

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	S&D UNIT 1
Doc ID	1668845

Tops

Name	Top	Datum
Anhydrite	683	1155
Topeka	2613	-975
Heebner	2894	-1056
Toronto	2908	-1070
Douglas	2923	-1085
Lansing	3000	-1162
BKC	3261	-1423
Cong	3289	-1451
Arb	3314	-1492

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.
S&D Unit #1
NE-SE-SE-NE (2138' FNL & 65' FEL)
Section 36-15s-12w
Russell County, Kansas

Page 1

Dry and Abandoned

Contractor: Southwind Drilling Co. (rig #1)
Commenced: August 22, 2022
Completed: August 29, 2022
Elevation: 1838' K.B., 1836 D.F., 1828' G.L.
Casing program: Surface; 8 5/8" @ 695'
Production, 5 1/2" @ None
Sample: Samples saved and examined 2600' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2600' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) test ran by Trilobite Testing Co.
Electric Log: None

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	683	+1155
Base Anhydrite	700	+1138
Topeka	2613	-975
Heebner	2894	-1056
Toronto	2908	-1070
Douglas	2923	-1085
Brown Lime	2985	-1147
Lansing	3000	-1162
Base Kansas City	3261	-1423
Conglomerate	3289	-1451
Arbuckle	3314	-1476
Rotary Total Depth	3330	-1492

(All tops and zone(s) determination were made from a correlation of the Drilling Time and Sample Analysis)

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

TOPEKA SECTION

2842-2852' Limestone, white, gray, fossiliferous, chalky; poor to fair porosity, light brown and brown spotty stain, trace of free oil and no odor.

TORONTO SECTION

2908-2922' Limestone, tan, gray, fossiliferous, chalky, trace brown edge staining, no show of free oil and no odor.

LANSING SECTION

- 3000-3010' Limestone, white, cream, tan, fossiliferous, chalky; poor visible porosity, trace golden brown stain, trace of free oil and no odor.
- 3012-3016' Limestone, white, tan, oolitic, slightly cherty; dense.
- 3026-3036' Limestone, tan, oolitic, oomoldic, fair oomoldic porosity, light brown and golden brown stain. Trace of free oil and faint odor in fresh samples (gas zone is offsetting wells.)
- 3048-3054' Limestone, gray, tan, fossiliferous/oolitic, poorly developed porosity, no shows.
- 3062-3066' Limestone, tan, oolitic, slightly cherty, dense.
- 3079-3084' Limestone, white, gray, oolitic, chalky, poor visible porosity, no shows.
- 3088-3111' Limestone, white, cream, oomoldic, good oomoldic porosity, light brown spotted stain, no free oil and no odor in fresh samples.
- 3111-3130' Limestone, tan, finely crystalline, slightly cherty (dense)
- 3143-3148' Limestone, white, oolitic, oomoldic, fair oomoldic porosity, poor stain, couple of pieces show of free oil and no odor.
- 3156-3164' Limestone; white, oolitic, chalky, increasingly cherty, poor visible porosity, no shows.
- 3178-3188' Limestone, white, gray, oolitic, chalky, poorly developed porosity, trace brown stain; no show of free oil and no odor in fresh samples.
- 3214-3222' Limestone, tan, white, oolitic, chalky; few cherty, poor visible porosity, poor stain, trace of free oil and no odor.

Drill Stem Test #1 3126-3226

Times: 30-30-45-60

Blow: Fair (7 ½ inches)
2nd Opening Good (B.o.b. 35 mins)

Recovery: 140' gas in pipe
45' very slightly oil and gas cut mud
(10% gas; 5% oil; 85% mud))

Pressures: ISIP 164 psi
FSIP 232 psi
IFP 80-73 psi
FFP 76-77 psi
HSH 1608-1500 psi

- 3228-3234' Limestone, tan, brown, slightly cherty (dense)
- 3240-3254' Limestone, white, cream, chalky, poor porosity, no shows.

