

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) (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	Murfin Drilling Co., Inc.
Well Name	GEYER 7-35
Doc ID	1673354

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	GEYER 7-35
Doc ID	1673354

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3702	3706			250 gal 15% MCA
4	3720	3723			
4	3751	3754			200 gal 15% MCA
4	3759	3764			200 gal 15% MCA
4	3879	3884			250 gal 15% MCA, 250 gal 15% MCA
4	3900	3906			500 gal 15% MCA, 250 gal 15% MCA

DRILLING REPORT - LOG TOPS - GEYER 7-35

MDCI Geyer #7-35 2450' FNL 1150' FWL Sec.35 -T10S-R24W 2372' KB						
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	1996	+376	-8	1992	+380	-4
B/Anhydrite	2030	+342	0	2031	+341	-1
Stotler	3313	-941	+2	3316	-944	-1
Topeka	3464	-1092	-3	3462	-1090	-1
Heebner	3671	-1299	+8	3679	-1307	0
Lansing	3719	-1347	-1	3719	-1347	-1
Mound City	3953	-1581	-7	3950	-1578	-4
RTD	4050			4050		
LTD	4048					



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water STE 300
Wichita KS 67202+1216

ATTN: Curtis Covey

Geyer #7-35

35-10s-24w Graham KS

Start Date: 2022.09.12 @ 22:31:00

End Date: 2022.09.13 @ 10:26:32

Job Ticket #: 69805 DST #: 1

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

Printed: 2022.09.16 @ 12:18:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69805

DST#: 1

ATTN: Curtis Covey

Test Start: 2022.09.12 @ 22:31:00

GENERAL INFORMATION:

Formation: **Tor-Lans A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:42

Time Test Ended: 10:26:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3687.00 ft (KB) To 3744.00 ft (KB) (TVD)

Reference Elevations: 2372.00 ft (KB)

Total Depth: 3744.00 ft (KB) (TVD)

2367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: 444.12 psig @ 3690.00 ft (KB)

Capacity: psig

Start Date: 2022.09.12

End Date: 2022.09.13

Last Calib.: 2022.09.13

Start Time: 22:31:01

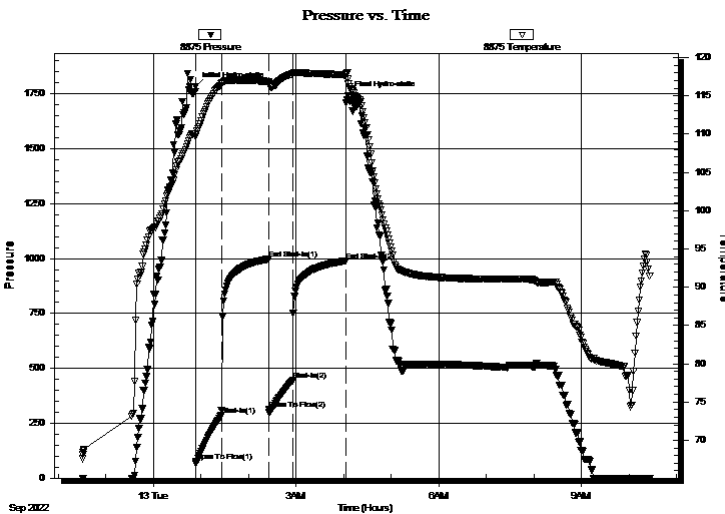
End Time: 10:26:32

Time On Btm: 2022.09.13 @ 00:53:27

Time Off Btm: 2022.09.13 @ 04:05:27

TEST COMMENT: 30-IF-Slid 7' Bled off 4" Blow BOB 3 mins Built to 72.75"
60-ISI-Bled off for 2 mins Surface to 5" Died back to 3.5"
30-FF-BOB 5 mins Built to 40"
60-FSI-Bled off for 1 min Surface to 7.5"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.48	110.06	Initial Hydro-static
1	76.54	109.68	Open To Flow (1)
33	287.20	116.53	Shut-In(1)
93	997.79	116.84	End Shut-In(1)
93	313.01	116.57	Open To Flow (2)
123	444.12	117.85	Shut-In(2)
190	989.73	117.74	End Shut-In(2)
193	1741.82	117.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HMCW 30%M 70%W	0.05
1210.00	GO 25%G 75%O	16.97
0.00	820 GIP 100%G	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water STE 300
Wichita KS 67202+1216

ATTN: Curtis Covey

35-10s-24w Graham KS

Geyer #7-35

Job Ticket: 69805

DST#: 1

Test Start: 2022.09.12 @ 22:31:00

GENERAL INFORMATION:

Formation: **Tor-Lans A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:42

Time Test Ended: 10:26:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3687.00 ft (KB) To 3744.00 ft (KB) (TVD)

Reference Elevations: 2372.00 ft (KB)

Total Depth: 3744.00 ft (KB) (TVD)

2367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 3690.00 ft (KB)

Capacity: psig

Start Date: 2022.09.12

End Date: 2022.09.13

Last Calib.: 2022.09.13

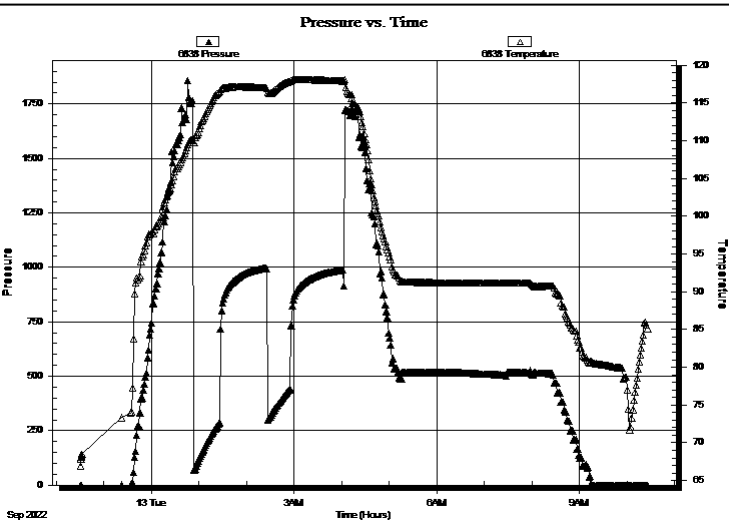
Start Time: 22:31:01

End Time: 10:26:32

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Slid 7' Bled off 4" Blow BOB 3 mins Built to 72.75"
60-ISI-Bled off for 2 mins Surface to 5" Died back to 3.5"
30-FF-BOB 5 mins Built to 40"
60-FSI-Bled off for 1 min Surface to 7.5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HMCW 30%M 70%W	0.05
1210.00	GO 25%G 75%O	16.97
0.00	820 GIP 100%G	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69805

DST#: 1

ATTN: Curtis Covey

Test Start: 2022.09.12 @ 22:31:00

Tool Information

Drill Pipe:	Length: 3650.00 ft	Diameter: 3.82 inches	Volume: 51.74 bbl	Tool Weight: 2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 78000.00 daN
			<u>Total Volume: - bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 49000.00 daN
Depth to Top Packer:	3687.00 ft			Final 54000.00 daN
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3656.00	
Shut In Tool	5.00			3661.00	
Hydraulic tool	5.00			3666.00	
Jars	5.00			3671.00	
Gap Sub	4.00			3675.00	
Safety Joint	3.00			3678.00	
Packer	5.00			3683.00	32.00 Bottom Of Top Packer
Packer	4.00			3687.00	
Stubb	1.00			3688.00	
Perforations	1.00			3689.00	
Change Over Sub	1.00			3690.00	
Recorder	0.00	6838	Inside	3690.00	
Recorder	0.00	8875	Inside	3690.00	
Drill Pipe	32.00			3722.00	
Change Over Sub	1.00			3723.00	
Perforations	18.00			3741.00	
Bullnose	3.00			3744.00	57.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69805

DST#: 1

ATTN: Curtis Covey

Test Start: 2022.09.12 @ 22:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	HMCW 30%M 70%W	0.049
1210.00	GO 25%G 75%O	16.967
0.00	820 GIP 100%G	0.000

Total Length: 1220.00 ft Total Volume: 17.016 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

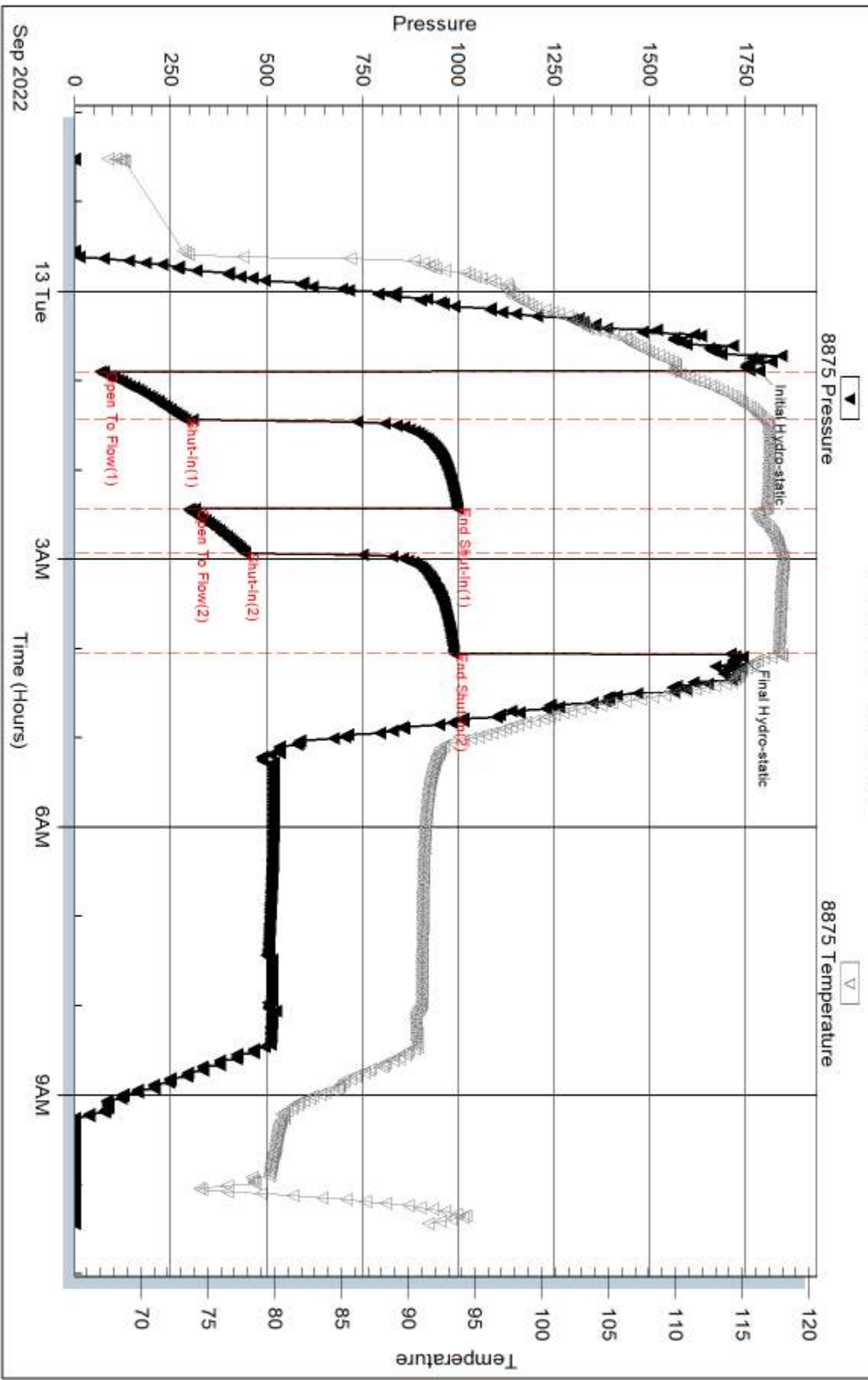
Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

