

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	MJ UNIT 1-10
Doc ID	1673618

All Electric Logs Run

DIL
DUCP
MEL
BHCS

GEOLOGICAL REPORT

Marc R. Summerville

39.802302
-101.609983
NAD 27 KS ZONE
X=963204
Y=956105

COMPANY & WELL **Murfin Drilling Company, Inc.**
LOCATION **830' FSL 200' FWL SW NW SW SW SW**
SEC **10** TWP **35** RGE **39W**
COUNTY **Cheyenne** STATE **KS**

COMPANY **Murfin Drilling Company, Inc.**
API # **15-023-21582-0000** FIELD **WC**
LEASE **MJ** WELL # **#1-10**
LOCATION **SW NW SW SW SW**
SURVEY **830' FSL 200' FWL**
SECTION **10** TWP **35** RGE **39W**
COUNTY **Cheyenne** STATE **Kansas**

CONTRACTOR **Murfin Drilling** Rig # **110**
SPUD **09-20-22** COMP. **09-29-22**
RTD **5189'** 5187'
MUD UP AT **3811'**
MUD TYPE **Chemical, Morgan Mud, Dave Lines**

DRILLING SAVED FROM 3930' to **RTD**
SPRILLING TIME FROM 3930' to **RTD**
SAMPLES EXAMINED FROM 3900' to **RTD**
GEOLOGICAL SUPERVISION FROM 3800' to **RTD**
WELLSITE GEOLOGIST **Marc R. Summerville**

ELEVATIONS
K.B. **3424**
D.F.
G.L. **3419**
All measurements from K.B. **3424**

CASING RECORD
Conductor of **8 5/8"** w/ **300** wt
Surface of **8 5/8"** w/ **300** wt
Production of **8 5/8"** w/ **23#**

Well Comparison Sheet

KB =	MURFIN DRILL CO MU UT 1-10 SW NW SW SW SW Sec. 10-38-39W			MURFIN DRILL CO MU UT 1-10 SW NW SW SW SW Sec. 10-38-39W			MURFIN DRILL CO HELENE 1-10 S2 N2 NE NE Sec. 10-38-39W			MURFIN DRILL CO KMM 1-22 N2 NE SE Sec. 22-38-39W		
	Depth	Subsea	Well Depth	Depth	Subsea	Well Depth	Compare	Depth	Subsea	Well Depth	Compare	
3291	133	3318	733	3268	733	3263	747	-3	3306	760	-22	
3318	709	3318	709	3316	709	3289	715	-6	3337	729	-20	
4020	-596	4020	-596	4026	-601	3893	-589	-12	4062	-566	-5	
4109	-685	4110	-686	4110	-686	4084	-680	-6	4148	-682	-4	
4145	-721	4145	-721	4152	-726	4120	-716	-12	4184	-718	-10	
4160	-768	4160	-768	4168	-764	4162	-769	-6	4234	-769	4	
4248	-824	4248	-824	4263	-820	4220	-816	-13	4295	-829	0	
4286	-844	4286	-844	4274	-850	4245	-841	-9	4314	-848	-3	
4319	-888	4319	-888	4321	-892	4294	-890	-7	4356	-890	-7	
4368	-932	4368	-932	4368	-944	4338	-934	-10	4405	-939	-5	
4370	-946	4370	-946	4387	-963	4353	-949	-14	4418	-952	-17	
4418	-994	4418	-994	4440	-1019	4410	-1006	-10	4474	-1008	-8	
4466	-1042	4466	-1042	4466	-1052	4457	-1053	-9	4519	-1053	-9	
4518	-1091	4518	-1091	4540	-1116	4509	-1105	-11	4565	-1099	-17	
4535	-1111	4535	-1111	4567	-1133	4529	-1123	-8	4586	-1120	-3	
4539	-1108	4539	-1108	4562	-1120	4555	-1117	-7	4614	-1140	-10	
4587	-1163	4587	-1163	4608	-1182	4600	-1176	-6	4641	-1175	-7	
4696	-1172	4696	-1172	4616	-1192	4587	-1183	-9	4648	-1182	-10	
4610	-1166	4610	-1166	4638	-1204	4620	-1196	-8	4622	-1166	-8	
4632	-1208	4632	-1208	4645	-1217	4623	-1219	-2	4687	-1221	0	
4684	-1240	4684	-1240	4684	-1260	4657	-1253	-7	4720	-1254	-8	
4689	-1265	4689	-1265	4703	-1279	4679	-1275	-4	4746	-1279	0	
4720	-1298	4720	-1298	4749	-1325	4717	-1313	-12	4778	-1312	-13	
4760	-1336	4760	-1336	4804	-1360	4762	-1348	-12	4815	-1349	-17	
4784	-1360	4784	-1360	4784	-1378	4773	-1369	-9	4837	-1371	-7	
4839	-1403	4839	-1403	4826	-1402	4799	-1395	-7	4860	-1394	-8	
4839	-1389	4839	-1389	4823	-1409	4805	-1407	-7	4867	-1407	-7	
4888	-1484	4888	-1484	4923	-1489	4850	-1488	-13	4955	-1489	-10	
4892	-1468	4892	-1468	5012	-1508	4987	-1505	-3	5045	-1519	-9	
4919	-1508	4919	-1508	5121	-1607	5099	-1605	-2	5121	-1655	-42	
5189	-1765	5189	-1765	5189	-1765	5200	-1796	37	5200	-1734	-31	
LTD	3424	5187	-1763	5187	-1763	5186	-1792	29	5200	-1734	-29	

