

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	HARRIS UNIT 1
Doc ID	1645731

Tops

Name	Top	Datum
Heebner	3015	-1176
Toronto	3037	-1198
Douglas	3048	-1209
Brown Lime	3126	-1287
Lansing	3144	-1305
BKC	3370	-1531
Conglomerate	3378	-1539
Arbuckle	3419	-1580



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Josh Austin

Harris Unit #1

30-19s-12 Barton,KS

Start Date: 2022.04.18 @ 22:15:00

End Date: 2022.04.19 @ 04:56:45

Job Ticket #: 68166 DST #: 1

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

Printed: 2022.04.26 @ 11:08:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

ATTN: Josh Austin

Job Ticket: 68166

DST#: 1

Test Start: 2022.04.18 @ 22:15:00

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:10:45

Time Test Ended: 04:56:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3130.00 ft (KB) To 3190.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3190.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 60.91 psig @ 3131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.18

End Date:

2022.04.19

Last Calib.: 2022.04.19

Start Time: 22:15:05

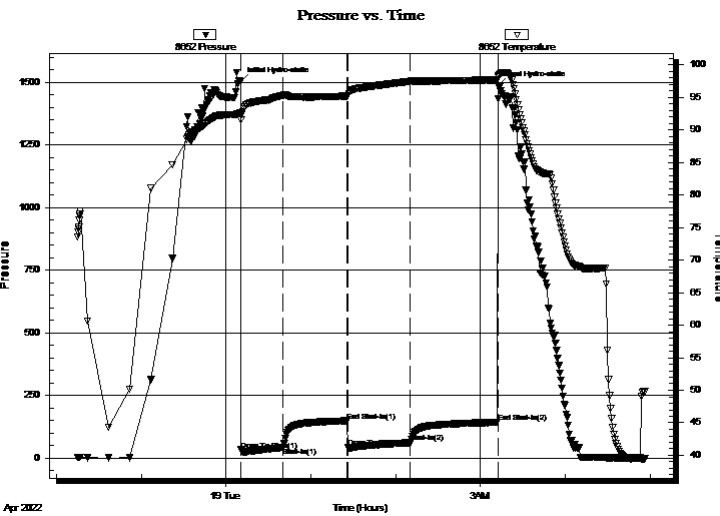
End Time:

04:56:44

Time On Btm: 2022.04.19 @ 00:10:30

Time Off Btm: 2022.04.19 @ 03:12:30

TEST COMMENT: IF-30- BOB in 1 min 40 sec, Built to 141"
SI1-45- No return
FF-45- BOB in 30 sec, Built to 163 1/4"
SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1503.88	92.66	Initial Hydro-static
1	32.26	91.61	Open To Flow (1)
30	42.83	95.32	Shut-In(1)
76	147.96	95.21	End Shut-In(1)
76	42.67	95.24	Open To Flow (2)
120	60.91	97.48	Shut-In(2)
182	142.03	97.70	End Shut-In(2)
182	1485.37	98.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	mud 100%	1.33
0.00	2120' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68166

DST#: 1

ATTN: Josh Austin

Test Start: 2022.04.18 @ 22:15:00

Tool Information

Drill Pipe:	Length: 3133.00 ft	Diameter: 3.80 inches	Volume: 43.95 bbl	Tool Weight: 24000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 43.95 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3130.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	91.00 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			3100.00	
shut In Tool	5.00			3105.00	
hydraulic tool	5.00			3110.00	
Jars	5.00			3115.00	
EM Tool	3.00			3118.00	
Safety Joint	3.00			3121.00	
Packer	5.00			3126.00	31.00 Bottom Of Top Packer
Packer	4.00			3130.00	
Stubb	1.00			3131.00	
Recorder	0.00	6625	Inside	3131.00	
Recorder	0.00	8652	Outside	3131.00	
perforations	15.00			3146.00	
change Over Sub	1.00			3147.00	
drill Pipe	32.00			3179.00	
change Over Sub	1.00			3180.00	
perforations	7.00			3187.00	
Bullnose	3.00			3190.00	60.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68166

DST#: 1

ATTN: Josh Austin

Test Start: 2022.04.18 @ 22:15:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	mud 100%	1.333
0.00	2120' GIP	0.000

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

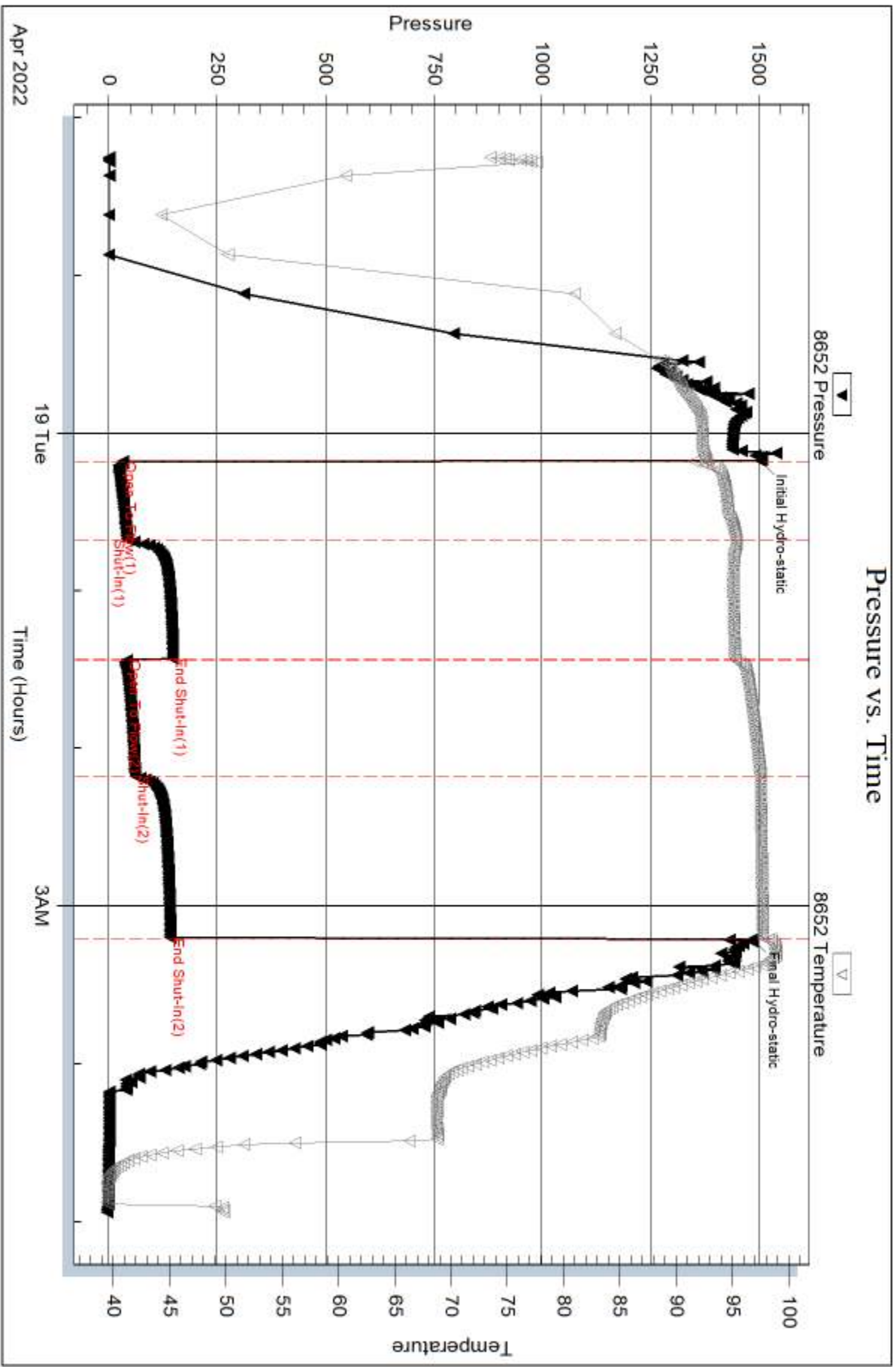
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2 1/2# LCM



