

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	C-W UNIT 1-14
Doc ID	1715782

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Martin Drilling Co., Inc.**
LEASE: **C-W Unit #1-14**

FIELD: **Widakee**
LOCATION: **1200' FSL & 1320' FEL**
SEC: **14** TWP: **1S** RGE: **40W**
COUNTY: **Cherokee** STATE: **Kansas**
CONTRACTOR: **Martin Drilling #110**

SPUD: **02/13/23** COMP: **02/24/23**
RTD: **5/16/23** LT: **5/16/23**
MUD UP: **3:10'** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **4040'** TO RTD
DRILLING TIME KEPT FROM: **4040'** TO RTD
SAMPLES EXAMINED FROM: **4040'** TO RTD

GEOLOGICAL SUPERVISION FROM: **3740'**
REFERENCE WELL: **Farmer John - Crabtree #1**

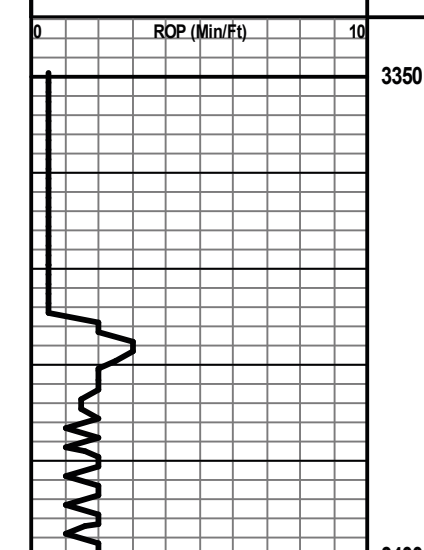
CONDUCTOR: **8-5/8" at 2.7'**
SURFACE: **5-1/2" at 141'**
ELECTRICAL SURVEYS: **None**

CASING: **5-1/2" at 141'**
MEASUREMENTS ARE ALL FROM KELLY BUSHING

ELEVATIONS: **KB 3372'**
DF: **3.367'**
GL: **3.367'**

FORMATION: **Widakee**

Formation	Sample Tops	E-log Tops	Strat Pos.
Anhydrite	3343 (-30)	3375 (-3)	-2
Base Anhydrite	3381 (-49)	3408 (-36)	-1
Topokas	4144 (-772)	4136 (-764)	-7
Oxley	4364 (-892)	4364 (-892)	-5
Ordell	4348 (-876)	4342 (-870)	-3
Stark	4600 (-1188)	4538 (-1186)	-3
Mound City	4612 (-1240)	4620 (-1248)	-1
Ft Scott	4741 (-1369)	4741 (-1369)	-4
Mississippian	5083 (-1713)	5078 (-1706)	+3



REMARKS: Due to poor to fair shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,

API #15-023-21601

Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs

Depth	Geological Descriptions	Engineering Data
3350 - 3408	Anhydrite 3375 (-3)	
3408 - 3408	Base 3408 (-36)	
3408 - 4040	DAILY PENETRATION @ 7:00 AM 02/13/23 - Spud at 3:30 PM 02/14/23 - Drilling at 335' 02/16/23 - Bit trip at 3998' 02/17/23 - Drilling at 4374' 02/18/23 - Drilling at 4478' 02/20/23 - Testing at 4870' 02/21/23 - Drilling at 5139' 02/22/23 - Straddle testing Sh, bmdk omg, sly, calc, Tr mdy Ls, grylcm, sing, fr, xn, foss, IP, pr intpart & xln por, pt dns, fr, calc, Tr dd bk intpart stn, fly, no odr, NSLO Sh, dk omglbm, sly, sub-mdd & Sh, gry, mica Ls, cmflan, fr, xn, foss/Oolc IP, pr intpart por, dns to sub-chly, calc crt, shly IP, nis Ls, aa, pred NVP, Tr ddd blk stn, scat pyc NSLO Sh, dk omglbm, gmy to sly Sh, grylt gn, pt dns Ls, tanlcm, mott, vf-fn xn, foss, no-prvs por, dns, sil bily to sbang, calc crt, shly, nis Sh, grylt gn, fess IP & Sh, dk omglbm, mdy to sly Sh, bmdk omg, sly to gmy Sh, bmdk omg/lt gn, sly, calc Topoka 4136 (-764) Ls, whlt grylcm, vf-fn xn, foss, pr pp intpart por, dns/ht to fit, calc crt, Tr pyc, scat ddd blk spkld stn, ptchly, lt-mod sat, fly, no odr, NSLO Ls, tanlt grylcm, sing, micr xn, NVP, dns, bily to sbang, Tr Chk, r embdd pyc, nis Ls, cmllt gryltan, mott IP, micr-fn xn, Tr foss, no-prvs por, dns/ht to brt, calc IP, shly, nis Sh, bmlpup, pt dns, Tr stly Deer Creek 4174 (-802) Ls, tanlcm/whlt, mott IP, micr-fn xn, foss, IP, pr intpart & pp infoss por, dns to chly, calc crt, chy IP, Tr intbd Sh, nis Ls, cmWhtbm, micr-fn xn, Tr pr intbn por, pred NVP, dns to sub-chly, calc crt, shly IP, nis Sh, dk omglbm/pup, sly, calc & Sh, gry, fess IP, pyc Sh, dk omglbm, sly to mdy, Tr Chk LeCompton 4218 (-846) Ls, bmlcm/gy, vf-med xn, rexzld/grn IP, pr intbn por, dns to sil argl, calc IP, sub-mdd to bily, shly, nis Ls, tanlcm, sing, micr-fn xn, Tr foss, Tr pr intpart & xln por, pred NVP, dns/ht to fit, sbang, sub-chly to chy IP, Tr pyc, nis Ls, tanlcm/lt gry, micr-fn xn, Tr pr intbn por, pred NVP, dns to sub-chly, hd to sil brt, sbang to bily, Tr Chk, nis Ls, cmflan/bm, sing, micr-fn xn, NVP, dns, bily, chy, nis Heebner 4289 (-917) Ls, cmflan/bm, micr-fn xn, Tr foss, NVP, dns, bily, sil chy, Tr pyc, nis Sh, dk omglbm, sly to gmy Sat, whlt gry, fr, gr, srt, pr intgran por, Tr argl, chy IP, shly, sub-mdd, nis Sh, grylcm/lt gn/pup, pyc IP, mica IP Sh, bmdk omg, sly to gmy & Sh, gry, pt dns, carb Lansing 4342 (-970) Ls, tanlcm/lt gry, sing, micr-fn xn, r foss, NVP, dns to sub-chly, bily to sbang, calc chy, nis Ls, aa, calc IP Ls, cmflan, vf-fn xn, foss, IP, no-prvs por, dns to sub-chly, calc IP, nis Sh, grylcm/lt gn, pt dns to gmy, sly IP Stat, ck, vf-fn gr, srt, pr intgran por, argl, chy IP, shly, sub-mdd, fr ant ddd bk intgran stn, fly, no odr, nis Sh, bmlgrylcm, pred sly to gmy, pyc IP Ls, cmgryltan, micr-fn xn, Tr foss, gran IP, no-prvs por, dns/ht to brt, sbang to bily, Tr embdd pyc, nis Sh, grylcm/lt gn/pup, pt dns, brt, mica IP Ls, cmflan/lt gry, vf-fn xn, foss, IP, pr intpart & xln por, Tr xln vugs/nds, dns/ht to brt, sub-chly to chy IP, sbang, scat blk ptchy stn, thkry slw bld stns FO, Tr rld, r G Bubs, frt odr, SSFO Ls, aa, calc IP, incr G Bubl odd, SSFO Sh, grylt gn/blk carb Ls, cmWhtlt gry, vf-fn xn, foss, IP, pr intpart & foss por, Tr dgt por, pt dns, fr to brt, calc IP, Tr pyc, scat dk bmlk spkld stn, sub-sat, scat pps & stns FO, incr Oolc, fr ant G Bubs, fr odr, SSFO Sh, bm, sly, calc & Sh, grylt gn, pt dns to sft Sh, bmdk omg/grylt gn, sly, calc, sil frt to brt Ls, cmflan/gy, fr-med xn, foss, IP, gran IP, pr intpart & xln por, dns to chy, calc, pyc IP, scat blk spkld stn, sub-sat, pred asphc to gls, slw bld ind pps FO, r G Bubs, no odr, dl yel fluor, VSSFO Sh, grylcm/lt gn, pred sly & calc, Tr fess Sh, gry, pt dns, fess, pyc IP & Sh, bm, sly, calc Ls, cmllt gryltan, sing, vf-fn xn, r foss, no-prvs por, dns to sub-chly, hd to brt, Tr calc, sbang, nis Ls, tanlcm/lt gry, sing, micr-fn xn, Tr foss, NVP, dns to sub-chly, NVP to bily, Tr chy, nis Sh, bmdk omg, sly, calc & Sh, grylt gn, pyc Sh, bmlgrylt gn/varic, pred sly & calc Ls, cmgryltan, fr xn, foss, pr intp infoss por, pt, pt dns to sub-chly, hd to brt, calc IP, ang to sil bily, scat med bmlk spkld intpart stn, pred ddfly, lt-mod sat, no odr, NSFO Ls, grylcm, sing, vf-fn xn, NVP, dns, hd, sil bily to sbang, calc IP, Tr embdd omg Cht, nis Stark 4558 (-1186) Sh, grylt gn/blk carb, sly IP, carb IP Sh, bmdk omg, sly, calc Ls, cmllt gry, vf-fn xn, Tr foss, pr intpart & gran por, dns to sub-chly, calc IP, Tr brec, sil bily, nis Sh, bmlgrylt gn/varic, sly IP Ls, cmflan/lt gry, micr-fn xn, Tr foss, no-prvs por, dns to sub-chly, hd, calc IP, sil chy, nis Mound City 4620 (-1248) Sh, gry, fess, pyc IP & Sh, bm/varic, sly, calc Lenapah 4628 (-1256) Ls, cmflan/lt gry, micr-fn xn, foss, IP, Tr Oolc, no-prvs por, dns, calc crt, chy, sbang, r glau, nis Sh, bmlgrylt gn/varic, pt dns, sly & calc IP, brt to sil argl Marmaton 4654 (-1282) Ls, cmflan/lt gry, micr-fn xn, foss/Oolc IP, pr intpart & gran por, dns, calc crt, hd to brt, Tr Chk, chy IP, sbang to sil bily, shly, nis Sh, bmlgrylt gn/varic, sndy & calc IP Ls, cmWhtltan, micr-fn xn, Tr foss, NVP, dns, chy IP, sbang to bily, nis Sh, dk omg, pt dns, brt Sh, bm, sly to sndy & Sh, gry, pyc IP, Tr fess Ls, cmllt gryltan, sing, micr-fn xn, Tr foss, Tr pr intbn por, pred NVP, dns, hd, calc IP, Tr sub-chly, Tr Chk, sbang to bily, nis Ls, aa, dolc IP, Tr pr vug por Sh, bmdk omg/gn/varic, pt dns, sly IP Ls, cm, sing, fr, xn, foss, pr-fr int/Oolc por, pt dns, fit to brt, calc crt, sub-chly IP, Tr pyc, fr any dk bmlk spkld stn, lt sat, gls IP, slw bld pps FO (pred stn), r G Bubs, dl yel fluor, frt odr, SSFO Ls, cmflan/lt gry, vf-fn xn, foss, no-prvs por, dns to sub-chly, calc, sbang, chy IP, nis Ls, lt grylcm, fr-med xn, r foss, pr intbn por, pt dns to chy, sil calc, dolc IP, ang to sub-mdd, nis Sh, grylcm/lt gn/blk carb Ls, cmflan, fr-med xn, foss, Tr Oolc, pr intbn & pp infoss por, reozd, sil calc, sndy/grn IP, dns to sub-chly, frt to sil brt, nis Ls, cmflan, fr-med xn, foss, gran IP, pr intpart & pp infoss por, reozd, calc, frt to brt, sub-chly IP, nis Sh, lt grylcm carb, pyc IP, Tr gmy Breezy Hill 4810 (-1438) Ls, tanlcm, mott IP, fr xn, Tr foss, pr intpart por, dns to sub-chly, sil calc, Tr Chk, shly, nis Ls, aa, incr mott, sub-chly to chy IP Sh, grylcm, grylcm carb Ls, cmgryltan, vf-fn xn, Tr foss, no-prvs por, dns, calc, ang to sil bily, hd to brt, Tr embdd omg Cht, nis Ls, cmflan/bmlt gry, Tr mott, Tr foss, r Oolc pcs, Tr pr intpart por, pred NVP, dns to chy, scat tanlcm Cht, nis Ls, cmflan/bm, sing, micr-fn xn, r foss, no-prvs por, dns, chy IP, calc, ang to sil bily, nis Sh, grylcm carb, fess, pyc IP Sh, grylcm omg/bmlt gn/blk carb Ls, cmllt bm, mott IP, fr xn, foss, IP, no-prvs por, dns to sub-chly, calc IP, pt dns to fr, shly, fr ant cmkr shly, nis Sh, bmdk omg, pt dns, sil sly & Sh, grylt gn/varic, mica IP Ls, cmWhtltan, vf-fn xn, Tr foss, pr intbn por, dns to sub-chly, calc IP, nis Ls, aa, incr Chk abund, scat gran pcs, shly IP, nis Sh, grylcm/pup/varic, pyc IP Ls, cmflan, fr-med xn, pr intgran por, calc IP, dns to sub-chly, sbang to bily, shly IP, scat Sd, nis Ls, aa, gry IP, incr abund shly Sd Sh, dk omglbm/grylt gn, fess IP, brt to gmy Ls, cm/varic, mott, fr xn, sil foss, pr intpart por, pt dns to fr, calc IP, scat sndy pcs, shly, nis Ls, aa, scat omg/cm Cht Sh, grylcm/varic, fess IP, brt Sh, grylcm/lt gn/varic, sly to sndy, calc Ls, cmflan/lt gry, micr-fn xn, NVP, dns to sub-chly, calc IP, bily to sbang, chy IP, nis Sh, grylt gn/blk carb, pyc IP Sh, grylcm carb, pyc Sh, aa Sat, ck/vf-fn gry, vf-fn gm, mod srt, pr intgran por, consl, fit transp to trans, pyc IP, shly IP, nis Sh, bmdk omg/gn/varic, pred sly to sndy, gry IP Sh, grylcm/lt gn/varic, fess IP, sndy IP Mississippian 5078 (-1706) Sat, wht, vf-fn gm, mod-pr srt, pr intgran por, sil frt to brt, sub-mdd, glau, shly IP, nis Ls, cmflan/bm, micr-fn xn, NVP, dns to sub-chly, calc IP, bily to sbang, chy IP, nis Sh, dk gry, pyc Dol, bmltanlcm, mott IP, vf-fn xn, pr intbn por, suc brt, dns/ht, sil bily to sbang, scat wht Cht, nis Ls, tanlcm/omg, frs to sil wht, trp IP, no-prvs por, calc IP, scat tanlcm Dol aa, nis Dol, tanlcm/lt gry, fr xn, pr intbn por, pt dns to sub-chly, frt to sil argl, suc brt, sub-mdd, Tr glauc pcs, nis Ls, cmflan/bm, sing, vf-fn xn, no-prvs por, dns to chy, calc crt, dolc IP, incr abund varic Sh, nis Sh, varic, sly to sndy IP RTD 5160 (-1788) Deviation Survey @ 5160' : 1/2"	
4040 - 4040		Pipe Strap @ 3998': 01" Long to Board Deviation Survey; 1"
4040 - 4040		Morgan Mud @ 4008' Wt: 8.6 Vis: 62 Chl: 600 LCM: 2#
4040 - 4040		Morgan Mud @ 4420' Wt: 8.9 Vis: 51 Chl: 1,000 LCM: 1# Deviation Survey @ 4432' : 1"
4040 - 4040		DST #1 (LKC B-D) 4365'-4432' 15-60-15-60 IF: BOB in 1 min FSI: No blow FF: BOB in 1 min FSI: No blow Rec: 177' MW (80%W, 20%M), 1638' MW (70%W, 30%M) IFP: 172 - 525 FFP: 566 - 824 ISIP: 1318 FSP: 1316 IHP: 2194 FHP: 2014 BHT: 155°
4040 - 4040		DST #2 (LKC G) 4438'-4477' 30-60-30-60 IF: Blow built to 4 3/4" FF: Blow built to 1 1/2" Rec: 123' M (100%M) IFP: 45 - 58 FFP: 61 - 74 ISIP: 1417 FSP: 1390 IHP: 2164 FHP: 2058 BHT: 136°
4040 - 4040		DST #4 (LKC J) 4504'-4538' "Straddle" 30-60-60-90 IF: Blow built to 1/2" FF: No blow Rec: 2' M (100%M) IFP: 16 - 17 FFP: 17 - 19 ISIP: 437 FSP: 565 IHP: 2327 FHP: 2142 BHT: 136°
4040 - 4040		Morgan Mud @ 4679' Wt: 9.2 Vis: 42 Chl: 600 LCM: 2# DST #5 (Ft Scott) 4726'-4752' "Straddle" 60-30-60-30 IF: Blow built to 3 3/4" IS: No blow FF: Blow built to 2 1/4" Rec: 177' OCM (65%M, 35%O), 50' MCO (70%O, 30%M) IFP: 37 - 84 FFP: 94 - 108 ISIP: 398 FSP: 465 IHP: 2403 FHP: 2274 BHT: 155°
4040 - 4040		DST #3 (Ft Scott-Colla) 4718'-4870' 30-60-30-60 IF: Blow built to 8" IS: No blow FF: Blow built to 4 1/2" Rec: No blow 20' GOCM (60%M, 30%O, 10%G), 177' GOCM (40%M, 40%O, 20%G) IFP: 39 - 81 FFP: 98 - 104 ISIP: 1162 FSP: 1050 IHP: 2356 FHP: 2222 BHT: 146°
4040 - 4040		Morgan Mud @ 4870' Wt: 9.2 Vis: 60 Chl: 1,500 LCM: 2# Deviation Survey @ 4870' : 1"
4040 - 4040		Morgan Mud @ 5158' Wt: 9.3 Vis: 53 Chl: 6.4 LCM: 1,500 LCM: 2# Deviation Survey @ 5160' : 1/2"



