

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	RADKE 1
Doc ID	1492494

Tops

Name	Top	Datum
Anhydrite	858	993
King Hill	2854	-1003
Platts	2960	-1109
Heebner	3004	-1153
Toronto	3021	-1170
Lansing	3066	-1215
BKC	3294	-1443
Arb	3304	-1453





## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

ATTN: Wyatt Urban

### **Radke #1**

#### **28-15S-14W Russell,KS**

Start Date: 2020.01.12 @ 15:37:00

End Date: 2020.01.12 @ 20:47:02

Job Ticket #: 66226                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.01.15 @ 15:23:29



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**

**Radke #1**

Job Ticket: 66226

**DST#: 1**

Test Start: 2020.01.12 @ 15:37:00

## GENERAL INFORMATION:

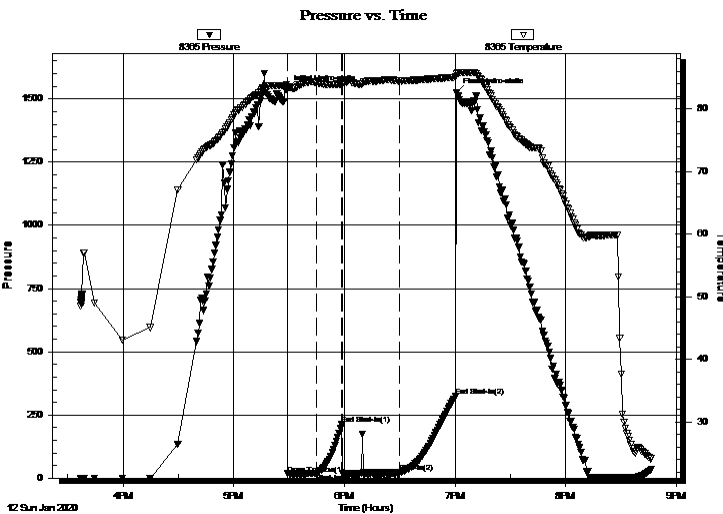
Formation: **LKC A-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:29:02  
 Time Test Ended: 20:47:02  
 Interval: **3064.00 ft (KB) To 3160.00 ft (KB) (TVD)**  
 Total Depth: 3160.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72  
 Reference Elevations: 1850.00 ft (KB)  
 1841.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 21.48 psig @ 3065.00 ft (KB) Capacity: psig  
 Start Date: 2020.01.12 End Date: 2020.01.12 Last Calib.: 2020.01.12  
 Start Time: 15:37:01 End Time: 20:47:02 Time On Btm: 2020.01.12 @ 17:28:47  
 Time Off Btm: 2020.01.12 @ 19:00:47

**TEST COMMENT:** IF 15 Minutes/ Surface blow did not build Died in 10 minutes  
 ISI 15 Minutes/ No blow back  
 FF 30 Minutes/ Few bubbles at open then dead/ Flush tool surface blow for 10 minutes  
 FSI 30 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.71	83.87	Initial Hydro-static
1	16.89	83.34	Open To Flow (1)
16	19.87	84.19	Shut-In(1)
30	211.74	83.99	End Shut-In(1)
31	18.57	84.00	Open To Flow (2)
61	21.48	84.46	Shut-In(2)
92	322.62	85.08	End Shut-In(2)
92	1523.20	85.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd Suite 800  
 Dallas TX 75225+5520  
 ATTN: Wyatt Urban

**28-15S-14W Russell,KS**

**Radke #1**

Job Ticket: 66226

**DST#: 1**

Test Start: 2020.01.12 @ 15:37:00

## GENERAL INFORMATION:

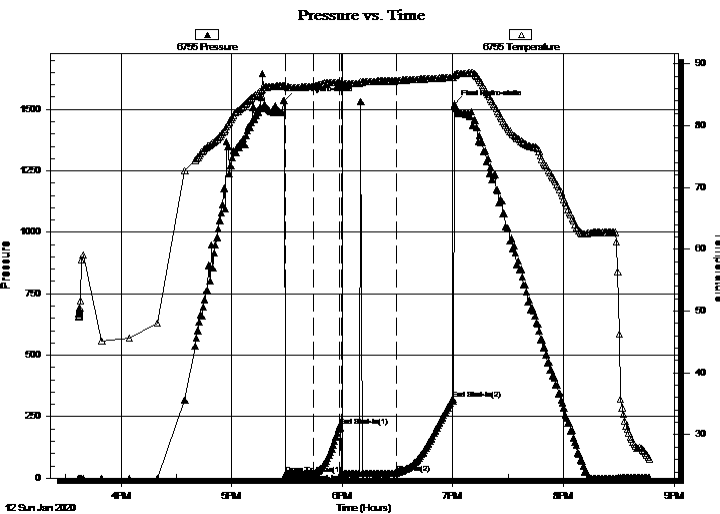
Formation: **LKC A-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:29:02  
 Time Test Ended: 20:47:02  
 Interval: **3064.00 ft (KB) To 3160.00 ft (KB) (TVD)**  
 Total Depth: 3160.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72  
 Reference Elevations: 1850.00 ft (KB)  
 1841.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6755**

**Outside**

Press@RunDepth: 321.23 psig @ 3066.00 ft (KB) Capacity: psig  
 Start Date: 2020.01.12 End Date: 2020.01.12 Last Calib.: 2020.01.12  
 Start Time: 15:37:01 End Time: 20:47:02 Time On Btm: 2020.01.12 @ 17:28:32  
 Time Off Btm: 2020.01.12 @ 19:00:47

**TEST COMMENT:** IF 15 Minutes/ Surface blow did not build Died in 10 minutes  
 ISI 15 Minutes/ No blow back  
 FF 30 Minutes/ Few bubbles at open then dead/ Flush tool surface blow for 10 minutes  
 FSI 30 Minutes/ No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1534.71	86.49	Initial Hydro-static
1	16.66	86.32	Open To Flow (1)
16	18.86	86.39	Shut-In(1)
30	210.68	86.89	End Shut-In(1)
31	18.31	86.86	Open To Flow (2)
61	20.77	87.26	Shut-In(2)
92	321.23	87.84	End Shut-In(2)
93	1521.50	88.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations Inc  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**  
**Radke #1**  
Job Ticket: 66226 **DST#: 1**  
Test Start: 2020.01.12 @ 15:37:00

## Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			Total Volume: 43.04 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3064.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.08 ft			
Tool Length:	123.08 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			3042.00	
Hydraulic tool	5.00			3047.00	
Jars	5.00			3052.00	
Safety Joint	2.00			3054.00	
Top Packer	5.00			3059.00	
Packer	5.00			3064.00	27.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3065.00	
Recorder	1.00	6755	Outside	3066.00	
Anchor	26.00			3092.00	
Change Over Sub	1.00			3093.00	
Drill Pipe	63.08			3156.08	
Change Over Sub	1.00			3157.08	
Bullnose	3.00			3160.08	96.08 Anchor Tool