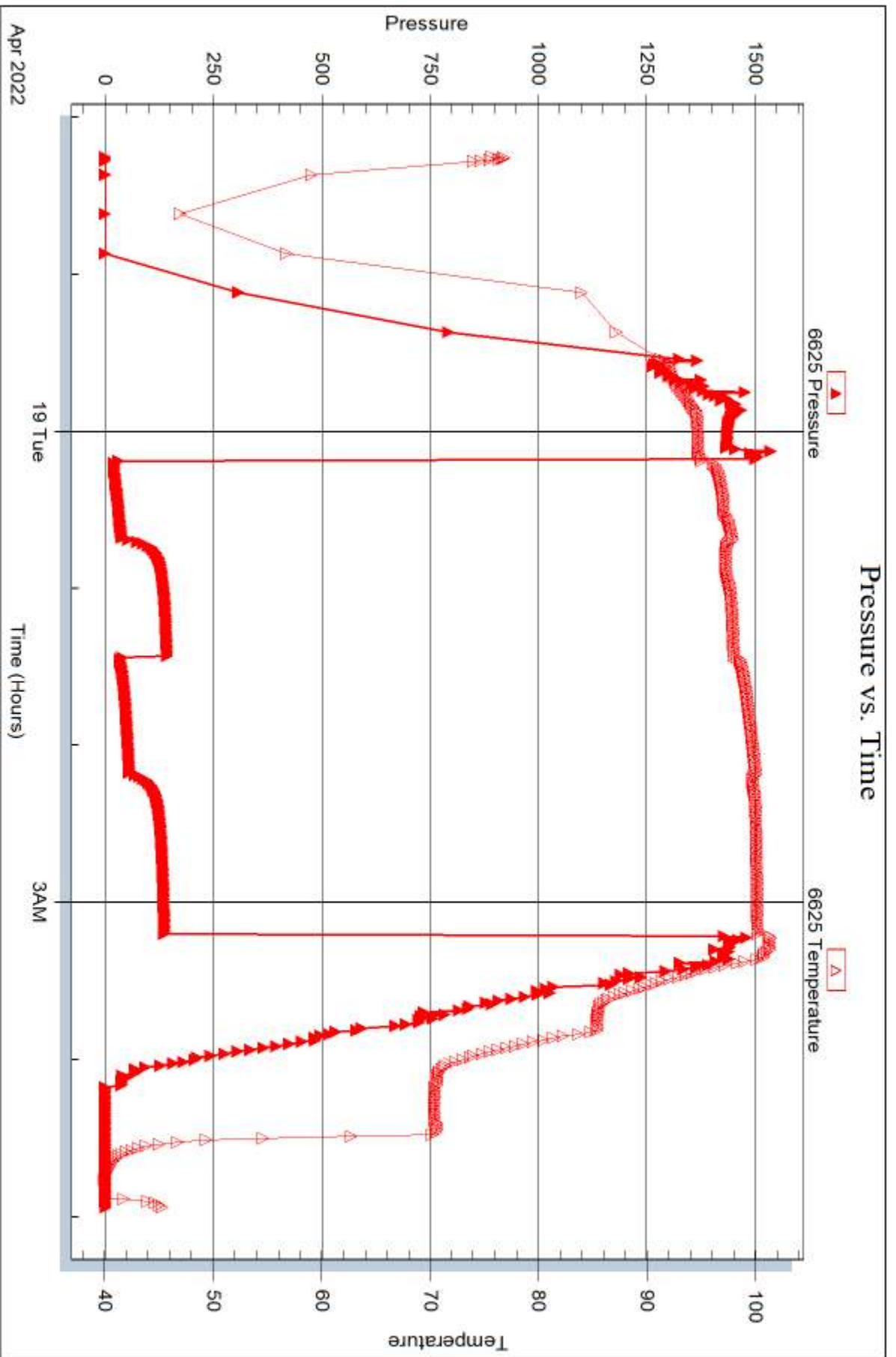
Serial #: 6625

Inside

Mai Oil Operations Inc.

Harris Unit #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68166

Printed: 2022.04.26 @ 11:08:26



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Josh Austin

Harris Unit #1

30-19s-12 Barton,KS

Start Date: 2022.04.19 @ 14:13:00

End Date: 2022.04.19 @ 20:36:45

Job Ticket #: 68167 DST #: 2

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

Printed: 2022.04.26 @ 11:07:28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

ATTN: Josh Austin

Job Ticket: 68167

DST#: 2

Test Start: 2022.04.19 @ 14:13:00

GENERAL INFORMATION:

Formation: **LKC F&G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:00

Time Test Ended: 20:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3196.00 ft (KB) To 3231.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3190.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 286.30 psig @ 3197.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.19

End Date:

2022.04.19

Last Calib.:

2022.04.19

Start Time: 14:13:05

End Time:

20:36:44

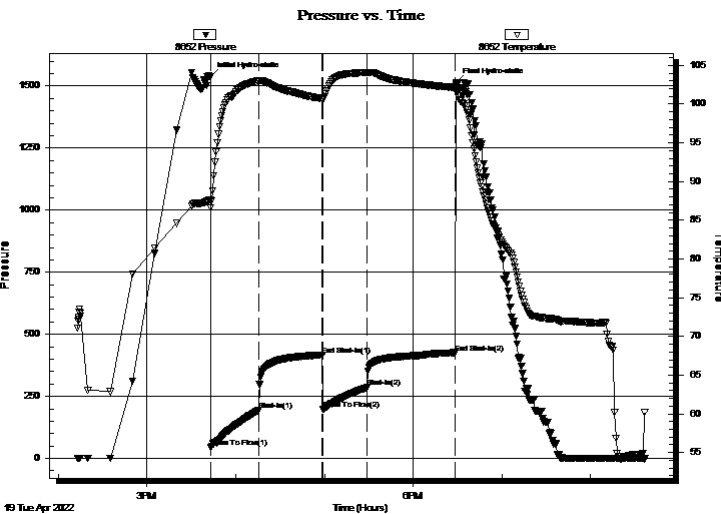
Time On Btm:

2022.04.19 @ 15:42:45

Time Off Btm:

2022.04.19 @ 18:29:15

TEST COMMENT: IF-30- BOB in 3 min 45 sec, built to 50 1/4"
SI1-45- weak surface blow
FF-30- BOB in 10 min, Built to 26 1/4"
SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.36	87.60	Initial Hydro-static
1	45.22	86.60	Open To Flow (1)
33	193.36	103.01	Shut-In(1)
76	417.16	100.72	End Shut-In(1)
76	197.52	100.62	Open To Flow (2)
107	286.30	104.08	Shut-In(2)
166	426.38	102.15	End Shut-In(2)
167	1512.02	102.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GMCW 5% gas 85% water 10% mud	2.60
379.00	MCW 5% mud 95% mud	5.32
0.00	70' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68167

DST#: 2

ATTN: Josh Austin

Test Start: 2022.04.19 @ 14:13:00

Tool Information

Drill Pipe:	Length: 3198.00 ft	Diameter: 3.80 inches	Volume: 44.86 bbl	Tool Weight: 24000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.86 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3196.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	66.00 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			3166.00	
shut In Tool	5.00			3171.00	
hydraulic tool	5.00			3176.00	
Jars	5.00			3181.00	
EM Tool	3.00			3184.00	
Safety Joint	3.00			3187.00	
Packer	5.00			3192.00	31.00 Bottom Of Top Packer
Packer	4.00			3196.00	
Stubb	1.00			3197.00	
Recorder	0.00	6625	Inside	3197.00	
Recorder	0.00	8652	Outside	3197.00	
perforations	31.00			3228.00	
Bullnose	3.00			3231.00	35.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68167