Mai Oil Operations, Inc.
S&D Unit #1
NE-SE-SE-NE (2138' FNL & 65' FEL)
Section 36-15s-12w
Russell County, Kansas

Page 3

CONGLOMERATE SECTION

- 3289-3306' Chert, white, gray, orange, boney in matrix of yellow, green and red soft to sub-waxy shales.
- 3306-3314' Chert as above, oolitic, boney, opaque, with iron pyrite, no shows.

ARBUCKLE SECTION

- 3314-3320' Dolomite, gray and white, cream, fine and medium crystalline, poorly developed porosity, chalky luster, no shows.
- 3320-3330' Dolomite, white, cream, medium and coarse crystalline, good inter-crystalline and vuggy type porosity, brown and golden stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 3252-3330

Times: 30-30-30-45

Blow: Strong (B.o.b. 3 mins)
2nd Opening Strong (B.o.b. 2 mins)

Recovery: 315' muddy water
(30% water; 70% mud; few oil specks)
1575' water

Pressures: ISIP 1116 psi
FSIP 1105 psi
IFP 161-569 psi
FFP 584-827 psi
HSH 1639-1614 psi

Rotary Total Depth: 3330 (-1494)

Remarks:

The Mai Oil Operations, Inc., was plugged and abandoned at the Rotary Depth 3330 (-1492)

Respectfully submitted,

James C Musgrove
Petroleum Geologist



DRILL STEM TEST REPORT

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

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Jim Musgrove

S & D Unit #1

36-15s-12w Russell,KS

Start Date: 2022.08.27 @ 14:06:00

End Date: 2022.08.27 @ 21:18:02

Job Ticket #: 69511 DST #: 1

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

Printed: 2022.08.30 @ 14:24:54

Mai Oil Operations Inc.
36-15s-12w Russell,KS
S & D Unit #1
DST # 1
LKC "I-J"
2022.08.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

36-15s-12w Russell,KS
S & D Unit #1
 Job Ticket: 69511 **DST#: 1**
 Test Start: 2022.08.27 @ 14:06:00

GENERAL INFORMATION:

Formation: **LKC "I- J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:27:32
 Time Test Ended: 21:18:02
 Interval: **3126.00 ft (KB) To 3226.00 ft (KB) (TVD)**
 Total Depth: 3226.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason/Richie Sa
 Unit No: 72
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

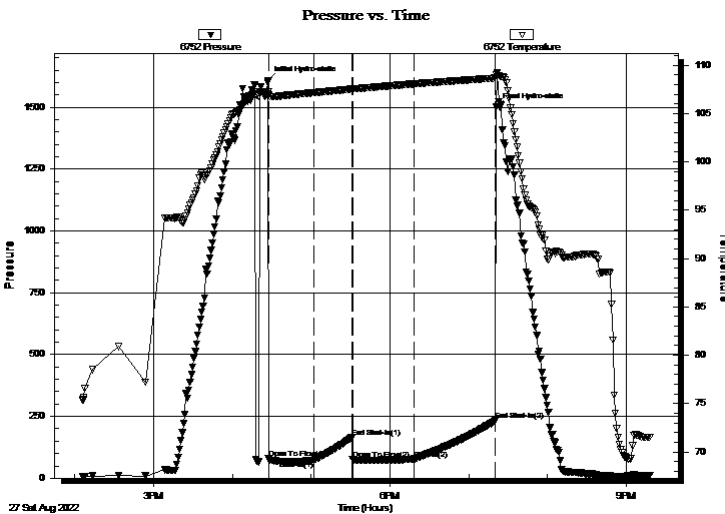
Serial #: 6752

Inside

Press@RunDepth: 77.26 psig @ 3208.00 ft (KB) Capacity: psig
 Start Date: 2022.08.27 End Date: 2022.08.27 Last Calib.: 2022.08.27
 Start Time: 14:06:01 End Time: 21:18:02 Time On Btm: 2022.08.27 @ 16:27:17
 Time Off Btm: 2022.08.27 @ 19:20:47