**Total Tool Length: 123.08**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations Inc

**28-15S-14W Russell,KS**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

**Radke #1**

Job Ticket: 66226

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2020.01.12 @ 15:37:00

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

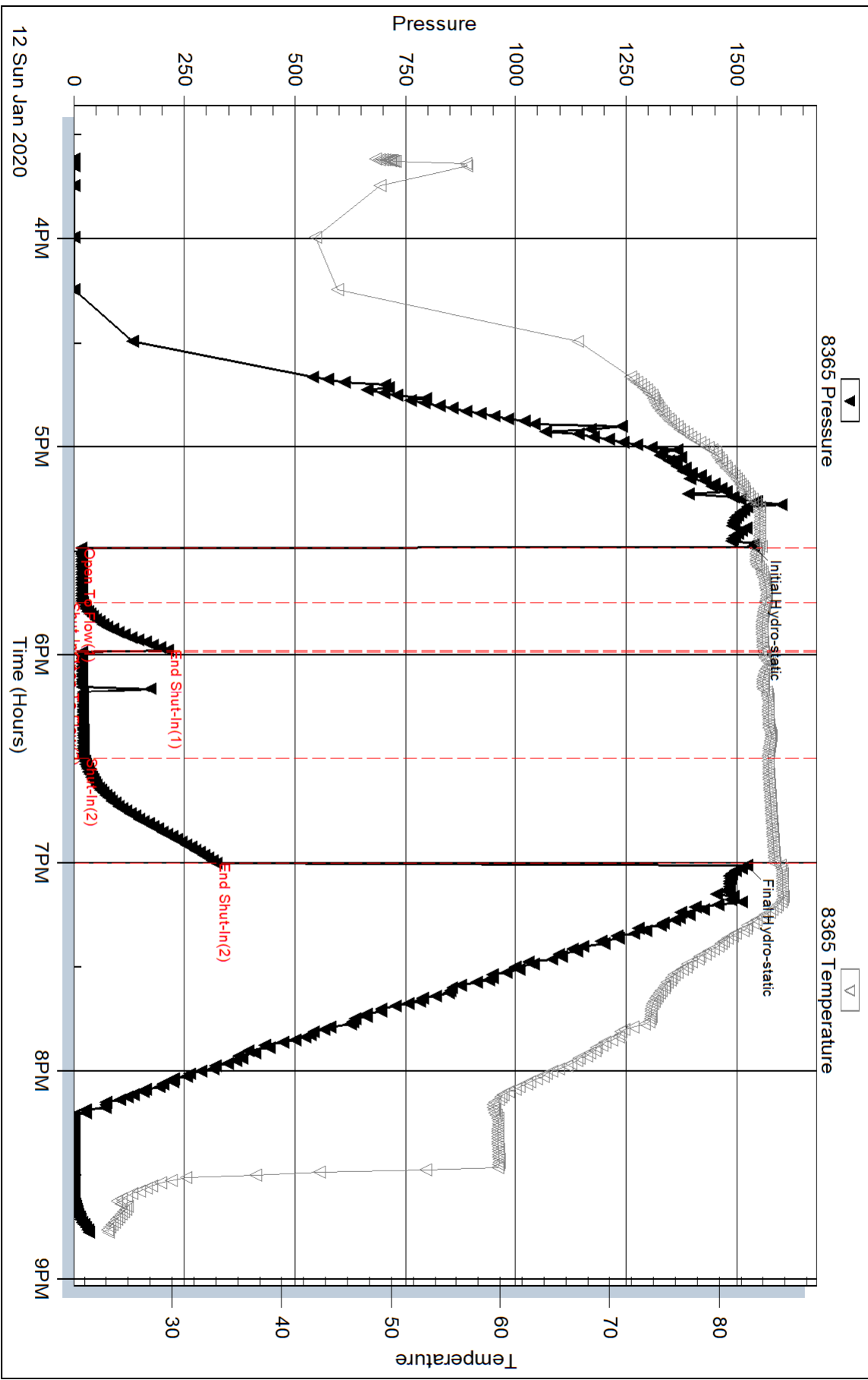
Inside

Mai Oil Operations Inc

Radke #1

DST Test Number: 1

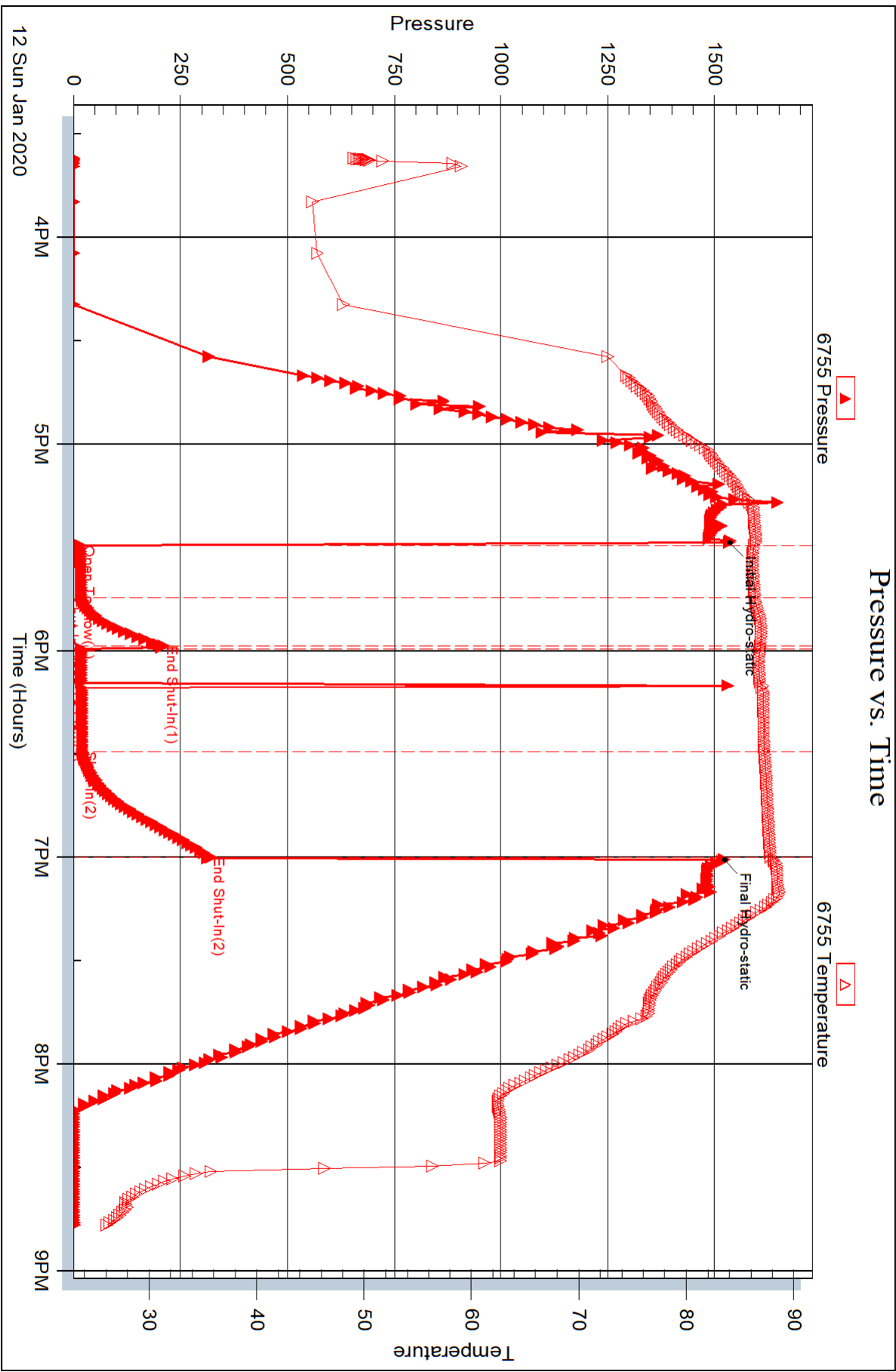
### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 66226

