

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

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	STEVENS 1-29
Doc ID	1577850

All Electric Logs Run

DIL
DUCP
MEL
BHCS

MDCI
 Stevens #1-29
 660' FSL 660' FEL
 Sec. 29-T2S-R39W
 3317' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3205	+112	+2	3204	+113	+3
B/Anhydrite	3240	+77	+2	3239	+78	+3
Topeka	4022	-705	-1	4019	-702	+2
Oread	4144	-827	+1	4150	-833	-5
Lansing	4226	-909	Flat	4226	-909	Flat
Stark	4454	-1137	+6	4460	-1143	Flat
Mound City	4520	-1203	+2	4523	-1206	-1
Ft Scott	4648	-1331	Flat	4647	-1330	+1
Oakley	4725	-1408	+7	4731	-1414	+1
Mississippi				5017	-1700	+12
RTD	5100					
LTD				5101		

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Martin Drilling Co., Inc.**

FIELD: **Widewater**

LOCATION: **660' FSL & 660' FEL**

COUNTY: **Cherokee STATE Kansas**

CONTRACTOR: **Martin Drilling #3**

RUD: **04/1/21 COMP 04/24/21**

WUD UP: **3.550' TYPE MUD Chemical**

SAMPLES SAVED FROM: **3920' TO RTD**

DRILLING TIME KEPT FROM: **3820' TO RTD**

SAMPLES EXAMINED FROM: **3920' TO RTD**

GEOLOGICAL SUPERVISION FROM: **3620'**

REFERENCE WELL: **John O'Famer - Pugh #1**

Formation	Sample Tops	E-log Tops	Strat Pos.
Anhydrite	3305 (+112)	3204 (+113)	+3
Base Anhydrite	3240 (+78)	3190 (+78)	+2
TOPEKA	4022 (-705)	4109 (-702)	+2
Oriskany	4144 (-827)	4130 (-833)	-5
Lansing	4226 (-909)	4226 (-909)	FtH
Mound City	4320 (-1205)	4323 (-1206)	-1
Ft Scott	4648 (-1331)	4647 (-1330)	+1
OKRKEY	4725 (-1408)	4731 (-1414)	+2
MISSISSIPPI	5020 (-1703)	5017 (-1700)	+2

ELEVATIONS
KB 3317'

DF _____

GL 3312'

Measurments Are All From Kelly Bushing

CASING

CONDUCTOR

SURFACE 8.5/8" at 304'

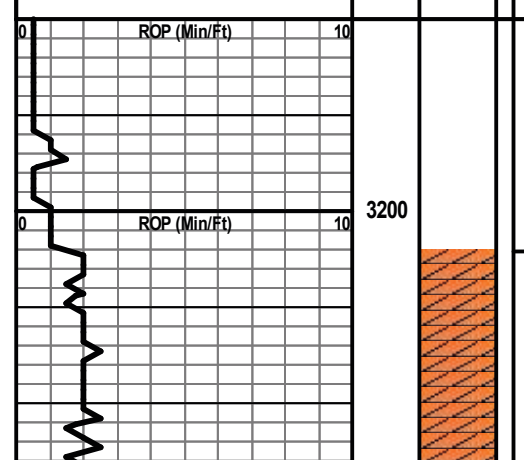
PRODUCTION N/A

ELECTRICAL

LOGS BY: MEJ, SMC

CND: DJL, MEJ, SMC

REFERENCE WELL: **Martin Drilling**



REMARKS Due to poor shows of oil in several potential pay zones and negative DST results, it is recommended and agreed upon by all parties that this well be plugged and abandoned.