RW=.133@80F

Pressure vs. Time



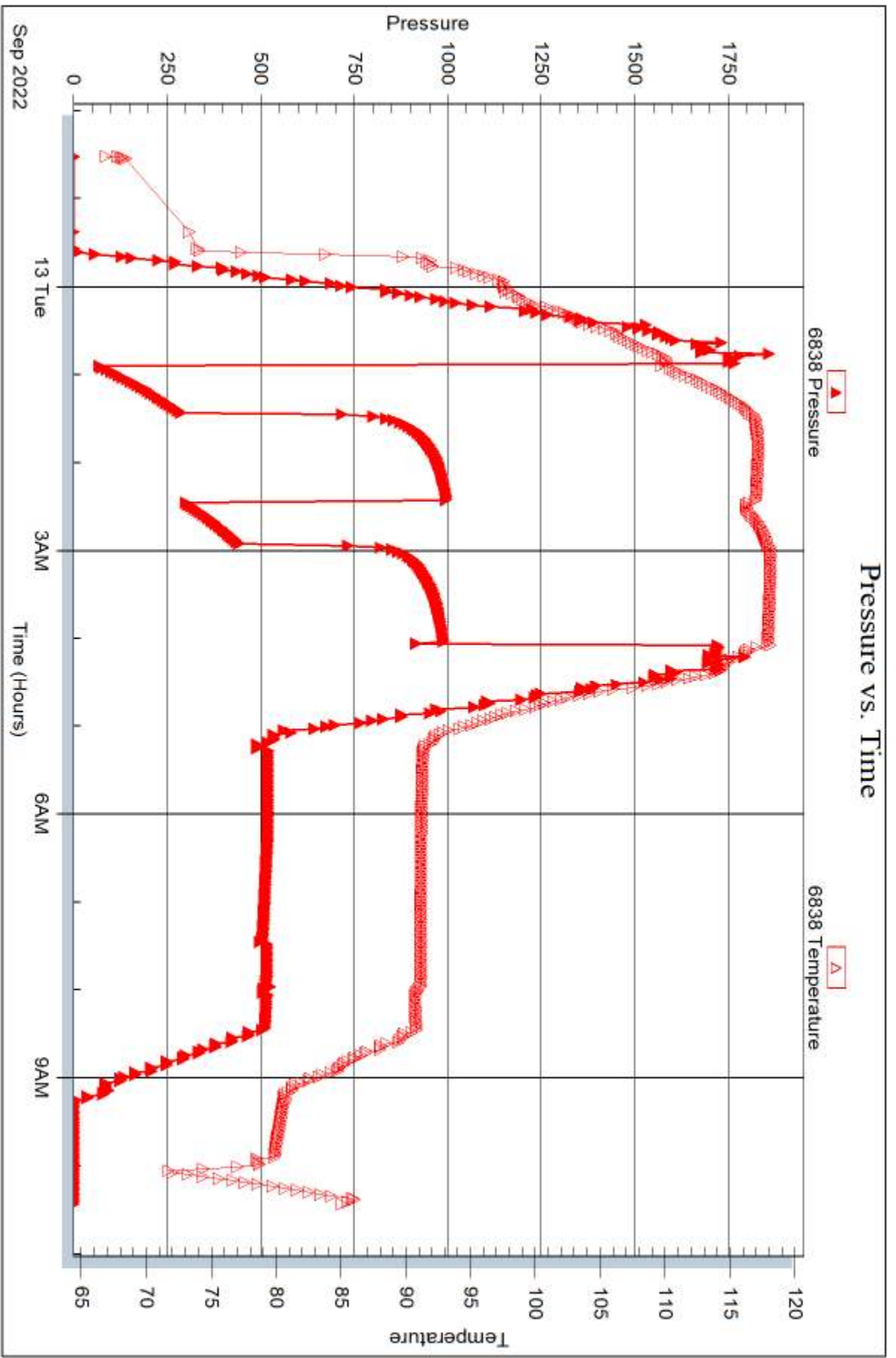
Serial #: 6838

Inside

Murfin Drilling Company Inc

Geyer #7-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69805

Printed: 2022.09.16 @ 12:18:24



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water STE 300
Wichita KS 67202+1216

ATTN: Curtis Covey

Geyer #7-35

35-10s-24w Graham KS

Start Date: 2022.09.13 @ 22:10:00

End Date: 2022.09.14 @ 05:47:07

Job Ticket #: 69806 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.16 @ 12:17:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69806

DST#: 2

ATTN: Curtis Covey

Test Start: 2022.09.13 @ 22:10:00

GENERAL INFORMATION:

Formation: **LKC B-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:52:17

Time Test Ended: 05:47:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3739.00 ft (KB) To 3788.00 ft (KB) (TVD)

Reference Elevations: 2372.00 ft (KB)

Total Depth: 3788.00 ft (KB) (TVD)

2367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 41.41 psig @ 3742.00 ft (KB)

Capacity: psig

Start Date: 2022.09.13

End Date:

2022.09.14

Last Calib.:

2022.09.14

Start Time: 22:10:01

End Time:

05:47:07

Time On Btm:

2022.09.13 @ 23:52:12

Time Off Btm:

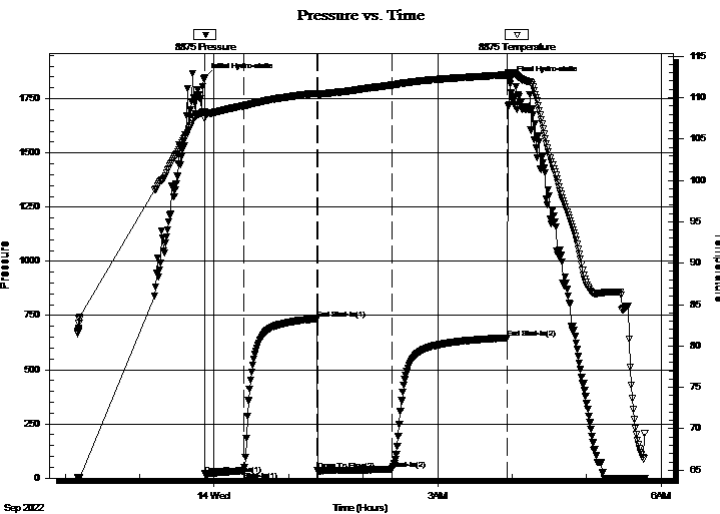
2022.09.14 @ 03:58:02

TEST COMMENT: 30-IF-Surface to 1.5"

60-ISI-No Return

60-FF-No Blow

90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1845.54	108.34	Initial Hydro-static
1	19.17	107.48	Open To Flow (1)
32	32.36	109.00	Shut-In(1)
91	734.61	110.51	End Shut-In(1)
91	33.95	110.43	Open To Flow (2)
151	41.41	111.49	Shut-In(2)
245	647.38	112.76	End Shut-In(2)
246	1835.96	113.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM 100%M	0.43

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69806

DST#: 2

ATTN: Curtis Covey

Test Start: 2022.09.13 @ 22:10:00

GENERAL INFORMATION:

Formation: **LKC B-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:52:17

Time Test Ended: 05:47:07

Interval: 3739.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Reference Elevations: 2372.00 ft (KB)

2367.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 3742.00 ft (KB)

Start Date: 2022.09.13

End Date:

2022.09.14

Capacity: psig

Last Calib.:

2022.09.14

Start Time: 22:10:01

End Time:

05:47:07

Time On Btm:

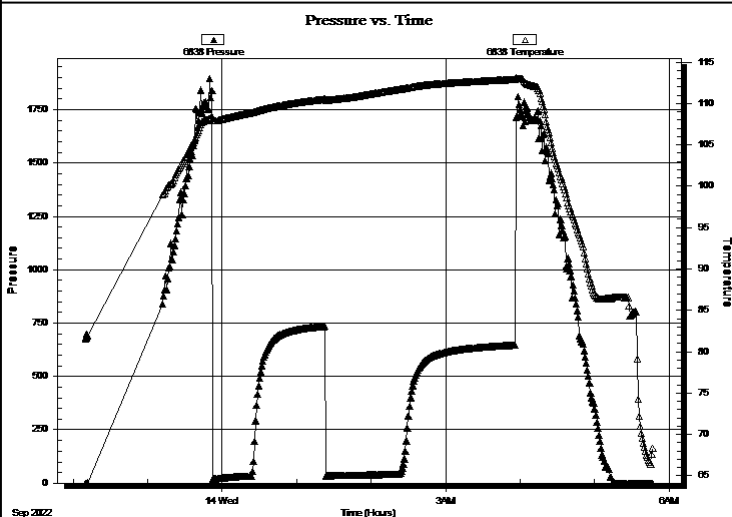
Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1.5"

60-ISI-No Return

60-FF-No Blow

90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM 100%M	0.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69806

DST#: 2

ATTN: Curtis Covey

Test Start: 2022.09.13 @ 22:10:00

Tool Information

Drill Pipe:	Length: 3683.00 ft	Diameter: 3.82 inches	Volume: 52.21 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	53000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	52000.00 daN
Drill Pipe Above KB:	6.00 ft			Final	52000.00 daN
Depth to Top Packer:	3739.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3708.00	
Shut In Tool	5.00			3713.00	
Hydraulic tool	5.00			3718.00	
Jars	5.00			3723.00	
Gap Sub	4.00			3727.00	
Safety Joint	3.00			3730.00	
Packer	5.00			3735.00	32.00 Bottom Of Top Packer
Packer	4.00			3739.00	
Stubb	1.00			3740.00	
Perforations	1.00			3741.00	
Change Over Sub	1.00			3742.00	
Recorder	0.00	6838	Inside	3742.00	
Recorder	0.00	8875	Inside	3742.00	
Drill Pipe	32.00			3774.00	
Change Over Sub	1.00			3775.00	
Perforations	10.00			3785.00	
Bullnose	3.00			3788.00	49.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69806

DST#: 2

ATTN: Curtis Covey

Test Start: 2022.09.13 @ 22:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.39 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OSM 100%M	0.431

Total Length: 50.00 ft Total Volume: 0.431 bbl

Num Fluid Samples: 0

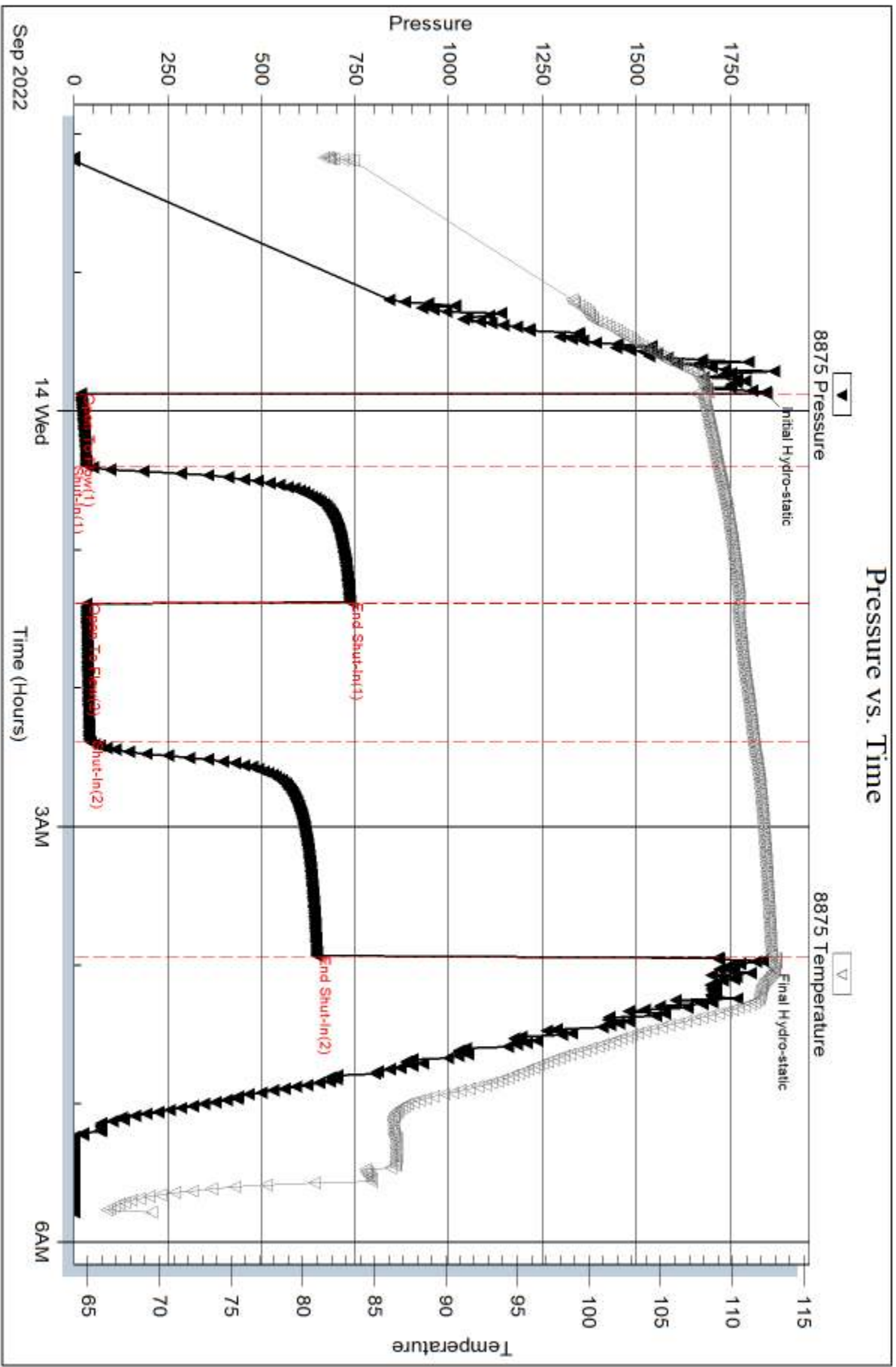
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