REMARKS & RECOMMENDATIONS:
After testing all significant shows of oil the decision was taken to plug and abandon this well.

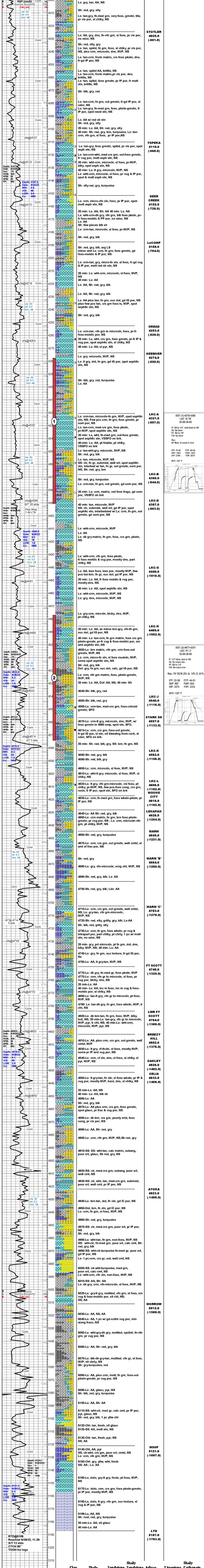
ROCK TYPES

Dol/prim	Mrlstcalc	Shblck	Arg/Shale	Librec
Dolmsc	Ss	Shool	Dol Lime	Lscong
Lmsc	Shgy	Silst	Coal grst	

ACCESSORIES

MINERAL	FOSSIL	STRINGER	DUNHAM	OIL SHOWS	INTERVALS
Argillaceous Calcareous Chert Chert Pebble, white Dolomitic Glauconite Pyrite	Bioelastic or Fragment Conoid Coilite	Limestone	Grainst	Even Stn Spotted Stn 50 - 75 % Spotted Stn 25 - 50 % Questionable Stn Dead Oil Stn Fluorescence	Core DST

Printed by GEOSTRP VC Striplog version 4.0.8.15 (www.grsci.ca)



Clay Shale Sandstone Shaly Sandstone Arkose Limestone Carbonate

Clay	Shale	Sandstone	Shaly Sandstone	Arkose	Limestone	Carbonate
Dolomite	Dolomite	Gypsum	Anhydrite	Salt	Coal	

COMPANY **Murfin Drilling Company, Inc.**
API # **15-023-21582** FIELD **WC**
LEASE **MJ** WELL # **#1-10**
LOCATION **SW NW SW SW SW**
SURVEY **830' FSL 200' FWL**
SECTION **10** TWP **35** RGE **39W**
COUNTY **Cheyenne** STATE **Kansas**

ELEVATIONS
K.B. **3424**
D.F.
G.L. **3419**
All measurements from K.B. **3424**



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Marc Summervill

MJ Unit #1-10

10-3s-39w Cheyenne,KS

Start Date: 2022.09.25 @ 10:52:00

End Date: 2022.09.25 @ 18:14:51

Job Ticket #: 69652 DST #: 1

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

Printed: 2022.09.29 @ 08:19:54

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

MJ Unit #1-10

DST # 1

LKC "A - D"

2022.09.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69652

DST#: 1

ATTN: Marc Summervill

Test Start: 2022.09.25 @ 10:52:00

GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:51:51

Time Test Ended: 18:14:51

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4278.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3424.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3419.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 63.82 psig @ 4279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.25

End Date:

2022.09.25

Last Calib.:

2022.09.25

Start Time: 10:52:01

End Time:

18:14:51

Time On Btm:

2022.09.25 @ 12:51:36

Time Off Btm:

2022.09.25 @ 15:56:21

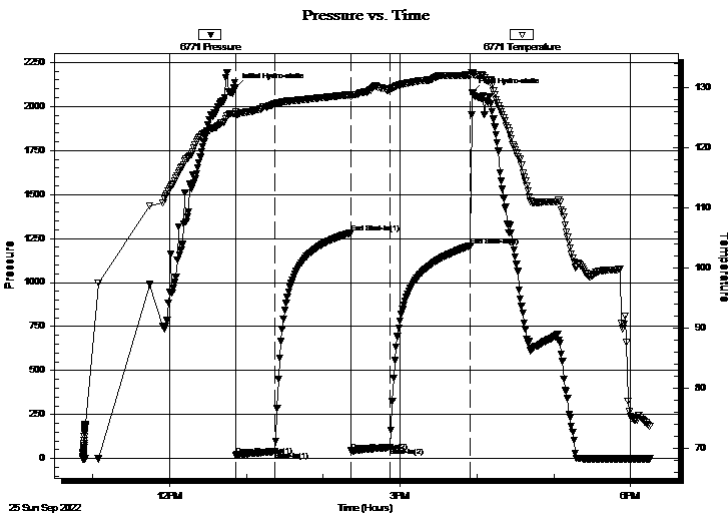
TEST COMMENT: 30 - IF: Blow built to 1/4", died back to surface blow

60 - IS: No blow

30 - FF: Blow built to 1/8"

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.05	125.97	Initial Hydro-static
1	19.48	125.39	Open To Flow (1)
31	39.86	127.23	Shut-In(1)
90	1283.58	128.81	End Shut-In(1)
91	43.47	128.49	Open To Flow (2)
121	63.82	129.67	Shut-In(2)
184	1209.59	132.06	End Shut-In(2)
185	2078.89	132.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100%	0.44
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69652

DST#: 1

ATTN: Marc Summervill

Test Start: 2022.09.25 @ 10:52:00

Tool Information

Drill Pipe:	Length: 4080.00 ft	Diameter: 3.80 inches	Volume: 57.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4278.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	145.00 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			4246.00	
Shut In Tool	5.00			4251.00	
Hydraulic tool	5.00			4256.00	
Jars	5.00			4261.00	
EM Tool	4.00			4265.00	
Safety Joint	3.00			4268.00	
Packer	5.00			4273.00	33.00 Bottom Of Top Packer
Packer	5.00			4278.00	
Stubb	1.00			4279.00	
Recorder	0.00	6771	Inside	4279.00	
Recorder	0.00	8367	Outside	4279.00	
Perforations	10.00			4289.00	
Blank Spacing	96.00			4385.00	
Perforations	2.00			4387.00	
Bullnose	3.00			4390.00	112.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69652

DST#: 1

ATTN: Marc Summervill

Test Start: 2022.09.25 @ 10:52:00

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: 79.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud 100%	0.443
0.00	Oil spots in tool	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