Respectfully Submitted,

API #15-023-21549
Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs

Depth	Lithology	Geological Descriptions	Engineering Data
3200	Anhydrite	Anhydrite 3204 (+113)	
3250	Anhydrite	Base 3239 (+78)	
3800	Conn	DAILY PENETRATION @ 7:00 AM 04/15/21 - Spudded at 9:30 AM 04/16/21 - Drilling at 705' 04/17/21 - Drilling at 2310' 04/18/21 - Drilling at 3670' 04/19/21 - Drilling at 4035' 04/20/21 - Drilling at 4355' 04/22/21 - Testing at 4510' 04/23/21 - Drilling at 4870'	Pipe Strap @ 3797': 025" Long to Board Deviation Survey: 1/2" Morgan Mud @ 3797' Wt: 8.7 Vis: 56 WI: 6.4 Chl: 1,400 LCM: 4#
3850	Conn	LS, cmntan gry, mott IP, fr in xln, foss, pr intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat dd blk spkld stn, spkld to spkld, sub-sat, no odr; NSLO	
3900	Conn	Sh, bm, silty, calc & Sh, gry, fss, pyrc	
3950	Conn	LS, cmntan gry, fr in xln, foss, pr pp intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat dd blk spkld stn, spkld to pt chy, fit to brit, calc; crt, brit, Tr dd blk spkld stn, fit-mod pt sat, gils to flyly, no odr; NSLO	
4000	Conn	Sh, bm, silty, calc & Sh, gry, fss, pyrc	
4050	Conn&CFS	Topeka 4019 (-702) LS, cmntan gry, fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat med blk spkld stn, spkld to pt chy, fit-mod pt sat, pred fly to gils, no odr; NSFO	
4100	Conn	Sh, gry, ft gn, pt dns	
4150	Conn	Deer Creek 4068 (-751) LS, cmntan, fr in xln, foss, pr pp intpart por; pt dns to chly, calc, fit to brit, pyrc; IP, scat dd blk spkld stn, fit sat, fly to gils, no odr; NSLO	
4200	Conn	Sh, gry, ft gn, pt dns	
4250	Conn	LeCompton 4112 (-795) LS, cmntan, fr in xln, foss, pr pp intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat dd blk spkld stn, fit sat, fly to gils, no odr; NSFO	
4300	Conn	Sh, gry, ft gn, pt dns	
4350	Conn	Oread 4150 (-833) LS, cmntan, fr in xln, foss IP, pr pp intpart por; pt dns to sub-chly, calc IP, fit to brit, intbrd rd Sh, Tr dd blk spkld stn, fit sat, gils to flyly, no odr; NSLO	
4400	Conn	Sh, gry, ft gn, pt dns	
4450	Conn	Heobner 4176 (-859) LS, cmntan, fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, chly IP, Tr dd blk spkld stn, fit sat, fly to gils, no odr; NSFO	
4500	Conn	Sh, gry, ft gn, pt dns	
4550	Conn	Lansing 4226 (-909) LS, tanbcm, micr-fr in xln, foss IP, no-pr vis por; dns to sub-chly, chly IP, calc IP, silty, nis	
4600	Conn	Sh, gry, ft gn, pt dns	
4650	Conn	Stark 4460 (-1143) LS, cmntan gry, fr in xln, foss, pr pp intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat med blk spkld stn, fit sat, fly to gils, no odr; NSFO	
4700	Conn	Sh, gry, ft gn, pt dns	
4750	Conn	Mound City 4523 (-1206) LS, tanbcm, fr in xln, foss, pr pp intpart & xln por; pt dns to sub-chly, calc IP, pyrc; scat med blk spkld stn, fit sat, fly to gils, no odr; NSFO	
4800	Conn	Sh, gry, ft gn, pt dns	
4850	Conn	Narmanton 4550 (-1233) LS, tanbcm, micr-fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, sub-mdd to sil bly, brit to fit, shly, intbrd omg Chl, nis	
4900	Conn	Sh, gry, ft gn, pt dns	
4950	Conn	Excello 4699 (-1382) LS, tanbcm, micr-fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, fit to brit, sbang to bly, Tr pyrc, nis	
5000	Conn	Sh, gry, ft gn, pt dns	
5050	Conn	Breezy Hill 4711 (-1394) LS, tanbcm, micr-fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, fit to brit, sbang to bly, Tr pyrc, nis	
5100	Conn	Sh, gry, ft gn, pt dns	
5150	Conn	Oakley 4731 (-1414) LS, cmntan, fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, Tr Chl, nis	
5200	Conn	Sh, gry, ft gn, pt dns	
5250	Conn	Celia 4740 (-1423) LS, cmntan, fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, fit to brit, sbang to bly, Tr pyrc, nis	
5300	Conn	Sh, gry, ft gn, pt dns	
5350	Conn	Mound City 4523 (-1206) LS, tanbcm, fr in xln, foss, pr pp intpart & xln por; pt dns to sub-chly, calc IP, sub-mdd to sil bly, brit to fit, shly, intbrd omg Chl, nis	
5400	Conn	Sh, gry, ft gn, pt dns	
5450	Conn	Ft Scott 4647 (-1330) LS, tanbcm, micr-fr in xln, foss IP, pr pp intpart & xln por; pt dns to sub-chly, calc IP, fit to brit, sbang to bly, Tr pyrc, nis	
5500	Conn	Sh, gry, ft gn, pt dns	
5550	Conn	Mississippian 5017 (-1700) Chl, omg whly silty; sil whd, Tr printab & frac por; pred NVP; op to trans, pyrc IP, nis	
5600	Conn	Sh, gry, ft gn, pt dns	
5650	Conn	RTD 5100 (-1783) Dol, ft gry, fr in xln, pr in bin por; pt dns, brit, sub-txt, sub-mdd to sil bly, nis	
5700	Conn	Sh, gry, ft gn, pt dns	
5750	Conn	Dol, aa, pred cmntan, scat Chk, Incr Sh abund, nis	
5800	Conn	Sh, gry, ft gn, pt dns	
5850	Conn	Sh, gry, ft gn, pt dns	
5900	Conn	Sh, gry, ft gn, pt dns	
5950	Conn	Sh, gry, ft gn, pt dns	
6000	Conn	Sh, gry, ft gn, pt dns	
6050	Conn	Sh, gry, ft gn, pt dns	
6100	Conn	Sh, gry, ft gn, pt dns	
6150	Conn	Sh, gry, ft gn, pt dns	
6200	Conn	Sh, gry, ft gn, pt dns	
6250	Conn	Sh, gry, ft gn, pt dns	
6300	Conn	Sh, gry, ft gn, pt dns	
6350	Conn	Sh, gry, ft gn, pt dns	
6400	Conn	Sh, gry, ft gn, pt dns	
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6650	Conn	Sh, gry, ft gn, pt dns	
6700	Conn	Sh, gry, ft gn, pt dns	
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6800	Conn	Sh, gry, ft gn, pt dns	
6850	Conn	Sh, gry, ft gn, pt dns	
6900	Conn	Sh, gry, ft gn, pt dns	
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7000	Conn	Sh, gry, ft gn, pt dns	
7050	Conn	Sh, gry, ft gn, pt dns	
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7250	Conn	Sh, gry, ft gn, pt dns	
7300	Conn	Sh, gry, ft gn, pt dns	
7350	Conn	Sh, gry, ft gn, pt dns	
7400	Conn	Sh, gry, ft gn, pt dns	
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7550	Conn	Sh, gry, ft gn, pt dns	
7600	Conn	Sh, gry, ft gn, pt dns	
7650	Conn	Sh, gry, ft gn, pt dns	
7700	Conn	Sh, gry, ft gn, pt dns	
7750	Conn	Sh, gry, ft gn, pt dns	
7800	Conn	Sh, gry, ft gn, pt dns	
7850	Conn	Sh, gry, ft gn, pt dns	
7900	Conn	Sh, gry, ft gn, pt dns	
7950	Conn	Sh, gry, ft gn, pt dns	
8000	Conn	Sh, gry, ft gn, pt dns	
8050	Conn	Sh, gry, ft gn, pt dns	
8100	Conn	Sh, gry, ft gn, pt dns	
8150	Conn	Sh, gry, ft gn, pt dns	
8200	Conn	Sh, gry, ft gn, pt dns	
8250	Conn	Sh, gry, ft gn, pt dns	
8300	Conn	Sh, gry, ft gn, pt dns	
8350	Conn	Sh, gry, ft gn, pt dns	
8400	Conn	Sh, gry, ft gn, pt dns	
8450	Conn	Sh, gry, ft gn, pt dns	
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8900	Conn	Sh, gry, ft gn, pt dns	
8950	Conn	Sh, gry, ft gn, pt dns	
9000	Conn	Sh, gry, ft gn, pt dns	
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9100	Conn	Sh, gry, ft gn, pt dns	
9150	Conn	Sh, gry, ft gn, pt dns	
9200	Conn	Sh, gry, ft gn, pt dns	
9250	Conn	Sh, gry, ft gn, pt dns	
9300	Conn	Sh, gry, ft gn, pt dns	
9350	Conn	Sh, gry, ft gn, pt dns	
9400	Conn	Sh, gry, ft gn, pt dns	
9450	Conn	Sh, gry, ft gn, pt dns	
9500	Conn	Sh, gry, ft gn, pt dns	
9550	Conn	Sh, gry, ft gn, pt dns	
9600	Conn	Sh, gry, ft gn, pt dns	
9650	Conn	Sh, gry, ft gn, pt dns	
9700	Conn	Sh, gry, ft gn, pt dns	
9750	Conn	Sh, gry, ft gn, pt dns	
9800	Conn	Sh, gry, ft gn, pt dns	
9850	Conn	Sh, gry, ft gn, pt dns	
9900	Conn	Sh, gry, ft gn, pt dns	
9950	Conn	Sh, gry, ft gn, pt dns	
10000	Conn	Sh, gry, ft gn, pt dns	