TEST COMMENT: IF: fair blow , built to 7.12"
 IS: no blow back
 FF: fair blow , BOB in 35 minutes, built to 13.85
 FS: no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.11	107.21	Initial Hydro-static
1	80.35	106.94	Open To Flow (1)
35	73.22	107.15	Shut-In(1)
64	164.22	107.53	End Shut-In(1)
65	75.56	107.53	Open To Flow (2)
111	77.26	108.06	Shut-In(2)
173	232.31	108.71	End Shut-In(2)
174	1499.97	109.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	140 GIP	0.00
45.00	GOCM 10%G 5%O 85%M	0.63

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

36-15s-12w Russell,KS
S & D Unit #1
 Job Ticket: 69511 **DST#: 1**
 Test Start: 2022.08.27 @ 14:06:00

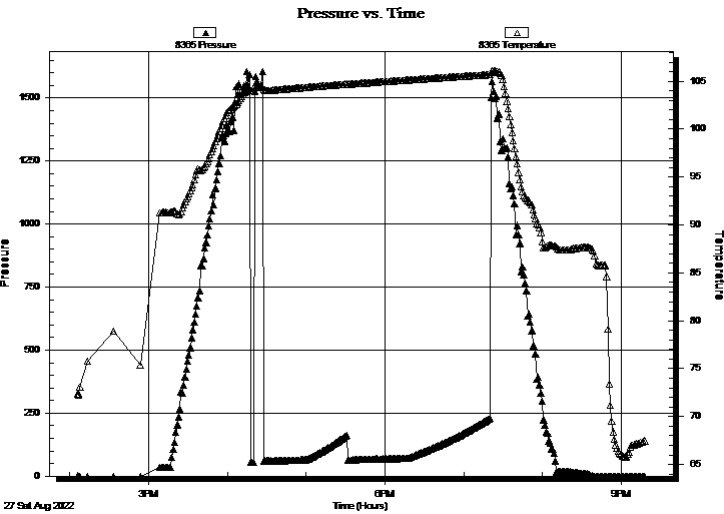
GENERAL INFORMATION:

Formation: **LKC "I- J"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:27:32 Tester: Leal Cason/Richie Sa
 Time Test Ended: 21:18:02 Unit No: 72
Interval: 3126.00 ft (KB) To 3226.00 ft (KB) (TVD) Reference Elevations: 1838.00 ft (KB)
 Total Depth: 3226.00 ft (KB) (TVD) 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8365 Outside

Press@RunDepth: psig @ 3208.00 ft (KB) Capacity: psig
 Start Date: 2022.08.27 End Date: 2022.08.27 Last Calib.: 2022.08.27
 Start Time: 14:06:01 End Time: 21:18:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: fair blow , built to 7.12"
 IS: no blow back
 FF: fair blow , BOB in 35 minutes, built to 13.85
 FS: no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	140 GIP	0.00
45.00	GOCM 10%G 5%O 85%M	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc.

36-15s-12w Russell,KS

8411 Preston Rd STE 800
Dallas, TX. 75225

S & D Unit #1

Job Ticket: 69511

DST#: 1

ATTN: Jim Musgrove

Test Start: 2022.08.27 @ 14:06:00

Tool Information

Drill Pipe:	Length: 3107.00 ft	Diameter: 3.80 inches	Volume: 43.58 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.58 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3126.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	124.00 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			3107.00	
Hydraulic tool	5.00			3112.00	
EM Tool	3.00			3115.00	
Safety Joint	2.00			3117.00	
Packer	5.00			3122.00	24.00 Bottom Of Top Packer
Packer	4.00			3126.00	
Stubb	1.00			3127.00	
Perforations	10.00			3137.00	
Change Over Sub	1.00			3138.00	
Drill Pipe	64.00			3202.00	
Change Over Sub	1.00			3203.00	
Handling Sub	5.00			3208.00	
Recorder	0.00	6752	Inside	3208.00	
Recorder	0.00	8365	Outside	3208.00	
perforations	15.00			3223.00	
Bullnose	3.00			3226.00	100.00 Bottom Packers & Anchor
Total Tool Length:	124.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operatiions Inc.