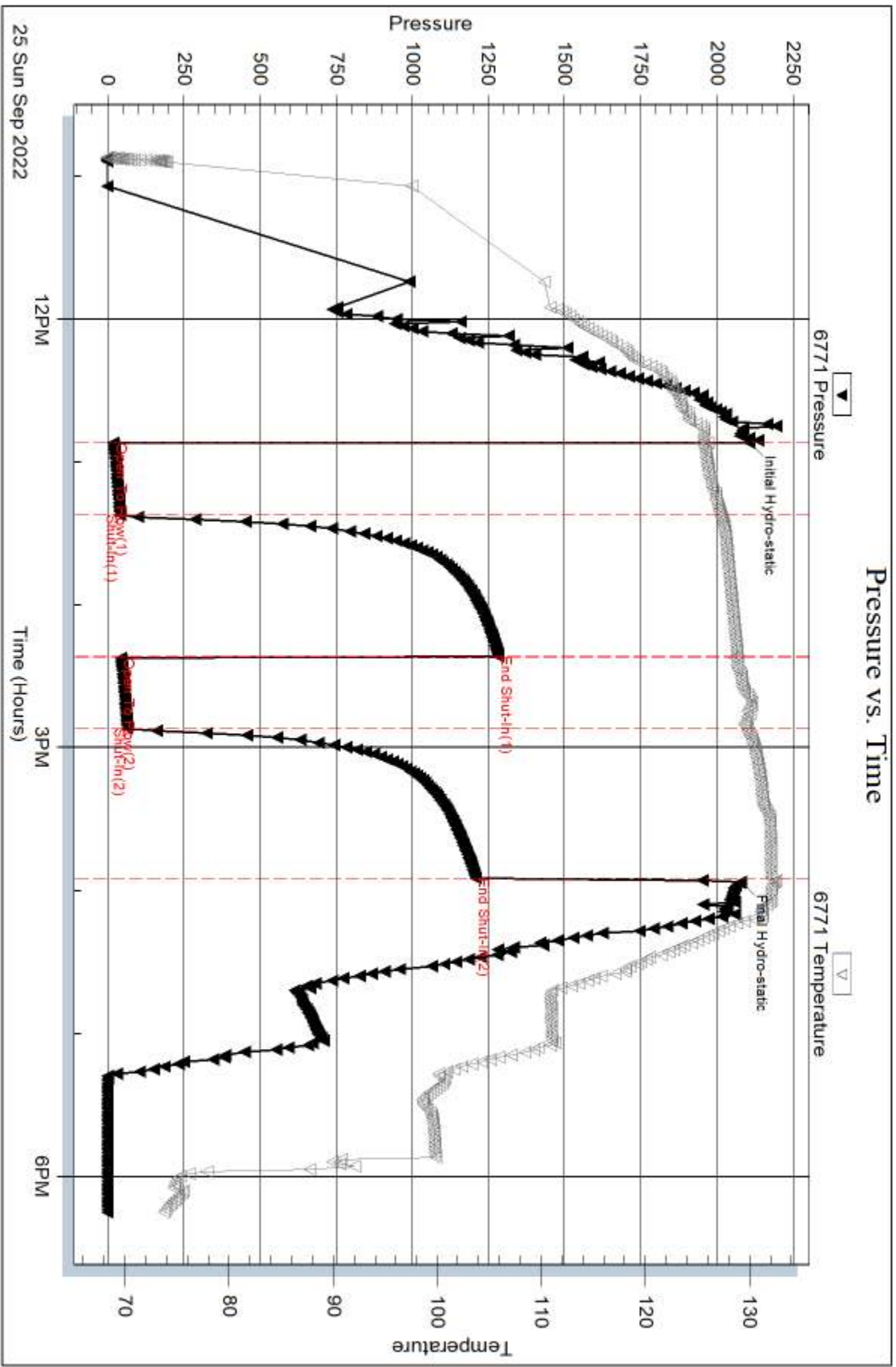
Num Gas Bombs: 0

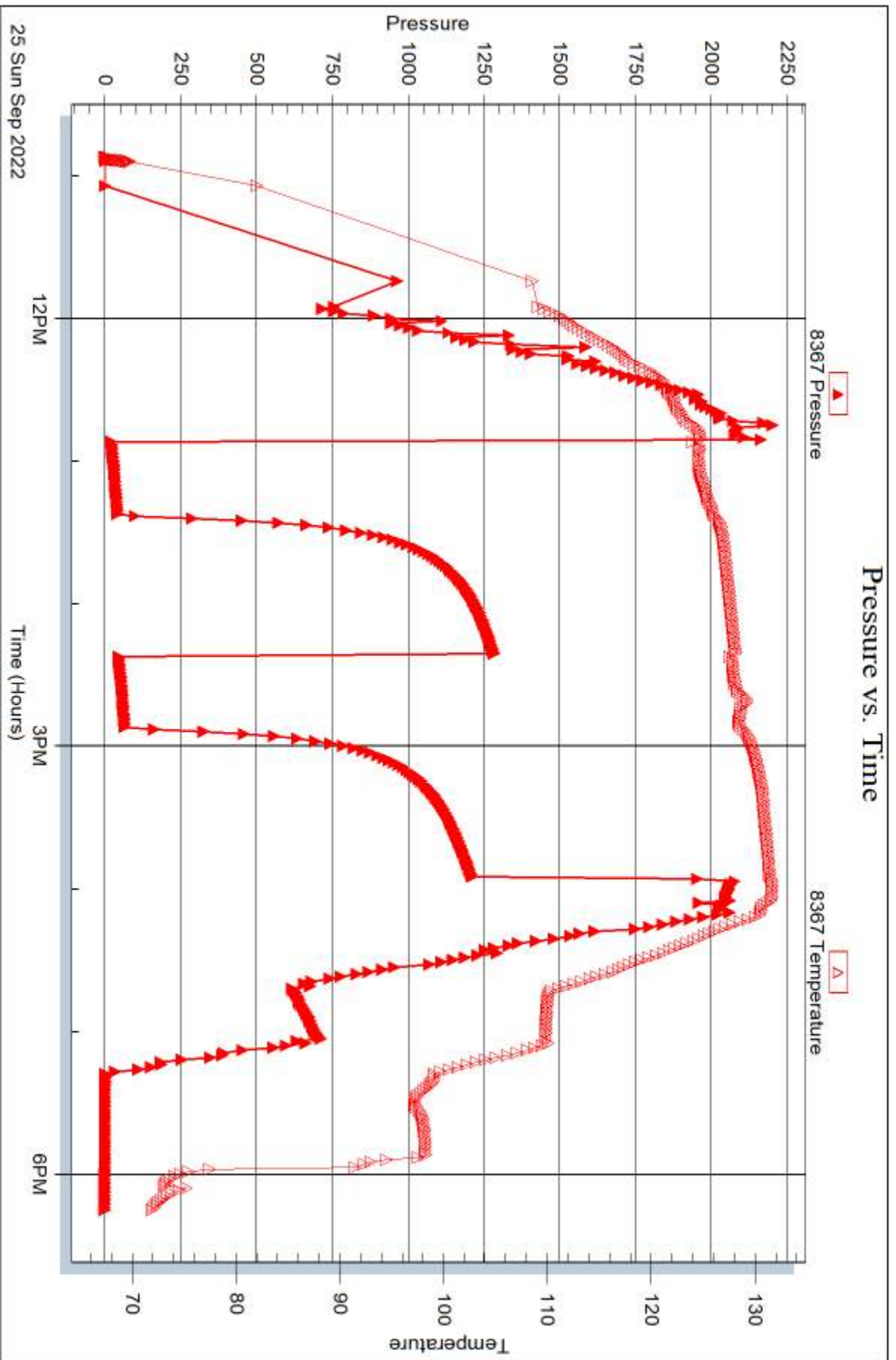
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Marc Summerville