DST #1
(LKC H-K)
4370'-4510'
30-60-60-90
IF: Blow built to 11"
FF: Blow built to 11 1/2"
Rec: 15' OC/M (5%, 95%M),
248' OWCM (5%O, 25%W, 70%M),
237' OWCM (5%O, 40%W, 55%M)
IFP: 23 - 120
FFP: 126 - 199
ISIP: 1413
FSIP: 1363
IHP: 2231
FHP: 2124
BHT: 140°

DST #2
(Ft Scott-Cella)
4626'-4770'
30-30-30-30
IF: Blow built to 1 1/2"
FF: Blow built to 1/2"
Rec: 90' M (100%M)
IFP: 22 - 40
FFP: 43 - 62
ISIP: 1302
FSIP: 1272
IHP: 2365
FHP: 2168
BHT: 140°

Morgan Mud @ 4428'
Wt: 8.7
Vis: 56
WI: 7.2
Chl: 1,000
LCM: 3#

Morgan Mud @ 4510'
Wt: 9.2
Vis: 61
WI: 7.2
Chl: 800
LCM: 2#
Deviation Survey @ 4510: 1/2"

Morgan Mud @ 4733'
Wt: 9.1
Vis: 58
WI: 7.2
Chl: 800
LCM: 3#

Deviation Survey @ 5100: 1/2"



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS 67202

ATTN: Samon Sharifaie

Stevens #1-29

29-2s-39w Cheyenne,KS

Start Date: 2021.04.21 @ 00:51:00

End Date: 2021.04.21 @ 09:27:00

Job Ticket #: 66695 DST #: 1

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

Printed: 2021.04.23 @ 08:59:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

29-2s-39w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66695

DST#: 1

ATTN: Samon Sharifaie

Test Start: 2021.04.21 @ 00:51:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:11:00

Time Test Ended: 09:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 4370.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3317.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3312.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 198.80 psig @ 4371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.21

End Date:

2021.04.21

Last Calib.:

2021.04.21

Start Time: 00:51:01

End Time:

09:27:00

Time On Btm:

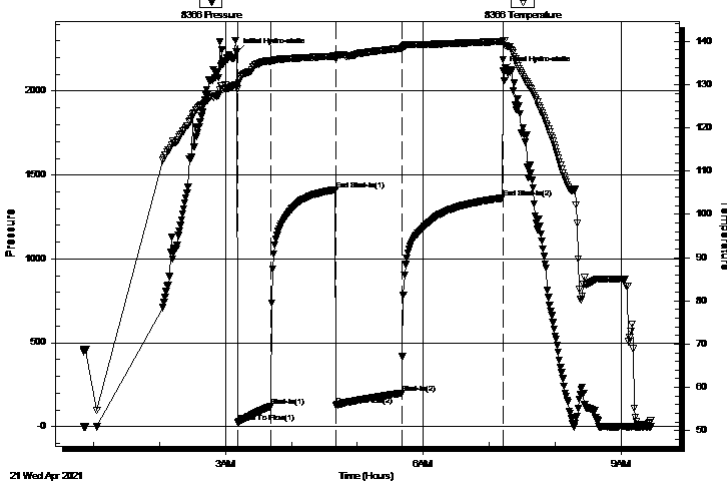
2021.04.21 @ 03:10:30

Time Off Btm:

2021.04.21 @ 07:12:50

TEST COMMENT: 30 IF - 1 1/2" blow built to 11" (in diesel)
60 ISI - No return
60 FF - Surface blow built to 11 1/2"
90 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.00	129.53	Initial Hydro-static
1	22.90	129.07	Open To Flow (1)
31	120.20	135.40	Shut-In(1)
90	1412.66	136.59	End Shut-In(1)
91	126.16	135.95	Open To Flow (2)
151	198.80	138.35	Shut-In(2)
242	1363.02	139.96	End Shut-In(2)
243	2124.22	140.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
237.00	OWCM - 5%o - 40%W - 55%M	1.17
248.00	OWCM - 5%o - 25%W - 70%M	3.48
15.00	OCM - 5%o - 95%M	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

29-2s-39w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66695

DST#: 1

ATTN: Samon Sharifaie

Test Start: 2021.04.21 @ 00:51:00

Tool Information

Drill Pipe:	Length: 4106.00 ft	Diameter: 3.80 inches	Volume: 57.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4370.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	140.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4343.00	
Hydraulic tool	5.00			4348.00	
Jars	5.00			4353.00	
EM tool	4.00			4357.00	
Safety Joint	3.00			4360.00	
Packer	5.00			4365.00	32.00 Bottom Of Top Packer
Packer	5.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	8353	Inside	4371.00	
Recorder	0.00	8366	Outside	4371.00	
Perforations	5.00			4376.00	
Blank Spacing	129.00			4505.00	
Perforations	2.00			4507.00	
Bullnose	3.00			4510.00	140.00 Bottom Packers & Anchor

Total Tool Length: 172.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

29-2s-39w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66695

DST#: 1

ATTN: Samon Sharifaie

Test Start: 2021.04.21 @ 00:51:00

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
237.00	OWCM - 5%o - 40%W - 55%M	1.166
248.00	OWCM - 5%o - 25%W - 70%M	3.479
15.00	OCM - 5%o - 95%M	0.210

Total Length: 500.00 ft Total Volume: 4.855 bbl

Num Fluid Samples: 0

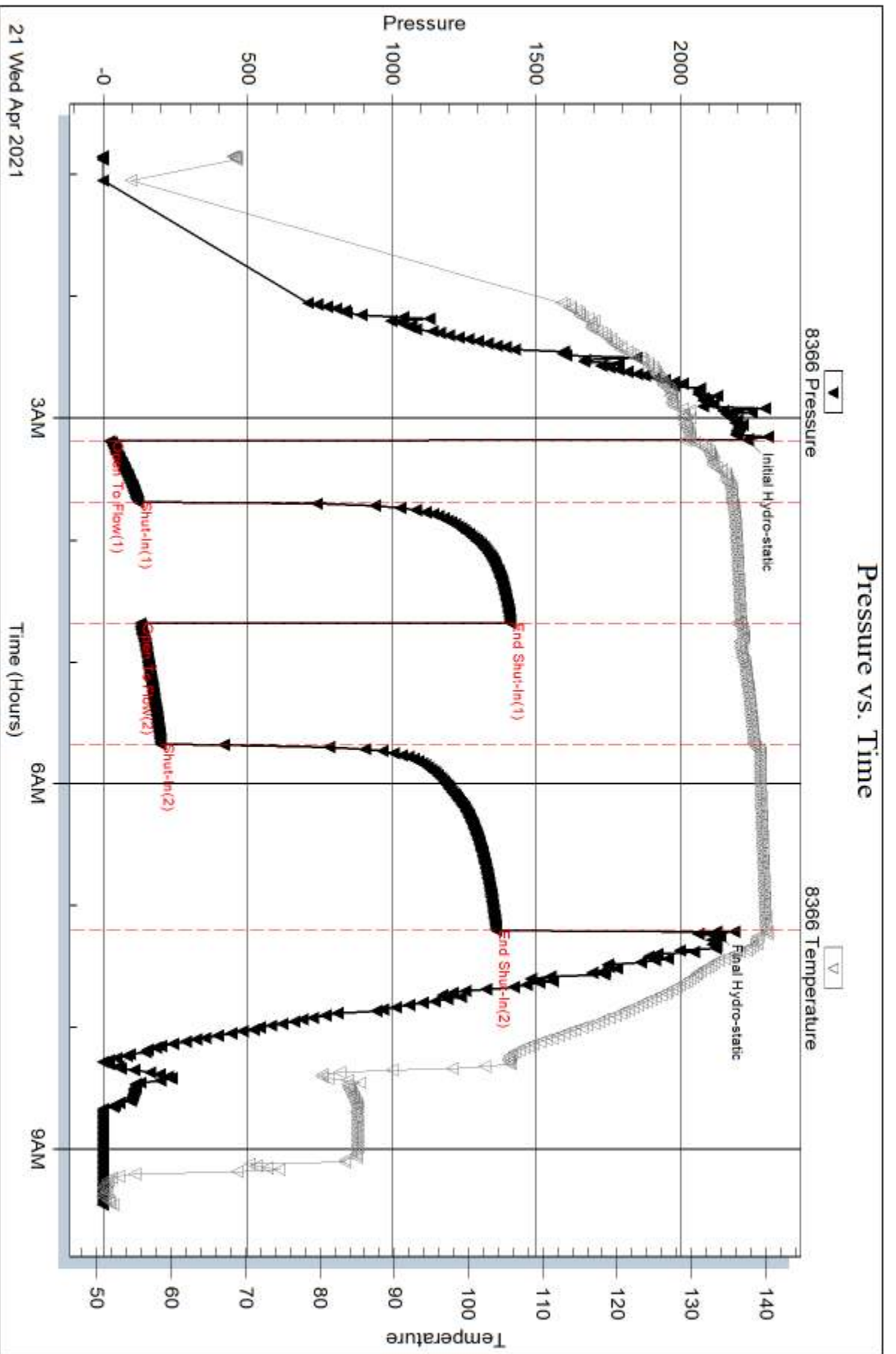
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW - dirty w ater