Printed: 2020.01.15 @ 15:23:30





## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

ATTN: Wyatt Urban

### **Radke #1**

#### **28-15S-14W Russell,KS**

Start Date: 2020.01.13 @ 07:17:00

End Date: 2020.01.13 @ 13:21:02

Job Ticket #: 66227                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.01.15 @ 15:19:21

Mai Oil Operations Inc  
28-15S-14W Russell,KS  
Radke #1  
DST # 2  
LKC H-J  
2020.01.13





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**

**Radke #1**

Job Ticket: 66227

**DST#: 2**

Test Start: 2020.01.13 @ 07:17:00

## GENERAL INFORMATION:

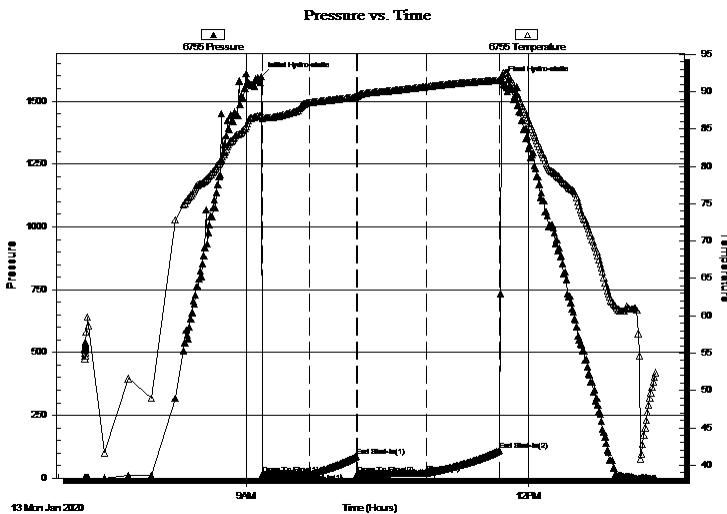
Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:10:32 Tester: Ken Swinney  
 Time Test Ended: 13:21:02 Unit No: 72  
 Interval: **3204.00 ft (KB) To 3260.00 ft (KB) (TVD)** Reference Elevations: 1850.00 ft (KB)  
 Total Depth: 3260.00 ft (KB) (TVD) 1841.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 6755 Outside**

Press@RunDepth: 110.83 psig @ 3206.00 ft (KB) Capacity: psig  
 Start Date: 2020.01.13 End Date: 2020.01.13 Last Calib.: 2020.01.13  
 Start Time: 07:17:01 End Time: 13:21:02 Time On Btm: 2020.01.13 @ 09:09:47  
 Time Off Btm: 2020.01.13 @ 11:42:32

**TEST COMMENT:** IF 30 Minutes/ Blow built to 1/4 inch  
 ISI 30 Minutes/ No blow back  
 FF 45 Minutes/ Blow built to 2 inch  
 FSI 45 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.10	86.72	Initial Hydro-static
1	15.91	86.42	Open To Flow (1)
31	17.81	88.54	Shut-In(1)
61	85.46	89.29	End Shut-In(1)
61	15.68	89.33	Open To Flow (2)
106	20.36	90.67	Shut-In(2)
152	110.83	91.54	End Shut-In(2)
153	1583.55	92.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM/ O 2% M 98%	0.28
0.00	40 feet 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  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**  
**Radke #1**  
Job Ticket: 66227      **DST#: 2**  
Test Start: 2020.01.13 @ 07:17:00

**Tool Information**

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 44.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3204.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.42 ft				
Tool Length:	75.42 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			3189.00	
Hydraulic tool	5.00			3194.00	
Top Packer	5.00			3199.00	
Packer	5.00			3204.00	20.00      Bottom Of Top Packer
Recorder	1.00	8365	Inside	3205.00	
Recorder	1.00	6755	Outside	3206.00	
Anchor	17.00			3223.00	
Change Over Sub	1.00			3224.00	
Drill Pipe	31.42			3255.42	
Change Over Sub	1.00			3256.42	
Bullnose	3.00			3259.42	55.42      Anchor Tool

**Total Tool Length: 75.42**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations Inc

**28-15S-14W Russell,KS**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

**Radke #1**

Job Ticket: 66227

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2020.01.13 @ 07:17:00

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM / O 2% M 98%	0.281
0.00	40 feet GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