MJ Unit #1-10

10-3s-39w Cheyenne,KS

Start Date: 2022.09.26 @ 18:00:00

End Date: 2022.09.27 @ 01:59:06

Job Ticket #: 69653 DST #: 2

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

Printed: 2022.09.29 @ 08:18:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne, KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69653

DST#: 2

ATTN: Marc Summervill

Test Start: 2022.09.26 @ 18:00:00

GENERAL INFORMATION:

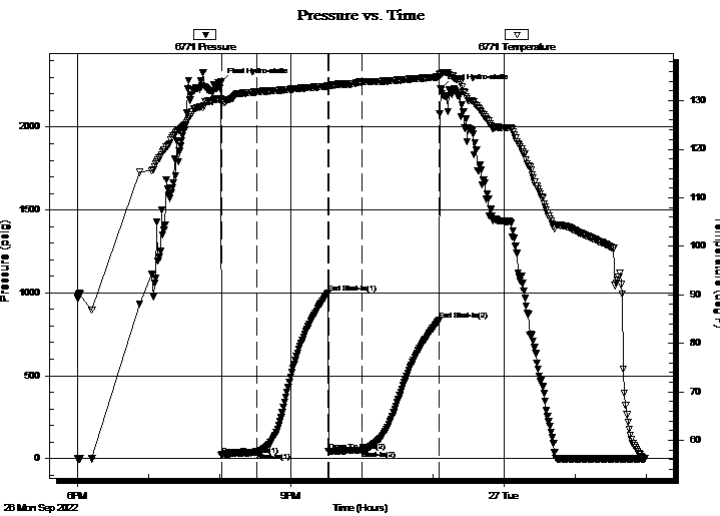
Formation: **LKC "J - K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:01:21
 Time Test Ended: 01:59:06
 Interval: **4477.00 ft (KB) To 4574.00 ft (KB) (TVD)**
 Total Depth: 4574.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 73
 Reference Elevations: 3424.00 ft (KB)
 3419.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 50.96 psig @ 4478.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.09.26 End Date: 2022.09.27 Last Calib.: 2022.09.27
 Start Time: 18:00:01 End Time: 01:59:06 Time On Btm:
 Time Off Btm: 2022.09.26 @ 20:01:06

TEST COMMENT: 30 - IF: 1/4" Blow at open, died back to surface blow
 60 - IS: No blow
 30 - FF: Blow built to about 1/4"
 60 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.57	130.36	Final Hydro-static
1	21.74	129.86	Open To Flow (1)
31	37.83	131.82	Shut-In(1)
91	997.39	133.01	End Shut-In(1)
91	44.05	133.03	Open To Flow (2)
120	50.96	133.90	Shut-In(2)
185	834.29	134.89	End Shut-In(2)
186	2232.93	135.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 81% m, 14% o, 5% g	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69653

DST#: 2

ATTN: Marc Summervill

Test Start: 2022.09.26 @ 18:00:00

Tool Information

Drill Pipe:	Length: 4295.00 ft	Diameter: 3.80 inches	Volume: 60.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4477.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	130.00 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			4445.00	
Shut In Tool	5.00			4450.00	
Hydraulic tool	5.00			4455.00	
Jars	5.00			4460.00	
EM Tool	4.00			4464.00	
Safety Joint	3.00			4467.00	
Packer	5.00			4472.00	33.00 Bottom Of Top Packer
Packer	5.00			4477.00	
Stubb	1.00			4478.00	
Recorder	0.00	6771	Inside	4478.00	
Recorder	0.00	8367	Outside	4478.00	
Perforations	27.00			4505.00	
Blank Spacing	64.00			4569.00	
Perforations	2.00			4571.00	
Bullnose	3.00			4574.00	97.00 Bottom Packers & Anchor