DST#: 2

ATTN: Josh Austin

Test Start: 2022.04.19 @ 14:13:00

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:

130000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	GMCW 5% gas 85% water 10% mud	2.595
379.00	MCW 5% mud 95% mud	5.316
0.00	70' GIP	0.000

Total Length: 564.00 ft

Total Volume: 7.911 bbl

Num Fluid Samples: 0

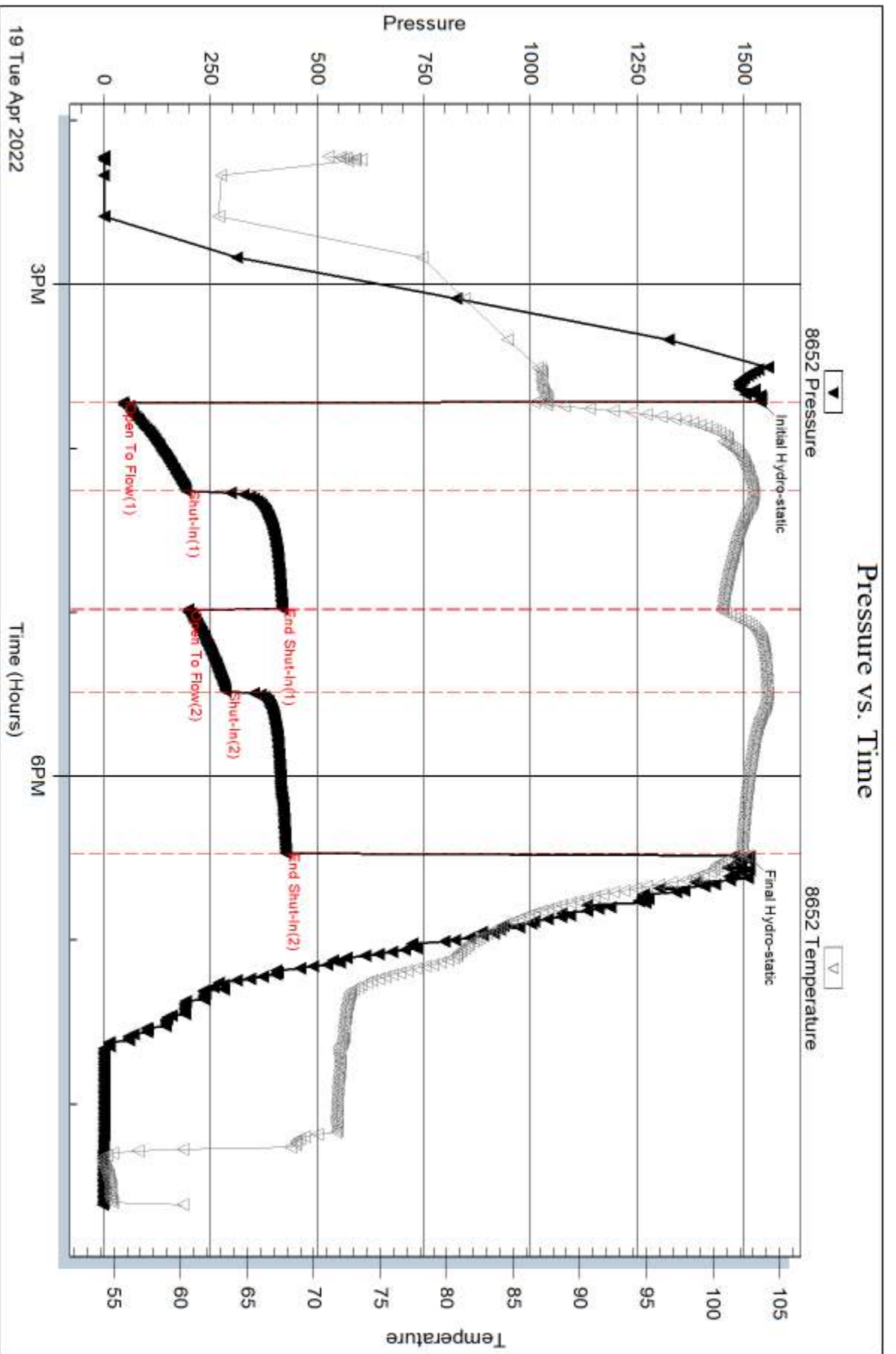
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM



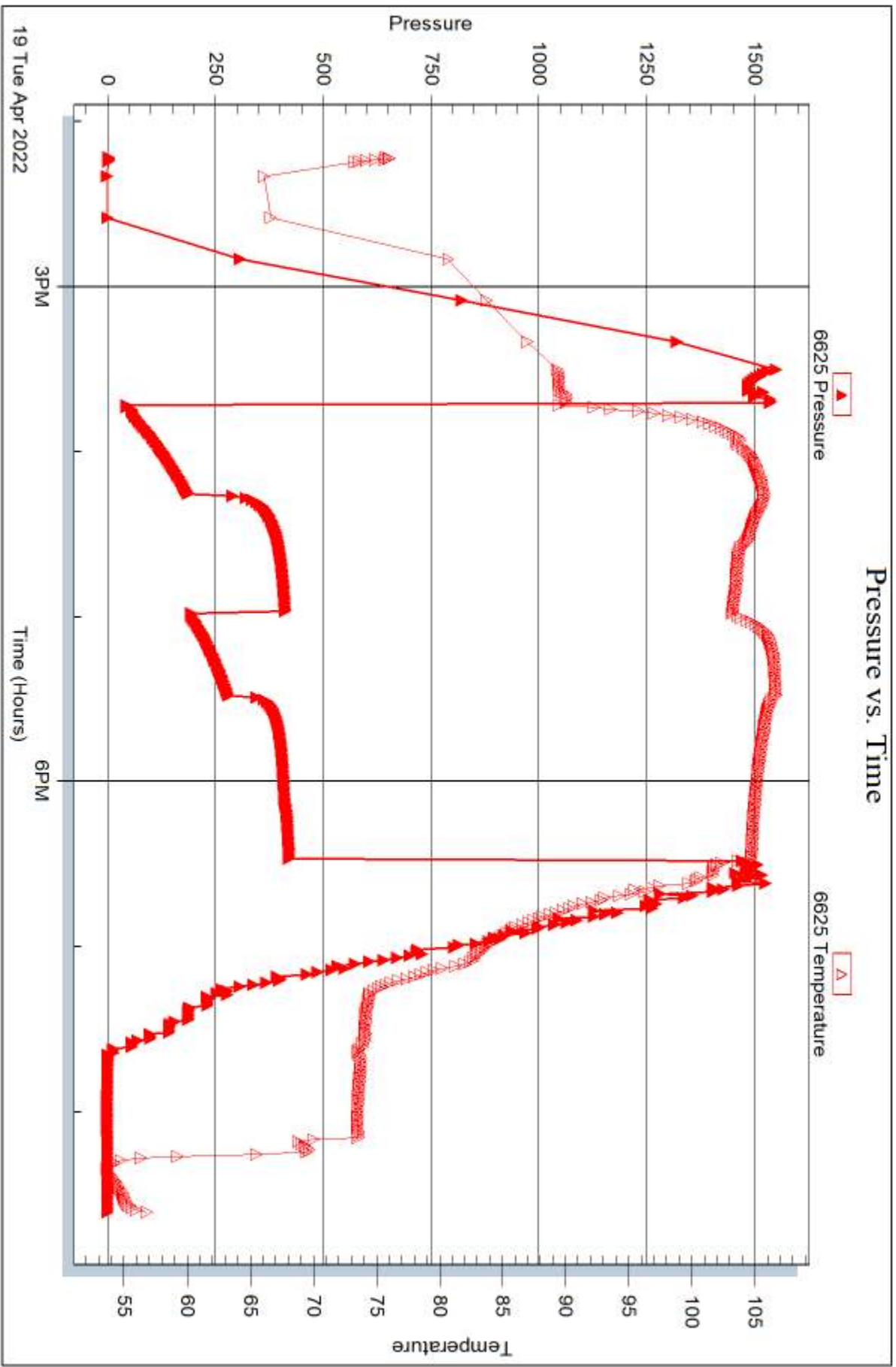
Serial #: 6625

Inside

Mai Oil Operations Inc.

