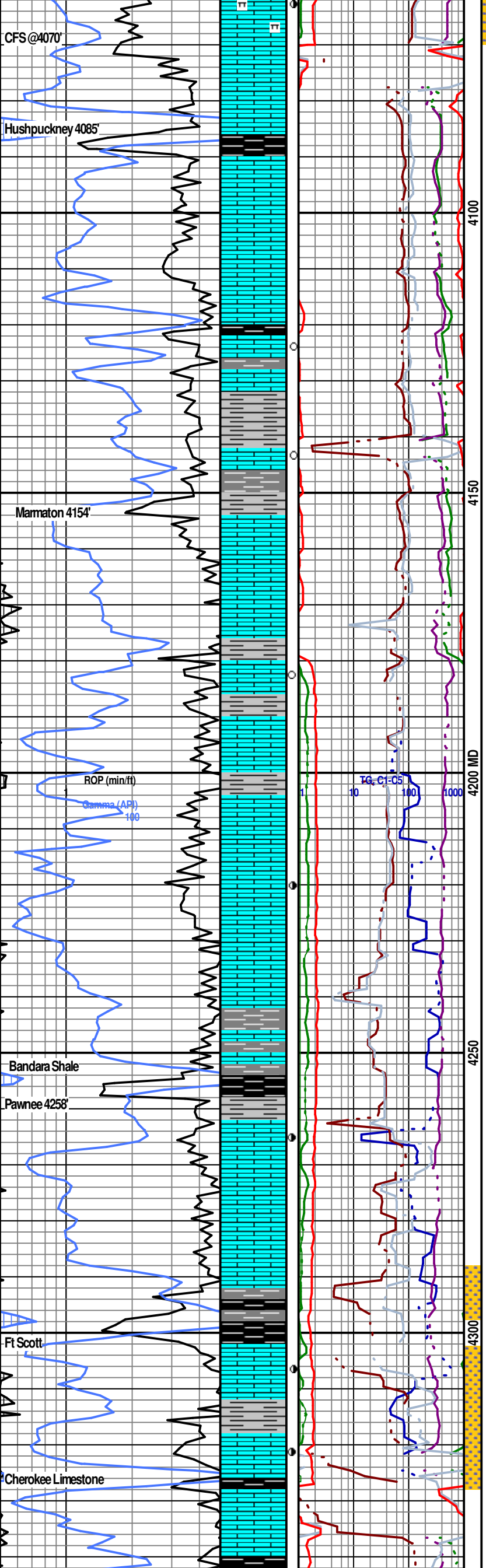
4070 (20") samp (lag to 4062): Ls, white, fine xln, brittle, poor vis inxl por else on crush, poor sat stain, good odor. Very

MW 9.2
VIS 54
1# LCM

DST #1 3592-4042
KC H-KC J
5-25-30-45
IFP 81-106psi
ISIP: 972psi
FFP: 117-205psi
FSIP: 944psi
Rec: 693' GIP
63' OCM (20%G, 20%O)
189' MCGO (40%G, 40%O)
189' GOCM (20%G, 30%O)

Mudco check:
MW 9.2
VIS 50
Filtrate 7.2
PH 11
Chlorides: 2200
3# LCM

DST #2
LKC K
4045-4095'
5-15-30-25
IFP: 48-67psi
ISIP: 526
FFP: 67-137psi
FSIP: 510psi
Rec: 63' MCW (80%W)



vis in xln, slight oil stain, poor stain, good odor. very heavy marl content.

4070 (40") smpl: ls fn xln, occ. partial packstone, scattered pp vugs, few w/ sparry calcite, hvy marl, overall poor vis por, slight show free oil, patchy stain, fair odor.

4090smpl: Ls, white, cream, grey, micro xln, occ. ool grainstone, no vis dissolution, no vis por, mod marl cont, NSFOC.

4100 smpl: flood black shale, very firm platy, carbonaceous. Ls: grey cream, micro xln, occ fossil hash, no vis por or dissolution, trc dead oil stain, no odor or free oil.

4110 smpl:: Ls cream, grey, lt brown, micr xln, few cuttings oolitic grainstone, no dissolution, no vis por. 2-3 cutting w/dead oil stain. NSFOC.

4120 smpl: Ls, grey-lt grey, beige, occ fossil frag, poor vis por, argillaceous, mod brittle, NSFOC. Questionable very faint odor.

4130 smpl: Ls, crm grey, micro xln, v dens, no vis por, occ fossil inclusions, NSFOC.