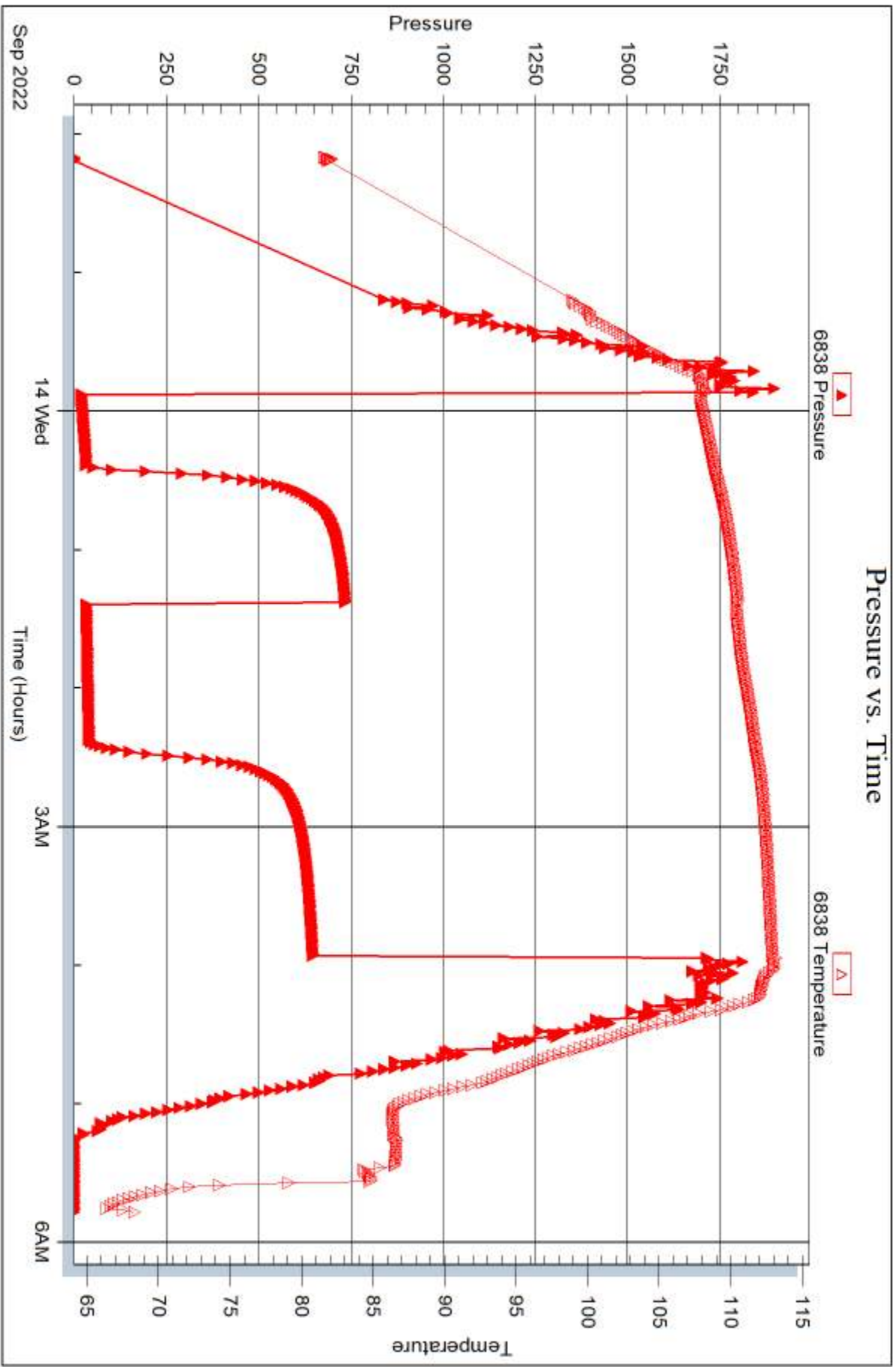
Serial #: 6838

Inside

Murfin Drilling Company Inc

Geyer #7-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69806

Printed: 2022.09.16 @ 12:17:22



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water STE 300
Wichita KS 67202+1216

ATTN: Curtis Covey

Geyer #7-35

35-10s-24w Graham KS

Start Date: 2022.09.14 @ 13:40:00

End Date: 2022.09.14 @ 21:53:02

Job Ticket #: 69807 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.16 @ 12:15:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69807

DST#: 3

ATTN: Curtis Covey

Test Start: 2022.09.14 @ 13:40:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:17

Time Test Ended: 21:53:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3790.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 2372.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

2367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875 Outside

Press@RunDepth: 265.24 psig @ 3791.00 ft (KB)

Capacity: psig

Start Date: 2022.09.14

End Date:

2022.09.14

Last Calib.:

2022.09.14

Start Time: 13:40:01

End Time:

21:53:02

Time On Btm:

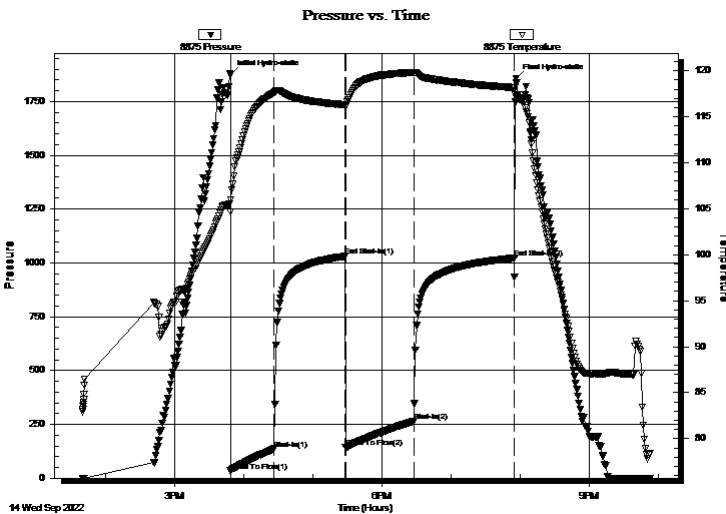
2022.09.14 @ 15:48:12

Time Off Btm:

2022.09.14 @ 19:56:41

TEST COMMENT: 30-IF-BOB 24 mins Built to 16"
60-ISI-Surface to 1.25" Died back to 1/2"
60-FF-BOB 29 mins Built to 17"
90-FSI-Surface to 1/4" Died @ 30 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.77	105.53	Initial Hydro-static
1	33.97	104.66	Open To Flow (1)
39	136.15	117.59	Shut-In(1)
100	1030.77	116.26	End Shut-In(1)
101	143.41	116.07	Open To Flow (2)
160	265.24	119.80	Shut-In(2)
248	1023.04	118.19	End Shut-In(2)
249	1857.33	117.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	SMCW 5%M 95%W	6.81
30.00	GO 10%G 90%O	0.43
0.00	100 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69807 **DST#: 3**

ATTN: Curtis Covey

Test Start: 2022.09.14 @ 13:40:00

GENERAL INFORMATION:

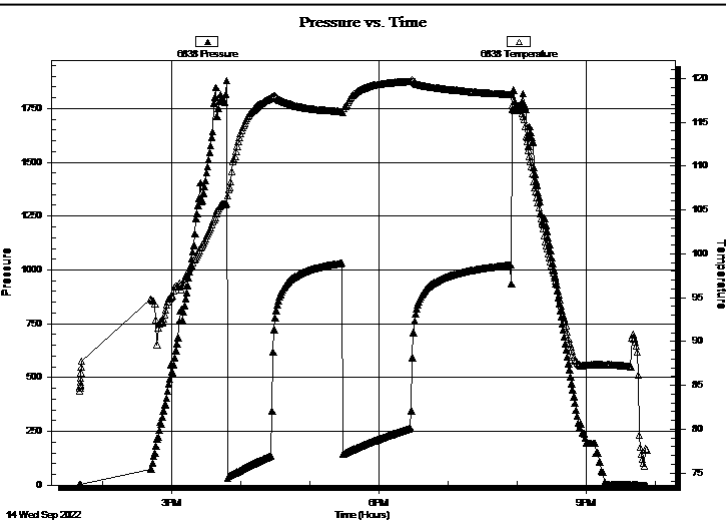
Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:48:17
 Time Test Ended: 21:53:02
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Interval: **3790.00 ft (KB) To 3810.00 ft (KB) (TVD)**
 Total Depth: 3810.00 ft (KB) (TVD)
 Reference Elevations: 2372.00 ft (KB)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 3791.00 ft (KB) Capacity: psig
 Start Date: 2022.09.14 End Date: 2022.09.14 Last Calib.: 2022.09.14
 Start Time: 13:40:01 End Time: 21:53:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB 24 mins Built to 16"
 60-ISI-Surface to 1.25" Died back to 1/2"
 60-FF-BOB 29 mins Built to 17"
 90-FSI-Surface to 1/4" Died @ 30 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
500.00	SMCW 5%M 95%W	6.81
30.00	GO 10%G 90%O	0.43
0.00	100 GIP 100%G	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69807

DST#: 3

ATTN: Curtis Covey

Test Start: 2022.09.14 @ 13:40:00

Tool Information

Drill Pipe:	Length: 3746.00 ft	Diameter: 3.82 inches	Volume: 53.10 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	56000.00 daN
		Total Volume: - bbl		Tool Chased	ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	52000.00 daN
Depth to Top Packer:	3790.00 ft			Final	53000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	52.00 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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Change Over Sub	1.00			3759.00	
Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Jars	5.00			3774.00	
Gap Sub	4.00			3778.00	
Safety Joint	3.00			3781.00	
Packer	5.00			3786.00	32.00 Bottom Of Top Packer
Packer	4.00			3790.00	
Stubb	1.00			3791.00	
Recorder	0.00	6838	Inside	3791.00	
Recorder	0.00	8875	Outside	3791.00	
Perforations	16.00			3807.00	
Bullnose	3.00			3810.00	20.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69807

DST#: 3

ATTN: Curtis Covey

Test Start: 2022.09.14 @ 13:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

58000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	SMCW 5%M 95%W	6.810
30.00	GO 10%G 90%O	0.425
0.00	100 GIP 100%G	0.000

Total Length: 530.00 ft Total Volume: 7.235 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

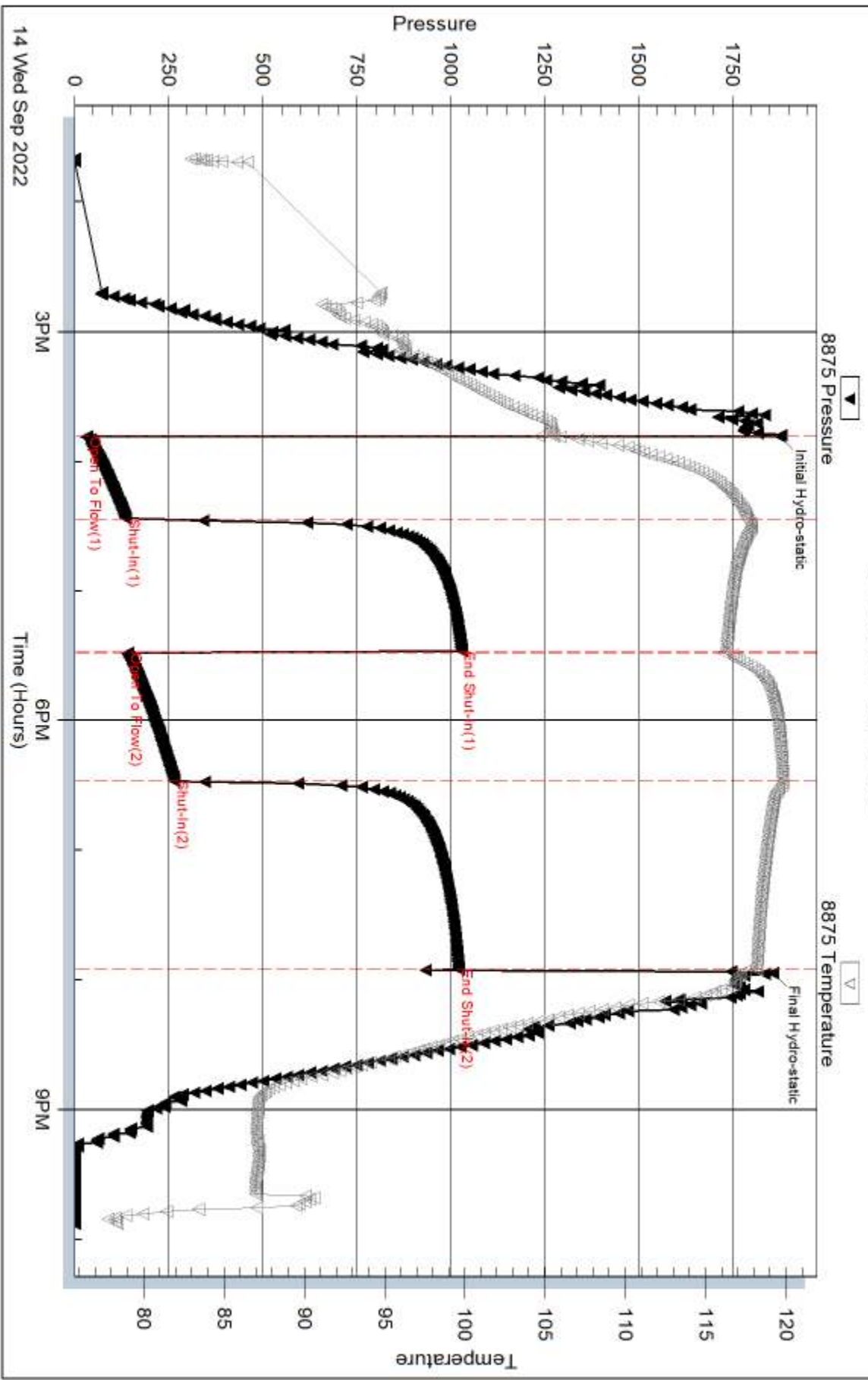
Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