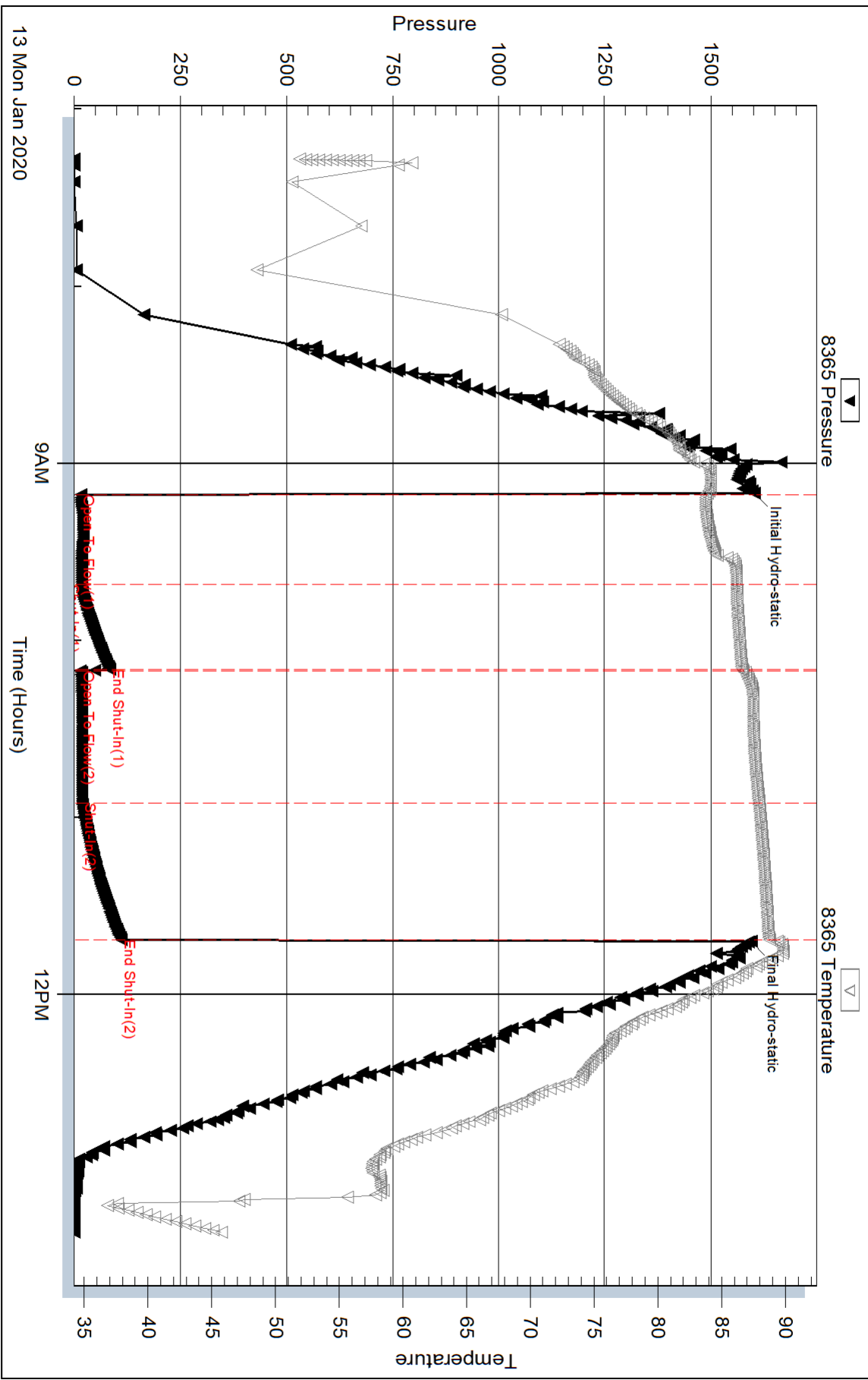
Laboratory Name:

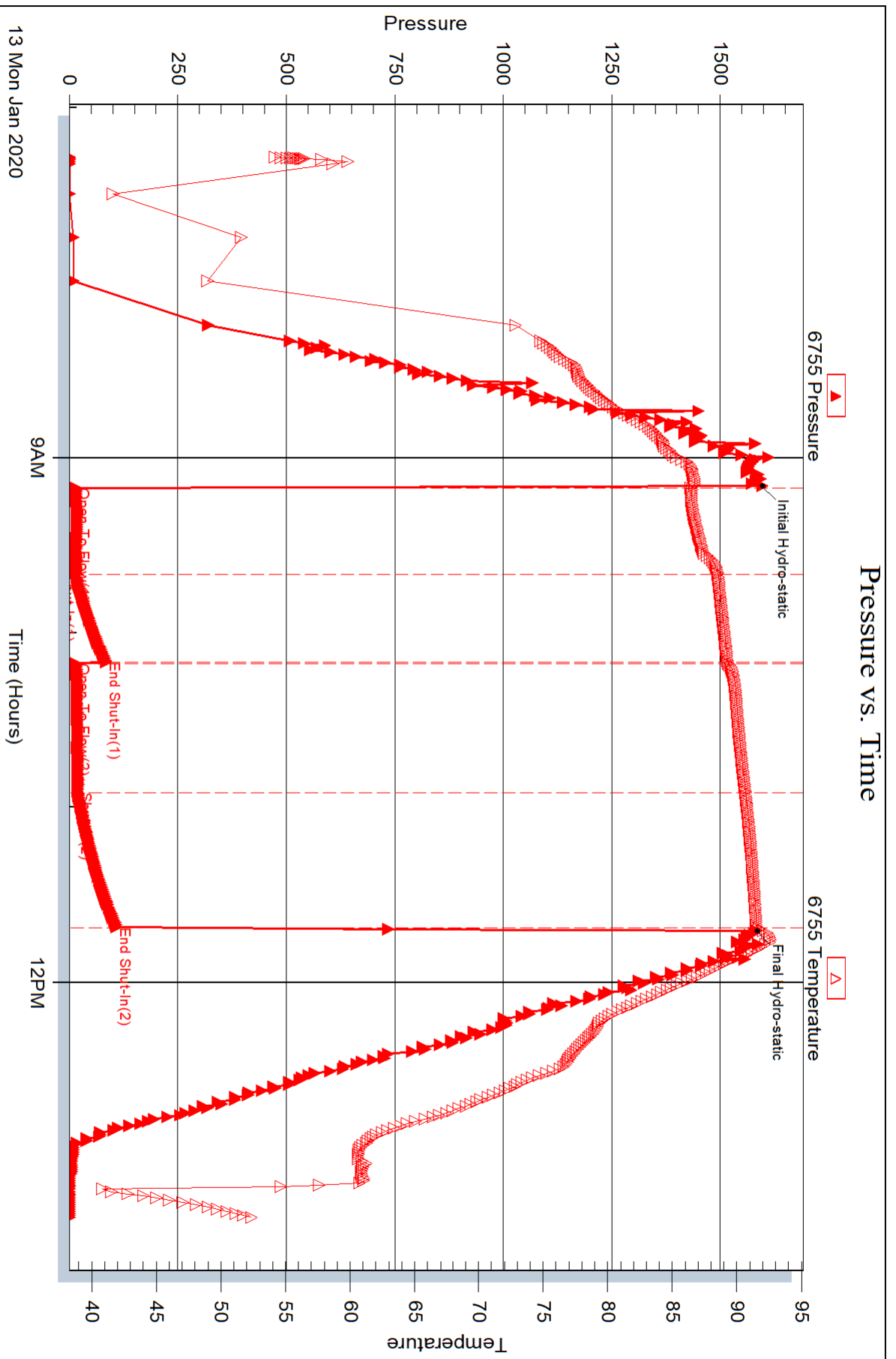
Laboratory Location:

Recovery Comments:



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

ATTN: Wyatt Urban

### **Radke #1**

#### **28-15S-14W Russell,KS**

Start Date: 2020.01.14 @ 00:43:00

End Date: 2020.01.14 @ 06:33:02

Job Ticket #: 66228                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.01.15 @ 15:18:53

Mai Oil Operations Inc  
28-15S-14W Russell,KS  
Radke #1  
DST # 3  
Arbuckle  
2020.01.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd Suite 800  
 Dallas TX 75225+5520  
 ATTN: Wyatt Urban