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

C-W Unit #1-14

14-1s-40w Cheyenne,KS

Start Date: 2023.02.17 @ 16:11:00

End Date: 2023.02.18 @ 00:12:30

Job Ticket #: 69677 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.02.23 @ 14:47:13

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

C-W Unit #1-14

DST # 1

LKC B-D

2023.02.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69677

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2023.02.17 @ 16:11:00

GENERAL INFORMATION:

Formation: **LKC B-D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:30

Time Test Ended: 00:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas/ David

Unit No: 71

Interval: 4365.00 ft (KB) To 4432.00 ft (KB) (TVD)

Reference Elevations: 3372.00 ft (KB)

Total Depth: 4432.00 ft (KB) (TVD)

3367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 823.84 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.17 End Date: 2023.02.18

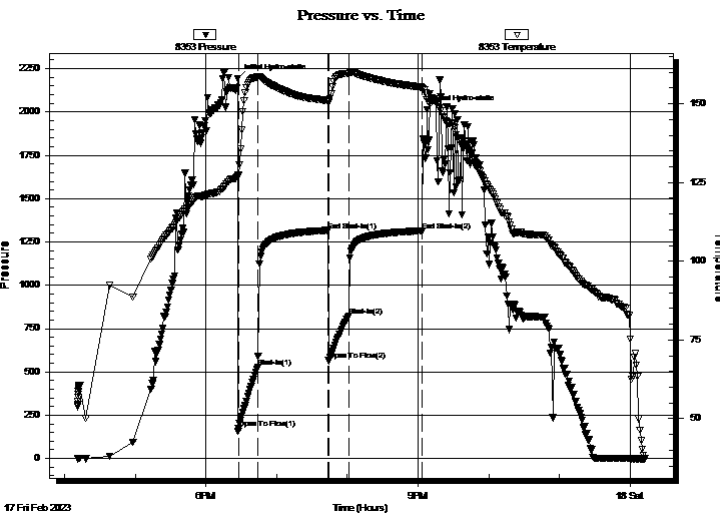
Last Calib.: 2023.02.18

Start Time: 16:11:01 End Time: 00:12:30

Time On Btm: 2023.02.17 @ 18:26:45

Time Off Btm: 2023.02.17 @ 21:07:30

TEST COMMENT: 15:IF- Strong surface blow , BOB in 1 min, final is 88 1/2"
60:IS- No blow back
15:FF- Strong surface blow , BOB in 1 min, final is 77 3/4"
60:FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.91	126.97	Initial Hydro-static
1	171.51	127.35	Open To Flow (1)
17	524.94	158.52	Shut-In(1)
77	1316.83	150.97	End Shut-In(1)
78	565.88	150.50	Open To Flow (2)
95	823.84	159.63	Shut-In(2)
157	1315.68	155.19	End Shut-In(2)
161	2013.94	151.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	MW 80%W 20%M	0.87
1638.00	MW 70%W 30%M	22.98

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69677

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2023.02.17 @ 16:11:00

Tool Information

Drill Pipe:	Length: 4173.00 ft	Diameter: 3.80 inches	Volume: 58.54 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 59.41 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4365.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Pulling tight as we are coming out of the hole

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Jars	5.00			4348.00	
EM Tool	4.00			4352.00	
Safety Joint	3.00			4355.00	
Packer	5.00			4360.00	32.00 Bottom Of Top Packer
Packer	5.00			4365.00	
Stubb	1.00			4366.00	
Recorder	0.00	8353	Inside	4366.00	
Recorder	0.00	8676	Outside	4366.00	
Perforations	30.00			4396.00	
Change Over Sub	1.00			4397.00	
Blank Spacing	31.00			4428.00	
Change Over Sub	1.00			4429.00	
Bullnose	3.00			4432.00	67.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69677

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2023.02.17 @ 16:11:00

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:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.41 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	MW 80%W 20%M	0.870
1638.00	MW 70%W 30%M	22.977

Total Length: 1815.00 ft Total Volume: 23.847 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