36-15s-12w Russell,KS

8411 Preston Rd STE 800
Dallas, TX. 75225

S & D Unit #1

Job Ticket: 69511

DST#: 1

ATTN: Jim Musgrove

Test Start: 2022.08.27 @ 14:06:00

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: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	140 GIP	0.000
45.00	GOCM 10%G 5%O 85%M	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbf

Num Fluid Samples: 0

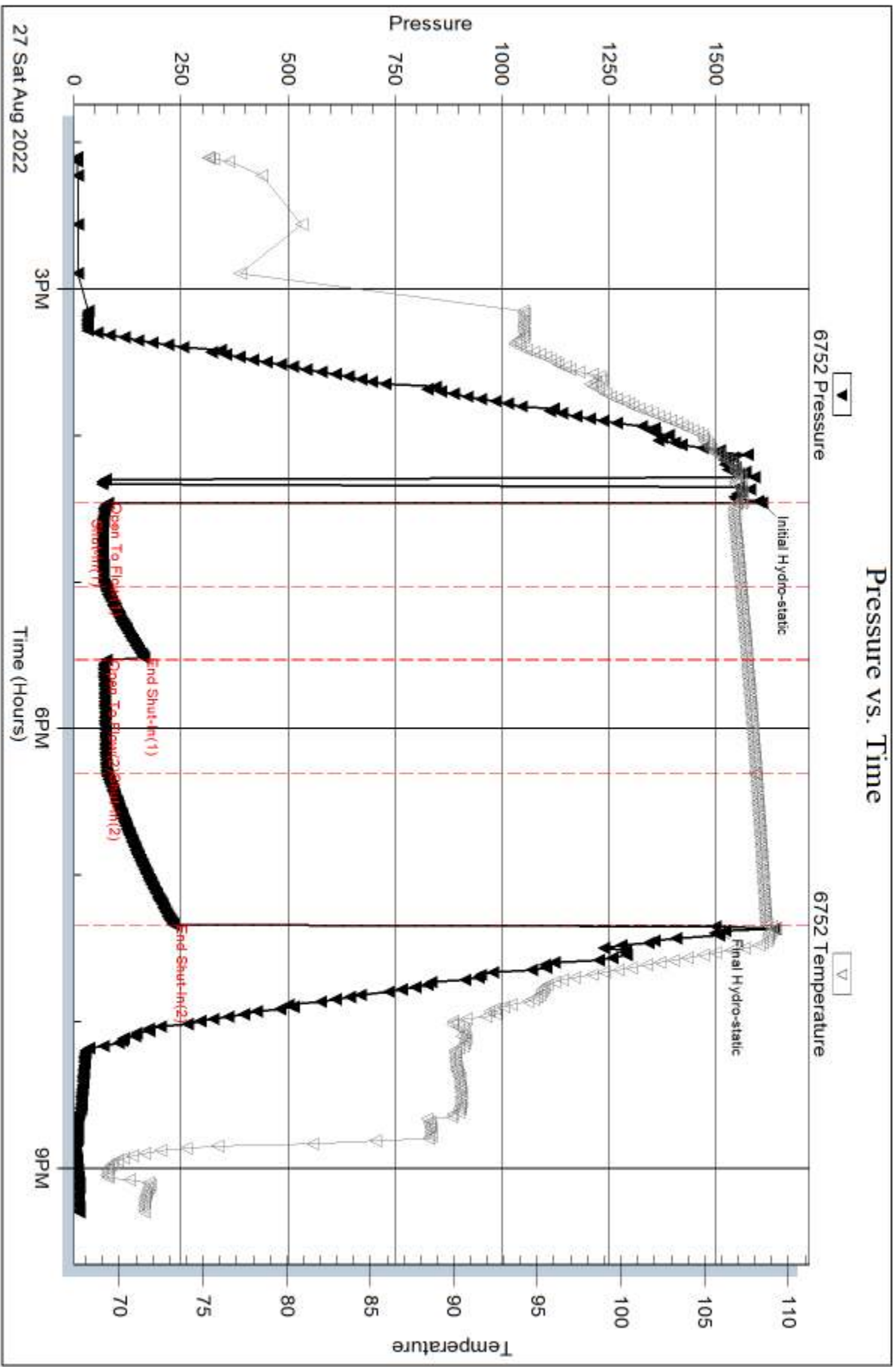
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