Harris Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68167

Printed: 2022.04.26 @ 11:07:30



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Josh Austin

Harris Unit #1

30-19s-12 Barton,KS

Start Date: 2022.04.20 @ 06:13:00

End Date: 2022.04.20 @ 12:32:30

Job Ticket #: 68168 DST #: 3

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

Printed: 2022.04.26 @ 11:06:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

ATTN: Josh Austin

Job Ticket: 68168

DST#: 3

Test Start: 2022.04.20 @ 06:13:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:58:15

Time Test Ended: 12:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3260.00 ft (KB) To 3340.00 ft (KB) (TVD)

Reference Elevations: 1939.00 ft (KB)

Total Depth: 3260.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 36.96 psig @ 3261.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.20 End Date: 2022.04.20

Last Calib.: 2022.04.20

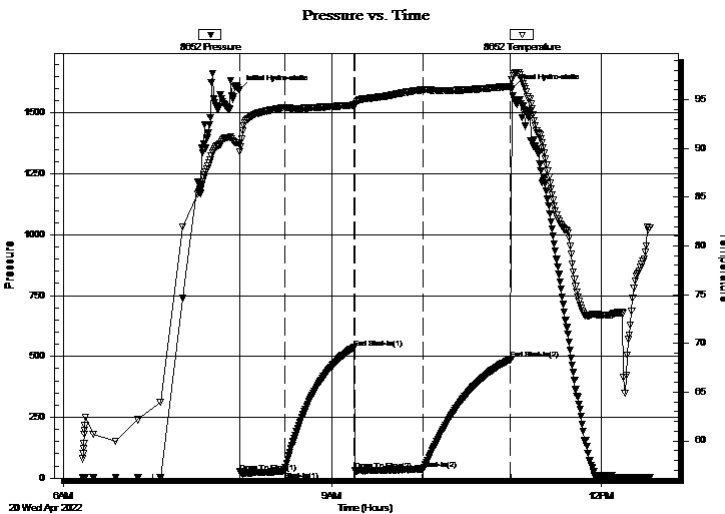
Start Time: 06:13:05 End Time: 12:32:29

Time On Btm: 2022.04.20 @ 07:58:00

Time Off Btm: 2022.04.20 @ 11:00:15

TEST COMMENT: IF-30- BOB in 4 1/2 min. built to 72 3/4"
SI1-45- No return
FF-45- BOB immediatly, Built to 138 3/4"
SI2-60- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.94	90.57	Initial Hydro-static
1	25.44	89.64	Open To Flow (1)
30	27.73	94.19	Shut-In(1)
77	536.60	94.44	End Shut-In(1)
78	32.28	94.44	Open To Flow (2)
123	36.96	96.02	Shut-In(2)
182	487.71	96.37	End Shut-In(2)
183	1601.67	97.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GOCM 5% gas 5% oil 90% mud	0.70
0.00	1912' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68168

DST#: 3

ATTN: Josh Austin

Test Start: 2022.04.20 @ 06:13:00

Tool Information

Drill Pipe:	Length: 3261.00 ft	Diameter: 3.80 inches	Volume: 45.74 bbl	Tool Weight: 24000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3260.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3230.00	
shut In Tool	5.00			3235.00	
hydraulic tool	5.00			3240.00	
Jars	5.00			3245.00	
EM Tool	3.00			3248.00	
Safety Joint	3.00			3251.00	
Packer	5.00			3256.00	31.00 Bottom Of Top Packer
Packer	4.00			3260.00	
Stubb	1.00			3261.00	
Recorder	0.00	6625	Inside	3261.00	
Recorder	0.00	8652	Outside	3261.00	
perforations	9.00			3270.00	
change Over Sub	1.00			3271.00	
drill Pipe	63.00			3334.00	
change Over Sub	1.00			3335.00	
perforations	2.00			3337.00	
Bullnose	3.00			3340.00	80.00 Bottom Packers & Anchor
Total Tool Length:	111.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68168

DST#: 3

ATTN: Josh Austin

Test Start: 2022.04.20 @ 06:13:00

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
50.00	GOCM 5% gas 5% oil 90% mud	0.701
0.00	1912' GIP	0.000

Total Length: 50.00 ft

Total Volume: 0.701 bbf

Num Fluid Samples: 0

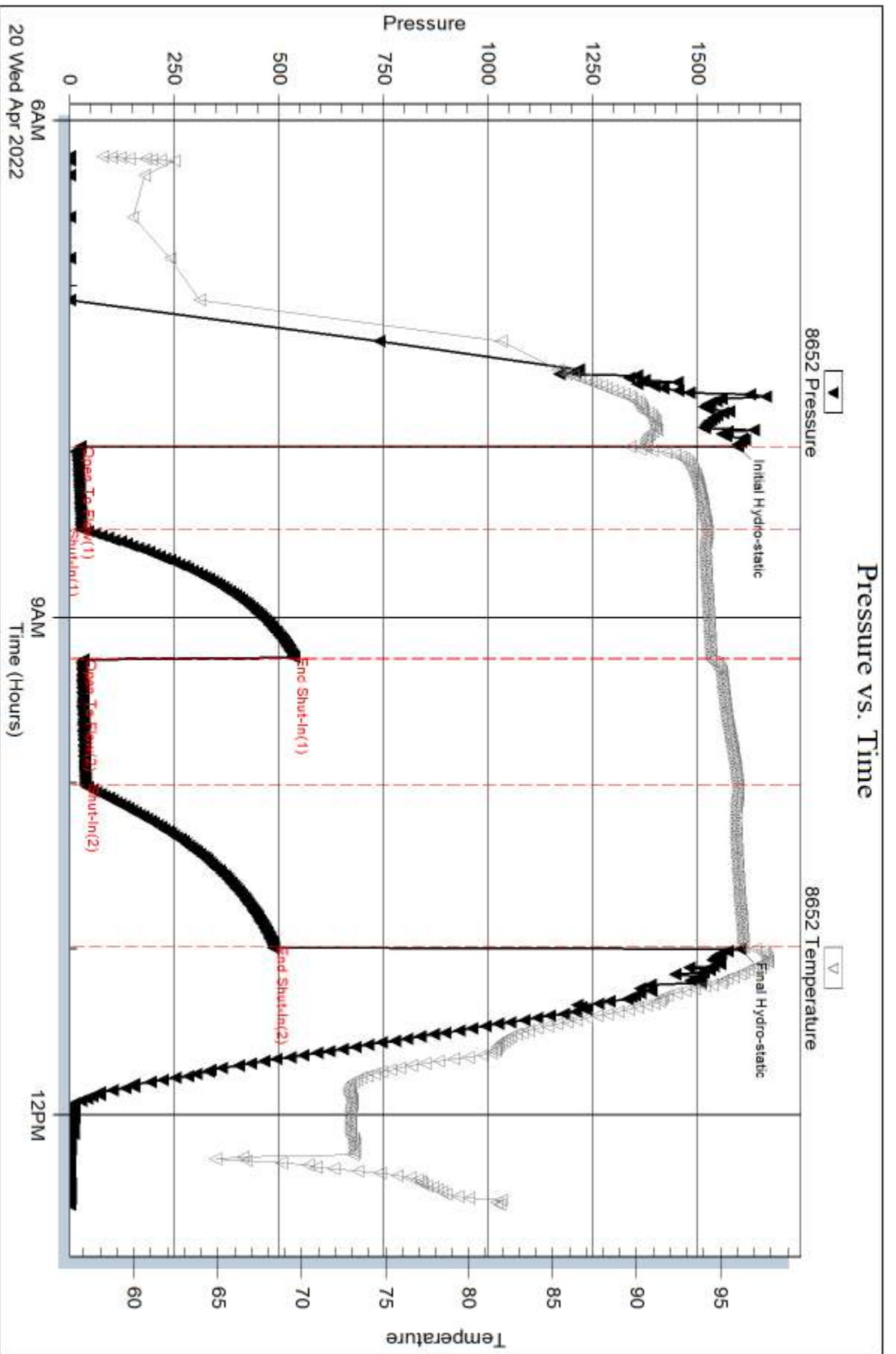
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM



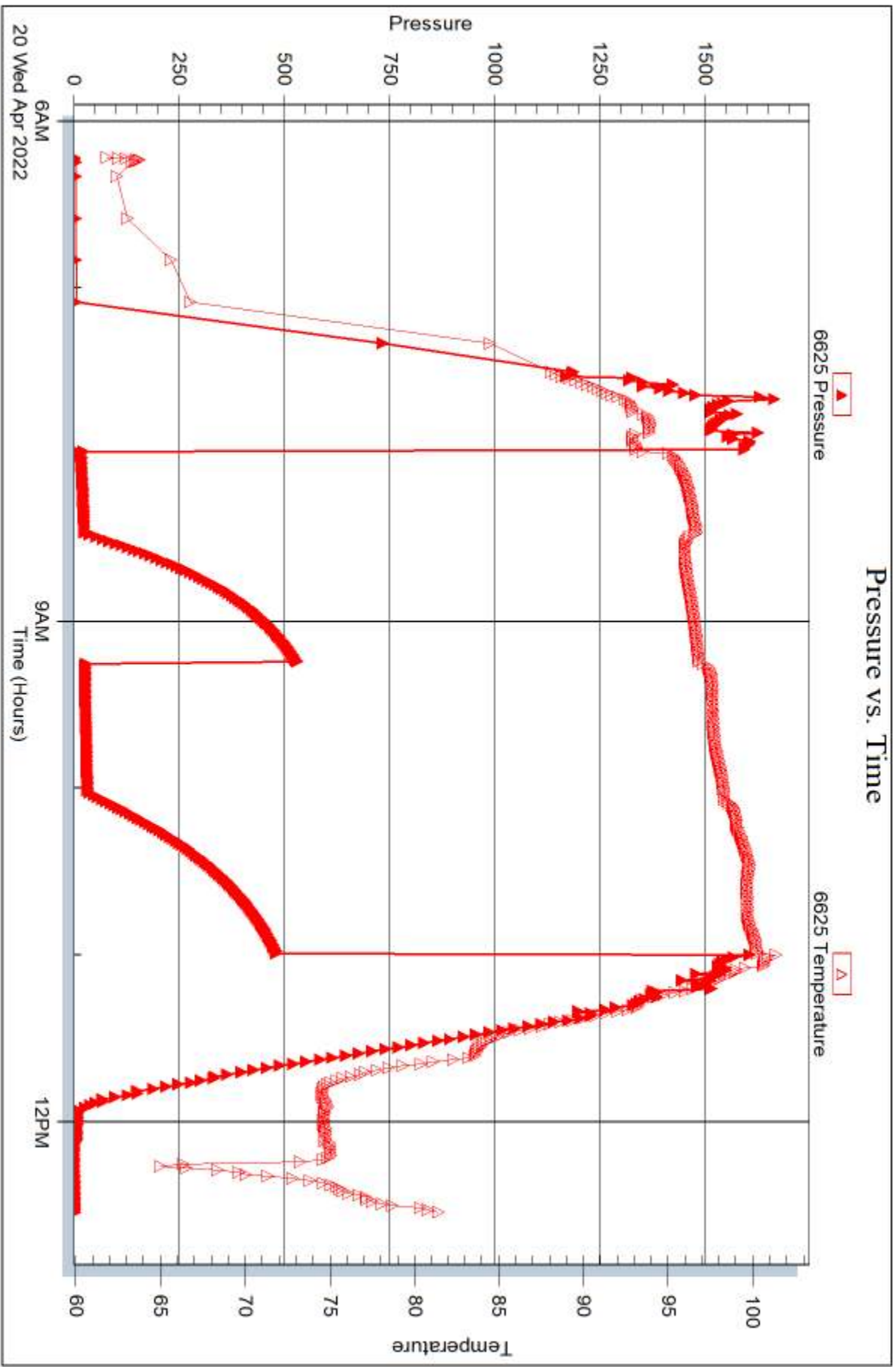
Serial #: 6625

Inside

Mai Oil Operations Inc.

Harris Unit #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68168

Printed: 2022.04.26 @ 11:06:39



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Josh Austin

Harris Unit #1

30-19s-12 Barton,KS

Start Date: 2022.04.20 @ 22:37:00

End Date: 2022.04.21 @ 04:29:30

Job Ticket #: 68160 DST #: 4

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

Printed: 2022.04.26 @ 11:05:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.
 8411 Preston Rd STE 800
 Dallas, TX 75225
 ATTN: Josh Austin

30-19s-12 Barton, KS
Harris Unit #1
 Job Ticket: 68160 **DST#: 4**
 Test Start: 2022.04.20 @ 22:37:00

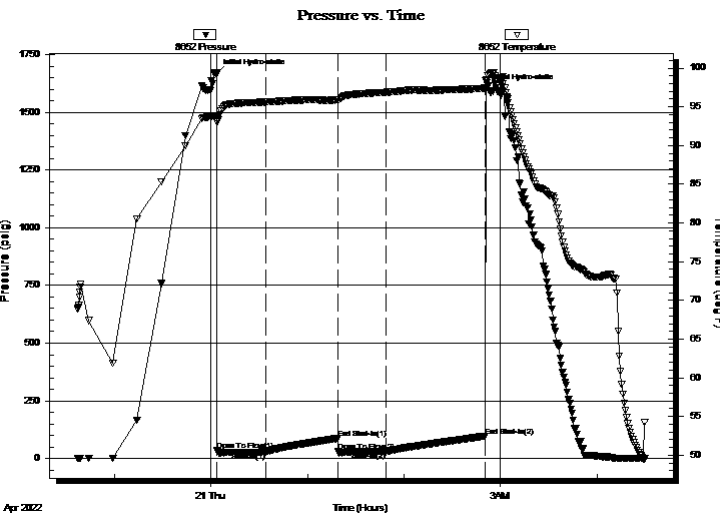
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:03:45
 Tester: Dustin Day
 Time Test Ended: 04:29:30
 Unit No: 70
Interval: 3360.00 ft (KB) To 3422.00 ft (KB) (TVD)
 Reference Elevations: 1939.00 ft (KB)
 Total Depth: 3422.00 ft (KB) (TVD)
 1929.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8652 Outside

Press@RunDepth: 30.15 psig @ 3361.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.20 End Date: 2022.04.21 Last Calib.: 2022.04.21
 Start Time: 22:37:05 End Time: 04:29:29 Time On Btm: 2022.04.21 @ 00:03:30
 Time Off Btm: 2022.04.21 @ 02:50:45