**28-15S-14W Russell,KS**

**Radke #1**

Job Ticket: 66228

**DST#: 3**

Test Start: 2020.01.14 @ 00:43:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:29:32  
 Time Test Ended: 06:33:02  
 Interval: **3260.00 ft (KB) To 3310.00 ft (KB) (TVD)**  
 Total Depth: 3310.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72  
 Reference Elevations: 1850.00 ft (KB)  
 1841.00 ft (CF)  
 KB to GR/CF: 9.00 ft

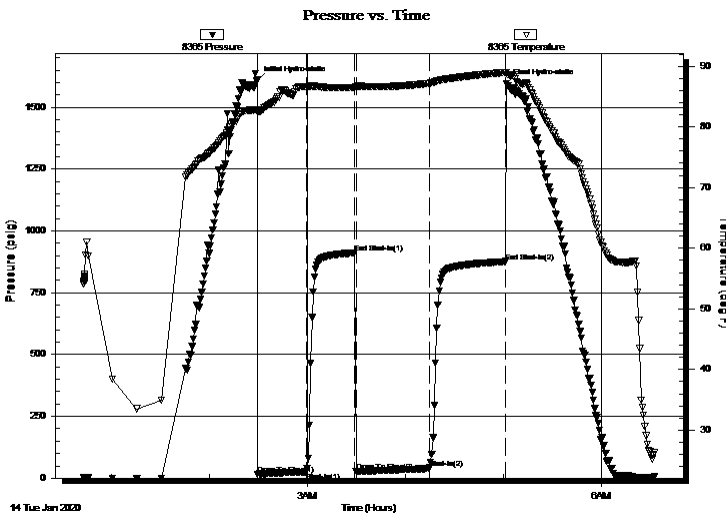
**Serial #: 8365**

**Inside**

Press@RunDepth: 39.95 psig @ 3261.00 ft (KB) Capacity: psig  
 Start Date: 2020.01.14 End Date: 2020.01.14 Last Calib.: 2020.01.14  
 Start Time: 00:43:01 End Time: 06:33:02 Time On Btm: 2020.01.14 @ 02:29:17  
 Time Off Btm: 2020.01.14 @ 05:02:02

**TEST COMMENT:** IF 30 Minutes/ Blow built to 1 1/4 inch  
 ISI 30 Minutes/ No blow back  
 FF 45 Minutes/ Blow built to 1 1/2 inch  
 FSI 45 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.62	82.79	Initial Hydro-static
1	16.25	82.42	Open To Flow (1)
30	25.49	86.66	Shut-In(1)
60	911.14	86.52	End Shut-In(1)
61	28.06	86.58	Open To Flow (2)
106	39.95	87.18	Shut-In(2)
152	875.92	88.98	End Shut-In(2)
153	1595.98	88.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	WM/ W 30% M 70%	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**

**Radke #1**

Job Ticket: 66228

**DST#: 3**

Test Start: 2020.01.14 @ 00:43:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:29:32  
 Time Test Ended: 06:33:02  
 Interval: **3260.00 ft (KB) To 3310.00 ft (KB) (TVD)**  
 Total Depth: 3310.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72  
 Reference Elevations: 1850.00 ft (KB)  
 1841.00 ft (CF)  
 KB to GR/CF: 9.00 ft

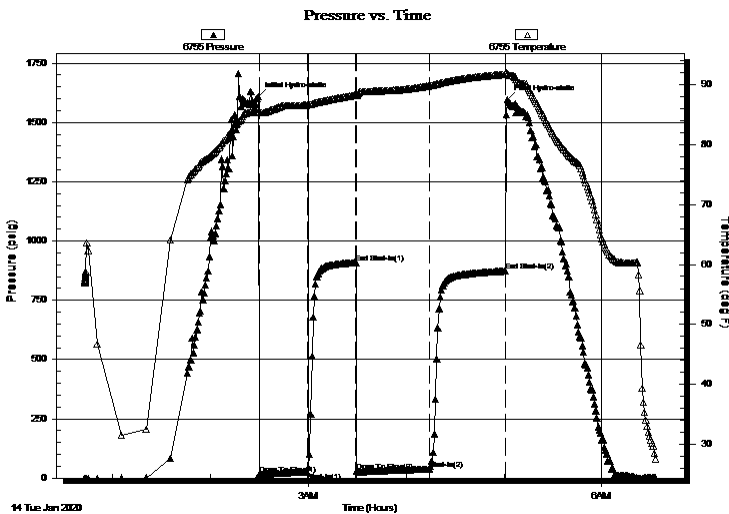
**Serial #: 6755**

**Outside**

Press@RunDepth: 873.57 psig @ 3262.00 ft (KB) Capacity: psig  
 Start Date: 2020.01.14 End Date: 2020.01.14 Last Calib.: 2020.01.14  
 Start Time: 00:43:01 End Time: 06:33:02 Time On Btm: 2020.01.14 @ 02:29:17  
 Time Off Btm: 2020.01.14 @ 05:02:02

**TEST COMMENT:** IF 30 Minutes/ Blow built to 1 1/4 inch  
 ISI 30 Minutes/ No blow back  
 FF 45 Minutes/ Blow built to 1 1/2 inch  
 FSI 45 Minutes/ No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.08	85.53	Initial Hydro-static
1	16.35	85.35	Open To Flow (1)
30	24.93	86.65	Shut-In(1)
60	909.18	88.29	End Shut-In(1)
61	28.00	88.28	Open To Flow (2)
106	39.15	89.87	Shut-In(2)
152	873.57	91.79	End Shut-In(2)
153	1596.03	91.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	WM/ W 30% M 70%	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations Inc  
8411 Preston Rd Suite 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**28-15S-14W Russell,KS**  
**Radke #1**  
Job Ticket: 66228 **DST#: 3**  
Test Start: 2020.01.14 @ 00:43:00

## Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume: 45.80 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3260.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.81 ft				
Tool Length:	69.81 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			3245.00	
Hydraulic tool	5.00			3250.00	
Top Packer	5.00			3255.00	
Packer	5.00			3260.00	20.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3261.00	
Recorder	1.00	6755	Outside	3262.00	
Anchor	11.00			3273.00	
Change Over Sub	1.00			3274.00	
Drill Pipe	31.81			3305.81	
Change Over Sub	1.00			3306.81	
Bullnose	3.00			3309.81	49.81 Anchor Tool

**Total Tool Length: 69.81**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations Inc

**28-15S-14W Russell,KS**

8411 Preston Rd Suite 800  
Dallas TX 75225+5520

**Radke #1**

Job Ticket: 66228

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2020.01.14 @ 00:43:00

## 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:

22000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	WM/ W 30% M 70%	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