Total Tool Length: 130.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

10-3s-39w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

MJ Unit #1-10

Job Ticket: 69653

DST#: 2

ATTN: Marc Summervill

Test Start: 2022.09.26 @ 18:00:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OCM 81%m, 14%o, 5%g	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

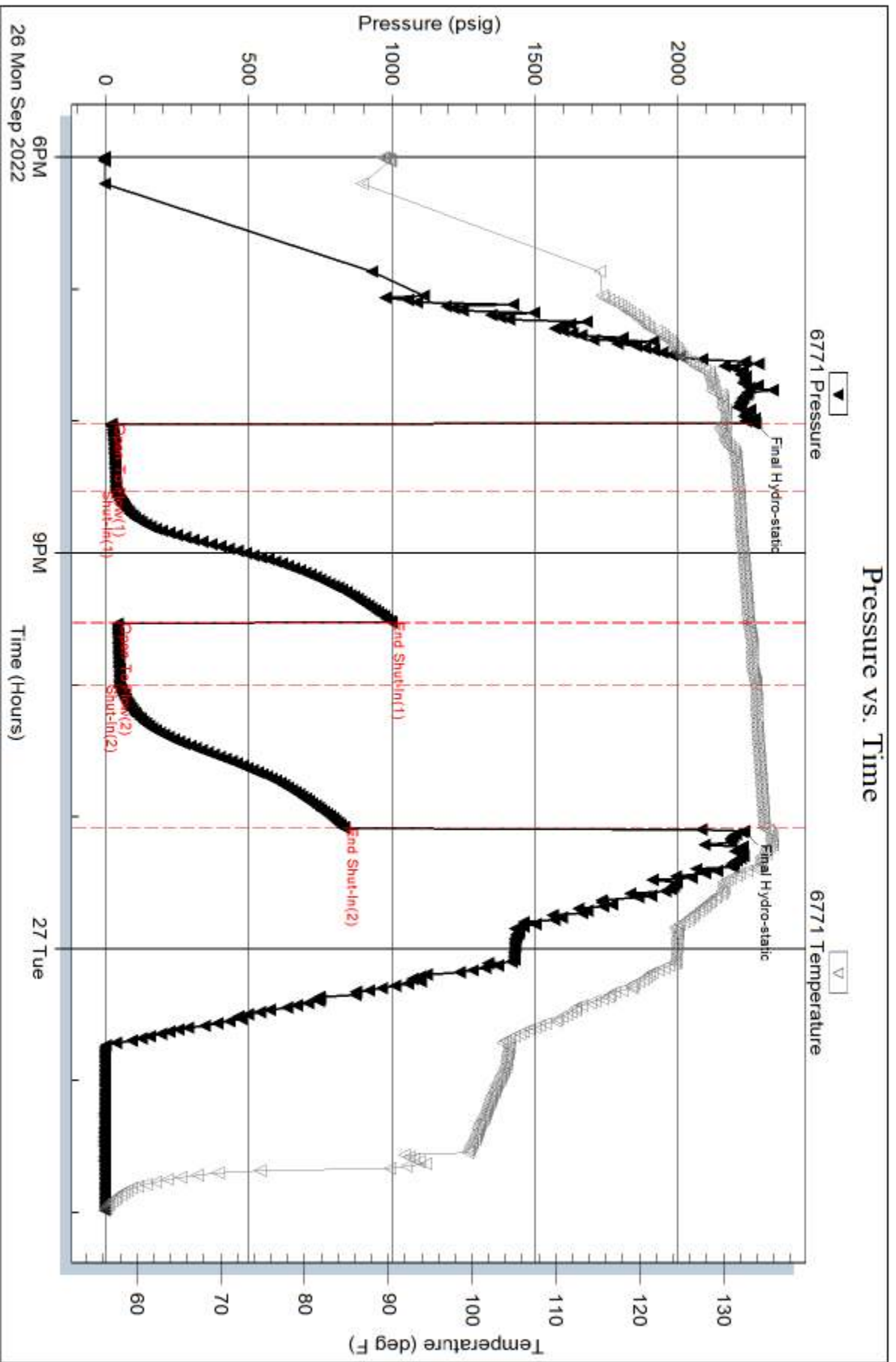
Inside

Murfin Drilling Co., Inc.