4140 smpl: Black shale, subplaty, mod firm, carb. Ls, grey, beige, off white, fn xln-micro xln, very poor-no vis por, rare spotty stain, no vis sat, 2 droplets oil in cup, faint odor.

4150smpl: Ls: grey, tan, mottled, occ. fossil frag, very poor-no por, NSFOC. Sh: greys soft, non platy-occ platy.

4160 smpl: Ls: cream, white, arg, no vis por, fair marl, rare grainstone, 2 cuttings very patchy scat stain, no show free oil, no odor.

4170 smpl: Dove grey shale, very soft, non platy, mushy, non calc, easily washed. Several other shale. Ls, cream, micor xln, no vis por, no show.

4180 smpl: Ls, cream, micro xln, mod marl, few packstone-grainstone, small clasts, no dissolution, NSFOC. Abdnt grey shale.

4190 smpl: Ls, grey, lt brown, tan, micro xln-rr fine xln, no vis por, mod arg, NSFOC. Variety of shale.

4200 smpl: Ls, cream, micro xln mtrx, scattered very fn xln sparry calcite along edges, minimal por, very scattered oil staining, no free oil, very slight odor.

4210 smpl: Ls, cream, grey, sl arg, micro xln, very rr scat fn xln, no vis por, rr sptd stain, NSFOC. no odor.

4220 smpl: LS: cream, micro xln, lithographic tex, no vis por, mod marl cont, NSFOC.

4230 smpl: Ls: cream, tan, micro xln, few w/ sctd pp vugs, very poor-no vis in xl por, NSFOC. 2 cutting gw/spotty stain, and very sl saturation, very ssfo, no odor.

4240 smpl: Ls, crm, tan, lithographic tex, micro xln, no vis por, NSFOC.

4250 smpl: ls, grey, brown, micro xln, no vis por, v. dense, sl arg, NSFOC.

4260 smpl: flood dark grey-black shale, v firm, calcareous, carb, dense, platy. Ls grey, arg, micr xln, very dense, no vis por.

4270' 95% smpl: Flood black shale, very firm, platy, calcareous, carbonaceous.

4280 smple: Ls, light brown, cream, micro xln, occ. packstone, very rare pp vug, dense, minimal dissoultion, trc scat stain, vssfo, faint odor.

4290 smpl: Ls: cream-grey, micro xln, dense, rr fossil frag, no vis por, NSFOC.

4300: Grey, micro xln, occ rr pp vug, no vis in xln por, dense, hard, NSFOC.

4310': Flood black shale: mod firm, platy, very carb, sl calc, strg gas odor.

4320smpl: Ft Scott A: grainstone, fossil hash, ostracods,, poor dissolution, scattered pp vugs, few cuttings w/even porosity and stain, most scattered oil stain in pores, limited porosity, vssfo, questionable odor.

-4327-stop"-top Ft Scott B, laged to 4320'. Scattered pp-large vugs, sl oil stain and sat in pores, ssfo, faint odor, few oil droplets in tray. 20"-slightly increase in por. Similar show.

4340 smpl: Ls, grey, brown, cream, micro xln, dense, few grainstone w/ no vis dissolution, NSFOC. Variety of dk grey-black shale.