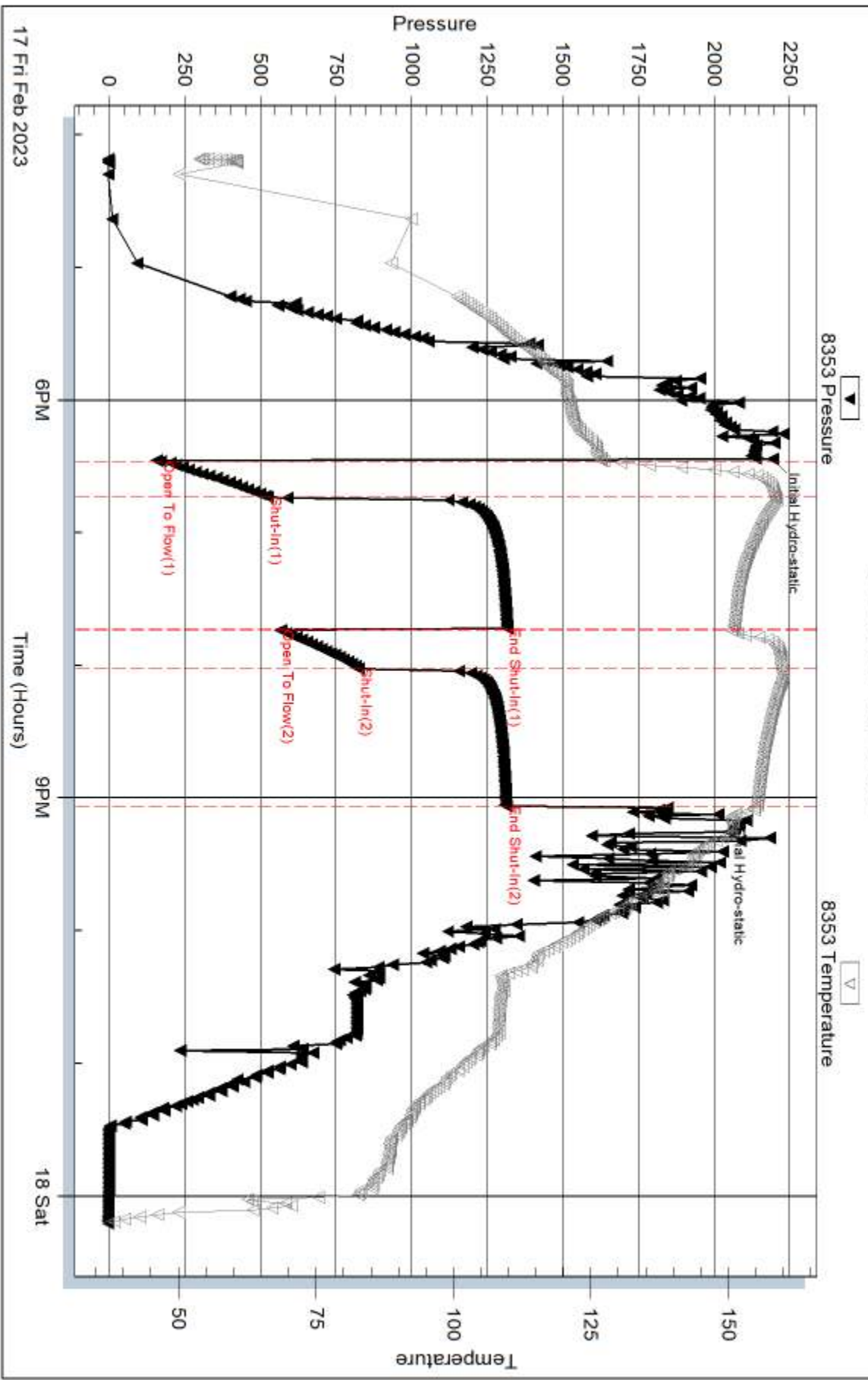
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .405 @ 39 degrees= 32,000 ppm

Pressure vs. Time

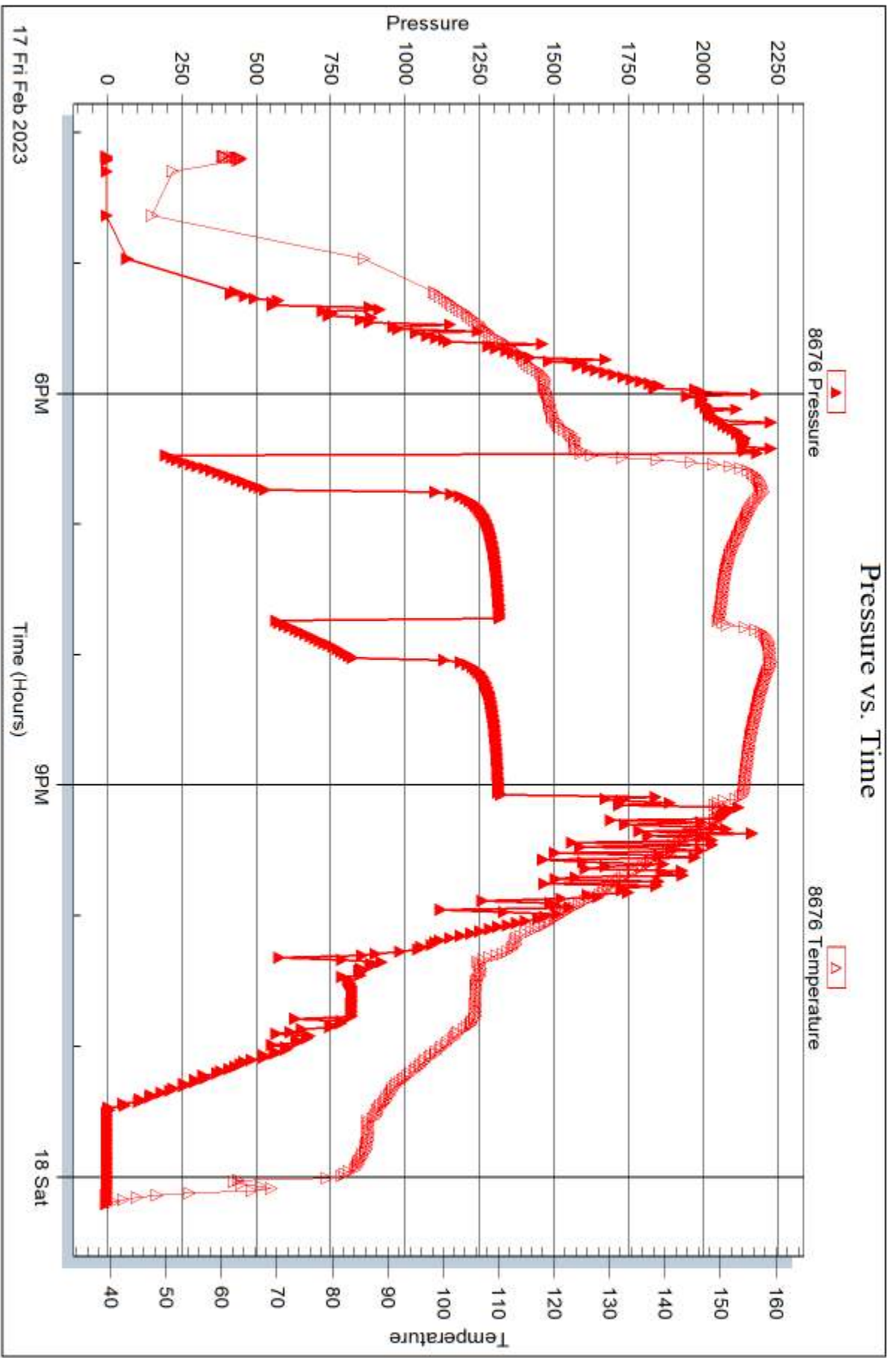


Serial #: 8676

Outside Marfin Drilling Company Inc

C-W Unit #1-14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 69677

Printed: 2023.02.23 @ 14:47:14



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

C-W Unit #1-14

14-1s-40w Cheyenne,KS

Start Date: 2023.02.18 @ 09:30:00

End Date: 2023.02.18 @ 16:16:15

Job Ticket #: 69678 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.02.23 @ 14:46:46



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69678

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2023.02.18 @ 09:30:00

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:07:45

Time Test Ended: 16:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas/ David

Unit No: 71

Interval: 4438.00 ft (KB) To 4477.00 ft (KB) (TVD)

Reference Elevations: 3372.00 ft (KB)

Total Depth: 4477.00 ft (KB) (TVD)

3367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 74.01 psig @ 4439.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.18

End Date: 2023.02.18

Last Calib.: 2023.02.18

Start Time: 09:30:01

End Time: 16:16:15

Time On Btm: 2023.02.18 @ 11:07:00

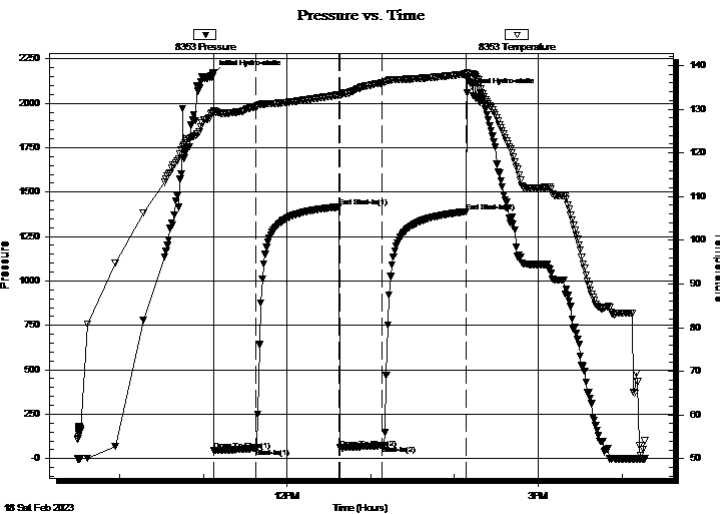
Time Off Btm: 2023.02.18 @ 14:09:00

TEST COMMENT: 30:IF- Weak surface blow , built to 4" in 10 min, final is 4 3/4" (Diesel in blow bucket)

60:IS- No blow back

30:FF- Weak surface blow , built to 1/2" in 10 min, final is 1 1/4"

60:FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.81	129.26	Initial Hydro-static
1	45.39	129.53	Open To Flow (1)
31	57.72	130.64	Shut-In(1)
91	1416.83	133.25	End Shut-In(1)
91	60.92	133.11	Open To Flow (2)
121	74.01	136.06	Shut-In(2)
182	1390.24	138.04	End Shut-In(2)
182	2057.54	138.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	Mud 100%M	0.60

* 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 Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69678

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2023.02.18 @ 09:30:00

Tool Information

Drill Pipe:	Length: 4237.00 ft	Diameter: 3.80 inches	Volume: 59.43 bbl	Tool Weight:	25000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4438.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	71.00 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			4411.00	
Hydraulic tool	5.00			4416.00	
Jars	5.00			4421.00	
EM Tool	4.00			4425.00	
Safety Joint	3.00			4428.00	
Packer	5.00			4433.00	32.00 Bottom Of Top Packer
Packer	5.00			4438.00	
Stubb	1.00			4439.00	
Recorder	0.00	8353	Inside	4439.00	
Recorder	0.00	8676	Outside	4439.00	
Perforations	35.00			4474.00	
Bullnose	3.00			4477.00	39.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69678

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2023.02.18 @ 09:30:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 0.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	Mud 100%M	0.605

Total Length: 123.00 ft

Total Volume: 0.605 bbl

Num Fluid Samples: 0

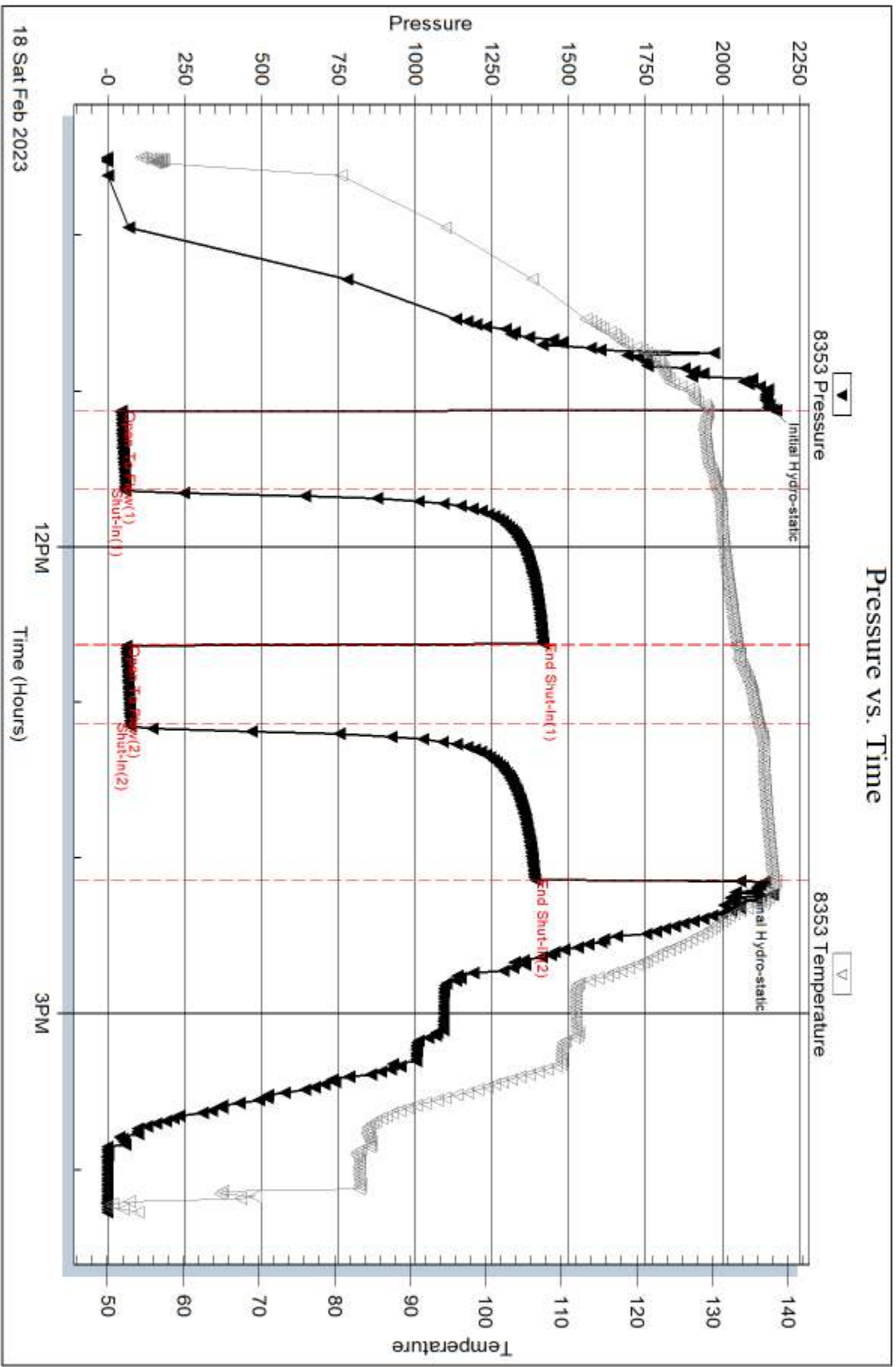
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