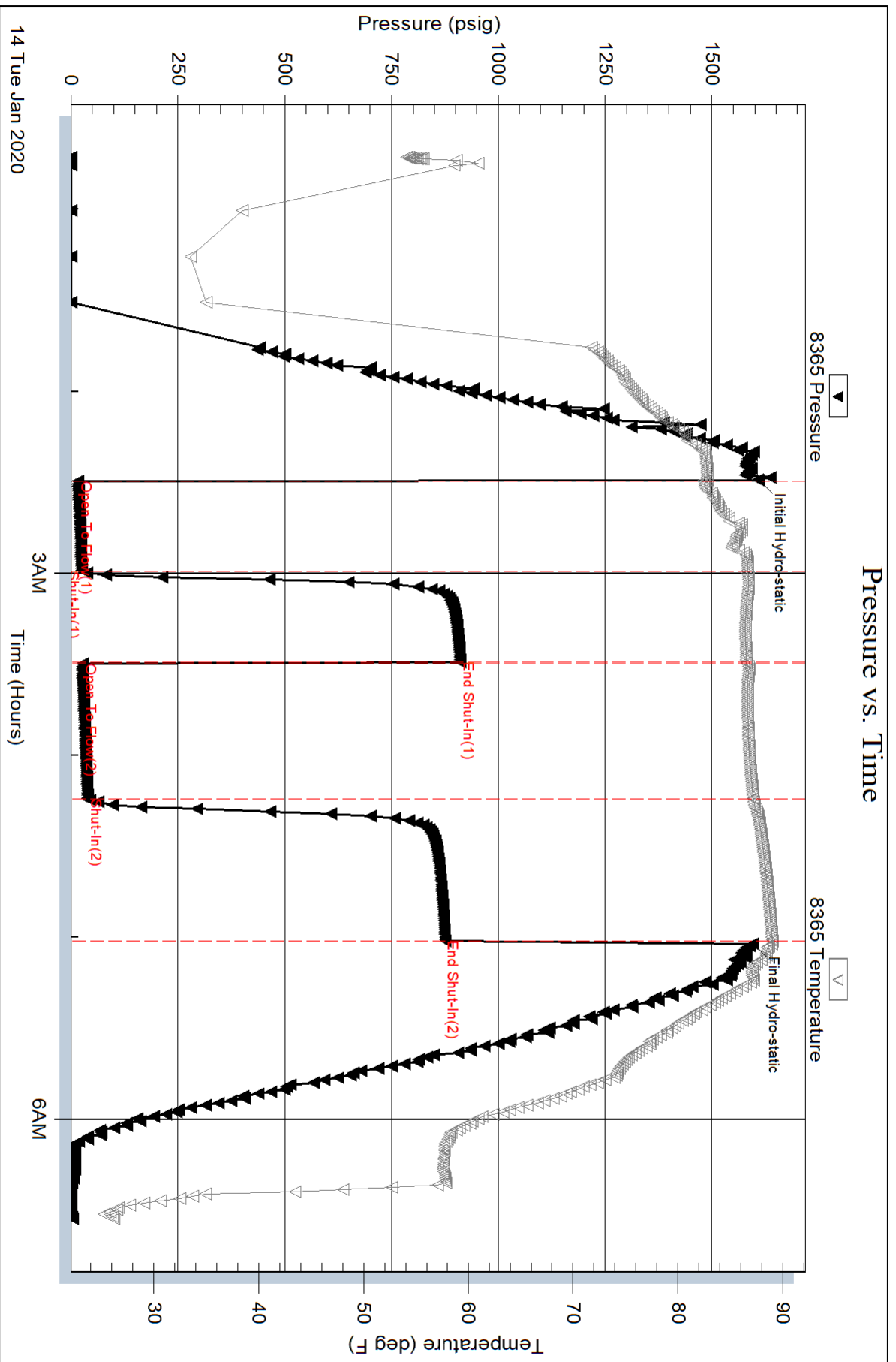
Serial #:

Laboratory Name:

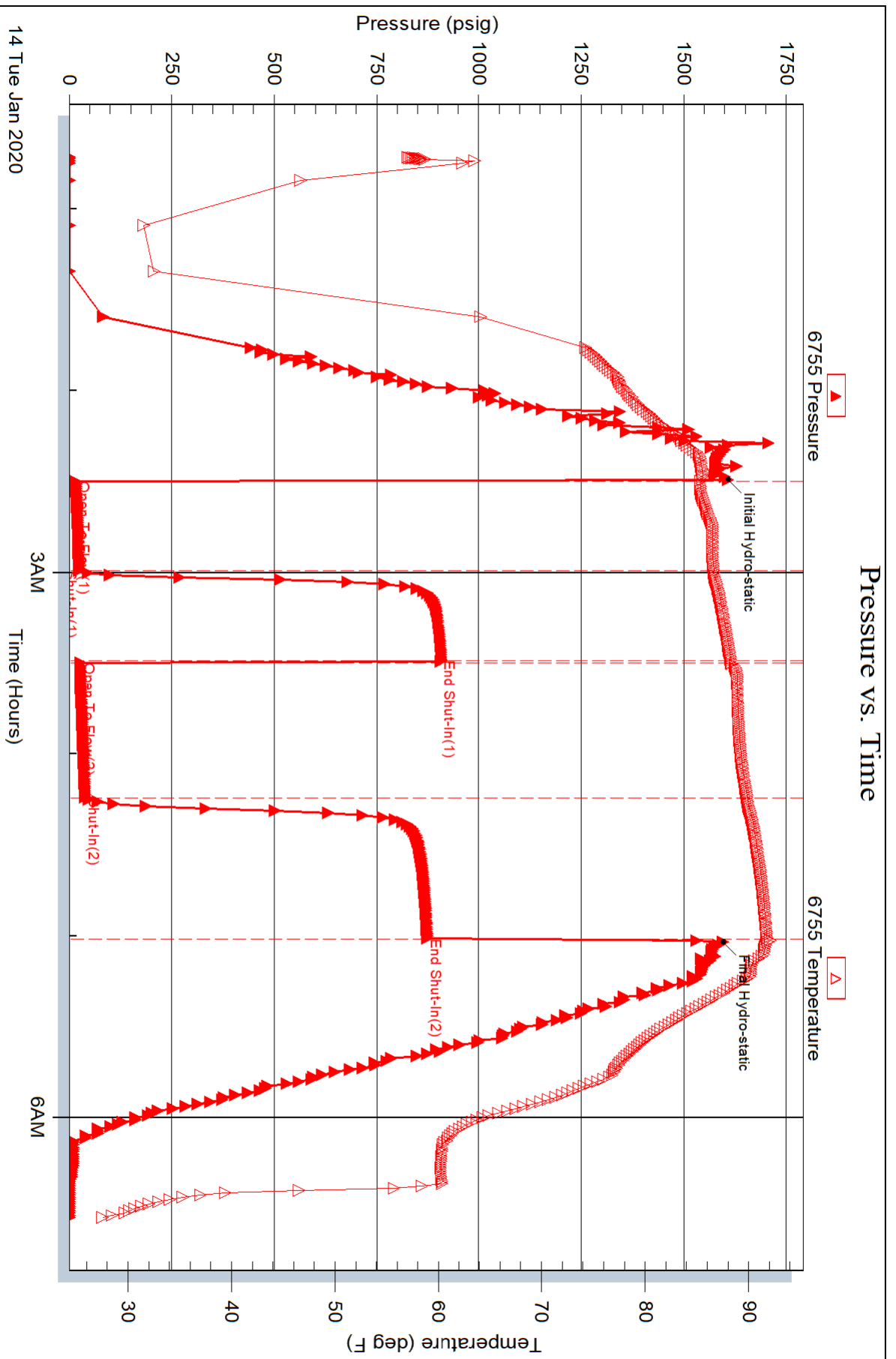
Laboratory Location:

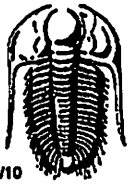
Recovery Comments: Recovery Resistivity .680 ohms @ 30 deg

# Pressure vs. Time









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 66226

NO.