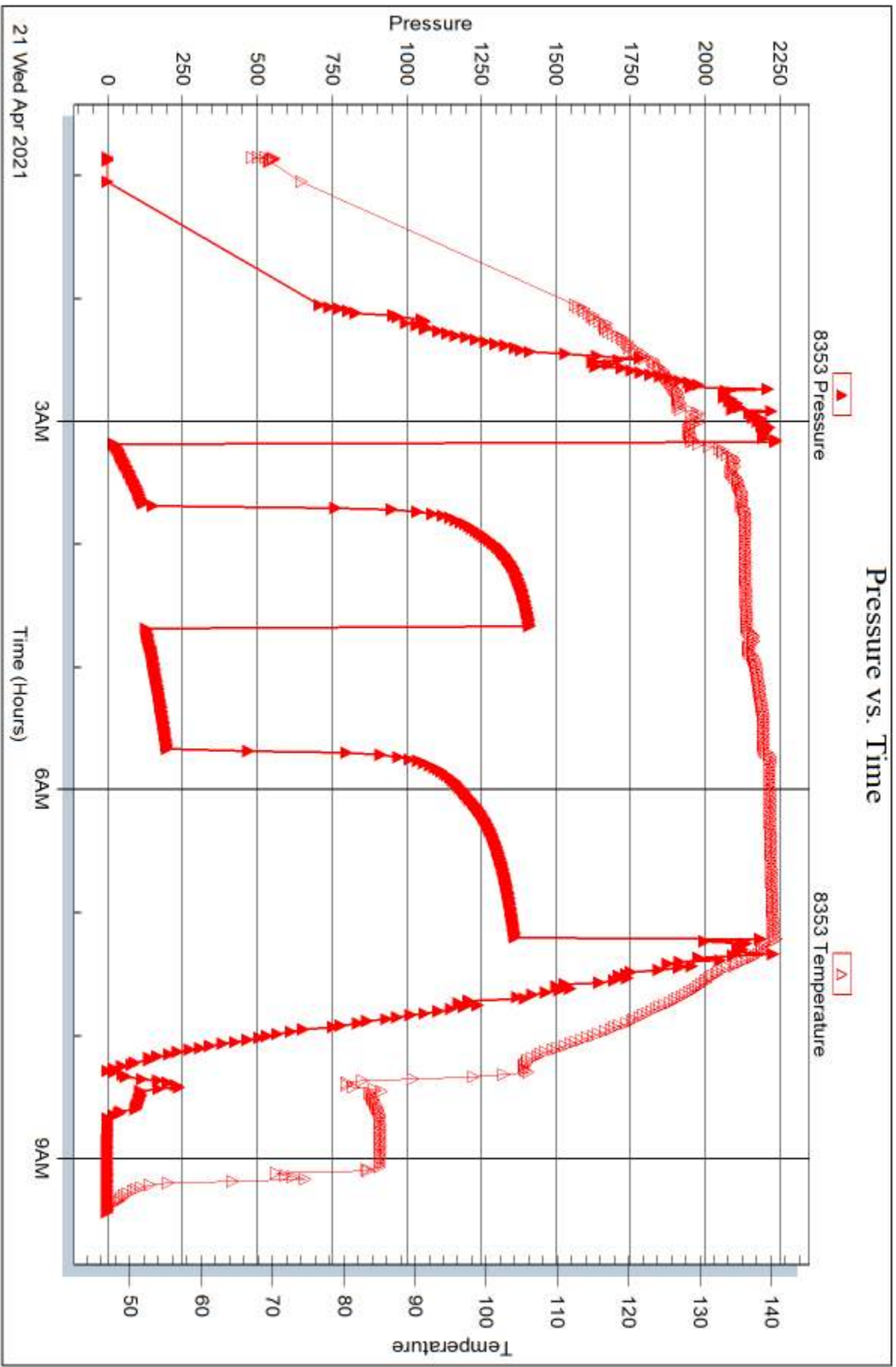
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Inside

Murfin Drilling Co. Inc.