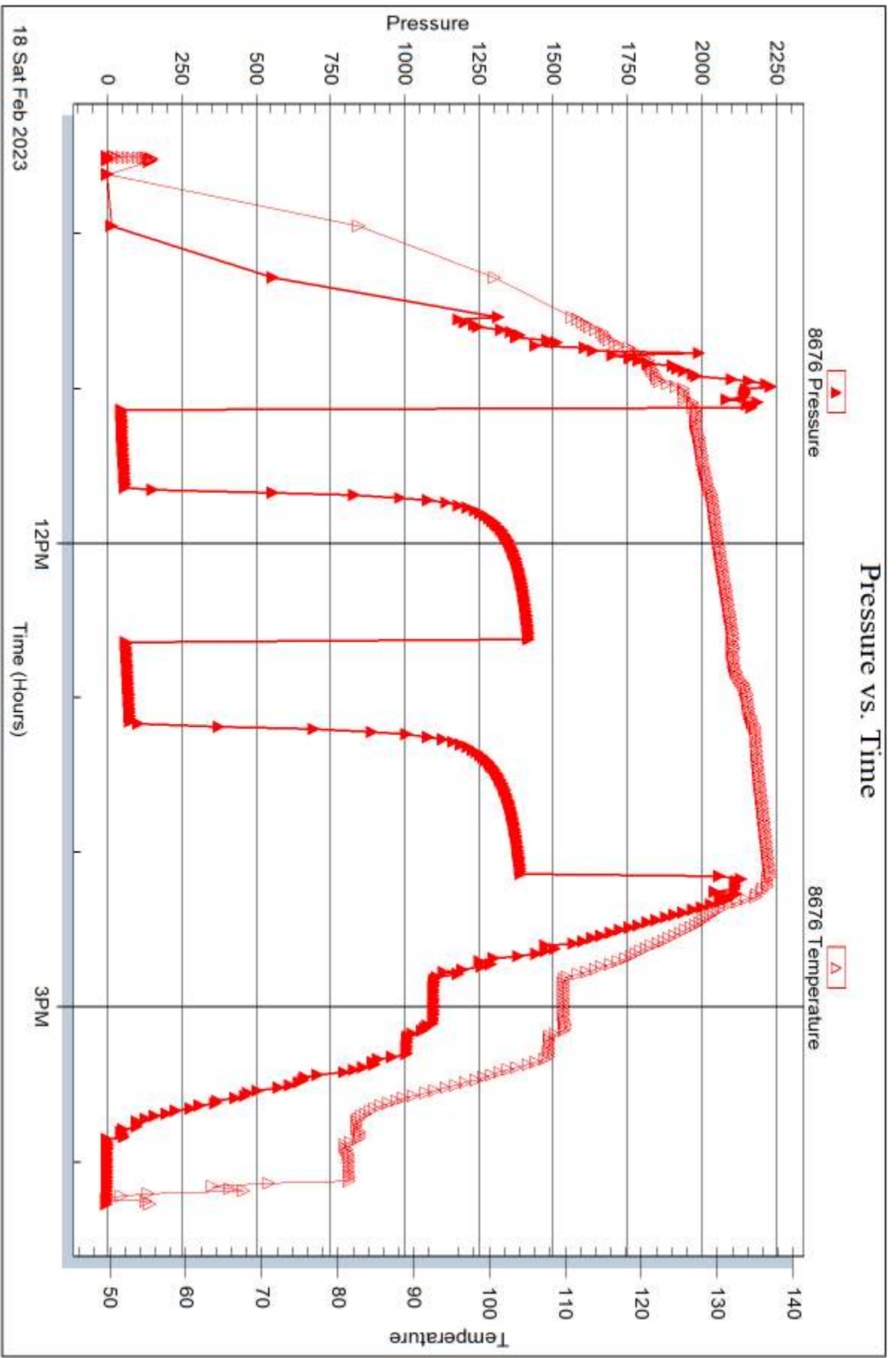


Serial #: 8676

Outside Marfin Drilling Company Inc

C-W Unit #1-14

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69678

Printed: 2023.02.23 @ 14:46:47



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

C-W Unit #1-14

14-1s-40w Cheyenne,KS

Start Date: 2023.02.20 @ 03:45:00

End Date: 2023.02.20 @ 11:18:45

Job Ticket #: 69679 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.02.23 @ 14:46:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69679

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2023.02.20 @ 03:45:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Celia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:06:00

Time Test Ended: 11:18:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas/ David

Unit No: 71

Interval: 4718.00 ft (KB) To 4870.00 ft (KB) (TVD)

Total Depth: 4870.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3372.00 ft (KB)

3367.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 103.56 psig @ 4719.00 ft (KB)

Start Date: 2023.02.20

End Date:

2023.02.20

Start Time: 03:45:01

End Time:

11:18:45

Capacity: 8000.00 psig

Last Calib.: 2023.02.20

Time On Btm: 2023.02.20 @ 06:05:15

Time Off Btm: 2023.02.20 @ 09:16:30

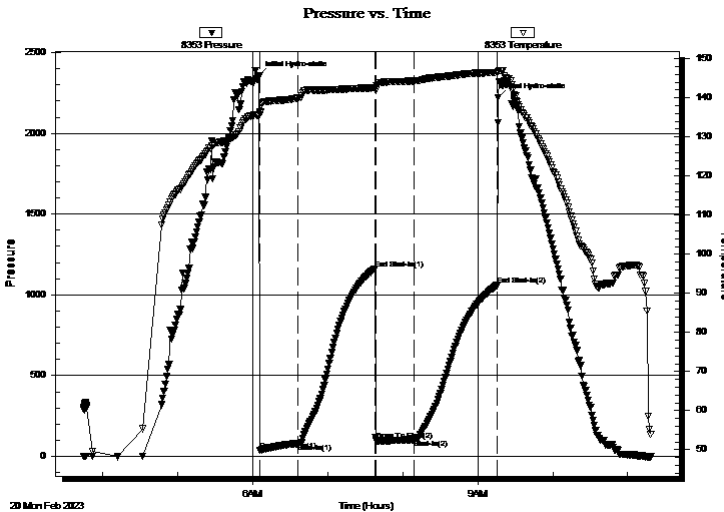
TEST COMMENT: 30:IF- Weak surface blow , built to 4 1/2 inches in 10 minutes, Final 8 inches. (using diesel in bucket)

60:IS- No blow back.

30:FF- Weak surface blow , built to 2 1/2 inches in 10 minutes, Final 4 1/2 inches.

60:FS- No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.83	135.54	Initial Hydro-static
1	38.61	136.21	Open To Flow (1)
31	81.07	139.92	Shut-In(1)
93	1161.87	142.59	End Shut-In(1)
94	97.57	142.69	Open To Flow (2)
124	103.56	144.32	Shut-In(2)
191	1060.24	146.50	End Shut-In(2)
192	2221.86	146.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	GOCM 40%M 40%O 20%G	0.87
20.00	GOCM 60%M 30%O 10%G	0.28

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69679

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2023.02.20 @ 03:45:00

Tool Information

Drill Pipe:	Length: 4519.00 ft	Diameter: 3.80 inches	Volume: 63.39 bbl	Tool Weight: 25000.00 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 64.26 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4718.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	184.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4691.00	
Hydraulic tool	5.00			4696.00	
Jars	5.00			4701.00	
EM Tool	4.00			4705.00	
Safety Joint	3.00			4708.00	
Packer	5.00			4713.00	32.00 Bottom Of Top Packer
Packer	5.00			4718.00	
Stubb	1.00			4719.00	
Recorder	0.00	8353	Inside	4719.00	
Recorder	0.00	8676	Outside	4719.00	
Perforations	20.00			4739.00	
Change Over Sub	1.00			4740.00	
Blank Spacing	126.00			4866.00	
Change Over Sub	1.00			4867.00	
Bullnose	3.00			4870.00	152.00 Bottom Packers & Anchor

Total Tool Length: 184.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69679

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2023.02.20 @ 03:45:00

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	GOCM 40%M 40%O 20%G	0.870
20.00	GOCM 60%M 30%O 10%G	0.281

Total Length: 197.00 ft Total Volume: 1.151 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

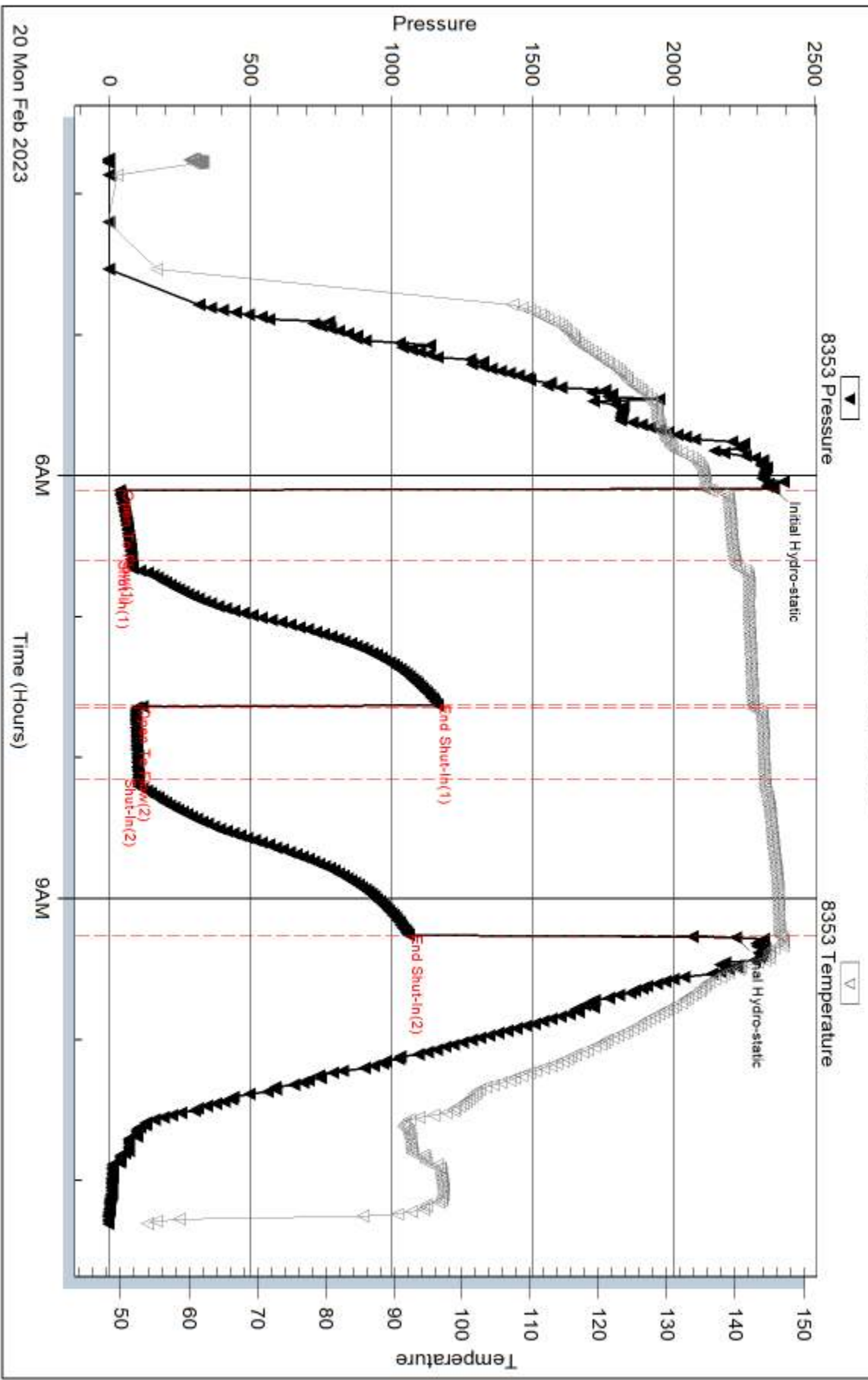
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Did not have enough oil to get a gravity.