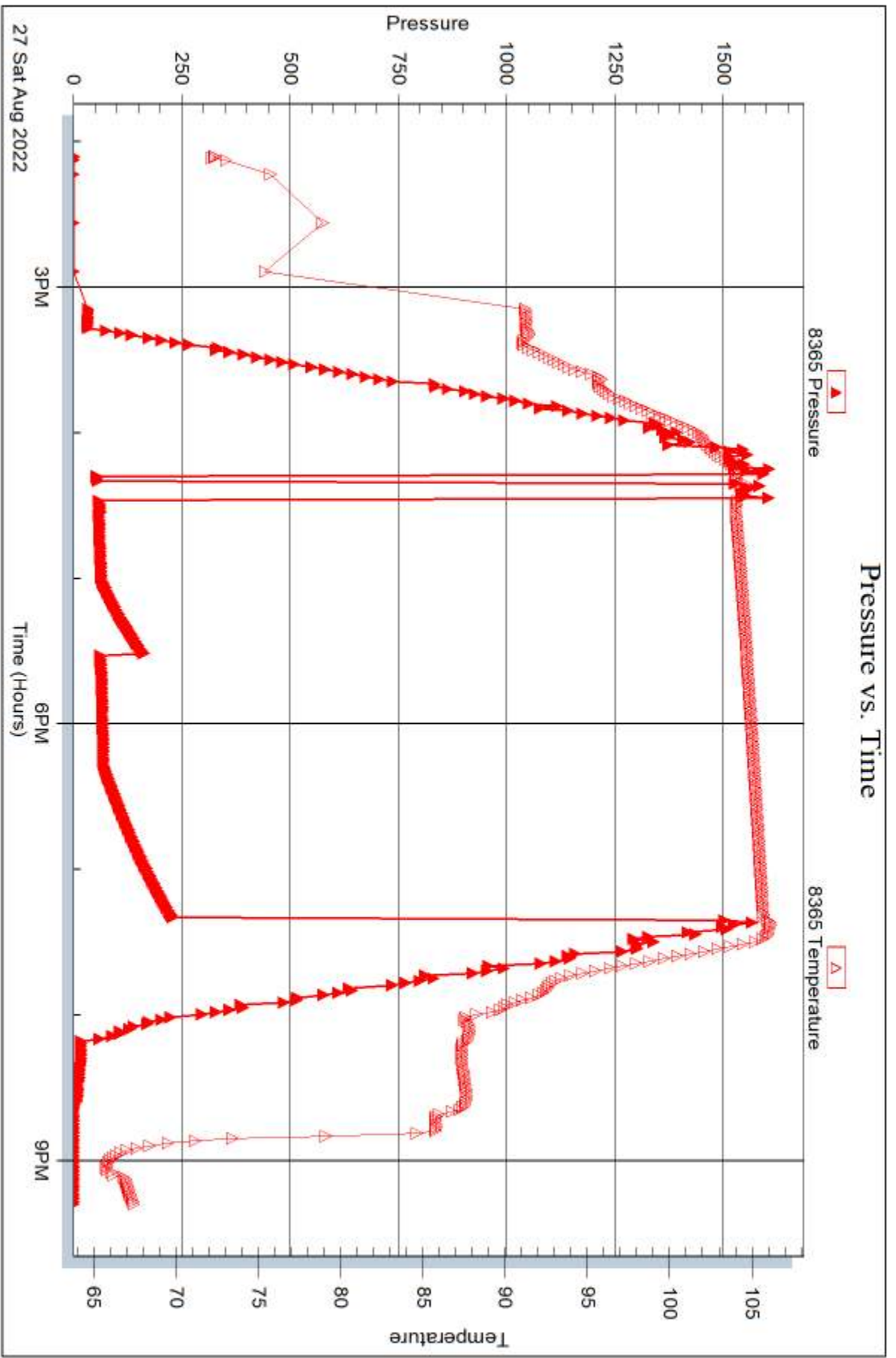


Serial #: 8365

Outside Mai Oil Operations Inc.

S & D Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 69511

Printed: 2022.08.30 @ 14:24:55



DRILL STEM TEST REPORT

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

8411 Preston Rd STE 800
Dallas, TX 75225

ATTN: Jim Musgrove

S & D Unit #1

36-15s-12w Russell,KS

Start Date: 2022.08.28 @ 11:11:00

End Date: 2022.08.28 @ 17:33:02

Job Ticket #: 69511 DST #: 2

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

Printed: 2022.08.30 @ 14:17:21

Mai Oil Operations Inc.
36-15s-12w Russell,KS
S & D Unit #1
DST # 2
Arbuckle
2022.08.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

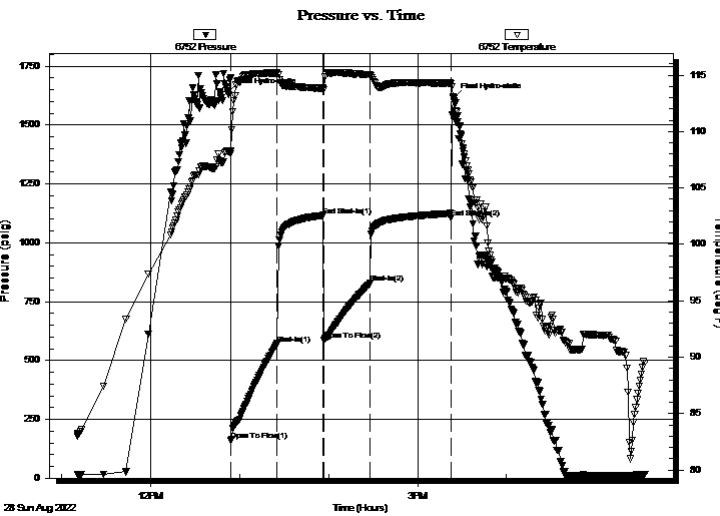
36-15s-12w Russell,KS
S & D Unit #1
 Job Ticket: 69511 **DST#: 2**
 Test Start: 2022.08.28 @ 11:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:54:17
 Time Test Ended: 17:33:02
 Interval: **3252.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason/Richie Sa
 Unit No: 72
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 827.16 psig @ 3327.00 ft (KB) Capacity: psig
 Start Date: 2022.08.28 End Date: 2022.08.28 Last Calib.: 2022.08.28
 Start Time: 11:11:01 End Time: 17:33:02 Time On Btm: 2022.08.28 @ 12:52:02
 Time Off Btm: 2022.08.28 @ 15:24:32

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes, Built to 173"
 IS: No Blow Back
 FF: Strong Blow , BOB in 2 minutes, Built to 133"
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.20	108.26	Initial Hydro-static
3	160.54	108.02	Open To Flow (1)
34	568.89	115.14	Shut-In(1)
65	1116.05	113.85	End Shut-In(1)
65	584.48	113.71	Open To Flow (2)
96	827.16	115.08	Shut-In(2)
151	1105.14	114.28	End Shut-In(2)
153	1614.20	112.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1575.00	Water	22.09
315.00	WCM 30% W 70% M	4.42

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.