MU Unit #1-10

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 69653

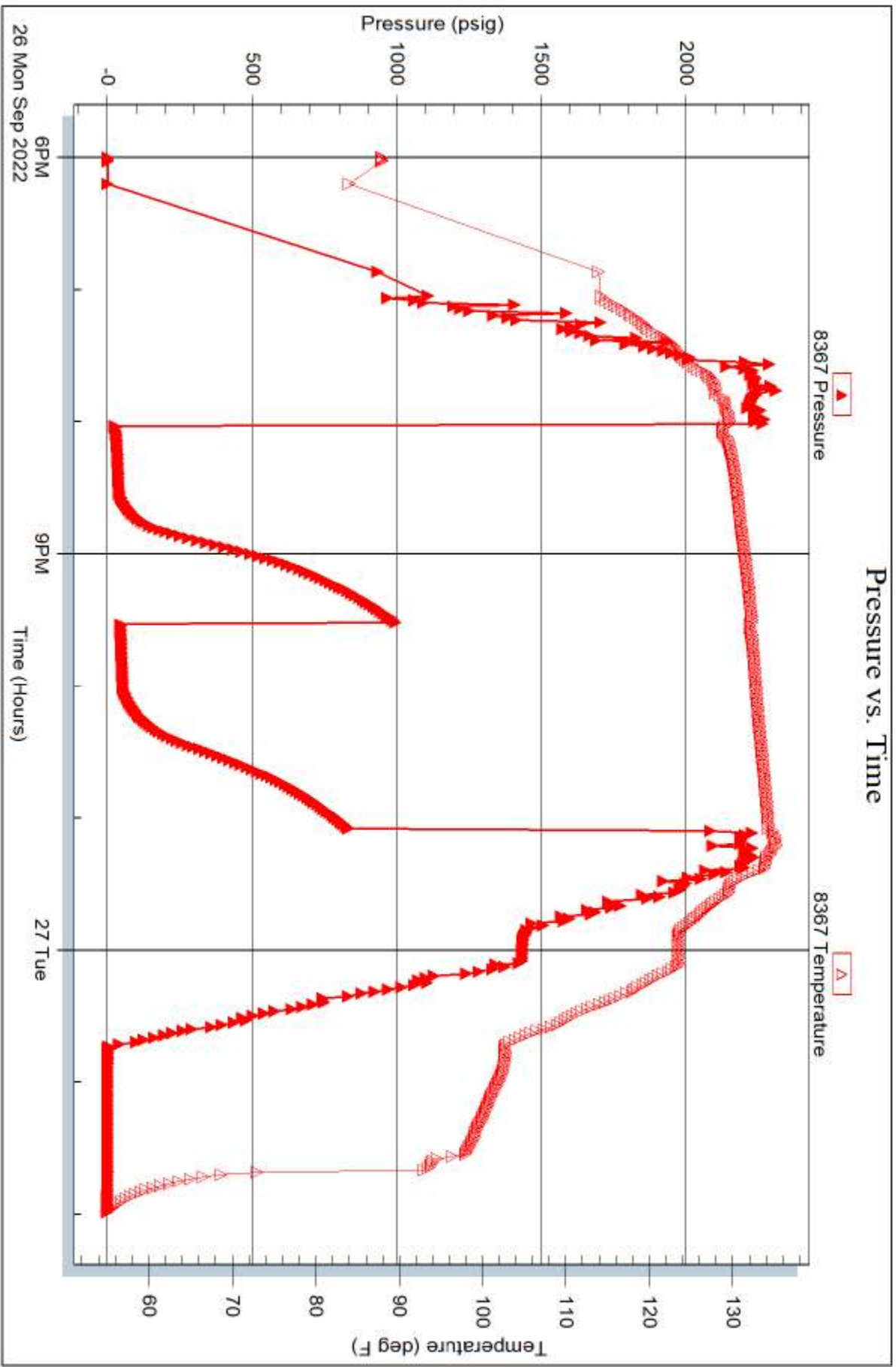
Printed: 2022.09.29 @ 08:18:17

Serial #: 8367

Outside Marfin Drilling Co., Inc.

MU Unit #1-10

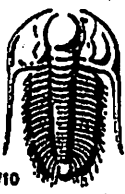
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69653

Printed: 2022.09.29 @ 08:18:17



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69652

Well Name & No. MJ Unit #1-10 Test No. 1 Date 9-25-22
 Company Murfin Drilling Co. Inc Elevation 3424 KB 3419 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Marc Summervill Rig Murfin #1-10
 Location: Sec. 10 Twp 3s Rge. 39w Co. Cheyenne State KS

Interval Tested 4278 - 4390 Zone Tested LKC "A-D"
 Anchor Length 112 Drill Pipe Run 4080 Mud Wt. 9.2
 Top Packer Depth 4273 Drill Collars Run 180 Vis 79
 Bottom Packer Depth 4278 (shale) Wt. Pipe Run - WL 6.8
 Total Depth 4390 Chlorides 600 ppm System LCM 1
 Blow Description IF: Blow built to 1/4", died back to surface blow
ISI: No blow
FF: Blow built to 1/8"
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Mud</u>			<u>100%</u>	
	<u>Oil spots in tool</u>				