Stevens #1-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 66695

Printed: 2021.04.23 @ 08:59:26



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS 67202

ATTN: Samon Sharifaie

Stevens #1-29

29-2s-39w Cheyenne,KS

Start Date: 2021.04.22 @ 18:07:00

End Date: 2021.04.23 @ 01:14:20

Job Ticket #: 66696 DST #: 2

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

Printed: 2021.04.23 @ 08:58:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

29-2s-39w Cheyenne, KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66696

DST#: 2

ATTN: Samon Sharifaie

Test Start: 2021.04.22 @ 18:07:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Celia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:51:10

Time Test Ended: 01:14:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4626.00 ft (KB) To 4770.00 ft (KB) (TVD)

Reference Elevations: 3317.00 ft (KB)

Total Depth: 4770.00 ft (KB) (TVD)

3312.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: 62.39 psig @ 4627.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.22

End Date:

2021.04.23

Last Calib.: 2021.04.23

Start Time: 18:07:01

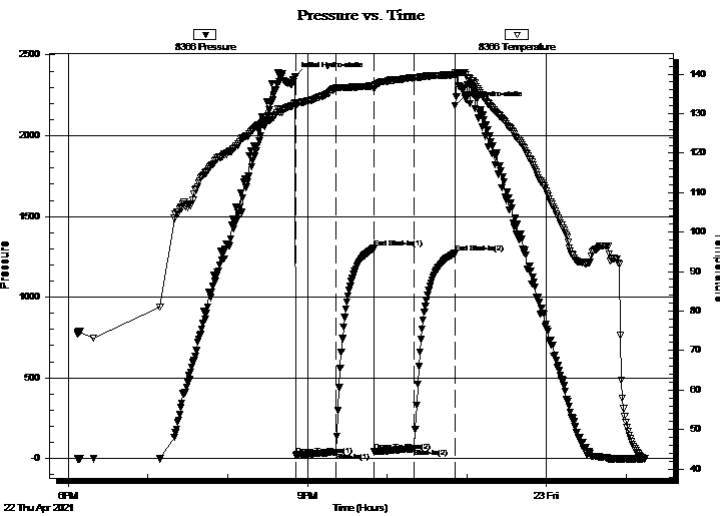
End Time:

01:14:20

Time On Btm: 2021.04.22 @ 20:50:50

Time Off Btm: 2021.04.22 @ 22:51:20

TEST COMMENT: 30 IF - 1/2" blow built to 1 1/4" (in diesel)
30 ISI - No return
30 FF - Surface blow built to 1/2"
30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.94	132.72	Initial Hydro-static
1	21.66	131.83	Open To Flow (1)
31	39.70	136.52	Shut-In(1)
60	1302.49	137.06	End Shut-In(1)
60	42.61	136.36	Open To Flow (2)
90	62.39	139.08	Shut-In(2)
121	1271.82	139.88	End Shut-In(2)
121	2187.66	140.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100%	0.44

* 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.

29-2s-39w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66696

DST#: 2

ATTN: Samon Sharifaie

Test Start: 2021.04.22 @ 18:07:00

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4626.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	144.00 ft			
Tool Length:	176.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4599.00	
Hydraulic tool	5.00			4604.00	
Jars	5.00			4609.00	
EM tool	4.00			4613.00	
Safety Joint	3.00			4616.00	
Packer	5.00			4621.00	32.00 Bottom Of Top Packer
Packer	5.00			4626.00	
Stubb	1.00			4627.00	
Recorder	0.00	8353	Inside	4627.00	
Recorder	0.00	8366	Outside	4627.00	
Perforations	9.00			4636.00	
Blank Spacing	129.00			4765.00	
Perforations	2.00			4767.00	
Bullnose	3.00			4770.00	144.00 Bottom Packers & Anchor

Total Tool Length: 176.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

29-2s-39w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67202

Stevens #1-29

Job Ticket: 66696

DST#: 2

ATTN: Samon Sharifaie

Test Start: 2021.04.22 @ 18:07:00

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: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud 100%	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