TEST COMMENT: IF-30- BOB in 7 min, Built to 22 3/4"
 SI1-45- No return
 FF-30- BOB in 15 1/2 min. built to 14 3/4"
 SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.08	93.83	Initial Hydro-static
1	33.31	93.03	Open To Flow (1)
31	28.45	95.62	Shut-In(1)
76	87.10	95.94	End Shut-In(1)
76	30.47	95.93	Open To Flow (2)
106	30.15	96.88	Shut-In(2)
167	96.93	97.41	End Shut-In(2)
168	1602.83	98.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Gsy SOCM 5% g 5%o 90% m	0.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68160

DST#: 4

ATTN: Josh Austin

Test Start: 2022.04.20 @ 22:37:00

Tool Information

Drill Pipe:	Length: 3356.00 ft	Diameter: 3.80 inches	Volume: 47.08 bbl	Tool Weight: 24000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 46000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 47.08 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3360.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	93.00 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			3330.00	
shut In Tool	5.00			3335.00	
hydraulic tool	5.00			3340.00	
Jars	5.00			3345.00	
EM Tool	3.00			3348.00	
Safety Joint	3.00			3351.00	
Packer	5.00			3356.00	31.00 Bottom Of Top Packer
Packer	4.00			3360.00	
Stubb	1.00			3361.00	
Recorder	0.00	6625	Inside	3361.00	
Recorder	0.00	8652	Outside	3361.00	
perforations	17.00			3378.00	
change Over Sub	1.00			3379.00	
drill Pipe	32.00			3411.00	
change Over Sub	1.00			3412.00	
perforations	7.00			3419.00	
Bullnose	3.00			3422.00	62.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc.

30-19s-12 Barton, KS

8411 Preston Rd STE 800
Dallas, TX 75225

Harris Unit #1

Job Ticket: 68160

DST#: 4

ATTN: Josh Austin

Test Start: 2022.04.20 @ 22:37:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Gsy SOCM 5% g 5%o 90% m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