36-15s-12w Russell,KS

8411 Preston Rd STE 800
Dallas, TX. 75225

S & D Unit #1

Job Ticket: 69511

DST#: 2

ATTN: Jim Musgrove

Test Start: 2022.08.28 @ 11:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:17

Time Test Ended: 17:33:02

Interval: **3252.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason/Richie Sa

Unit No: 72

Reference Elevations: 1838.00 ft (KB)

1828.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8365 Outside

Press@RunDepth: psig @ 3327.00 ft (KB)

Start Date: 2022.08.28

End Date: 2022.08.28

Capacity: psig

Last Calib.: 2022.08.28

Start Time: 11:11:01

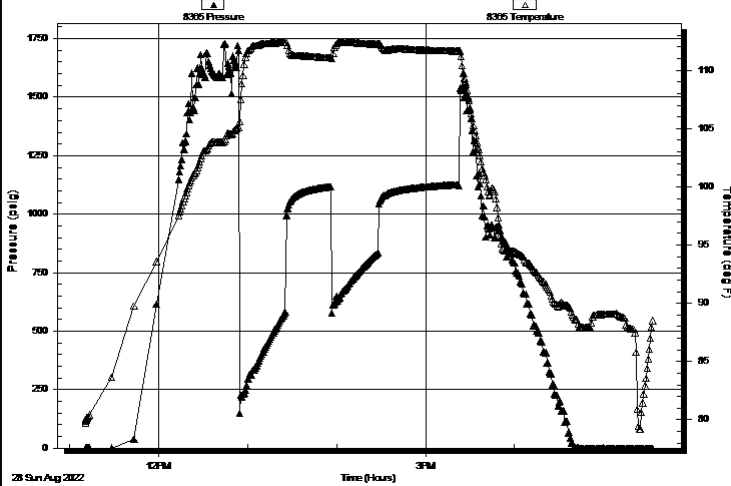
End Time: 17:33:02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 3 minutes, Built to 173"
 IS: No Blow Back
 FF: Strong Blow, BOB in 2 minutes, Built to 133"
 FS: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1575.00	Water	22.09
315.00	WCM 30% W 70% M	4.42

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.

36-15s-12w Russell,KS

8411 Preston Rd STE 800
Dallas, TX. 75225

S & D Unit #1

Job Ticket: 69511

DST#: 2

ATTN: Jim Musgrove

Test Start: 2022.08.28 @ 11:11:00

Tool Information

Drill Pipe:	Length: 3262.00 ft	Diameter: 3.80 inches	Volume: 45.76 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.76 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3252.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	102.00 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			3233.00	
Hydraulic tool	5.00			3238.00	
EM Tool	3.00			3241.00	
Safety Joint	2.00			3243.00	
Packer	5.00			3248.00	24.00 Bottom Of Top Packer
Packer	4.00			3252.00	
Stubb	1.00			3253.00	
Perforations	3.00			3256.00	
Change Over Sub	1.00			3257.00	
Drill Pipe	64.00			3321.00	
Change Over Sub	1.00			3322.00	
Handling Sub	5.00			3327.00	
Recorder	0.00	6752	Inside	3327.00	
Recorder	0.00	8365	Outside	3327.00	
Bullnose	3.00			3330.00	78.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operatiions Inc.