Well Name & No. Redke #2 Test No. 2 Date 12 JAN 20  
 Company Mai Oil Operations Inc. Elevation 1850 KB 1841 GL  
 Address 8411 Preston Rd suite 800 Dallas Texas 75225+5520  
 Co. Rep/Geo. Wyatt Urban Rig Southerwind Rig 3  
 Location: Sec. 28 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3064-3160 Zone Tested hansing A-F  
 Anchor Length 96 ft Drill Pipe Run 3068 Mud Wt. 9.2  
 Top Packer Depth 3059 Drill Collars Run - Vls 48  
 Bottom Packer Depth 3064 Wt. Pipe Run - WL 9.2  
 Total Depth 3160 Chlorides 5500 ppm System LCM 1#

Blow Description IF surface blow did not build died in 10 minutes  
FSI No blow back  
FF few bubbles of open dead flush tool surface blow for 10 minutes  
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				<u>100</u>

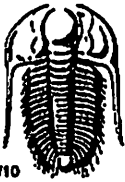
Rec Total 5 BHT 85 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1538  Test 1200 T-On Location 12:51 am  
 (B) First Initial Flow 16  Jars 250 T-Started 3:37 pm  
 (C) First Final Flow 19  Safety Joint 75 T-Open 5:29 pm  
 (D) Initial Shut-In 211  Circ Sub - T-Pulled 6:59 pm  
 (E) Second Initial Flow 18  Hourly Standby - T-Out 8:46 pm  
 (F) Second Final Flow 21  Mileage 60 60 Comments -  
 (G) Final Shut-In 322  Sampler -  
 (H) Final Hydrostatic 1523  Straddle -  
 Shale Packer -  
 Extra Packer -  
 Extra Recorder -  
 Day Standby -  
 Accessibility -

Initial Open 15  
 Initial Shut-In 15  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1585 MP/DST Disc't -

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or person 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 66227

NO.

Well Name & No. Rodke #1 Test No. 2 Date 13 JAN 20  
 Company Mci Oil Operations Inc Elevation 1850 KB 1841 GL  
 Address 8411 Preston Rd Suite 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Wyatt Urban Rig Southwind Rig 3  
 Location: Sec. 28 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3204-3260 Zone Tested Landing/Kansas City H I J  
 Anchor Length 56 Drill Pipe Run 3202 Mud Wt. 9.2  
 Top Packer Depth 3199 Drill Collars Run - Vls 48  
 Bottom Packer Depth 3204 Wt. Pipe Run - WL 9.2  
 Total Depth 3260 Chlorides 5500 ppm System LCM 1#

Blow Description IF Blow built to 4 inch  
ISE No blow back  
EF Blow built to 2 inch  
FSE No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>					
<u>40</u>	<u>GIP</u>	<u>100</u>			

Rec Total 60 BHT 89 Gravity 1200 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 1602  Test 1200 T-On Location 6:03 am  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 7:17 am  
 (C) First Final Flow 18  Safety Joint \_\_\_\_\_ T-Open 9:10 am  
 (D) Initial Shut-In 89  Circ Sub \_\_\_\_\_ T-Pulled 11:40 am  
 (E) Second Initial Flow 15  Hourly Standby \_\_\_\_\_ T-Out 1:21 pm  
 (F) Second Final Flow 19  Mileage 60 Comments \_\_\_\_\_  
 (G) Final Shut-In 111  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1595  Straddle \_\_\_\_\_  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 45  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1260 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket 66228

NO.

Well Name & No. <u>Radke #2</u>	Test No. <u>3</u>	Date <u>14 JAN 20</u>
Company <u>Maj Oil Operations Inc</u>	Elevation <u>1850</u>	KB <u>1841</u> GL
Address <u>8411 Preston Rd Suite 800 Dallas TX 75225+5520</u>		
Co. Rep / Geo. <u>Wyatt Urban</u>	Rig <u>Southwind Rig 3</u>	
Location: Sec. <u>28</u> Twp <u>15S</u> Rge. <u>14W</u>	Co. <u>Russell</u>	State <u>KS</u>

Interval Tested <u>3260-3310</u>	Zone Tested <u>Airbuck 10</u>	
Anchor Length <u>50</u>	Drill Pipe Run <u>326.5</u>	Mud Wt. <u>9.4</u>
Top Packer Depth <u>3255</u>	Drill Collars Run <u>-</u>	Vis <u>40</u>
Bottom Packer Depth <u>3260</u>	Wt. Pipe Run <u>-</u>	WL <u>10.4</u>
Total Depth <u>3310</u>	Chlorides <u>5500</u> ppm System	LCM <u>1/2 #</u>
Blow Description <u>IF blow built to 1 1/4 inch</u>		
<u>ISI No blow back</u>		
<u>FF Blow built to 1 1/2 inch</u>		
<u>FSI No blow back</u>		

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>WM</u>			<u>30%</u>	<u>70%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>50</u>	BHT <u>89</u>	Gravity <u>API RW .690 @ 30° F</u>	Chlorides <u>22,000</u> ppm
(A) Initial Hydrostatic <u>1609</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>11:35 pm</u>	
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars	T-Started <u>12:43 am</u>	
(C) First Final Flow <u>25</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2:30 am</u>	
(D) Initial Shut-In <u>911</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>5:00 am</u>	
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:34 am</u>	
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>60</u>	Comments	
(G) Final Shut-In <u>875</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic <u>1595</u>	<input type="checkbox"/> Straddle		
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool	
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer	
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer	
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies	
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>	
	Sub Total <u>1260</u>	Total <u>1260</u>	
		MP/DST Disc't	

Approved By \_\_\_\_\_ Our Representative [Signature]

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

**JAMES C. MUSGROVE**

Petroleum Geologist, LLC  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 786-0839

Mai Oil Operations Inc.  
Radke #1  
NE-SE-SE (920' FSL & 935' FEL)  
Section 28-15s-14w  
Russell County, Kansas