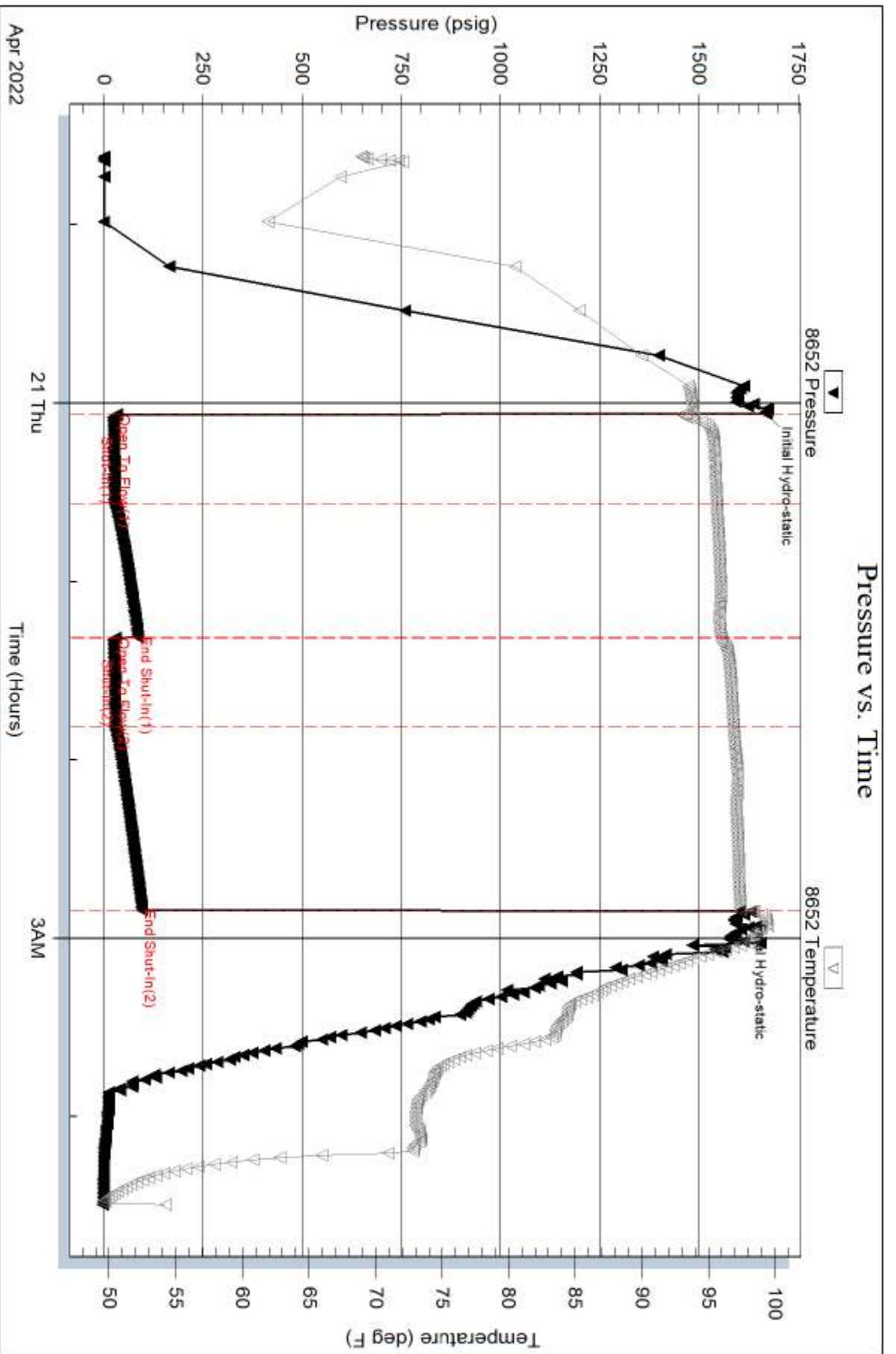
Num Gas Bombs: 0

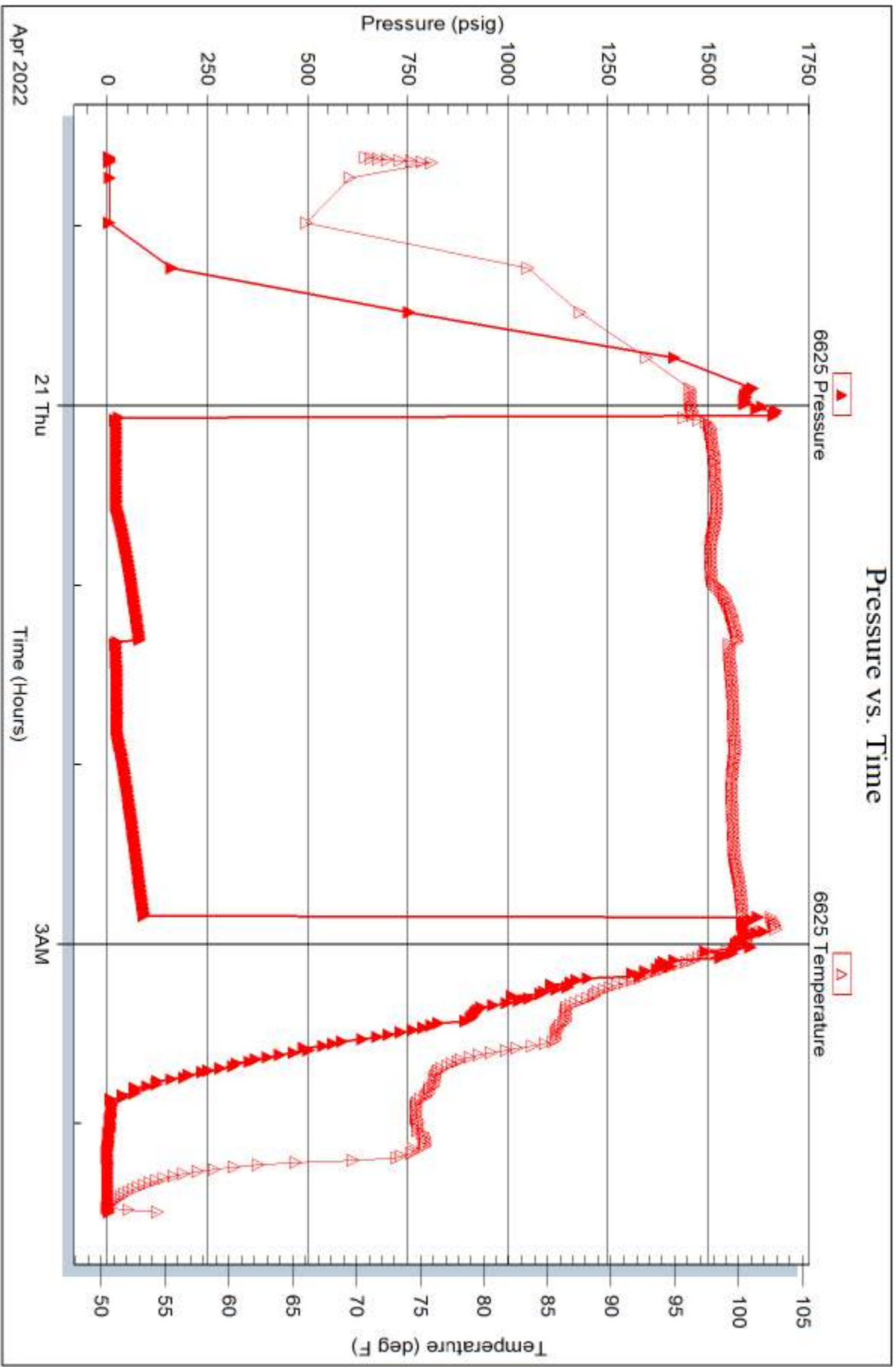
Serial #:

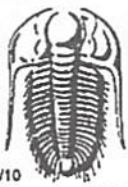
Laboratory Name:

Laboratory Location:

Recovery Comments: 1 1/4# LCM







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68166**

Well Name & No. Harris Unit #1 Test No. 1 Date 4/18/22
 Company Mai Oil Operations Inc Elevation 1939 KB 1929 GL
 Address 8411 Preston RD STE 800 Dallas, TX 75225
 Co. Rep / Geo. Josh Austin Rig Southwind Rig#1
 Location: Sec. 30 Twp 19 Rge. 12 Co. Barton State KS

Interval Tested 3130-3190 Zone Tested LKC A-C
 Anchor Length 60 Drill Pipe Run 3133 Mud Wt. 8.8
 Top Packer Depth 3125 Drill Collars Run Ø Vis 60
 Bottom Packer Depth 3130 Wt. Pipe Run Ø WL 7.6
 Total Depth 3190 Chlorides 2000 ppm System LCM 2 1/2 H

Blow Description IF- BOB in 1 min 40 sec. Built to 14"
S11 - No return
FF- BOB in 30 sec. built to 16 3/4"
S12 - No return

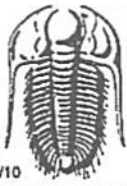
Rec	Feet of	%gas	%oil	%water	%mud
95	Mud			100	
	2120' GIP				

Rec Total 95 BHT 98 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1504</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>21:05</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>22:15</u>
(C) First Final Flow <u>43</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>00:11</u>
(D) Initial Shut-In <u>148</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>05:11</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>04:57</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>84</u> 126	Comments <u>Out of town. motel</u>
(G) Final Shut-In <u>142</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1485</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>B#33</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1926</u>
	Sub Total <u>1926</u>	MP/DST Disc't _____

Approved By _____ Our Representative Dust Dy

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68167

Well Name & No. Harris Unit #1 Test No. 2 Date 4/19/22
 Company Mai Oil Operations Inc Elevation 1939 KB 1929 GL
 Address 8411 Preston RD STE 800 Dallas, TX 75225
 Co. Rep / Geo. Josh Austin Rig Southwind Rig#1
 Location: Sec. 30 Twp 19 Rge. 12 Co. Barton State KS

Interval Tested 3196-3231 Zone Tested LKC F+G
 Anchor Length 35 Drill Pipe Run 3198 Mud Wt. 8.9
 Top Packer Depth 3191 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3196 Wt. Pipe Run 0 WL 8.8
 Total Depth 3231 Chlorides 4000 ppm System LCM 2#

Blow Description IF- BOB in 3 min 45 sec built to 50 1/4"
S12-Weak surface return
FF- BOB in 10 min built to 26 1/4"
S12-No return

Rec	Feet of	%gas	%oil	%water	%mud
185	GMCW	5		85	10
379	MCW			95	5
	70' GIP				

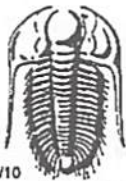
Rec Total 564' BHT 99 Gravity _____ API RW .08 @ 60 °F Chlorides 130000 ppm

(A) Initial Hydrostatic 1538 Test 1800 T-On Location 13:46
 (B) First Initial Flow 45 Jars _____ T-Started 14:13
 (C) First Final Flow 193 Safety Joint _____ T-Open 15:43
 (D) Initial Shut-In 417 Circ Sub N/A T-Pulled 18:28
 (E) Second Initial Flow 192 Hourly Standby _____ T-Out 20:36
 (F) Second Final Flow 286 Mileage 84 126 Comments Out of town motel
 (G) Final Shut-In 426 Sampler _____
 (H) Final Hydrostatic 1512 Straddle _____ EM Tool B#30

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Sub Total 1926 Total 1926 MP/DST Disc't _____

Approved By _____ Our Representative _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68168

Well Name & No. Harris Unit #1 Test No. 3 Date 4/20/22
 Company Mai Oil operations Inc Elevation 1939 KB 1929 GL
 Address 8411 Preston RD STE 800 Dallas, TX 75225
 Co. Rep / Geo. Josh Austin Rig Southwind Rig #1
 Location: Sec. 30 Twp 19 Rge. 12 Co. Barton State KS

Interval Tested 3260-3340 Zone Tested LKC H-K
 Anchor Length 80 Drill Pipe Run 3261 Mud Wt. 8.9
 Top Packer Depth 3255 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3260 Wt. Pipe Run 0 WL 8.8
 Total Depth 3340 Chlorides 400 ppm System LCM 2#

Blow Description IF- BOB in 4 1/2 min. built to 72 3/4"

S12- No return

FF- BOB immediatly; built to 138 3/4"

S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>60CM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
Rec	Feet of <u>1912' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50' BHT 98 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1596 Test 1800 T-On Location 0530
 (B) First Initial Flow 25 Jars _____ T-Started 06:13
 (C) First Final Flow 28 Safety Joint _____ T-Open 07:58
 (D) Initial Shut-In 537 Circ Sub NA T-Pulled 10:58
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 12:32
 (F) Second Final Flow 37 Mileage 84 ¹²⁶ Comments Out of town, hotel
 (G) Final Shut-In 488 Sampler _____
 (H) Final Hydrostatic 11602 Straddle _____ EM Tool 8#33 psi 16.95

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 600 Day Standby _____ Sub Total 0
 Sub Total 1926 Accessibility _____ Total 1926
 Sub Total 1926 MP/DST Disc't _____

Approved By _____ Our Representative DWA DEX

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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68169**