Pressure vs. Time

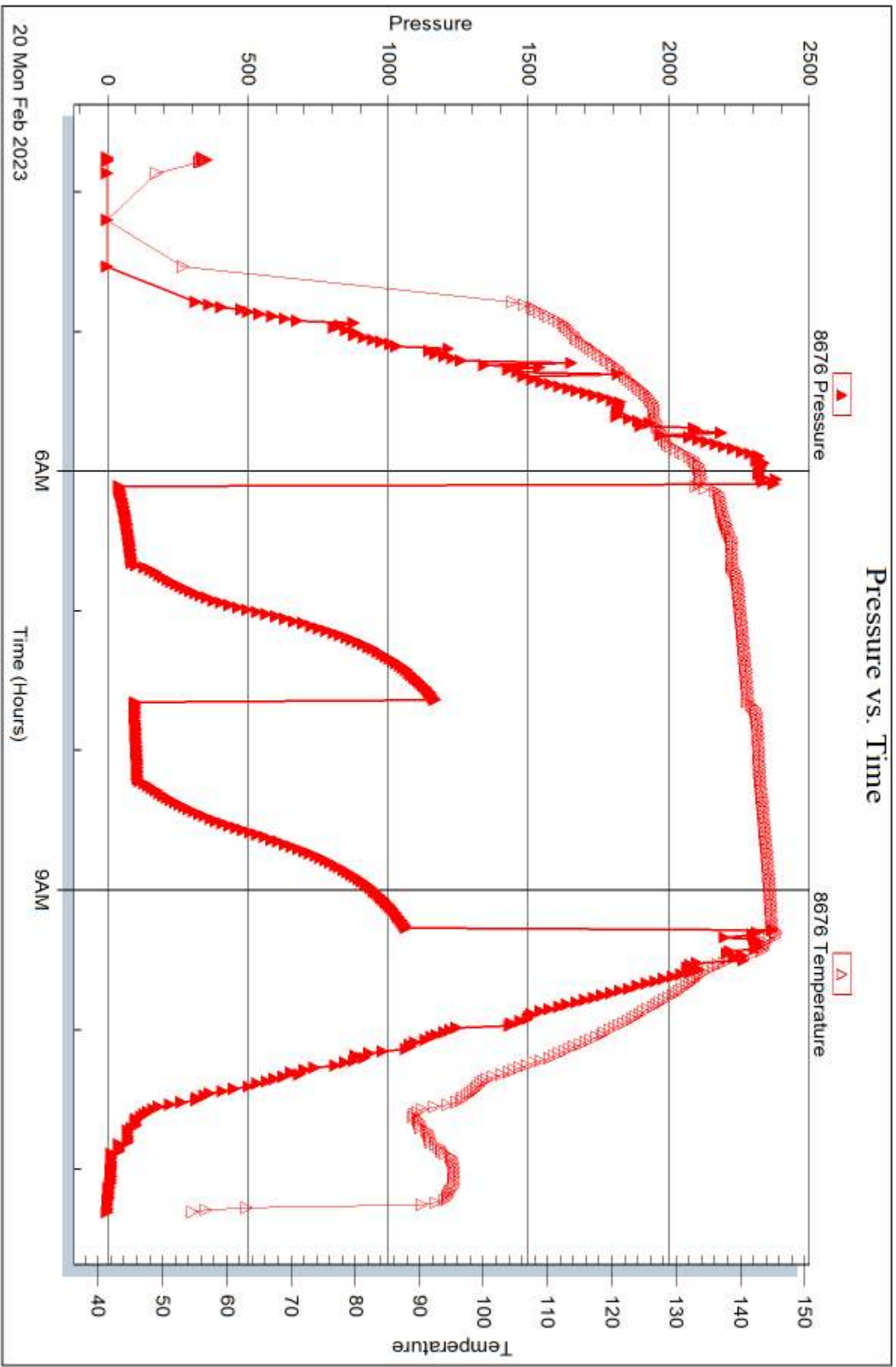


Serial #: 8676

Outside Marfin Drilling Company Inc

C-W Unit #1-14

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69679

Printed: 2023.02.23 @ 14:46:21



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

C-W Unit #1-14

14-1s-40w Cheyenne,KS

Start Date: 2023.02.21 @ 20:05:00

End Date: 2023.02.22 @ 04:34:45

Job Ticket #: 69680 DST #: 4

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

Printed: 2023.02.23 @ 14:44:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69680

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2023.02.21 @ 20:05:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:57:45

Time Test Ended: 04:34:45

Test Type: Conventional Straddle (Reset)

Tester: Nathan Aneas/ David

Unit No: 71

Interval: 4504.00 ft (KB) To 4538.00 ft (KB) (TVD)

Total Depth: 5162.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3372.00 ft (KB)

3367.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353 Inside

Press@RunDepth: 19.25 psig @ 4505.00 ft (KB)

Start Date: 2023.02.21

End Date:

2023.02.22

Start Time: 20:05:01

End Time:

04:34:45

Capacity: 8000.00 psig

Last Calib.: 2023.02.22

Time On Btm: 2023.02.21 @ 21:57:00

Time Off Btm: 2023.02.22 @ 02:19:30

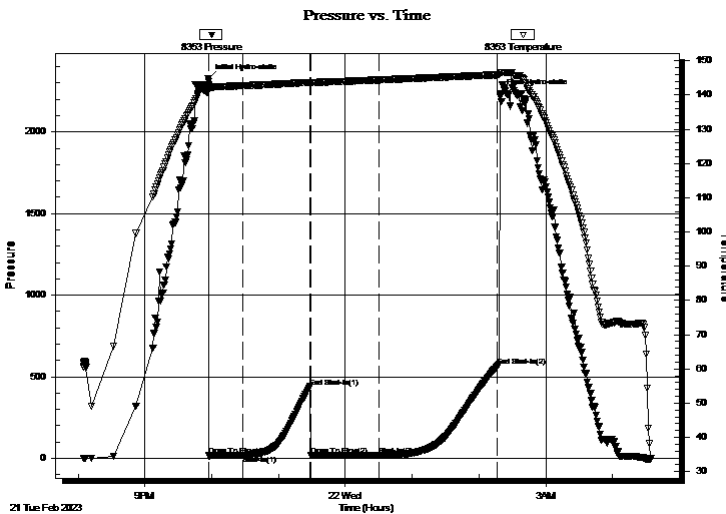
TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1/2" (Using diesel in bucket)

60:IS- No blow back

60:FF- No blow

90:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.38	142.86	Initial Hydro-static
1	16.05	142.51	Open To Flow (1)
31	17.03	142.74	Shut-In(1)
91	437.23	143.71	End Shut-In(1)
93	17.35	143.64	Open To Flow (2)
153	19.25	144.42	Shut-In(2)
260	564.83	145.91	End Shut-In(2)
263	2232.14	146.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M (spots of oil)	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69680

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2023.02.21 @ 20:05:00

Tool Information

Drill Pipe:	Length: 4325.00 ft	Diameter: 3.80 inches	Volume: 60.67 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.54 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4504.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4534.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	690.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4477.00	
Hydraulic tool	5.00			4482.00	
Jars	5.00			4487.00	
EM Tool	4.00			4491.00	
Safety Joint	3.00			4494.00	
Packer	5.00			4499.00	32.00 Bottom Of Top Packer
Packer	5.00			4504.00	
Stubb	1.00			4505.00	
Recorder	0.00	8353	Inside	4505.00	
Recorder	0.00	8676	Outside	4505.00	
Perforations	28.00			4533.00	
Blank Off Sub	1.00			4534.00	30.00 Tool Interval
Packer	4.00			4538.00	
Stubb	1.00			4539.00	
Recorder	0.00	8646	Below	4539.00	
Perforations	19.00			4558.00	
Change Over Sub	1.00			4559.00	
Blank Spacing	599.00			5158.00	
Change Over Sub	1.00			5159.00	
Bullnose	3.00			5162.00	628.00 Bottom Packers & Anchor

Total Tool Length: 690.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69680

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2023.02.21 @ 20:05:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M (spots of oil)	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

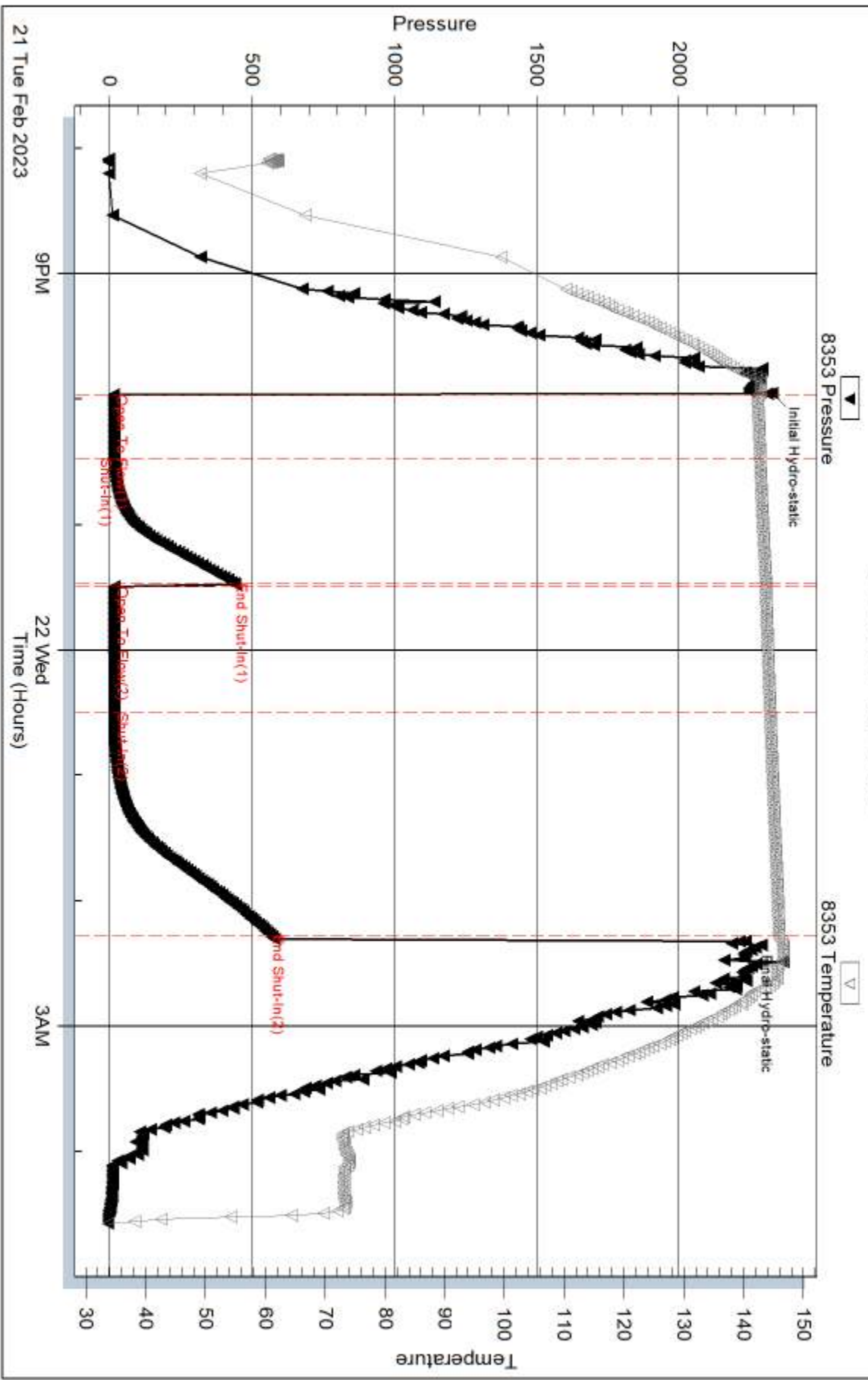
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