RW=.121@75F

Pressure vs. Time



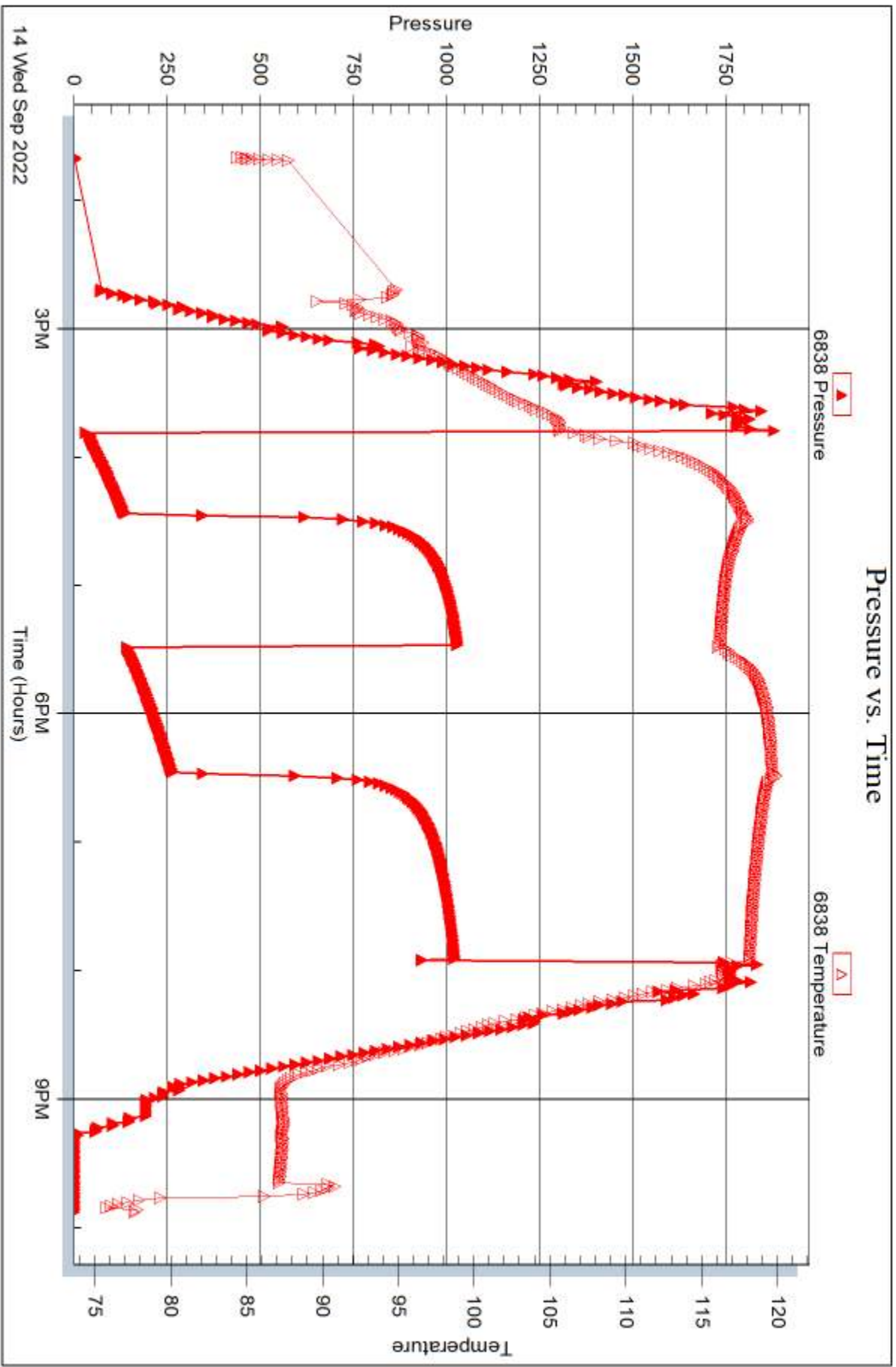
Serial #: 6838

Inside

Murfin Drilling Company Inc

Geyer #7-35

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water STE 300
Wichita KS 67202+1216

ATTN: Curtis Covey

Geyer #7-35

35-10s-24w Graham KS

Start Date: 2022.09.15 @ 13:50:00

End Date: 2022.09.15 @ 20:23:52

Job Ticket #: 69808 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.16 @ 12:07:14

Murfin Drilling Company Inc

35-10s-24w Graham KS

Geyer #7-35

DST # 4

LKC H-J

2022.09.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69808

DST#: 4

ATTN: Curtis Covey

Test Start: 2022.09.15 @ 13:50:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:12

Time Test Ended: 20:23:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3844.00 ft (KB) To 3910.00 ft (KB) (TVD)

Reference Elevations: 2372.00 ft (KB)

Total Depth: 3844.00 ft (KB) (TVD)

2367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 41.55 psig @ 3847.00 ft (KB)

Capacity: psig

Start Date: 2022.09.15

End Date:

2022.09.15

Last Calib.:

2022.09.15

Start Time: 13:50:01

End Time:

20:23:52

Time On Btm:

2022.09.15 @ 15:47:07

Time Off Btm:

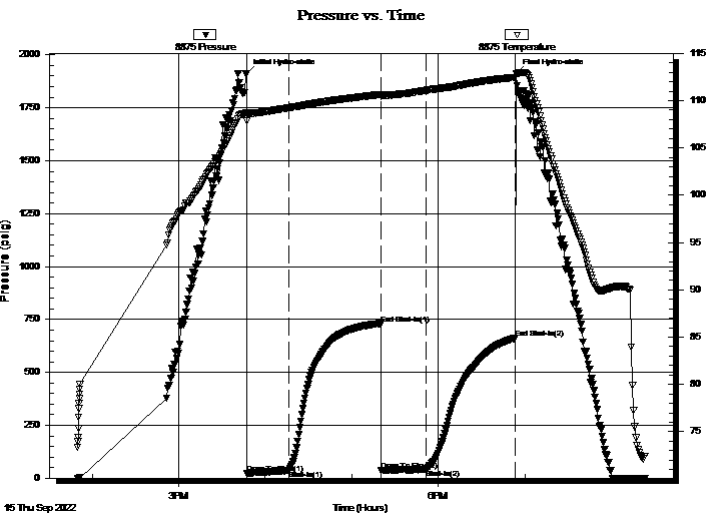
2022.09.15 @ 18:53:57

TEST COMMENT: 30-IF-Surface Built to 1/2"

60-ISI-No Return

30-FF-Surface Blow

60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.23	108.76	Initial Hydro-static
1	22.92	107.82	Open To Flow (1)
30	35.49	109.24	Shut-In(1)
94	730.63	110.63	End Shut-In(1)
94	38.48	110.46	Open To Flow (2)
125	41.55	111.08	Shut-In(2)
187	661.83	112.47	End Shut-In(2)
187	1912.86	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSCOM 1%O 99%M	0.29

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69808

DST#: 4

ATTN: Curtis Covey

Test Start: 2022.09.15 @ 13:50:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:47:12
 Time Test Ended: 20:23:52
 Interval: **3844.00 ft (KB) To 3910.00 ft (KB) (TVD)**
 Total Depth: 3844.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2372.00 ft (KB)
 2367.00 ft (CF)
 KB to GR/CF: 5.00 ft

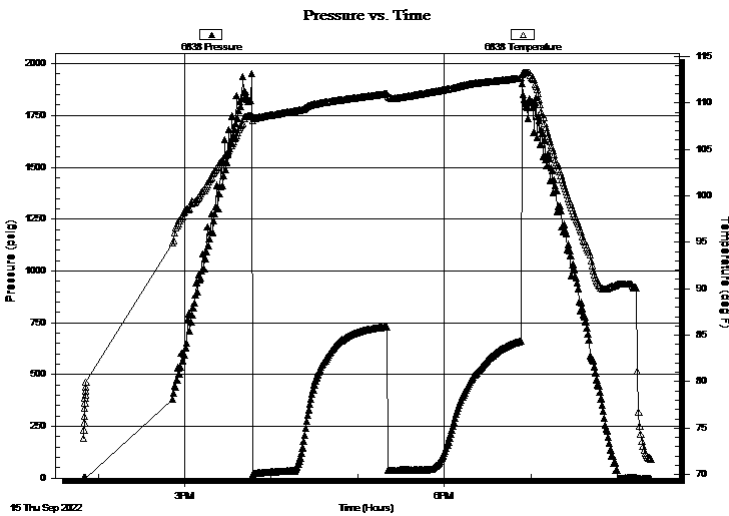
Serial #: 6838

Inside

Press@RunDepth: psig @ 3847.00 ft (KB) Capacity: psig
 Start Date: 2022.09.15 End Date: 2022.09.15 Last Calib.: 2022.09.15
 Start Time: 13:50:01 End Time: 20:23:52 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface Built to 1/2"
 60-ISI-No Return
 30-FF-Surface Blow
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSCOM 1%O 99%M	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69808

DST#: 4

ATTN: Curtis Covey

Test Start: 2022.09.15 @ 13:50:00

Tool Information

Drill Pipe:	Length: 3810.00 ft	Diameter: 3.82 inches	Volume: 54.01 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	52000.00 daN
Drill Pipe Above KB:	28.00 ft			Final	52000.00 daN
Depth to Top Packer:	3844.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	98.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3813.00	
Shut In Tool	5.00			3818.00	
Hydraulic tool	5.00			3823.00	
Jars	5.00			3828.00	
Gap Sub	4.00			3832.00	
Safety Joint	3.00			3835.00	
Packer	5.00			3840.00	32.00 Bottom Of Top Packer
Packer	4.00			3844.00	
Stubb	1.00			3845.00	
Perforations	1.00			3846.00	
Change Over Sub	1.00			3847.00	
Recorder	0.00	6838	Inside	3847.00	
Recorder	0.00	8875	Inside	3847.00	
Drill Pipe	32.00			3879.00	
Change Over Sub	1.00			3880.00	
Perforations	27.00			3907.00	
Bullnose	3.00			3910.00	66.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

35-10s-24w Graham KS

250 N Water STE 300
Wichita KS 67202+1216

Geyer #7-35

Job Ticket: 69808

DST#: 4

ATTN: Curtis Covey

Test Start: 2022.09.15 @ 13:50:00

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:

bbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	VSCOM 1%O 99%M	0.289

Total Length: 40.00 ft Total Volume: 0.289 bbl

Num Fluid Samples: 0

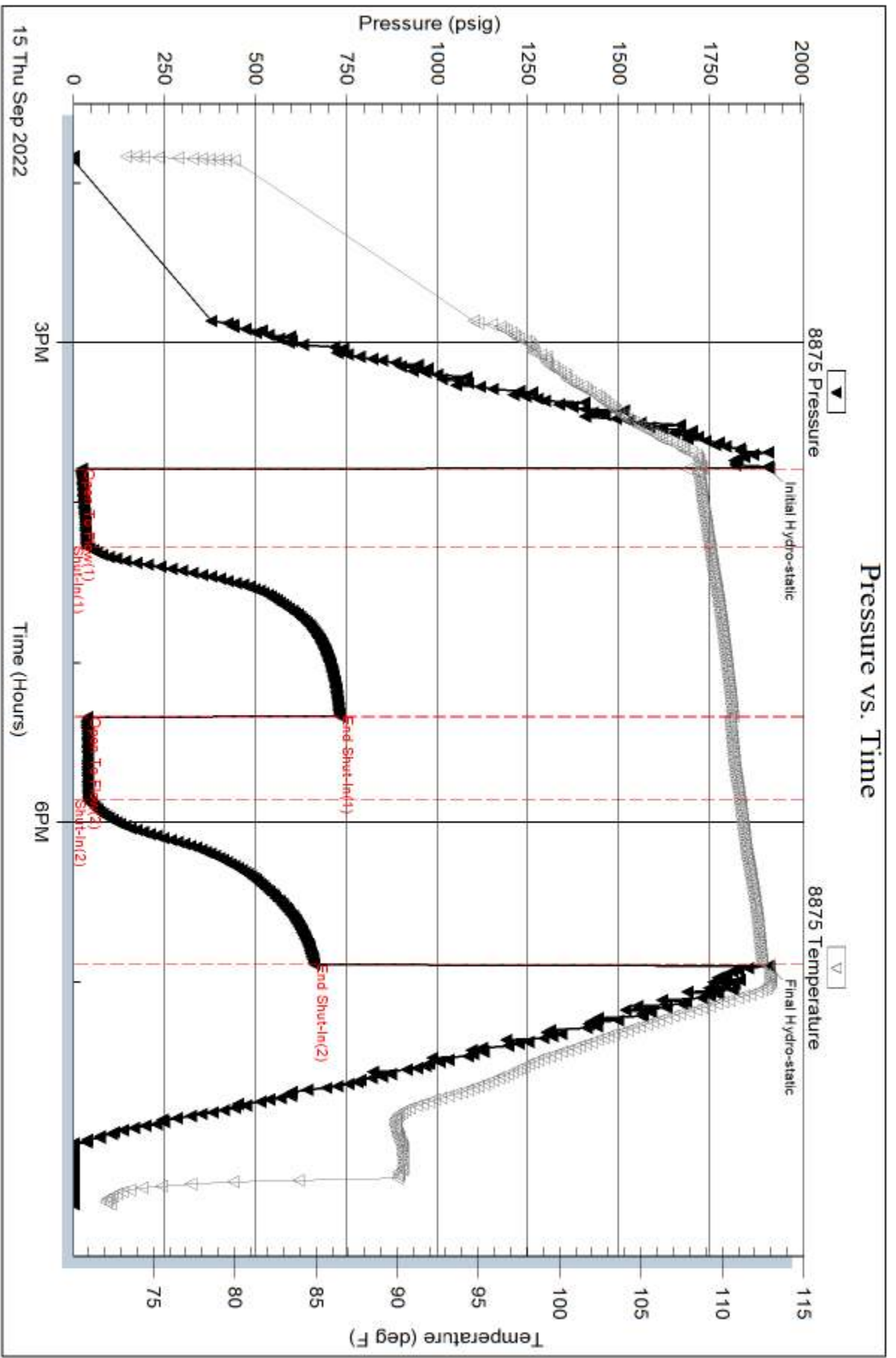
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM