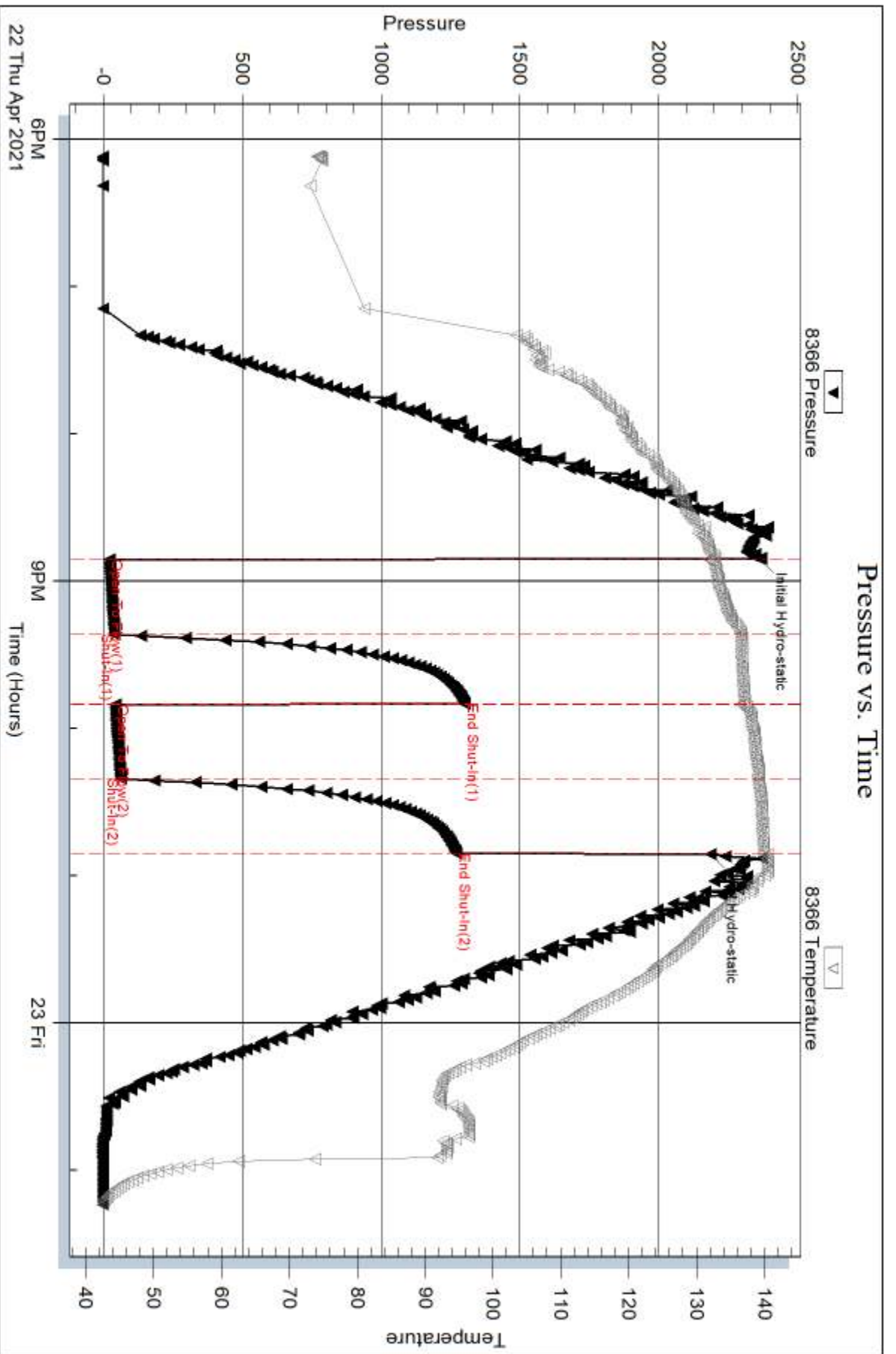
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



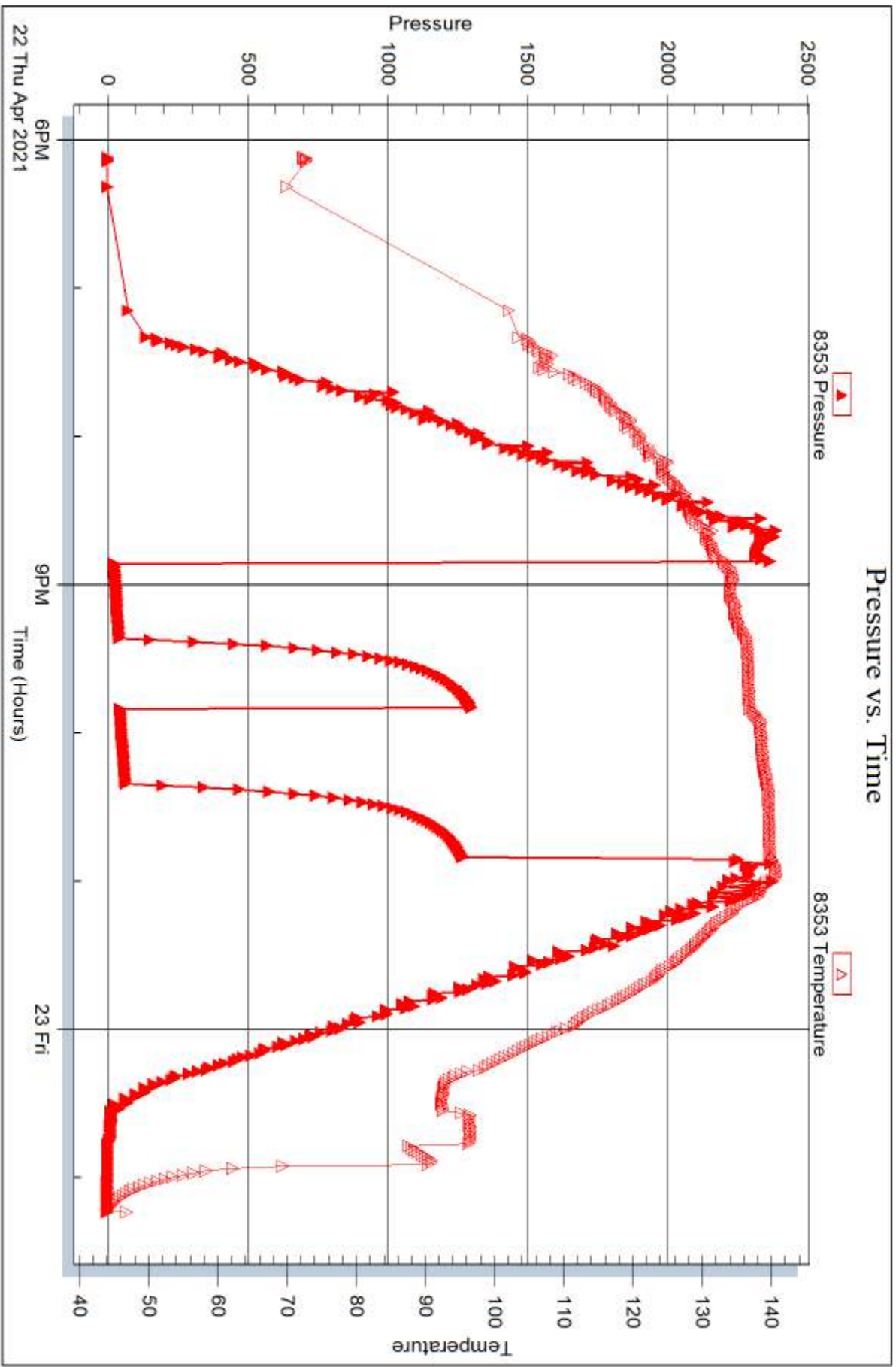
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Inside