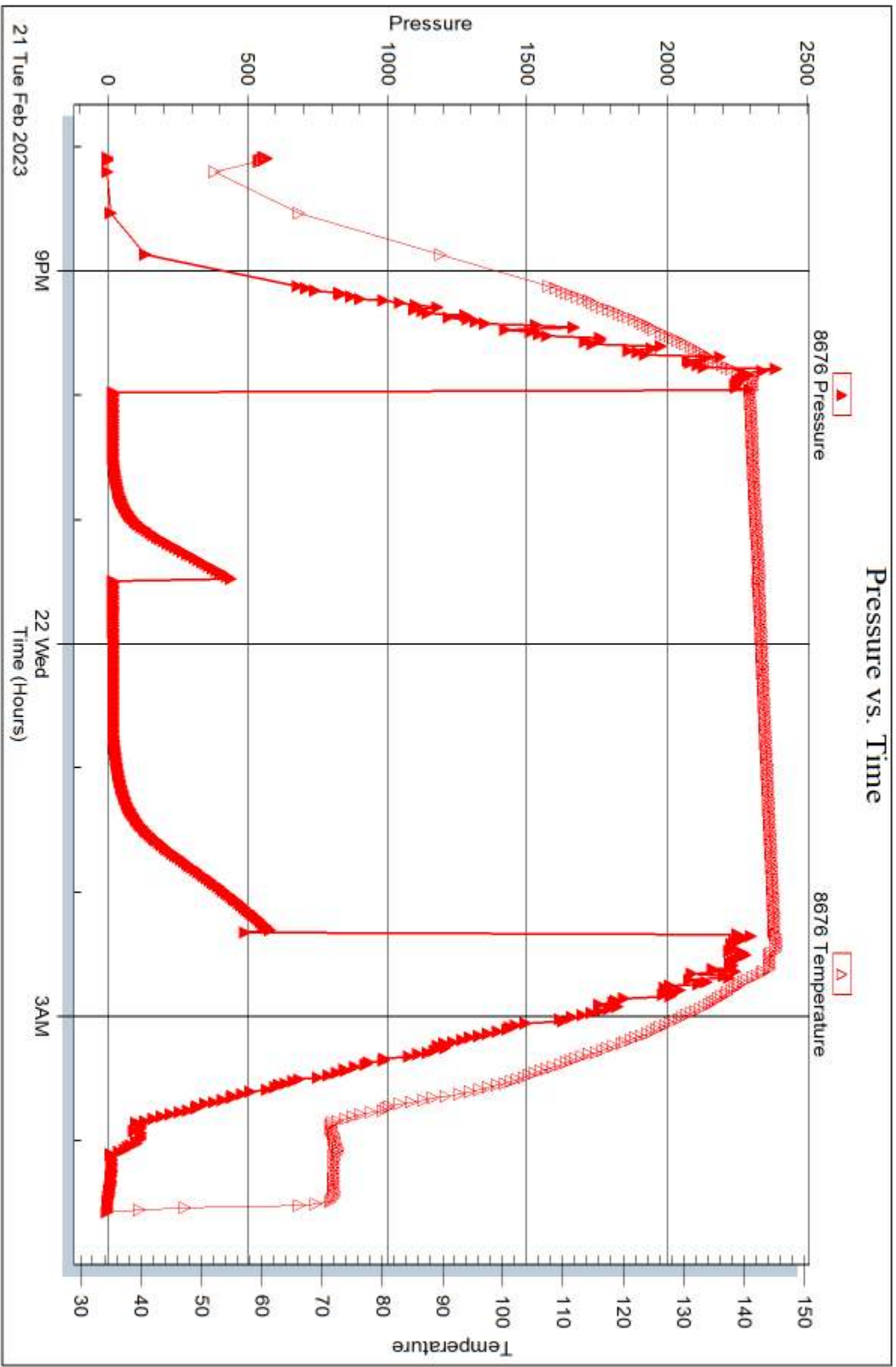


Serial #: 8676

Outside Marfin Drilling Company Inc

C-W Unit #1-14

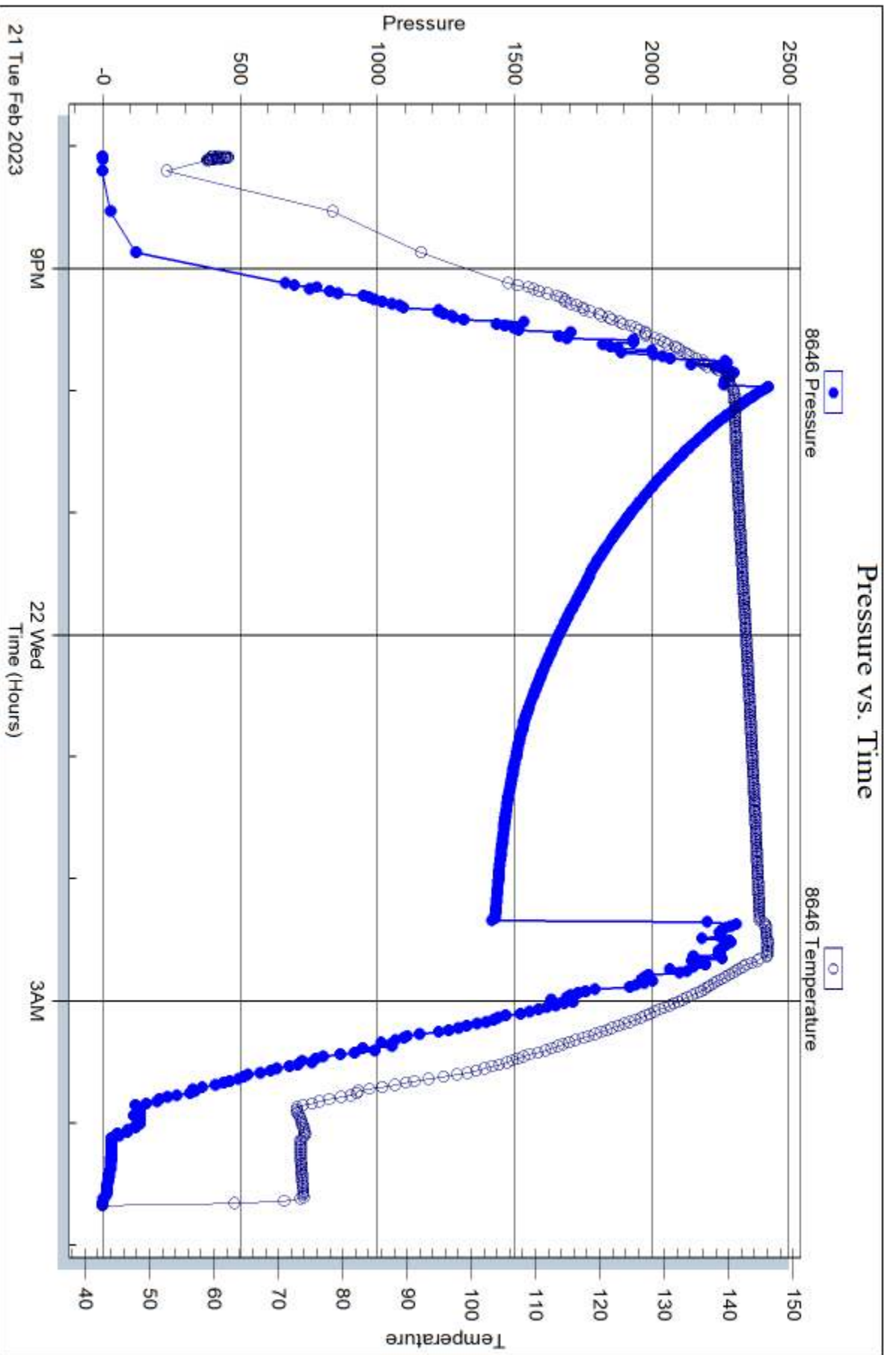
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 69680

Printed: 2023.02.23 @ 14:44:28





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

C-W Unit #1-14

14-1s-40w Cheyenne,KS

Start Date: 2023.02.22 @ 07:45:00

End Date: 2023.02.22 @ 17:35:45

Job Ticket #: 69681 DST #: 5

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

Printed: 2023.02.23 @ 14:43:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69681

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2023.02.22 @ 07:45:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:52:45

Time Test Ended: 17:35:45

Test Type: Conventional Straddle (Reset)

Tester: Nathan Aneas/ David

Unit No: 71

Interval: 4726.00 ft (KB) To 4752.00 ft (KB) (TVD)

Reference Elevations: 3372.00 ft (KB)

Total Depth: 5162.00 ft (KB) (TVD)

3367.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353 Inside

Press@RunDepth: 107.88 psig @ 4727.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.22 End Date: 2023.02.22

Last Calib.: 2023.02.22

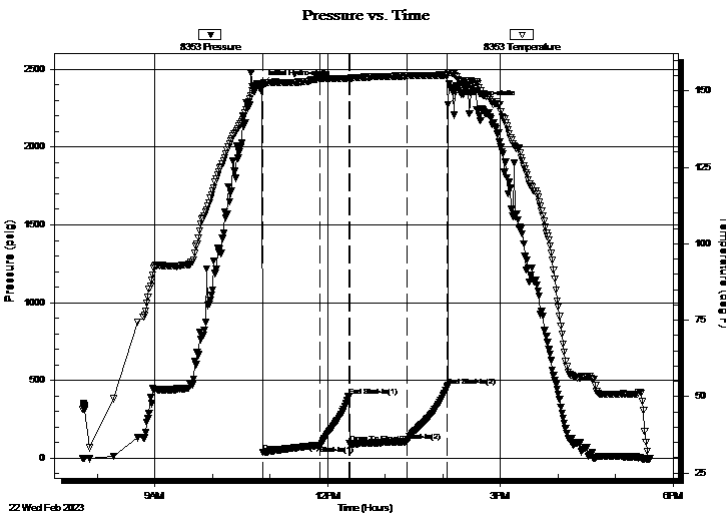
Start Time: 07:45:01 End Time: 17:35:45

Time On Btm: 2023.02.22 @ 10:52:00

Time Off Btm: 2023.02.22 @ 14:05:45

TEST COMMENT: 60:IF- Weak surface blow , built to 2 1/2" in 10 min, final is 3 3/4"
30:IS- No blow back
60:FF- Weak surface blow , built to 1" in 10 min, final is 2 3/4"
30:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2403.14	152.25	Initial Hydro-static
1	37.43	151.82	Open To Flow (1)
60	84.32	154.01	Shut-In(1)
90	397.83	154.08	End Shut-In(1)
91	93.96	154.13	Open To Flow (2)
151	107.88	154.96	Shut-In(2)
193	464.52	155.21	End Shut-In(2)
194	2273.75	155.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	OCM 65%M 35%O	0.87
50.00	MCO 70%O 30%M	0.70