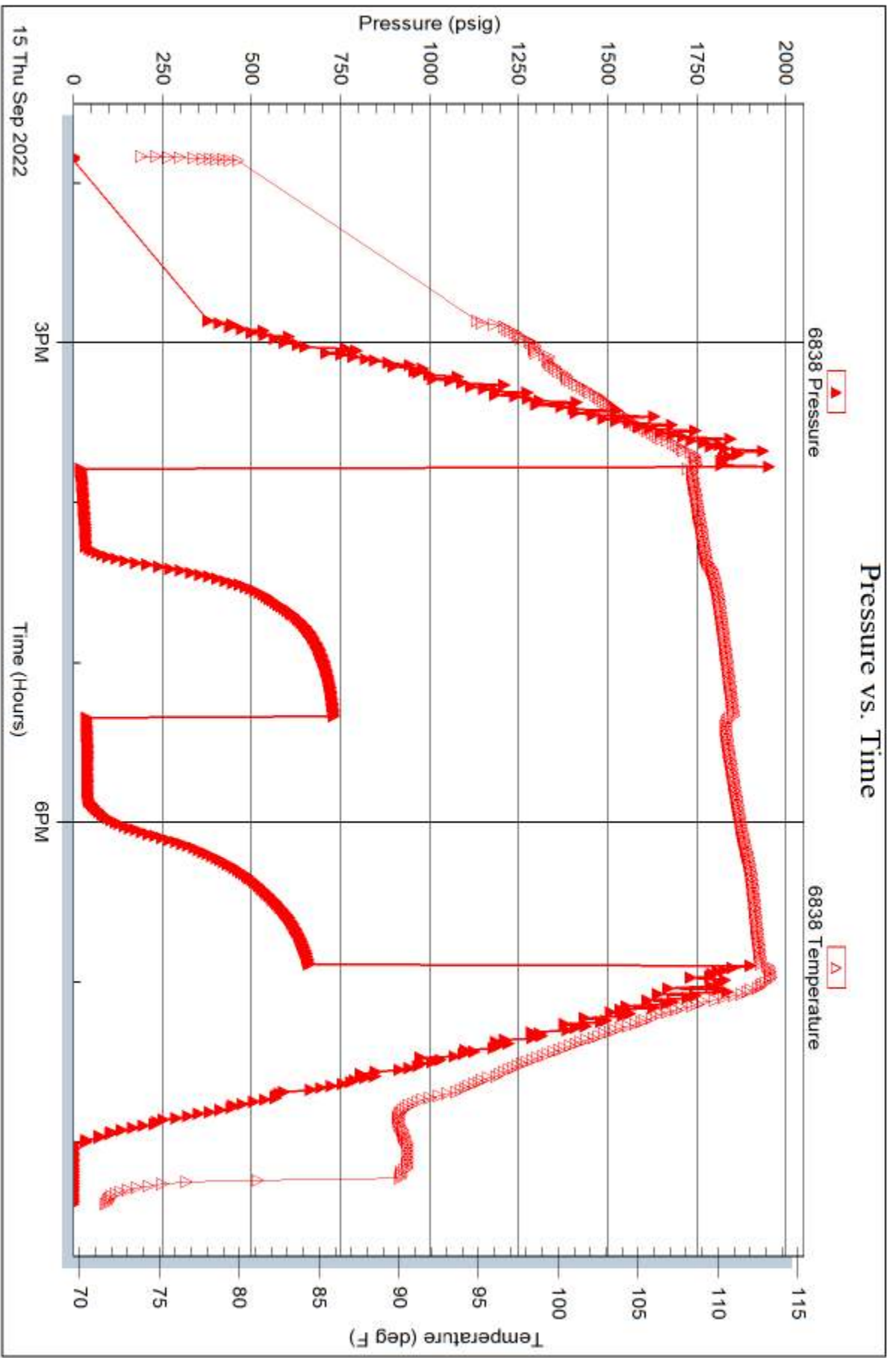
Serial #: 6838

Inside

Murfin Drilling Company Inc

Geyer #7-35

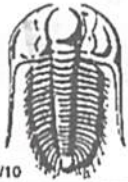
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 69808

Printed: 2022.09.16 @ 12:07:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69805

Well Name & No. Jeyer # 7-35 Test No. 1 Date 09/12/2022
 Company Murfin Drilling Company Inc Elevation 2372' KB 2367' GL
 Address 250 N Water STE 300 Wichita Ks 67202+1216
 Co. Rep / Geo. Curtis Covey Rig Murfin #16
 Location: Sec. 35 Twp 10S Rge. 24w Co. Graham State Ks

Interval Tested 3687' - 3744' Zone Tested Toronto - Lons a
 Anchor Length 57' Drill Pipe Run 3650' Mud Wt. 9.0
 Top Packer Depth 3683' Drill Collars Run 30' Vis 54
 Bottom Packer Depth 3687' Wt. Pipe Run - WL 5.4
 Total Depth 3744' Chlorides 1,000 ppm System LCM 3#

Blow Description D7 - Slid 7'; Bled off 4" Blow; BOB 3 mins Built to 72 3/4"
DSD - Bled off for 2 mins; Surface to 5"; Died back to 3 1/2"
77 - BOB 5 mins; Built to 40"
7SD - Bled off for 1' min; Surface to 7 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
10'	Feet of <u>M CW</u>			<u>70%</u>	<u>30%</u>
1210	Feet of <u>GO</u>	<u>25%</u>	<u>75%</u>		
	Feet of <u>820' GIP</u>	<u>100%</u>			
	Feet of _____	%gas	%oil	%water	%mud
	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1220' BHT 117° Gravity 23° API RW .133 @ 80° F Chlorides 52,000 ppm

(A) Initial Hydrostatic <u>1784</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>21:04</u>
(B) First Initial Flow <u>76</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>22:31</u>
(C) First Final Flow <u>287</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>00:52</u>
(D) Initial Shut-In <u>997</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>03:52</u>
(E) Second Initial Flow <u>313</u>	<input checked="" type="checkbox"/> Hourly Standby <u>x4</u> 3.5h 350	T-Out <u>10:23</u>
(F) Second Final Flow <u>444</u>	<input checked="" type="checkbox"/> Mileage <u>10827</u> 162	Comments <u>waited on touch to drop bar</u>
(G) Final Shut-In <u>989</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1741</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 2612 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Stahl Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69806**

Well Name & No. Geyer #7-35 Test No. 2 Date 09/13/2022
 Company Murphy Drilling Company Inc Elevation 2372' KB 2367' GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Curtis Covey Rig Murphy #16
 Location: Sec. 35 Twp 10S Rge. 24W Co. Butler State KS

Interval Tested 3739' - 3788' Zone Tested LKC B-D
 Anchor Length 49' Drill Pipe Run 3683' Mud Wt. 9.0
 Top Packer Depth 3734' Drill Collars Run 30' Vis 54
 Bottom Packer Depth 3739' Wt. Pipe Run — WL 5.4
 Total Depth 3788' Chlorides 1000 ppm System LCM 3#

Blow Description 77- Surface to 1.5'
50- No Return
77- No Blows
750- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50' BHT 112° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>1845</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>21:40</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>22:10</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>23:50</u>
(D) Initial Shut-In <u>734</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>03:50</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:45</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>10827</u> 162	Comments
(G) Final Shut-In <u>647</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1835</u>	<input type="checkbox"/> Straddle	

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

<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>0</u>
<input type="checkbox"/> Accessibility	Total <u>2262</u>
Sub Total <u>2262</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Smith
 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. 69807

Well Name & No. Jeyer #7-35 Test No. 3 Date 09/14/2022
 Company Murfin Drilling Company Inc. Elevation 2372 KB 2367 GL
 Address 250 N Water STE 300 Wichita KS 67202+1216
 Co. Rep / Geo. Curtis Covey Rig Murfin #16
 Location: Sec. 35 Twp 10s Rge. 24w Co. Graham State KS

Interval Tested 3790'-3810' Zone Tested LKC E-7
 Anchor Length 20' Drill Pipe Run 3746' Mud Wt. 9.0
 Top Packer Depth 3785' Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3790' Wt. Pipe Run - WL 5.8
 Total Depth 3810' Chlorides 3800 ppm System LCM 2#

Blow Description 67- BOB 24 mins; Built to 16"
68- Surface to 1/4"; Died @ 10 mins Built to 1 1/4"; Died back to 1/2"
69- BOB 29 mins; Built to 17"
70- Surface to 1/4"; Died @ 30 mins

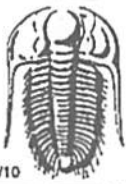
Rec	Feet of	%gas	%oil	%water	%mud
<u>500</u>	<u>SMCW</u>		<u>95</u>	<u>5</u>	
<u>30</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
	<u>100' GIP</u>				

Rec Total 530 BHT 118° Gravity 33° API RW 121 @ 75° F Chlorides 58,000 ppm

(A) Initial Hydrostatic <u>1874</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>13:03</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>13:40</u>
(C) First Final Flow <u>136</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>15:45</u>
(D) Initial Shut-In <u>1030</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:45</u>
(E) Second Initial Flow <u>143</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:53</u>
(F) Second Final Flow <u>265</u>	<input checked="" type="checkbox"/> Mileage <u>10827</u> 162	Comments
(G) Final Shut-In <u>1023</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1857</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility	Total <u>1912</u>
	Sub Total <u>2262</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Staab Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69808

Well Name & No. Neyer #7-35 Test No. 4 Date 09/15/2022
 Company Murfin Drilling Company Inc Elevation 2372 KB 2367 GL
 Address 250 W Water STE 300 Wichita KS 67202+1216
 Co. Rep / Geo. Curtis Covey Rig Murfin #16
 Location: Sec. 35 Twp 10 S Rge. 24 W Co. Graham State KS

Interval Tested 3844' - 3910' Zone Tested LAC A-J
 Anchor Length 66' Drill Pipe Run 3810' Mud Wt. 9.2
 Top Packer Depth 3839' Drill Collars Run 30 Vls 52
 Bottom Packer Depth 3844' Wt. Pipe Run - WL 6.0
 Total Depth 3910 Chlorides 3900 ppm System LCM 2H

Blow Description: 77-Surface Blow; Built to 1/2"
55- No Return
77-Surface Blow
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40'</u>	<u>VSOCM</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40' BHT 112° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1912</u>	<input checked="" type="checkbox"/> Test 1800	T-On Location <u>13:31</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>13:50</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>15:43</u>
(D) Initial Shut-In <u>730</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:43</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:20</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>10827</u> 162	Comments <u>loaded after test</u>
(G) Final Shut-In <u>661</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1912</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2262</u>
	Sub Total <u>2262</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Jural
 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.



CEMENT TREATMENT REPORT

Customer: Murfin Drilling	Well: Geyer #7-35	Ticket: WP 3351
City, State: Wakeeney KS	County: Graham KS	Date: 9/8/2022
Field Rep: Andy	S-T-R: 35-10S-24W	Service: Surface

Downhole Information

Hole Size:	12 1/4 in
Hole Depth:	265 ft
Casing Size:	8 5/8 in
Casing Depth:	262 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	15.2 bbls

Calculated Slurry - Lead

Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	262 ft
Annular Volume:	19.3 bbls
Excess:	
Total Slurry:	47.7 bbls
Total Sacks:	190 sx

Calculated Slurry - Tail

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	
3:56 PM			-	-	Arrived on location
4:06 PM			-	-	Safety meeting
4:16 PM			-	-	Rigged up
5:50 PM			-	-	Casing on bottom
5:54 PM			-	-	Circulated mud
6:04 PM	3.2	100.0	5.0	5.0	Water ahead
6:06 PM	5.5	275.0	47.7	52.7	Mixed 190 sacks H-325 cement @ 14.8 ppg
6:16 PM	4.3	200.0	15.2	67.9	Begin displacment
6:20 PM		125.0		67.9	Plug down and shut in with 5 bbls cement circulated to pit
6:22 PM				67.9	Washed up and rigged down
6:45 PM				67.9	Left location

CREW		UNIT	SUMMARY		
Cementer:	John	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	208	4.3 bpm	175 psi	68 bbls
Bulk #1:	Tyler	194-254			
Bulk #2:					



CEMENT TREATMENT REPORT

Customer: Murfin Drilling Co	Well: Geyer #7-35	Ticket: WP-3393
City, State: Wakeeney KS	County: Graham KS	Date: 9/17/2022
Field Rep: Joel	S-T-R: 35-10S-24W	Service: Longstring

Downhole Information				Calculated Slurry - Lead				Calculated Slurry - Tail			
Hole Size:	7 7/8 in	Blend:	H-LD	Blend:	H-Plug	Weight:	13.8 ppg	Weight:	13.8 ppg		
Hole Depth:	4050 ft	Weight:	14.8 ppg	Water / Sx:	6.5 gal / sx	Water / Sx:	6.9 gal / sx	Yield:	1.42 ft ³ / sx		
Casing Size:	5 1/2 in	Yield:	1.51 ft ³ / sx	Annular Bbbs / Ft.:	0.0309 bbs / ft.	Annular Bbbs / Ft.:	bbs / ft.	Depth:	ft		
Casing Depth:	4050 ft	Annular Volume:	125.1 bbls	Excess:		Annular Volume:	0 bbls	Annular Volume:	12.6 bbls		
Tubing / Liner:	in	Total Slurry:	41.6 bbls	Total Sacks:	155 sx	Total Sacks:	50 sx				
Depth:	ft										
Tool / Packer:	Port collar										
Tool Depth:	2030 ft										
Displacement:	96.0 bbls										

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
3:05a			-	-	Arrival
3:10a			-	-	Safety meeting
4:30a			-	-	Run float equipment
5:58a			-	-	Drop ball
6:15a			-	-	Circulate hole for 30 minutes @ Joint #65
6:45a			-	-	Start run casing down hole
7:05a			-	-	Rlg up
7:30a			-	-	Circulate hole for 1 hour
8:35a	5.2	280.0	5.0	5.0	H2O ahead
8:37a	5.2	280.0	12.0	17.0	Mixed 500 gallons of super flush
8:41a	5.2	280.0	5.0	22.0	H2O behind
8:45a	3.0	150.0	7.5		Mixed 30 sks of H-plug @ 13.8 ppg @ Rat hole
8:48a	3.0	150.0	5.0		Mixed 20 sks of H-plug @ 13.8 ppg @ Mouse hole
8:55a	5.0	490.0	41.6		Mixed 155 sks of H-LD @ 14.8 ppg @ 4050'
9:04a					Shut down and washed up pump and lines
9:05a					Drop plug
9:07a	6.9	310.0	41.6		Displaced H2O
9:30a					Plug down
9:35a					Wash up
9:45a					Rlg down
10:15a					Depart location
					Port collar is on top of joint 53 @ 2030'