Murfin Drilling Co. Inc.

Stevens #1-29

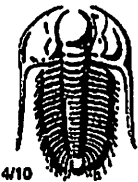
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66696

Printed: 2021.04.23 @ 08:58:55



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66695

NO.

Well Name & No. Stevens # 1-29 Test No. 1 Date 4/21/21
 Company Murfin Drilling Co. Inc. Elevation 3317 KB 3312 GL
 Address ~~250 N. Water STE 300~~ 250 N. Water STE 300 Wichita KS 67202
 Co. Rep/Geo. Samon Sharifia Rig Murfin # 3
 Location: Sec. 29 Twp 25 Rge. 39W Co. Cheyenne State KS

Interval Tested 4370 - 4510 Zone Tested LKC "H-J"
 Anchor Length 140' Drill Pipe Run 4106' Mud Wt. 9.2
 Top Packer Depth 4365 Drill Collars Run 237' Vis 54
 Bottom Packer Depth 4390 Wt. Pipe Run 0' WL 7.2
 Total Depth 4510 Chlorides 1000 ppm System LCM 3
 Blow Description 30 IF - 1 1/2" blow built to 11" (in diesel)
60 ISI - No return
60 FF - Surface blow built to 11 1/2"
90 FSI - No return

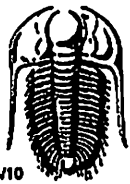
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
<u>248</u>	<u>OWCM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
<u>237</u>	<u>OWCM</u>	<u>5</u>	<u>40</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 500' BHT 140° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2231</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>00:00</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:51</u>
(C) First Final Flow <u>120</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:11</u>
(D) Initial Shut-In <u>1413</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:11</u>
(E) Second Initial Flow <u>126</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:15</u>
(F) Second Final Flow <u>199</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT</u> 175	Comments
(G) Final Shut-In <u>1363</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2124</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</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>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1800</u>
	Sub Total <u>1800</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66696

NO.

Well Name & No. Stevens # 1-29 Test No. 2 Date 4/22/21
 Company Martin Drilling Co. Inc. Elevation 3317 KB 3312 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep/Geo. Samir Sharif Rig Martin # 3
 Location: Sec. 29 Twp 25 Rge. 39W Co. Cheyenne State KS

Interval Tested 4626 - 4770 Zone Tested F4, Scott - Cherokee
 Anchor Length 144' Drill Pipe Run 4390' Mud Wt. 9.1
 Top Packer Depth 4621 Drill Collars Run 237' Vis 58
 Bottom Packer Depth 4626 Wt. Pipe Run 0' WL 7.2
 Total Depth 4770 Chlorides 800 ppm System LCM 3
 Blow Description 30 IF - 1/2" blow built to 1 1/4" (in diesel)
30 ISI - No return
30 FF - Surface blow built to 1/2"
30 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90'</u>	<u>Mud</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 90' BHT 140° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2365</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>17:00</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:07</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:51</u>
(D) Initial Shut-In <u>1302</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:51</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>01:15</u>
(F) Second Final Flow <u>62</u>	<input checked="" type="checkbox"/> Mileage <u>350 140 RT x 2</u>	Comments <u>loaded tools</u>
(G) Final Shut-In <u>1272</u>	<input type="checkbox"/> Sampler	<u>@ 01:30 4/24/21</u>
(H) Final Hydrostatic <u>2188</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>30</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>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>2325</u>
	Sub Total <u>1975</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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