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69681

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2023.02.22 @ 07:45:00

Tool Information

Drill Pipe:	Length: 4545.00 ft	Diameter: 3.80 inches	Volume: 63.75 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.62 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4726.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	4748.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	468.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4699.00	
Hydraulic tool	5.00			4704.00	
Jars	5.00			4709.00	
EM Tool	4.00			4713.00	
Safety Joint	3.00			4716.00	
Packer	5.00			4721.00	32.00 Bottom Of Top Packer
Packer	5.00			4726.00	
Stubb	1.00			4727.00	
Recorder	0.00	8353	Inside	4727.00	
Recorder	0.00	8676	Outside	4727.00	
Perforations	20.00			4747.00	
Blank Off Sub	1.00			4748.00	22.00 Tool Interval
Packer	4.00			4752.00	
Stubb	1.00			4753.00	
Recorder	0.00	8646	Below	4753.00	
Perforations	26.00			4779.00	
Change Over Sub	1.00			4780.00	
Blank Spacing	378.00			5158.00	
Change Over Sub	1.00			5159.00	
Bullnose	3.00			5162.00	414.00 Bottom Packers & Anchor

Total Tool Length: 468.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

14-1s-40w Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

C-W Unit #1-14

Job Ticket: 69681

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2023.02.22 @ 07:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
177.00	OCM 65%M 35%O	0.870
50.00	MCO 70%O 30%M	0.701

Total Length: 227.00 ft Total Volume: 1.571 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 29 Oil API @ 40 deg API corrected to 31 Oil API @ 60 deg API

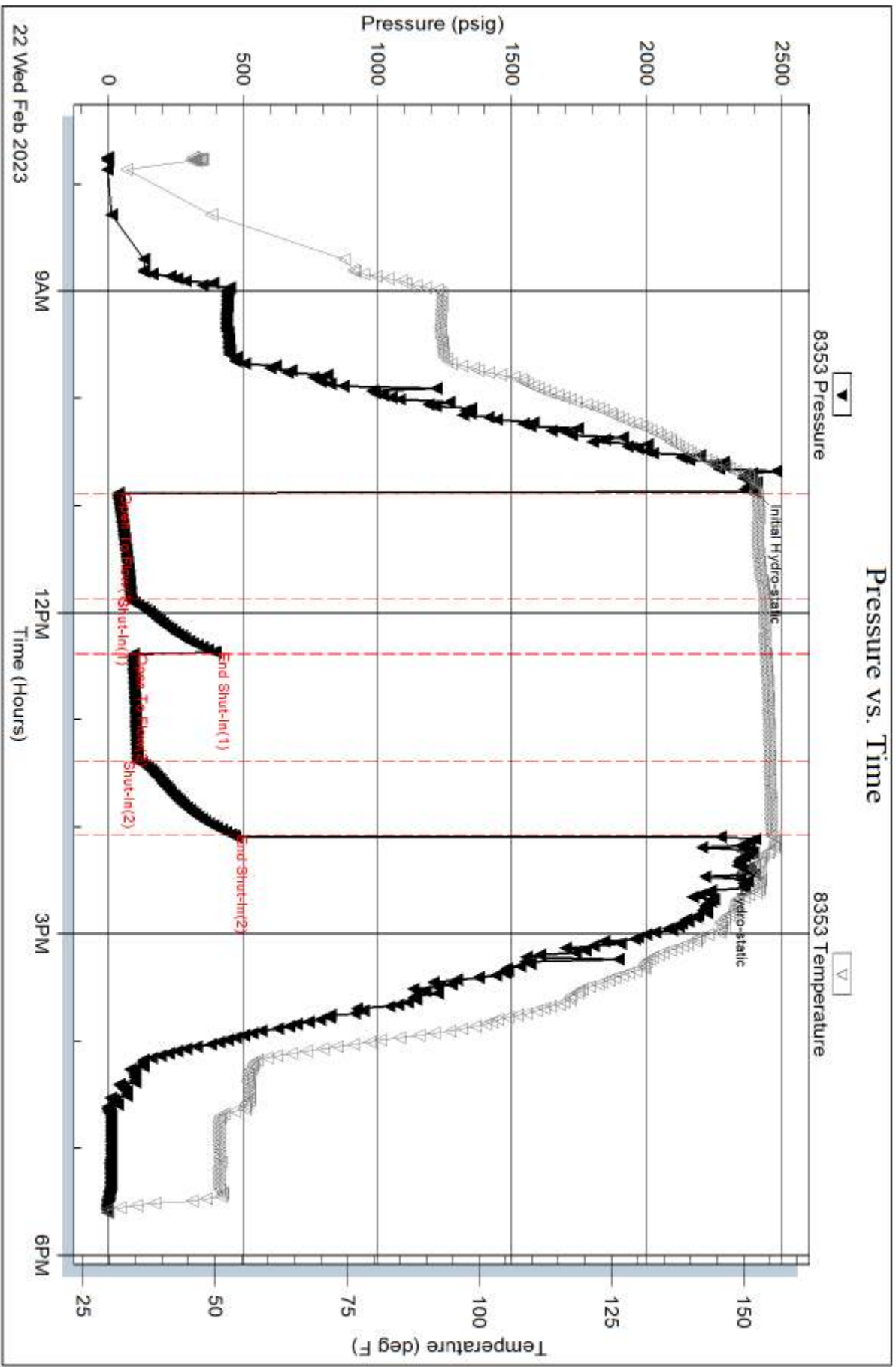
Serial #: 8353

Inside

Murfin Drilling Company Inc

C-W Unit #1-14

DST Test Number: 5

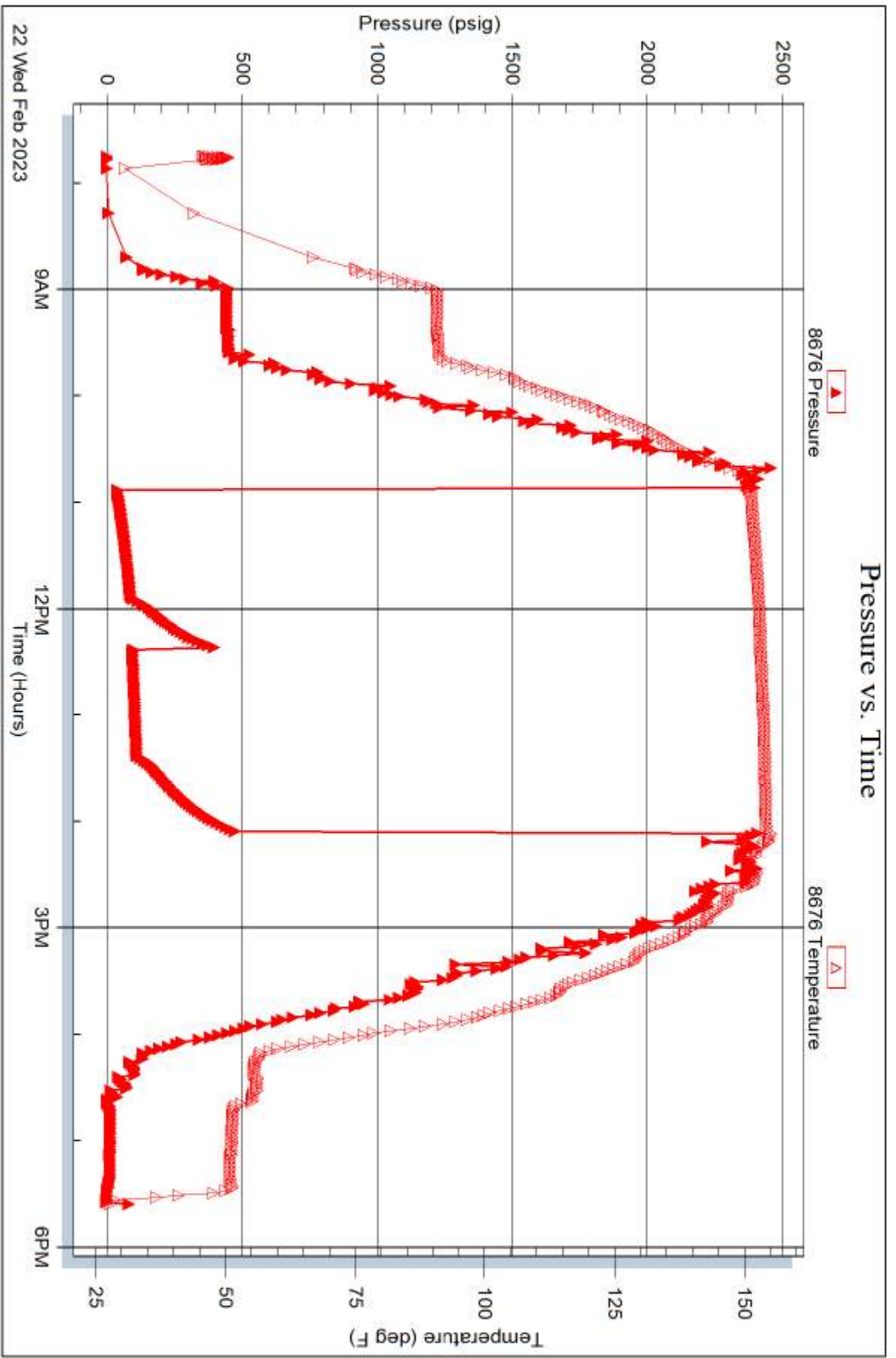


Serial #: 8676

Outside Marfin Drilling Company Inc

C-W Unit #1-14

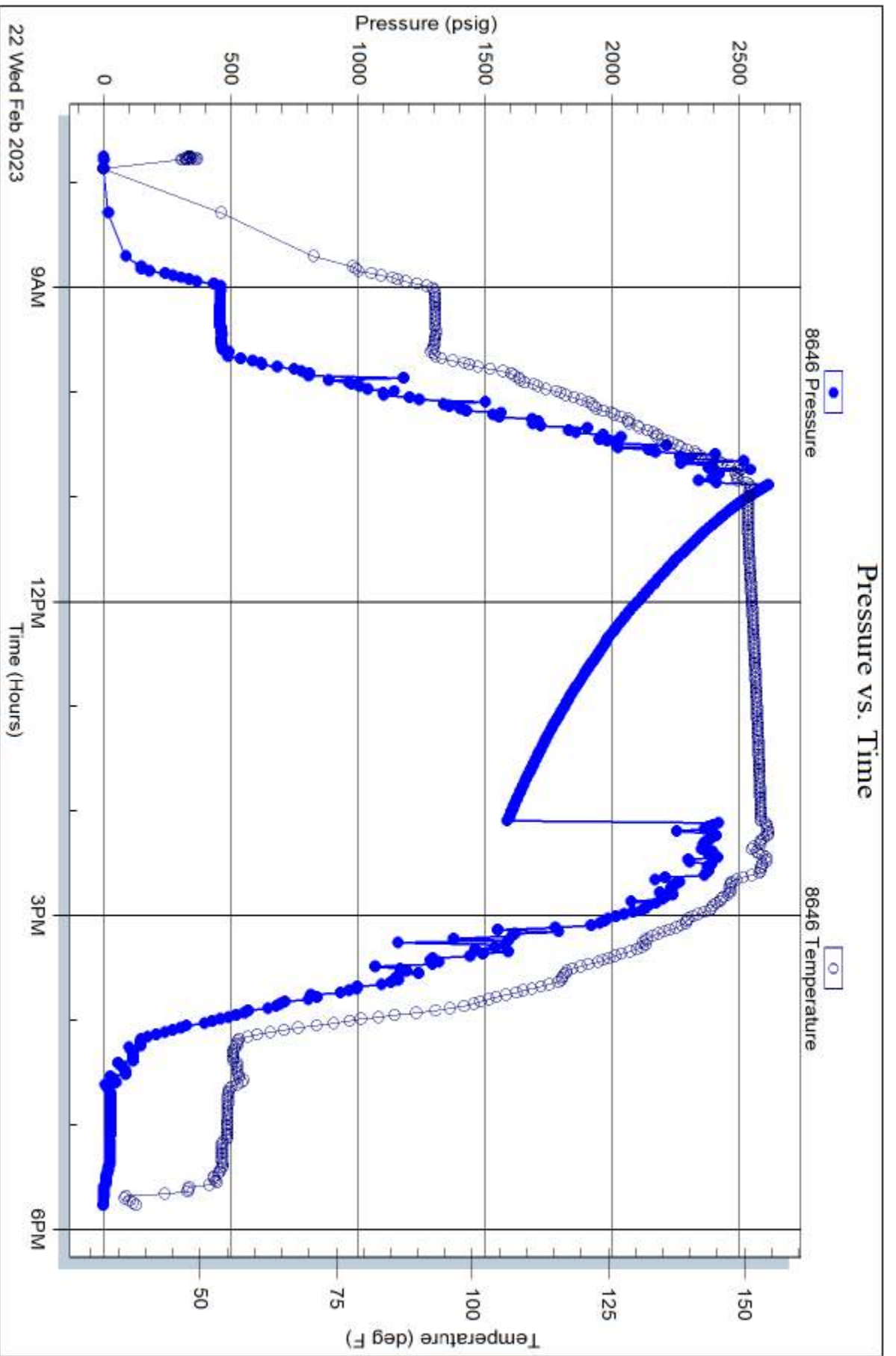
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 69681