CREW		UNIT	SUMMARY		
Cementer:	Jesse	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael	230	4.8 bpm	277 psl	118 bbls
Bulk #1:	Tyler	180-530			
Bulk #2:					

Covey

The Well Watchers

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

Well Name: GEYER #7-35
Location: Section 35 - Township 10S - Range 24 West
Licence Number: 15-065-24223 -00-00 Region: Graham County, KS.
Spud Date: 8 September 2022 Drilling Completed: 16 September 2022
Surface Coordinates: 2,450' FNL & 1,300' FWL
(Approximately SE SE SW NW)

Bottom Hole
Coordinates:
Ground Elevation (ft): 2,367' K.B. Elevation (ft): 2,372'
Logged Interval (ft): 3,360" To: 4,050' Total Depth (ft): 4,050'
Formation: Topeka -----> BKC
Type of Drilling Fluid: Displace @ 3,062' - Chemical, Low Solids/Non-Dispersed
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MURFIN DRILLING COMPANY, INC.
Address: 250 North Water, Suite 300 POC: Bo Beins
Wichita, Kansas 67202
(316) 267-3241

GEOLOGIST

Name: Curtis E. Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby, Kansas 67037
Office: (316) 776-0367 Cell: (316) 217-4679

KB: 3,428'

FORMATION TOPS

GL: 3,423'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
AnHydrite*	1,996' (+376')	1,996' (+376')
B / AnHydrite*	2,030' (+342')	2,030' (+342')
Stotler	3,313' (-941')	3,311' (-939')
Topeka	3,464' (-1,092')	3,462' (-1,090')
Oread	3,628' (-1,256')	3,627' (-1,255')
Heebner SH	3,681' (-1,309')	3,680' (-1,308')
Lansing	3,719' (-1,349')	3,720' (-1,348')
Stark Sh	NC	3,914' (-1,542')
Mound City	3,953' (-1,581')	3,956' (-1,584')

* Rig Provide ROP

RTD: 4,050' LTD: 4,048' ATD: 4,047'

Float:
Rotary Sample Depth is 0' - 2' low to E-log Depth
for the logged interval: 3,360' - 4,050' (RTD).

E-Loggers:
Midwest Wireline ... Hays, KS.

DST #1 - LANSING "A"

Rotary Depth: 3,687' - 3,744'
Logger's Depth: 3,686' - 3,743'

IFP: 76# - 287# / 30"
ISIP: 997# / 60"
FFP: 313# - 444# / 30#
FSIP: 989# 60"
117 deg F
MH: 1,784# - 1,741#

Recovery:
820' Gas in Pipe
1,210' Gassy OIL
10' Hvy Mud cut Water
..... (30%M, 70%W)
IF: Blow built to 8.5 inches.
ISI: No Blow.
FF: Bottom of Bucket in 11 minutes
FSI: No Blow.

Recovery Water: (52,000 ppm)
System Water: (1,200 ppm)
Reported Rw =
.22 @ 77.5 deg F
Recovery Water Mud Engineer:
NA
Trilobite Testing, Inc.
Hays, KS.

DST #2 - LANSING "B / D"

Rotary Depth: 3,739' - 3,788'
Logger's Depth: 3,737' - 3,786'

IFP: 19# - 32# / 30"
ISIP: 734# / 60"
FFP: 33# - 41# / 60#
FSIP: 647# 90"
112 deg F
MH: 1,845# - 1,835#

Recovery: 50' OIL speckled Mud
IF: Surface Blow built to 1.5 inches.
ISI: No Blow.
FF: No Blow
FSI: No Blow.

Recovery Water: NA
System Water: (1,200 ppm)
Reported Rw = NA
Recovery Water Mud Engineer:
NA
Trilobite Testing, Inc.
Hays, KS.

DST #3 - LANSING "E / F"

Rotary Depth: 3,790' - 3,810'
Logger's Depth: 3,788' - 3,818'

IFP: 33# - 136# / 30"
ISIP: 1,030# / 60"
FFP: 143# - 265# / 60#
FSIP: 1,023# 90"
118 deg F
MH: 1,845# - 1,835#

Recovery:
100' Gas in Pipe
30' Gassy OIL (10%G, 90% O)
500' Slightly Mud cut Water
..... (5%M, 95%W)
IF: Bottom of Bucket in 24".
ISI: Surface Blow built to 1.25 inches, died back to 0.5 inch.
FF: Bottom of Bucket in 29".
FSI: Surface Blow built to 0.25 inch, died in 30".

Recovery Water: (58,000 ppm)
System Water: (1,200 ppm)
Reported Rw =
.121 @ 75 deg F
Recovery Water Mud Engineer:
NA
Trilobite Testing, Inc.
Hays, KS.

DST #4 - LANSING "H / I / J"

Rotary Depth: 3,844' - 3,910'
Logger's Depth: 3,842' - 3,908'

IFP: 22# - 35# / 30"
ISIP: 730# / 60"
FFP: 38# - 41# / 30"
FSIP: 661' / 60"
112 deg F
MH: 1,912# - 1,912#

Recovery:
40' very Slight OIL cut Mud
..... (1%O, 99%W)
IF: Surface Blow, built to 0.5 inch.
ISI: No Blow back.
FF: Surface Blow.
FSI: No Blow back.

Recovery Water: NA
System Water: (1,200 ppm)
Reported Rw = NA
Recovery Water Mud Engineer:
NA
Trilobite Testing, Inc.
Hays, KS.

12/1/4" Hole (Surface)

7-7/8" Hole (Vertical)

7-7/8" Hole (Vertical)

8 August --- Spud @ 12pm.
 Drill to 265' @ 3:45pm.
 Ran 8-5/8" (23#) casing.
 Set @ 262'. 375 sx H-325
 (2%CC + 3% Gel).
 Circ 5 Bbls.
 [Hurricane Services]
 Plug Down @ 6:15pm.
 WOC.

9 August --- WOC.
 U / S @ 2:15am.
 7am @ 570'.
 10 --- 7am @ 2,040'.
 11 --- 7am @ 3,000'.
 12 --- 7am @ 3,600'. Start and
 13 --- Finish DST #1: Lansing A
 (3,687' - 3,744').
 7am @ 3,744'. Mix Mud.
 Resuming Drilling @ 1:15pm.
 Start and
 14 --- Finish DST #2: Lansing B & D
 (3,739' - 3,788').
 7am @ 3,788'.
 Resumed Drilling @ 8:19am.
 DST #3: Lansing E & F.
 (3,790' - 3,810').

15 August --- Resumed Drilling
 @ 12:45am.
 7am @ 3,886'.
 DST #4: Lansing H / I / J
 (3,844' - 3,910').
 Resumed Drilling
 @ 11pm.
 16 --- 7am @ 4,005'.
 RTD (4,050') @ 9:30am.
 E-Logging
 {Midwest Wireline}

HOLE DEVIATION (265' - 4,050' MD)

12-1/4" Surface Hole

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
265' /	0.25 (Surface Casing)						

7-7/8" Vertical Hole

3,744' /	1.25 (DST #1)
4,050' /	1.00 (RTD)

Strap @ DST #1 ---
 Strap: 3,740.53'
 Board: 3,741.02'
 Diff: 0.49'

Inclination Surveys provided by Murfin Drilling - Rig #16

CONTRACTOR

Murfin Drilling Co, Inc. --- Rig #16

250 North Water, Suite 300
 Wichita, Kansas 67202
 Office: (316) 267-3241

Murfin #16 - (785) 443-1677
 Toolpusher: Andy Dinkel - (316) 443-2379

Pump: EMSCO D-375
 6" x 14" @ 60 SPM.
 700 PSI @ Standpipe. *
 Drill Pipe: 4.5" XH. (16.4# / ft -used)

Drill Collars: 6.25" x 2.25" --- 527'. (91#/ft)
 Dry Collar Weight: 47,957#
 Bouyancy Collar Weight: 41,459#
 (@ 8.9 ppg / Buoyancy Factor 0.8645)
 Design Factor: 15% held back to keep
 drill string straight, therefore:
 available calculated WOB is 35,240#

Check Weight Indicator @ 3,137'.
 Calculated String Weight (87,924#) -vs- Observed WI (87,500#).
 WI is weighing LIGHT by 0.5%
 Therefore: Calculated WOB of 35,240# will show 37,002# on WI.

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
SURFACE ---							
8 August 2022	12-1/4"	REED TCH (IADC)	15's	0' / 265'	265'	3.75	70.7 (ft/hr)
VERTICAL ---							
9 August 2022	7-7/8"	SMITH FH-1 (396)	16 - 18 - 16	265' / 4,050'	3,785'	90.50	41.8

ROCK TYPES

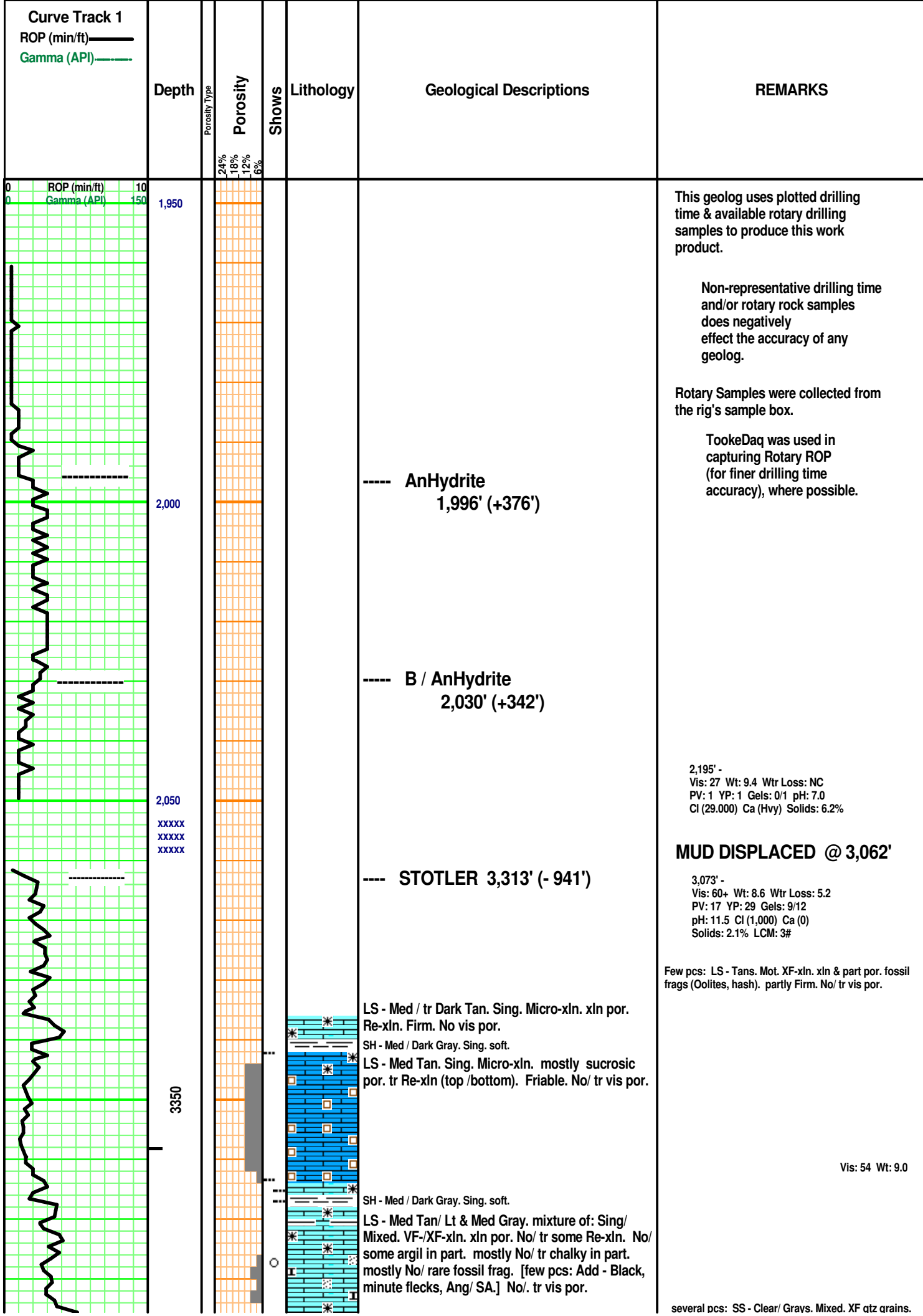
<p>POROSITY</p> <ul style="list-style-type: none"> E F X Inter Moldic Organic P V <p>LITHOLOGY</p> <ul style="list-style-type: none"> Anhy Bent Brec Cht Clyst Coal Granite wash Congl Dol lmst Silty dol 	<ul style="list-style-type: none"> Calc dol Dol 2 Dol Gyp Igne Lmst 2 Lmst Silty ls Meta Mrst Salt Shale 3 Shale 3 Shale Shcol Shgy Sltst Ss Till Ss 2 	<p>MINERAL</p> <ul style="list-style-type: none"> Mica Anhy Arggrn Arg Bent Bit Brecfrag Calc Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl 	<ul style="list-style-type: none"> Minxl Nodule Phos Pyr Salt Sandy Silt Sil Sulphur Tuff Copper Ooliticastic Ooloid Oolite Sucrosic Dark specks <p>STRINGER</p> <ul style="list-style-type: none"> Dol ls 	<ul style="list-style-type: none"> Arg Bent Coal Dol Gyp Ls Mrst Calc dol Sltstrg Ssstrg Chalk New symbol <p style="text-align: center;">SHOW</p> <ul style="list-style-type: none"> Oil Spotted Ques Dead Gas Oil/gas Bed contact
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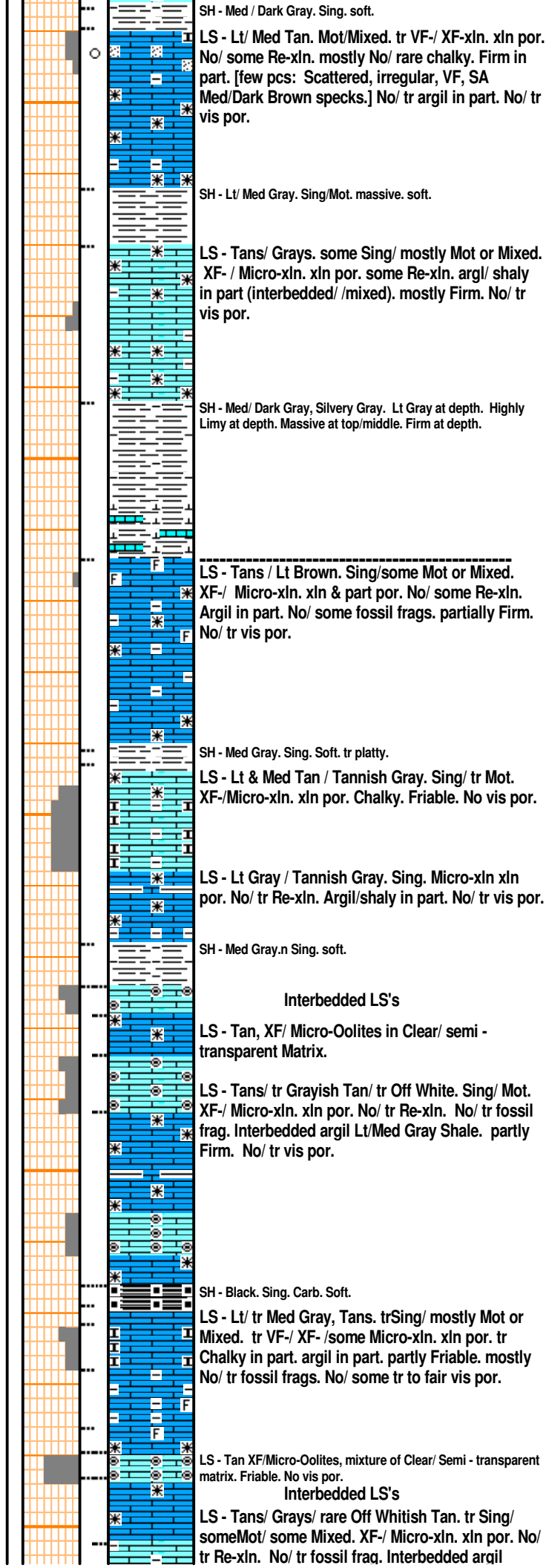
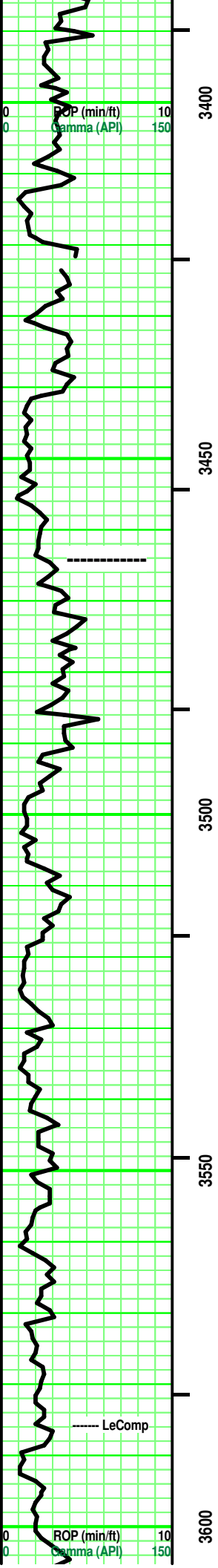
ACCESSORIES