Well Name & No. Harnis Unit #1 Test No. 4 Date 4/20/22
 Company Mai Oil Operations Inc. Elevation 1939 KB 1929 GL
 Address 8411 Preston RD STE 800 Dallas, TX 75225
 Co. Rep / Geo. Josh Austin Rig Southwind Rig#1
 Location: Sec. 30 Twp 19 Rge. 12 Co. Barton State KS

Interval Tested 3360-3422 Zone Tested Arbuckle
 Anchor Length 62 Drill Pipe Run 3356 Mud Wt. 8.7
 Top Packer Depth 3355 Drill Collars Run Ø Vls 57
 Bottom Packer Depth 3360 Wt. Pipe Run Ø WL 8.8
 Total Depth 3422 Chlorides 5000 ppm System LCM 14#

Blow Description IF-BOB in 7min. Built to 22 3/4"
S12- No return
FF-BOB in 15 1/2 min. Built to 14 3/4"
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>60CM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
	<u>286' GIP</u>				

Rec Total 30 BHT 99 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1670</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>22:05</u>
(B) First Initial Flow <u>33</u>	<input type="checkbox"/> Jars _____	T-Started <u>22:37</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>00:04</u>
(D) Initial Shut-In <u>87</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>02:49</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>04:29</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>84</u> 126	Comments <u>out of town</u>
(G) Final Shut-In <u>97</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1603</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>B#30 17:55</u>

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

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

Sub Total 1926

MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Tribolite 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.

**Mai Oil Operations, Inc.
Harris Unit #1
1042' FNL & 74' FWL
Section 30-19s-12w
Barton County, Kansas**

Contractor: Southwind Drilling inc. Rig # 1

Geologist: Joshua Austin

Commenced: 4-14-2022

Completed: 4-21-2022

Elevation: GL 1829', KB 1839'

Casing Program: Surface; 8 5/8" @ 689'
Production; plugged and abandoned

Samples: Samples saved and examined 2900' to Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 2900' to Rotary Total Depth.

Measurements: All depths measured from the kelly bushing.

Formation Testing: Four drill stem test were performed by Trilobite Testing

Electric Log: No logs were ran

Formation	Sample Top	Sub-Sea Datum
Heebner	3015	-1176
Toronto	3037	-1198
Douglas	3048	-1209
Brown Lime	3126	-1287
Lansing	3144	-1305
BKC	3370	-1531
Conglomerate	3378	-1539
Reworked Arbuckle	3412	-1573
True Arbuckle	3419	-1580
Rotary TD	3422	-1583

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

Shawnee Section

2967-2974'

Limestone; tan-cream, fine crystalline, few sparry calcite, chalky, inter crystalline porosity, brown stain, trace spotty free oil, faint odor

Toronto Section

3040-3045'

Limestone; cream-white, chalky, finely oolitic, granular in part, pinpoint porosity, golden brown stain, no show of free oil, no odor

Lansing Section

3144-3147'

Limestone; cream-lt. grey, fine crystalline, chalky, fossiliferous-oolitic, inter crystalline porosity, brown stain, spotty free oil, fair odor

3156-3159'

Limestone; tan, oomoldic/oolitic, oomoldic porosity, brown stain, trace free oil, fair odor

3163-3170'

Limestone; cream, fair porosity, sparry calcite, brown stain, SFO/SAT, fair-good odor, plus white, oolitic, boney, Chert

DST #1 Lansing 'A-C' 3,130-3,190'

Times: 30-45-45-60

Blow; B.O.B. in 1 ½ minutes
No blow back
Final; B.O.B. in 30 seconds
No blow back

Recovery: 1220' GIP
95' Mud

Pressure:	ISIP	148	psi
	FSIP	142	psi
	IFP	32-43	psi
	FFP	43-61	psi
	HSH	1504-1485	psi

3207-3210'

Limestone; cream, fossiliferous, inter crystalline-vuggy porosity, good golden-brown stain, trace spotty free oil, very faint odor

3225-3231'

Limestone; tan-cream, oomoldic/oolitic, fair oomoldic porosity, dark brown stain, trace spotty free oil, faint odor

DST #2 Lansing 'F-G' 3,196-3,231'

Times: 30-45-30-60

Blow; B.O.B. in 3 ½ minutes
Weak surface blow back
Final; B.O.B. in 10 minutes
No blow back

Recovery: 70' GIP
185' GMCW (5%G, 85%W, 10% M)
379' MCW (95% W, 5% M)

Pressure:	ISIP	417	psi
	FSIP	426	psi
	IFP	45-193	psi
	FFP	192-286	psi
	HSH	1538-1512	psi

3270-3274'

Limestone; tan, fossiliferous, vuggy porosity, brown stain, show of free oil and saturated, faint odor

3294-3298'

Limestone; cream, highly oolitic, brown stain, trace free oil, fair odor

3310-3316'

Limestone; cream-tan, finely oolitic in part, scattered inter crystalline -fossil cast porosity, brown stain, show of free oil, faint odor

DST #3 Lansing 'H-K' 3,260-3,340'

Times: 30-45-45-60

Blow; B.O.B. in 4 ½ minutes
No blow back
Final; B.O.B. immediately
No blow back

Recovery: 1912' GIP
50' GOCM (5% G, 5% O, 90% M)

Pressure:	ISIP	537	psi
	FSIP	488	psi
	IFP	25-28	psi
	FFP	32-37	psi
	HSH	1596-1602	psi

3361-3363' Limestone; cream-white; highly oolitic, dense, fair porosity,
brown-golden brown stain, trace free oil, fair odor

Reworked Arbuckle Section

3410-3419 Quartz; clear, white, tan, medium crystalline, black "dead oil"
stain, spotty free oil, fair-good odor
Sand; clear, dolomitic, sub angular fair porosity, brown stain, SFO,
good odor

Arbuckle Section

3420-3422' Dolomite; white, fine-medium crystalline, vuggy porosity, no
shows

DST #4 Arbuckle 3,360-3,422'

Times: 30-45-30-60

Blow; B.O.B. in 7 minutes
No blow back
Final; B.O.B. in 15 minutes
No blow back

Recovery: 286' GIP
30' GOCM (5% G, 5%O, 90%M)

Pressure:	ISIP	87	psi
	FSIP	97	psi
	IFP	33-28	psi
	FFP	30-30	psi
	HSH	1670-1603	psi

Rotary Total Depth 3422' (-1583)

Recommendations:

Based on the structural position and negative drill stem test, it was recommended by all parties involved in the Harris Unit #1 that it be plugged and abandoned at the rotary total depth 3,422'. No electric logs were ran.

Respectfully submitted.

Joshua R. Austin
Petroleum Geologist

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3000

Date	4-15-02	Sec.	30	Twp.	19	Range	12	County	Barton	State	Ks	On Location		Finish	10:00AM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease: Harris unit
Location: Great Bend - 2F to NE 4th Ave, 1/2 N

Contractor	Southwind #1	Well No.		Owner	E/S
Type Job	Surface	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4"	T.D.	689'	Charge To	Major oil operations
Csg.	8 7/8"	Depth	689'	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	32'	Shoe Joint	32'	Cement Amount Ordered	450 100/100 4 1/2 CC 2 1/2 Gel
Meas Line		Displace	41 3/4 lbs	1/4 # Flo-seal	

EQUIPMENT			Common
Pumptrk	16	No. Cementer Helper	Poz. Mix
Bulktrk	21	No. Driver	Gel.
Bulktrk	P.U.	No. Driver	Calcium

JOB SERVICES & REMARKS		
Remarks:	Cement did circulate	Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling
		Mileage

FLOAT EQUIPMENT	
Guide Shoe	Rubber plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge		Tax	
Mileage		Discount	
Signature	[Signature]	Total Charge	