Rec Total 90 BHT 132 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2106 Test 1950 T-On Location 6:35
 (B) First Initial Flow 19 Jars 300 T-Started 10:52
 (C) First Final Flow 40 Safety Joint _____ T-Open 12:51
 (D) Initial Shut-In 1284 Circ Sub _____ T-Pulled 15:54
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 18:15
 (F) Second Final Flow 64 Mileage 132 RT 198 Comments Rig pulled tight band
 (G) Final Shut-In 1210 Sampler _____ to short trip
 (H) Final Hydrostatic 2079 Straddle _____ told CW Bank around 8:30
 Shale Packer 250 EM Tool _____
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2698
 Sub Total 2698 MP/DST Disc't _____

Approved By _____ Our Representative James Winder

Triobite 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. 69653

Well Name & No. MJ Unit #1-10 Test No. 2 Date 9-26-22
 Company Murfin Drilling Co. Inc Elevation 3424 KB 3419 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Marc Summerville Rig Murfin #110
 Location: Sec. 10 Twp 3S Rge. 39W Co. Cheyenne State KS

Interval Tested 4477 - 4574 Zone Tested LKC "J-R"
 Anchor Length 97 Drill Pipe Run 4295 Mud Wt. 9.2
 Top Packer Depth 4472 Drill Collars Run 180 Vis 61
 Bottom Packer Depth 4477 (Shale) Wt. Pipe Run - WL 6.8
 Total Depth 4574 Chlorides 600 ppm System LCM 1

Blow Description IF: 1/4" Blow at open, died back to surface blow
ISI: No blow
FF: Blow built to about 1/4"
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OCM</u>	<u>5</u>	<u>14</u>	<u>81</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 70 BHT 135 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2272 Test 1950 T-On Location 17:40 9/26
 (B) First Initial Flow 22 Jars 300 T-Started 18:00
 (C) First Final Flow 38 Safety Joint T-Open 20:01
 (D) Initial Shut-In 997 Circ Sub T-Pulled 23:05
 (E) Second Initial Flow 44 Hourly Standby T-Out 1:55 9/27
 (F) Second Final Flow 51 Mileage 132RT 396 Comments tools loaded
 (G) Final Shut-In 834 Sampler 9/28 13:00
 (H) Final Hydrostatic 2233 Straddle EM Tool

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 800
 Total 3696
 MP/DST Disc't _____
 Sub Total 2896

Approved By _____ Our Representative James Winter
 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.

DRILLING REPORT - LOG TOPS - MJ UNIT 1-10

MDCI MJ Unit #1-10 830 FSL 200 FWL Sec. 10-T3S-R39W 3424' KB						
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3291	+133	-8	3286	+138	-3
B/Anhydrite	3315	+109	-6	3316	+108	-7
Topeka	4109	-685	-5	4111	-687	-7
Lansing	4310	-886	+4	4321	-897	-7
Stark	4535	-1111	+14	4558	-1134	-9
Mound City	4596	-1172	+11	4618	-1194	-11
Ft. SC	4722	-1298	+15	4750	-1326	-13
Oakley	4810	-1386	+9	4827	-1403	-8
Miss	5092	-1668	+27	5123	-1699	-4
RTD	5189	-1765		5189	-1765	
LTD	5187	-1763		5187	-1763	



785-953-0222

TICKET NUMBER 2592K-C
LOCATION Hugoton, Ks
FOREMAN Walt Drake

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-30-22		MJ unit # 1-10	10	33	39W	Cheyenne
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Murtin Doby Co. Inc.			103	Curry D		
MAILING ADDRESS			800-850	Jan E		
CITY	STATE	ZIP CODE				

JOB TYPE PTA HOLE SIZE 2 7/8 HOLE DEPTH 5184' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 x 11 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rig up on Murtin #10, Plug as ordered

50 sks @ 3300'
100 sks @ 2300'
50 sks @ 350'
10 sks @ 20'
30 sks in RH

240 sks 60% 40% 40% 60% #1/4 Flo Seal

Thank You
Walt Drake

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	1,500.00	1,500.00
	80	MILEAGE	7.15	572.00
	10.32	Tax Mileage Delivery	17.5	1,444.80
	240 - sks	Light Weight Blend V (60% 40% 40% 60%)	16.00	3,840.00
	60	# Flo Seal	3.00	180.00
				7,536.80
		Less 20% Disc		1,507.36
				6,029.44
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION [Signature] TITLE _____ DATE _____
 I acknowledge that the payments 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.