<p>FOSSIL</p> <ul style="list-style-type: none"> Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Spore Crin Echin Fish Foram Fossil Gastro 	<ul style="list-style-type: none"> Oolite Ostra Pelec Pellet Pisolite Plant Strom <p>MINERAL</p> <ul style="list-style-type: none"> Mica Anhy Arggrn Arg Bent Bit Brecfrag 	<ul style="list-style-type: none"> Calc Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl Minxl Nodule Phos 	<ul style="list-style-type: none"> Pyr Salt Sandy Silt Sil Sulphur Tuff Copper Ooliticastic Ooloid Oolite Sucrosic Dark specks <p>STRINGER</p> <ul style="list-style-type: none"> Dol ls 	<ul style="list-style-type: none"> Silty dol Anhy Arg Bent Coal Dol Gyp Ls Mrst Calc dol Sltstrg Ssstrg Chalk New symbol
--	---	--	---	--

OTHER SYMBOLS

<p>ACTIVITY</p> <ul style="list-style-type: none"> Lost circluation Circulate for same 	<ul style="list-style-type: none"> Circulate for same Rtd Trip 	<ul style="list-style-type: none"> EVENT Connection Rft 	<ul style="list-style-type: none"> Sidewall
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SA/SR. mod sph. vitreous luster. mostly point/ some sutured grain contact. Micaeous. Highly silty. partly Firm. tr vis por.

SH - Lt/ Med Tan. Mot/Mixed. tr VF-/ XF-xln. xln por. No/ some Re-xln. mostly No/ rare chalky. Firm in part. [few pcs: Scattered, irregular, VF, SA Med/Dark Brown specks.] No/ tr argil in part. No/ tr vis por.

SH - Lt/ Med Gray. Sing/Mot. massive. soft.

LS - Tans/ Grays. some Sing/ mostly Mot or Mixed. XF- / Micro-xln. xln por. some Re-xln. argl/ shaly in part (interbedded/ /mixed). mostly Firm. No/ tr vis por.

Vis: 50 Wt: 9.1

SH - Med/ Dark Gray, Silvery Gray. Lt Gray at depth. Highly Limy at depth. Massive at top/middle. Firm at depth.

TOPEKA LS
3,464' (-1,092')

Vis: 51 Wt: 9.1

LS - Tans / Lt Brown. Sing/some Mot or Mixed. XF-/ Micro-xln. xln & part por. No/ some Re-xln. Argil in part. No/ some fossil frags. partially Firm. No/ tr vis por.

SH - Med Gray. Sing. Soft. tr platty.

LS - Lt & Med Tan / Tannish Gray. Sing/ tr Mot. XF-/Micro-xln. xln por. Chalky. Friable. No vis por.

LS - Lt Gray / Tannish Gray. Sing. Micro-xln xln por. No/ tr Re-xln. Argil/shaly in part. No/ tr vis por.

SH - Med Gray, n Sing. soft.

Interbedded LS's

LS - Tan, XF/ Micro-Oolites in Clear/ semi-transparent Matrix.

LS - Tans/ tr Grayish Tan/ tr Off White. Sing/ Mot. XF-/ Micro-xln. xln por. No/ tr Re-xln. No/ tr fossil frag. Interbedded argil Lt/Med Gray Shale. partly Firm. No/ tr vis por.

Vis: 55 Wt: 9.2

SH - Black. Sing. Carb. Soft.

LS - Lt/ tr Med Gray, Tans. tr Sing/ mostly Mot or Mixed. tr VF-/ XF-/some Micro-xln. xln por. tr Chalky in part. argil in part. partly Friable. mostly No/ tr fossil frags. No/ some tr to fair vis por.

DST #1: LANSING 'A' (3,687' - 3,744')

Rec: 820' Gas in Pipe
1,210' Gassy OIL
10' HMcWtr (30%M, 70%W)

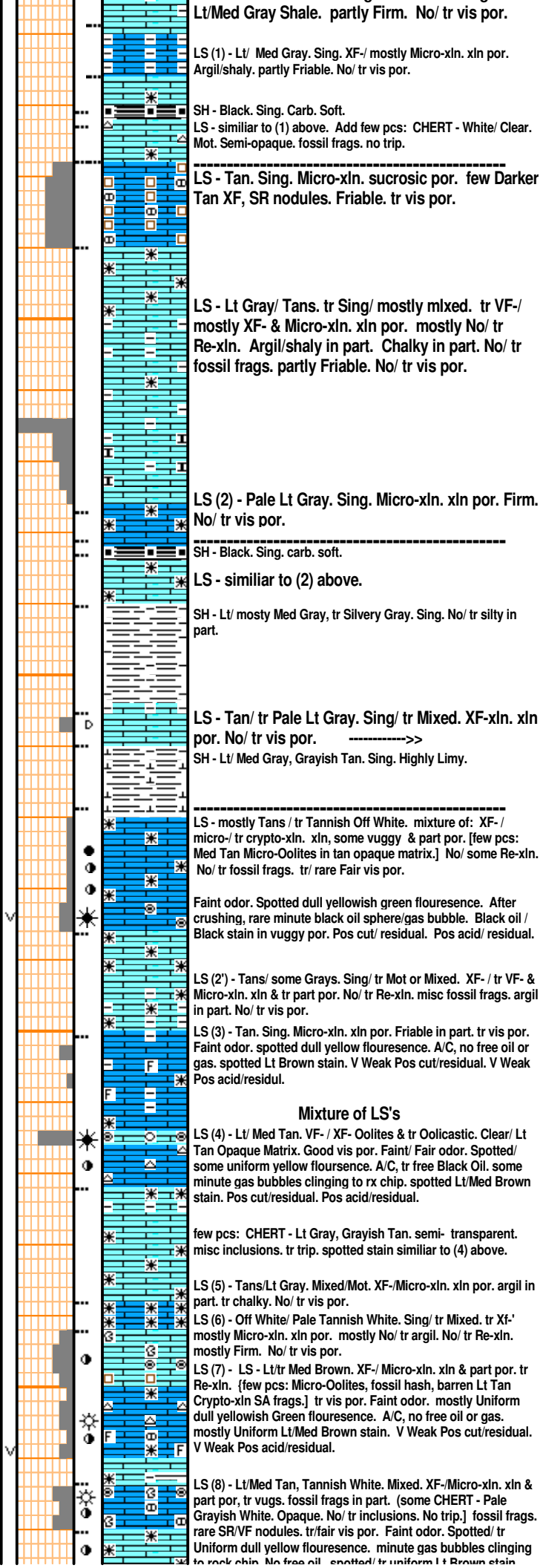
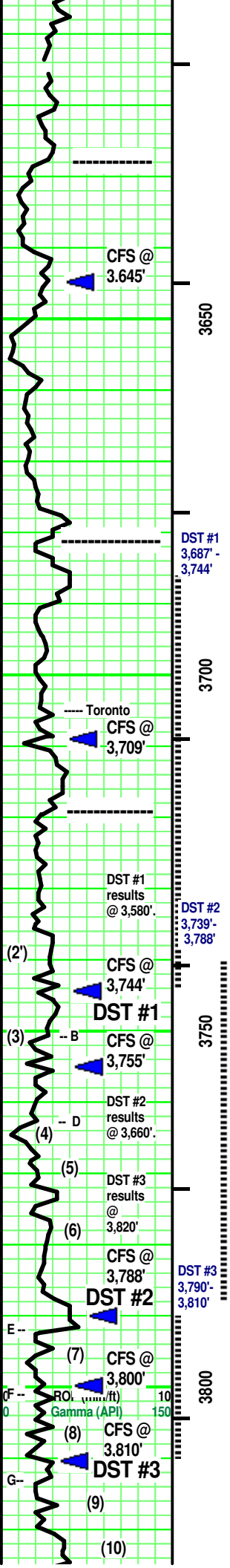
IFP: 76# - 287# / 30" 1 Blow: BOB 3"
ISIP: 997# / 60" 2 Blow: BOB 5"
FFP: 313# - 444# / 30#
FSIP: 989# 60" CI (52,000)
MH: 1,784# - 1,741#
117 deg F Rw+0.133 ohms @ 80F

LS - Tan XF/Micro-Oolites, mixture of Clear/ Semi-transparent matrix. Friable. No vis por.

Interbedded LS's

LS - Tans/ Grays/ rare Off Whitish Tan. tr Sing/ someMot/ some Mixed. XF-/ Micro-xln. xln por. No/ tr Re-xln. No/ tr fossil frag. Interbedded argil

3,604' -
Vis: 54 Wt: 9.0



vis: 34 Wt: 5.0 Wtr Loss: 5.4
 PV: 16 YP: 25 Gels: 9/15
 pH: 11.0 Cl (1,000) Ca (0)
 Solids: 4.9% LCM: 3#

-- OREAD
 3,628' (-1,256')

-- CFS @ 3,645': 45"

DST #1: LANSING 'B/D' (3,739' - 3,788')
 Rec: 50' OIL spkd Mud
 IFP: 19# - 32# / 30" 1Blow: Surface
 ISIP: 734# / 60" to 1.5 inch
 FFP: 33# - 41# / 60# 2Blow: No Blow
 FSIP: 647# 90"
 MH: 1,845# - 1,835# 112 deg F

-- HEEBNER SH
 3,681' (-1,309')

No odor. No free oil or gas. No fluorescence. Minute, random, VF, Ang/SA, Med / Dark Brown residual flecks. V Weak Pos cut/residual. V Weak Pos acid/residual.