Page 1

**Dry and Abandoned**

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** January 8, 2020  
**Completed:** January 14, 2020  
**Elevation:** 1851' K.B., 1849' D.F., 1841' G.L.  
**Casing program:** Surface; 8 5/8" @ 547'  
Production, 5 1/2" @ none  
**Sample:** Samples saved and examined 2800' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2800' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were three (3) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** None

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	858	+993
Base Anhydrite	890	+961
Heebner	3004	-1153
Toronto	3021	-1170
Lansing	3066	-1215
Base Kansas City	3294	-1443
Arbuckle	3304	-1423
Rotary Total Depth	3311	-1460

(All tops and zone(s) corrected to Electric Log Measurements)

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

**TOPEKA SECTION**

2926-2930' Limestone, cream, white, poor scattered vuggy type porosity, dark black viscous, free oil and questionable odor in fresh samples  
2954-2974' Limestone, tan, cream, fossiliferous, fair porosity, trace spotty black stain, show of free oil and questionable odor in fresh samples.

**LANSING SECTION**

- 3066-3074' Limestone, cream, white, chalky; dense, poor porosity, black stain, weak show of free oil and no odor in fresh samples.
- 3085-3094' Limestone, white, cream, few fossiliferous, poorly developed pinpoint porosity, chalky in part; trace black stain, weak black (flaky) show of free oil and faint odor in fresh samples.
- 3101-3106' Limestone, white, fossiliferous, oolitic, poorly developed porosity, trace black stain, weak show of free oil and no odor.
- 3153-3158' Limestone, white, gray, fossiliferous, trace loose fossil fragment; poor pinpoint porosity, trace black stain, show of free oil and no odor in fresh samples.

**Drill Stem Test #1 3064-3160**

**Times: 15-15-30-30**

**Blow: Weak**

**Recovery: 5' mud**

**Pressures: ISIP 212 psi  
FSIP 323 psi  
IFP 16-19 psi  
FFP 18-21 psi  
HSH 1539-1527 psi**

- 3170-3177' Limestone, tan; fossiliferous, oolitic, scattered porosity, light brown stain, show of free oil, weak odor in fresh sample.
- 3178-3198' Limestone, cream, oolitic, oomoldic; chalky, spotty golden brown stain, no free oil and no odor in fresh samples.
- 3214-3220' Limestone, white, fossiliferous, granular, chalky, poor porosity, light brown and gray stain, show of free oil and no odor in fresh samples.
- 3228-3236' Limestone, gray, mottled, fossiliferous, dense; chalky, brown stain, trace free oil and fair odor in fresh samples.
- 3241-3250' Limestone, white, fossiliferous, oolitic, chalky, fair scattered porosity, poor stain, weak show of free oil and faint odor in fresh samples.

**Drill Stem Test #2**

**3204-3260**

**Times: 30-30-45-45**

**Blow: Weak**

**Recovery: 40' gas in pipe  
20' slightly oil cut mud  
(2% oil; 98% mud)**

**Pressures: ISIP 84 psi  
FSIP 111 psi  
IFP 16-18 psi  
FFP 15-19 psi  
HSH 1602-1595 psi**

3279-3284' Limestone, white, oolitic, chalky, sparry calcite cement, no shows.

**ARBUCKLE SECTION**

3304-3306' Dolomite, tan, sucrosic, good pinpoint to fine inter-crystalline type porosity, trace brown stain, no free oil and questionable odor in fresh samples.

3306-3308' Dolomite, cream, white, sucrosic, light black stain, show of free oil and faint odor in fresh samples; trace pyrite inclusions.

3308-3311' Dolomite, white, fine to medium crystalline, sucrosic, black stain, show of free oil (decreasing) and faint odor in fresh samples.

**Drill Stem Test #3**

**3260-3311**

**Times: 30-30-45-45**

**Blow: Weak**

**Recovery: 50' watery mud  
(30% water; 70% mud)**

**Pressures: ISIP 911 psi  
FSIP 875 psi  
IFP 16-25 psi  
FFP 28-39 psi  
HSH 1609-1505 psi**

Mai Oil Operations Inc.  
Radke #1  
NE-SE-SE (920' FSL & 935' FEL)  
Section 28-15s-14w  
Russell County, Kansas

Page 4

**Rotary Total Depth: 3311-1460**

**Recommendations:**

The Mai Oil Operations, Radke #1 was plugged and abandoned at the Rotary Total Depth 3311-1460

Respectfully yours,

Wyatt Urban  
Petroleum Geologist





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

Date: 1/9/2020  
 Invoice # 1876

P.O.#:

Due Date: 2/8/2020

Division: *Russell*

# Invoice

**Contact:**

Mai Oil Operations  
 Address/Job Location:

8411 Preston Rd. Ste 800  
 Dallas TX 75225-5520

**Reference:**

RADKE 1 SEC 28-15-14

**Description of Work:**

LONG SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No				
Common-Class A	150	\$ 2,337.83	Yes				
POZ Mix-Standard	100	\$ 529.61	Yes				
Calcium Chloride	11	\$ 466.05	Yes				
Bulk Truck Matl-Material Service Charge	266	\$ 201.25	No				
Premium Gel (Bentonite)	5	\$ 109.70	Yes				
8 5/8" Top Rubber Plug	1	\$ 92.30	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 51.07	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 39.72	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,502.55  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (112.56)

SubTotal for Taxable Items:	\$ 3,447.11
SubTotal for Non-Taxable Items:	\$ 942.88
<b>Total:</b>	<b>\$ 4,389.99</b>
<b>Tax:</b>	<b>\$ 293.00</b>

8.50% Russell County Sales Tax

**Amount Due: \$ 4,682.99**  
**Applied Payments:**  
**Balance Due: \$ 4,682.99**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 1876

Date	1-9-20	Sec.	28	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	7:00 AM
------	--------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Lease **Radke** Well No. **1** Location **281 + milberger Rd, 1/2w,** Owner

Contractor **Southwind #3** 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.

Type Job **Surface** Charge To **Mai oil operations**

Hole Size **12 1/4"** T.D. **558'** Csg. **8 5/8"** Depth **558'** 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. **20'** Shoe Joint **20'** Cement Amount Ordered **250 60/40 4%CC 2%Gel**

Meas Line Displace **34 1/4 Bbs**

EQUIPMENT				Common
Pumptrk	16	No.	Cementer	<b># 150</b>
			Helper	<b>100</b>
Bulktrk	1	No.	Driver	<b>5</b>
			Driver	<b>11</b>
Bulktrk	<b>p.u.</b>	No.	Driver	
			Driver	

JOB SERVICES & REMARKS

Remarks: **Cement did Circulate**

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling **266**

Mileage

Guide Shoe **Rubber plug**

Centralizer.

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **Long Surface**

Mileage **15**

Tax

Discount

Signature **Jay Lewis** Total Charge

*Thank's*