Printed: 2023.02.23 @ 14:44:00





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69677

Well Name & No. C-W Unit #1-14 Test No. 1 Date 02/17/23
 Company Murfin Drilling Company Inc Elevation 3372 KB 3367 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Samah Sharifaie Rig Murfin #110
 Location: Sec. 14 Twp 1s Rge. 40w Co. Cheyenne State KS

Interval Tested 4365-4432 Zone Tested LKC B-D'
 Anchor Length 67' Drill Pipe Run 4173 Mud Wt. 8.9
 Top Packer Depth 4360 Drill Collars Run 177 Vis 51
 Bottom Packer Depth 4365 Wt. Pipe Run _____ WL 6.4
 Total Depth 4432 Chlorides 1000 ppm System LCM 1#

Blow Description FF- Strong surface blow, BOB in 1min, Final is 88 1/2"
ESI- No blow back
FF- Strong surface blow, BOB in 1min, Final is 77 3/4"
ESI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>177</u>			<u>80</u>	<u>20</u>	<u>0</u>
<u>1638</u>			<u>70</u>	<u>30</u>	<u>0</u>

Rec Total 1815' BHT 155 Gravity _____ API RW 405 @ 39 °F Chlorides 21,000 ppm 32.0
 (A) Initial Hydrostatic 2194 Test _____ T-On Location 14:45
 (B) First Initial Flow 172 Jars 300 T-Started 16:11
 (C) First Final Flow 525 Safety Joint _____ T-Open 18:27
 (D) Initial Shut-In 1317 Circ Sub _____ T-Pulled 21:05
 (E) Second Initial Flow 566 Hourly Standby _____ T-Out 00:15
 (F) Second Final Flow 824 Mileage 198 RT 346.50 Comments _____
 (G) Final Shut-In 1316 Sampler _____
 (H) Final Hydrostatic 2014 Straddle _____ EM Tool -350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Recorder _____
 Extra Copies _____

Initial Open 15
 Initial Shut-In 60
 Final Flow 15
 Final Shut-In 60

Sub Total 2596.50 MP/DST Disc't _____
 Our Representative [Signature]

Approved By _____
 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 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. **69678**

Well Name & No. C-W Unit #1-14 Test No. 2 Date 02/18/23
 Company Murfin Drilling Company Inc Elevation 3372 KB 3367 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 14 Twp 15 Rge. 40W Co. Cheyenne State KS

Interval Tested 4438-4477 Zone Tested LKC G1
 Anchor Length 39' Drill Pipe Run 4237 Mud Wt. 9.0
 Top Packer Depth 4433 Drill Collars Run 177 Vis 50
 Bottom Packer Depth 4438 Wt. Pipe Run _____ WL 0
 Total Depth 4477 Chlorides 1600 ppm System LCM 2#

Blow Description IF-Weak surface blow, built to 4" in 10 min, Final is 4 3/4" (using diesel)

IST- No blow back

FF-Weak surface blow, built to 1/2" in 10 min, Final is 1 1/4"

FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>123</u>	<u>Mud</u>			<u>100</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 123 BHT 136' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2164
- (B) First Initial Flow 45
- (C) First Final Flow 58
- (D) Initial Shut-In 1417
- (E) Second Initial Flow 61
- (F) Second Final Flow 74
- (G) Final Shut-In 1390
- (H) Final Hydrostatic 2058

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

- Test 1950
- Jars 300
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 42 RT 73.50
- Sampler _____
- Straddle _____
- Shale Packer 250
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 2573.50

T-On Location 07:45
 T-Started 09:30
 T-Open 11:07
 T-Pulled ~~10:15~~ 14:10
 T-Out 16:15
 Comments _____
 EM Tool -350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total -350
 Total 2223.50

Approved By _____ Our Representative Nathan Datta

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69679

Well Name & No. G-W Unit #1-14 Test No. 3 Date 07/20/23
 Company Murfin Drilling Inc. Elevation 3372 KB 3367 GL
 Address 250N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Skarific Rig Murfin #110
 Location: Sec. 14 Twp 15 Rge. 40W Co. Chyenne State KS

Interval Tested 4778-4870 Zone Tested FT Scott-Celia
 Anchor Length 152' Drill Pipe Run 4519 Mud Wt. 9.2
 Top Packer Depth 4713 Drill Collars Run 177 Vis 42
 Bottom Packer Depth 4718 Wt. Pipe Run _____ WL 6.8
 Total Depth 4870 Chlorides 1600 ppm System LCM 2.0 #
 Blow Description IF-Weak surface Blow, Built to 4 1/2" in 10 minutes, Final 8"
ISI-No Blow Back
FF-Weak surface Blow, 2 1/2" in 10 minutes, Final 4 1/2"
FST-No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>177</u>	<u>GOCM</u>	<u>20</u>	<u>40</u>	<u>40</u>	<u>40</u>
<u>20</u>	<u>GOCM</u>	<u>10</u>	<u>30</u>	<u>60</u>	<u>60</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 197 BHT 146° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2356</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>3:00</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>3:45</u>
(C) First Final Flow <u>81</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>9:15 6:00</u>
(D) Initial Shut-In <u>1162</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>9:15</u>
(E) Second Initial Flow <u>98</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>11:18</u>
(F) Second Final Flow <u>104</u>	<input checked="" type="checkbox"/> Mileage <u>42 RT</u> 73.50	Comments <u>"Using diesel"</u>
(G) Final Shut-In <u>1060</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2222</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 checked="" type="checkbox"/> Day Standby <u>1d 10.75h</u>	Sub Total <u>358.33</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2681.83</u>
	Sub Total <u>2323.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69680**

Well Name & No. C-W Unit #1-14 Test No. 4 Date 02/21/23
 Company Murfin Drilling Company Inc Elevation 3372 KB 3367 GL
 Address 250 N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 14 Twp 15 Rge. 40w Co. Cheyenne State KS

Interval Tested 4504-4538 Zone Tested LKC J
 Anchor Length 34' / Tail 624' Drill Pipe Run 4325 Mud Wt. 9.3
 Top Packer Depth 4499 Drill Collars Run 177 Vis 54
 Bottom Packer Depth 4504 Wt. Pipe Run _____ WL 6.4
 Total Depth 5162 Chlorides 1500 ppm System LCM 2#

Blow Description IF- Weak surface blow, built to 1/2" in 10min, Final 1/2" (using diesel)

TSI- No blow back
FF- No blow
FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Mud (spots of oil)</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 Total 2' BHT 145° Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm
 (A) Initial Hydrostatic 2327 Test 1950 T-On Location 18:00
 (B) First Initial Flow 16 Jars 300 T-Started 20:05
 (C) First Final Flow 17 Safety Joint _____ T-Open 21:57
 (D) Initial Shut-In 437 Circ Sub _____ T-Pulled 02:15
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 04:30
 (F) Second Final Flow 19 Mileage 42 RT 73.50 Comments _____
 (G) Final Shut-In 565 Sampler _____
 (H) Final Hydrostatic 2232 Straddle 800 EM Tool -175

Initial Open 30 Shale Packer _____ Ruined Shale Packer 550
 Initial Shut-In 60 Extra Packer _____ Ruined Packer x2 920
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby 1d 6.75h Sub Total 225 + 1470 -175
 Accessibility _____ Total 4643.50
 Sub Total 3123.50 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69681

Well Name & No. C-W Unit #1-14 Test No. 5 Date 02/22/23
 Company Murfin Drilling Company Inc Elevation 3372 KB 3367 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 14 Twp 1S Rge. 40W Co. Chayenne State KS

Interval Tested 4726-4752 Zone Tested Ft. Scott
 Anchor Length 26' / Tail 410' Drill Pipe Run 4545 Mud Wt. 9.3
 Top Packer Depth 4721 Drill Collars Run 177 Vls 53
 Bottom Packer Depth 4726 Wt. Pipe Run _____ WL 6.4
 Total Depth 5162 Chlorides 1500 ppm System LCM 2#'

Blow Description IF-Weak surface blow, built to 2 1/2" in 10 min, Final 3 3/4" (using diesel)
ISI- No blow back
EF Weak surface blow, built to 1" in 10 min, Final 2 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>177</u>	<u>OCM</u>	<u>35</u>		<u>65</u>	
<u>8050</u>	<u>MCO</u>	<u>70</u>		<u>30</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 227 BHT 155 Gravity 31 @ 60° API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2403</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>18:00 on 2/21/23</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>07:45</u>
(C) First Final Flow <u>84</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>10:52</u>
(D) Initial Shut-In <u>398</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:05</u>
(E) Second Initial Flow <u>94</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>07:35</u>
(F) Second Final Flow <u>108</u>	<input type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In <u>465</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2274</u>	<input checked="" type="checkbox"/> Straddle <u>800</u>	<input checked="" type="checkbox"/> EM Tool <u>-175</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby _____	Sub Total <u>-175</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2875</u>
	Sub Total <u>3050</u>	MP/DST Disc't _____

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

Approved By _____ Our Representative [Signature]
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FRANKS Oilfield Service

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

TICKET NUMBER 0864

LOCATION _____

FOREMAN _____

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-13-23	30606	C-W Off.	14	L	40	Cherokee

CUSTOMER Marden Drilling Co Inc		
MAILING ADDRESS 250 N Water St 300		
CITY Wichita	STATE KS	ZIP CODE 67202

TRUCK #	DRIVER	TRUCK #	DRIVER
103	TOM W		
4/301	BARB T		

JOB TYPE Surf Seal HOLE SIZE 12 3/4" HOLE DEPTH 217' CASING SIZE & WEIGHT 5 1/2" 25 lb
 CASING DEPTH 217' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safely working & set up on Marden #110, Cherokee. mixed
 mix 210 surf seal slurry & displaced 12.5 bbl slurry in 9:55 pm
 cement did circulate

Thanks Tom & Barb

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE <u>Surf Seal</u>	\$1150.00	\$1150.00
M001	128	MILEAGE	\$6.50	\$832.00
M002	10.25 tons	Ton M: Logg Delivery	\$1975.48	\$1975.48
C004	210 lb	Class A 210 lb 2.90 gal	\$25.50	\$5355.00
U005	100 lbs	sake	\$5.00	\$500.00
			subtotal	\$9,317.48
			less 5% disc.	\$468.13
			subtotal	\$8894.55
			SALES TAX	436.45
			ESTIMATED TOTAL	9381.00

AUTHORIZATION [Signature] TITLE _____ DATE _____

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

DRILLING REPORT - LOG TOPS - C-W UNIT 1-14

MDCI C-W Unit #1-14 1200' FSL 1320' FEL Sec. 14-T1S-R40W 3372' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3342	+30	+31	3375	-3	-2
B/Anhydrite	3381	-9	+26	3408	-36	-1
Topeka	4144	-772	-1	4136	-764	+7
Oread	4264	-892	+5	4264	-892	+5
Heebner	4294	-922	-1	4289	-917	+4
Lansing	4348	-976	-3	4342	-970	+3
Stark	4560	-1188	+1	4558	-1186	+3
Mound City	4612	-1240	+7	4620	-1248	-1
Ft. Scott	4741	-1369	+4	4741	-1369	+4
Mississippian	5085	-1713	+6	5078	-1706	+13
RTD	5160					
LTD				5162		