-- CFS @ 3,709': 45" Vis: 55
 Wt: 9.2+
 LCM: 3#

-- LANSING
 3,719' (-1,347')

T/O on DST #1 (3,744') -
 Vis: 37 Wt: 8.8 Wtr Loss: 5.4
 PV: 16 YP: 17 Gels: 7 / 9
 pH: 10.5 Cl (1,200) Ca (40)
 Solids: 3.6% LCM: 2#

(7' Fillup on bottom - DST #1)

xxxxx DST #1 @ 3,744' xxxxx
 ^ S/T: 21 stands. (Tite Hole.)
 ^ CHC: 2 hours.
 Work Kelly (15"). Check sample box for volume/type of fill. (Evening Tour 1 man short.)
 ^ Hole Dev: 1.25 deg @ 3,744'.
 ^ Strap: 3,740.53' Vis: 46
 Board: 3,741.02' Wt: 9.1
 Diff: 0.49'
 ^ DST #1: Lansing A.
 -- CFS @ 3,755': 45"

After DST #2 ... 3,789' - Vis: 51 Wt: 9.0
 Wtr Loss: 5.8 PV: 12 YP: 25
 Gels: 8/15 pH: 10.5 Cl (3800)
 Ca (tr) Solids: 4.8% LCM: 2#

xxxxx DST #2 @ 3,788' xxxxx
 ^ CFS @ 3,788': 45"
 ^ S/T: 10 stands.
 ^ CHC: 60".
 Work Kelly (15"). Check sample box for volume/type of fill.

CFS @ 3,800': 45".
 Vis: 51 Wt: 9.1 LCM: 2#

xxxxx DST #3 @ 3,810' xxxxx
 ^ CFS @ 3,810': 45"

DST #3: LANSING 'E/F' (3,790' - 3,810')
 Rec: 100' GIP, 30' Gsy OIL, 500' sMcWtr
 IFP: 33# - 136# / 30" 1F: BOR 24" 33 deg OIL

Lt/Med Gray Shale. partly Firm. No/ tr vis por.

LS (1) - Lt/ Med Gray. Sing. XF-/ mostly Micro-xln. xln por. Argil/shaly. partly Friable. No/ tr vis por.

SH - Black. Sing. Carb. Soft.
 LS - similar to (1) above. Add few pcs: CHERT - White/ Clear. Mot. Semi-opaque. fossil frags. no trip.

LS - Tan. Sing. Micro-xln. sucrosic por. few Darker Tan XF, SR nodules. Friable. tr vis por.

LS - Lt Gray/ Tans. tr Sing/ mostly mxled. tr VF-/ mostly XF- & Micro-xln. xln por. mostly No/ tr Re-xln. Argil/shaly in part. Chalky in part. No/ tr fossil frags. partly Friable. No/ tr vis por.

LS (2) - Pale Lt Gray. Sing. Micro-xln. xln por. Firm. No/ tr vis por.

SH - Black. Sing. carb. soft.
 LS - similar to (2) above.
 SH - Lt/ mostly Med Gray, tr Silvery Gray. Sing. No/ tr silty in part.

LS - Tan/ tr Pale Lt Gray. Sing/ tr Mixed. XF-xln. xln por. No/ tr vis por. ----->>
 SH - Lt/ Med Gray, Grayish Tan. Sing. Highly Limy.

LS - mostly Tans / tr Tannish Off White. mixture of: XF- / micro- / tr crypto-xln. xln, some vuggy & part por. [few pcs: Med Tan Micro-Oolites in tan opaque matrix.] No/ some Re-xln. No/ tr fossil frags. tr/ rare Fair vis por.
 Faint odor. Spotted dull yellowish green fluorescence. After crushing, rare minute black oil sphere/gas bubble. Black oil / Black stain in vuggy por. Pos cut/ residual. Pos acid/ residual.

LS (2') - Tans/ some Grays. Sing/ tr Mot or Mixed. XF- / tr VF- & Micro-xln. xln & tr part por. No/ tr Re-xln. misc fossil frags. argil in part. No/ tr vis por.

LS (3) - Tan. Sing. Micro-xln. xln por. Friable in part. tr vis por. Faint odor. spotted dull yellow fluorescence. A/C, no free oil or gas. spotted Lt Brown stain. V Weak Pos cut/residual. V Weak Pos acid/residual.

Mixture of LS's

LS (4) - Lt/ Med Tan. VF- / XF- Oolites & tr Oolitic. Clear/ Lt Tan Opaque Matrix. Good vis por. Faint/ Fair odor. Spotted/ some uniform yellow fluorescence. A/C, tr free Black Oil. some minute gas bubbles clinging to rx chip. spotted Lt/Med Brown stain. Pos cut/residual. Pos acid/residual.

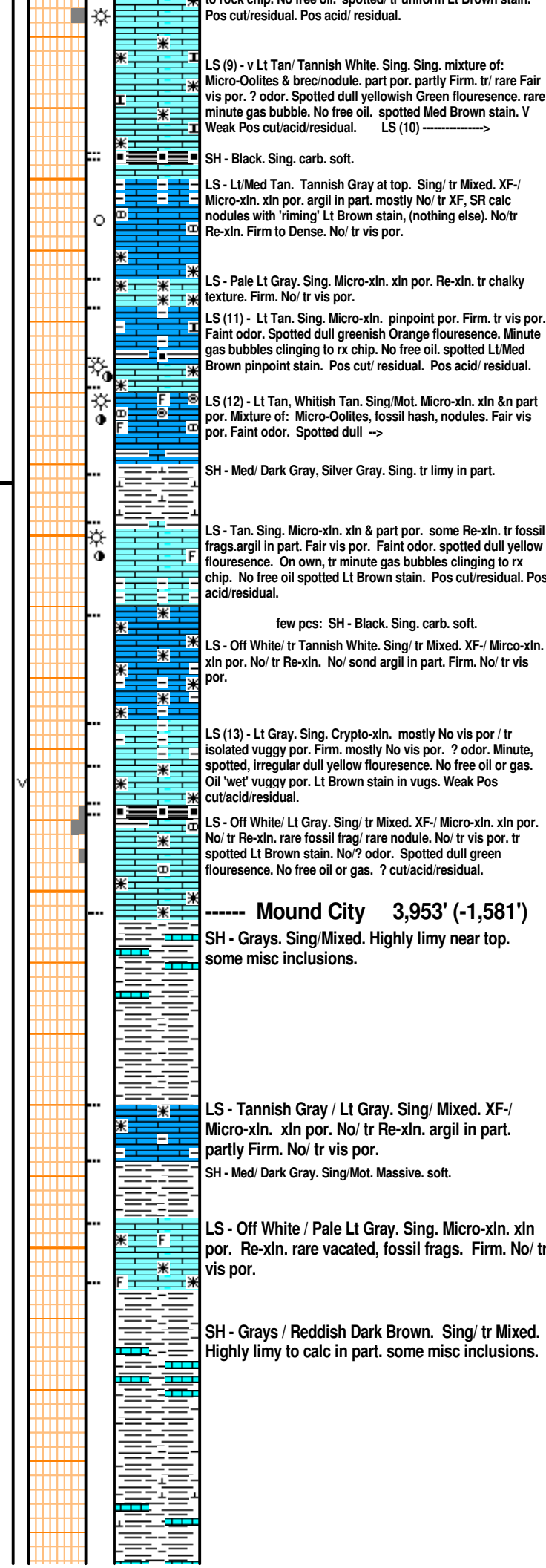
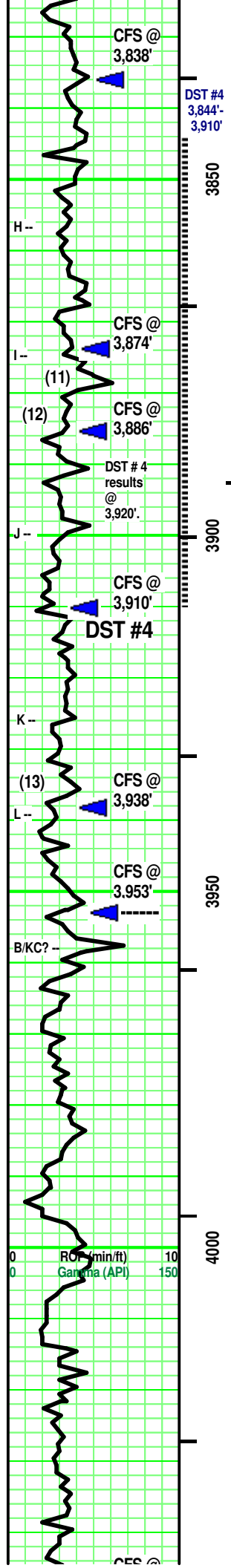
few pcs: CHERT - Lt Gray, Grayish Tan. semi-transparent. misc inclusions. tr trip. spotted stain similar to (4) above.

LS (5) - Tans/Lt Gray. Mixed/Mot. XF-/Micro-xln. xln por. argil in part. tr chalky. No/ tr vis por.

LS (6) - Off White/ Pale Tannish White. Sing/ tr Mixed. tr Xi- mostly Micro-xln. xln por. mostly No/ tr argil. No/ tr Re-xln. mostly Firm. No/ tr vis por.

LS (7) - LS - Lt/tr Med Brown. XF- / Micro-xln. xln & part por. tr Re-xln. [few pcs: Micro-Oolites, fossil hash, barren Lt Tan Crypto-xln SA frags.] tr vis por. Faint odor. mostly Uniform dull yellowish Green fluorescence. A/C, no free oil or gas. mostly Uniform Lt/Med Brown stain. V Weak Pos cut/residual. V Weak Pos acid/residual.

LS (8) - Lt/Med Tan, Tannish White. Mixed. XF-/Micro-xln. xln & part por, tr vugs. fossil frags in part. (some CHERT - Pale Grayish White. Opaque. No/ tr inclusions. No trip.) fossil frags. rare SR/VF nodules. tr/fair vis por. Faint odor. Spotted/ tr Uniform dull yellow fluorescence. minute gas bubbles clinging to rock chip. No free oil. spotted/ tr uniform Lt Brown stain.



to rock chip. No free oil. spotted / tr almost Lt Brown stain.
 Pos cut/residual. Pos acid/ residual.

ISIP: 1,030# / 60" 2F: BOB 29" Cl (58,000)
 FFP: 143# - 265# / 60" 118 deg F
 FSIP: 1,023# 90" Rw= 0.121 ohms
 MH: 1,845# - 1,835# @ 75 dea F.

 <-- CFS @ 3,838': 45".

LS (10) - Whitish Tan. Sing. tr XF-/ Micro-xln. xln & tr minute vuggy por. Firm. No/ tr vis por. Faint odor. spotted dull Green fluorescence. On own, few pcs-minute gas bubbles clinging to rx chip. No free oil spotted Black stain. v Weak Pos cut / residual. v Weak Pos acid/residual.

 <-- CFS @ 3,874': 45".

(12) greenish Orange fluorescence. Minute gas bubbles clinging to rx chip. Lt/Med Brown part por stain. Pos cut/ residual. Pos acid/ residual.

 <-- CFS @ 3,886': 45".
 ^--- 3,886' - Vis: 52 Wt: 9.2 Wtr Loss: 6.0
 PV: 16 YP: 25 Gels: 12/25 pH: 10.5
 Cl (3,900) Ca (20) Solids: 6.3% LCM: 2#

 Vis: 52 Wtl 9.2
 xxxxxx DST #4 @ 3,910' xxxxxx
 ^--- CFS @ 3,910': 45".

 DST #4: LANSING 'H/I/J' (3,844' - 3,910')
 Rec: 40' v Sit OIL c Mud ... (1%O,99%W)
 IFP: 22# - 35# / 30" MH: 1,912# - 1,912#
 ISIP: 730# / 60" 112 deg F
 FFP: 38# - 41# / 30" IF: Surface -> .5 inch.
 FSIP: 661' / 60" FF: Surface Blow.

 Vis: 48 Wt: 9.4 LCM: 1#

 <-- CFS @ 3,938': 45".

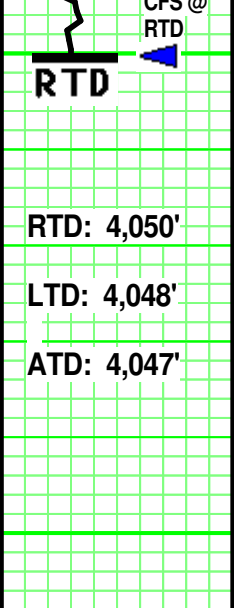
 <-- CFS @ 3,953': 45".

 Mound City 3,953' (-1,581')
 SH - Grays. Sing/Mixed. Highly limy near top. some misc inclusions.

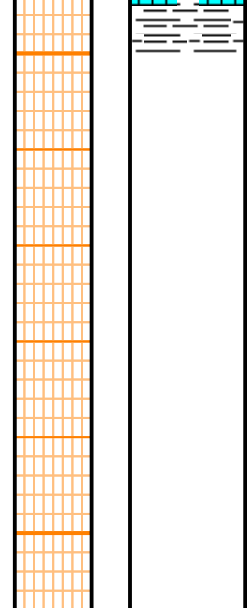
 Vis: 54 Wt: 9.3

 4,018' -
 Vis: 52 Wt: 9.3 Wtr Loss: 6.0
 PV: 12 YP: 26 Gels: 10/27
 pH: 10.0 Cl (2,400) Ca (80)
 Solids: 7.0% LCM: 1#

?? Hole in pipe ?? ----->>



4050



GEYER # 7- 35
 2,450' FNL & 1,300' FWL 35 - T10S - R24W
 Graham County, Kansas

MURFIN DRILLING CO., INC.
 Wichita, Kansas

xxxxxxx RTD @ 4,050' xxxxxxxx

- ^--- CFS @ 4,050' (RTD): 45".
- ^--- S/T: 10 stands. (Tite on a few.)
- ^--- CHC: 60"
- Work Kelly slowly (15").
- Check Sample Box for volume & type of fill.
- ^--- Hole Dev: 1 deg @ RTD.
- ^--- T/O.
- ^--- E-Log [Midwest Wireline]

Geologist:
 Curtis Covey
 COVEY - The Well Watchers
 Well Number: 1,196