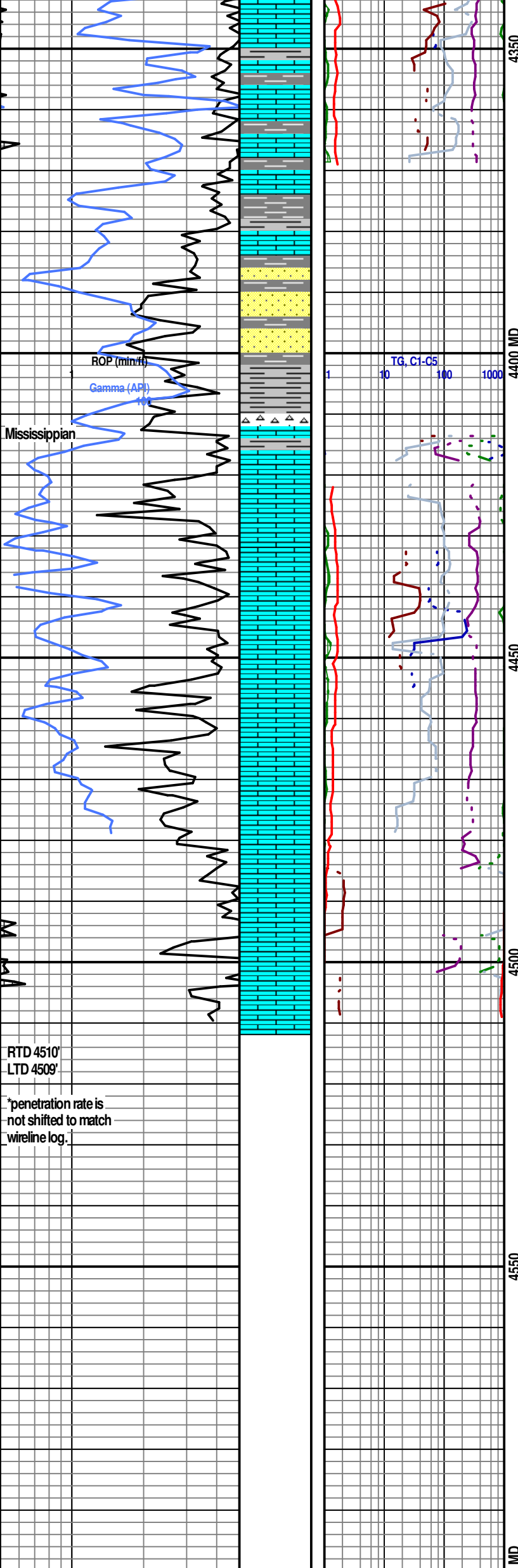
4350 smpl: Limestone, grey, brown, micro xln, lithographic

94' GOCMW (5%O, 25%W)
94' MCGO (85%O, 5%G)
379' GP

Mudco check:
MW 9.1
Vis 53
Filtrate 7.2
Chloride 2400ppm
2# LCM
Solids: 5.4%

DST #3
Ft. Scott
4289-4328'
5-25-20-30
IFP: 39-39psi
ISP: 976psi
FFP: 36-38psi
FSIP: 132PSI
Rec: 10' OCM (10% O)

Mudco check:
MW 9.1
Vis 51
Filtrate: 8
Chloride: 2500
5.3% Solids



tex, occ. bio clasts, no vis por, dense, NSF OC. no odor.

4360: Ls, off white, lt brown, micro xln, occ. fossil frag, dense, mod marl, arg, NSF OC.

4370 smpl: Ls, grey-brown, dense, occ. rr fossil frag, no vis por, NSCC.

4380 smpl: Ls, lt brown, cream, micro xln, occ fossil frag, arg, no vis por, NSF OC. Abdn shales, olive green, grey-dk grey.

4390: Ls, off white, grey, brown, micro xln, trc scat pp vug, very dense, mod marl. SS: lt grey vfg, well std, v well cons, no vis por, no stain or odor.

4400 smpl: SS, white, very fine grain, well std, no vis inxl por, well consolidated, barren, no show oil or odor.

4410 smpl: SS-A/A. Chert-white, cream, traslucent-opaque, NSF OC.

4420 smpl: white & mustard chert, occ oolitic. Dolomitic ls, fn xln, poor vis inxl por, grey, NSF OC.

4430 smpl: Trc chert/anas sand. Dolomitic ls: grey-cream, moicro xln-fn xln, no vis por, dense, NSF OC.

4440 smpl: Dolomitic ls, grey-bf, fn xln-sparry, poor vis inxl por, very hvy whitemat, trc chert, NSF OC.

4450 smpl: Dolomitic Ls: grey buff, fn-med xln, poor-fair inxl por, havy mat (sl less a/a) NSF OC.

4460 smpl: Ls: grey cream, occ. mottled plant mat, arg, fn-micro xln, poor vis inxl por, NSF OC.

4470 smpl: Ls: beige, cream, dk grey, occ. grainstone w/ poorly std clasts, hvy arg, micro xln-fn xln mtrx, no vis por, trc chert, NSF OC.

4480 smpl: Dolomitic ls, grey-brown, mottled, poor vis por, fn-med xln, sl marl, NSF OC.

4490 smpl: Dolomitic ls, grey-bron, fn xln, fair even vuggy por, NSF OC.

4500 smpl: Ls, cream, beige, micro xln, v poor inxl por, non arg, NSF OC.

Ls: cream-off white, grey, fn xln, poor rr vuggy por, occ. chert, NSF OC.

Mudco check:
 MW 9.3
 VIS 50
 Filtrate: 8.8
 Chloride: 2300 ppm
 3# LCM
 6.4% Solids