36-15s-12w Russell,KS

8411 Preston Rd STE 800
Dallas, TX. 75225

S & D Unit #1

Job Ticket: 69511

DST#: 2

ATTN: Jim Musgrove

Test Start: 2022.08.28 @ 11:11:00

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:

13000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1575.00	Water	22.093
315.00	WCM 30% W 70% M	4.419

Total Length: 1890.00 ft Total Volume: 26.512 bbl

Num Fluid Samples: 0

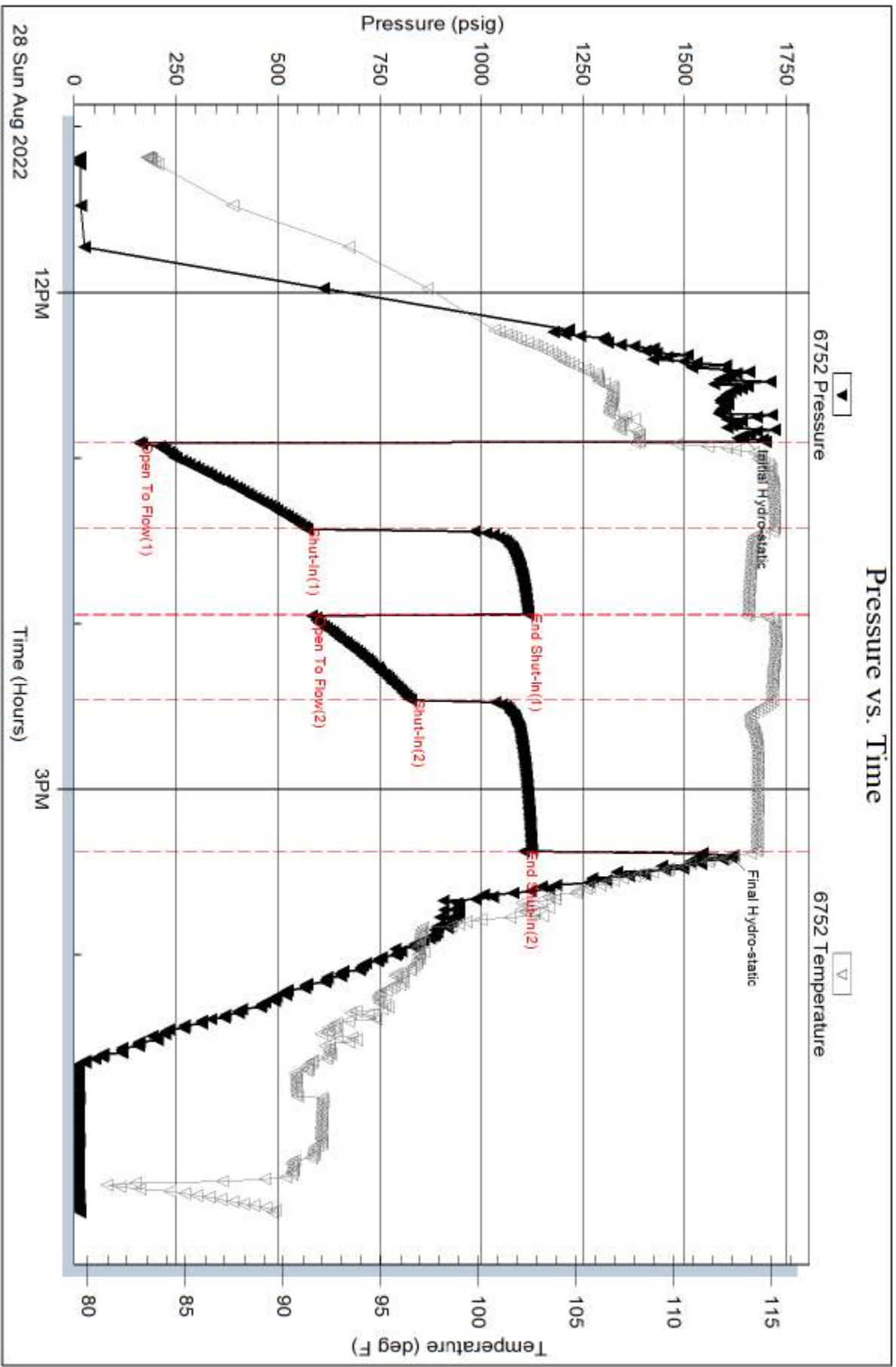
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .34@ 96 degrees

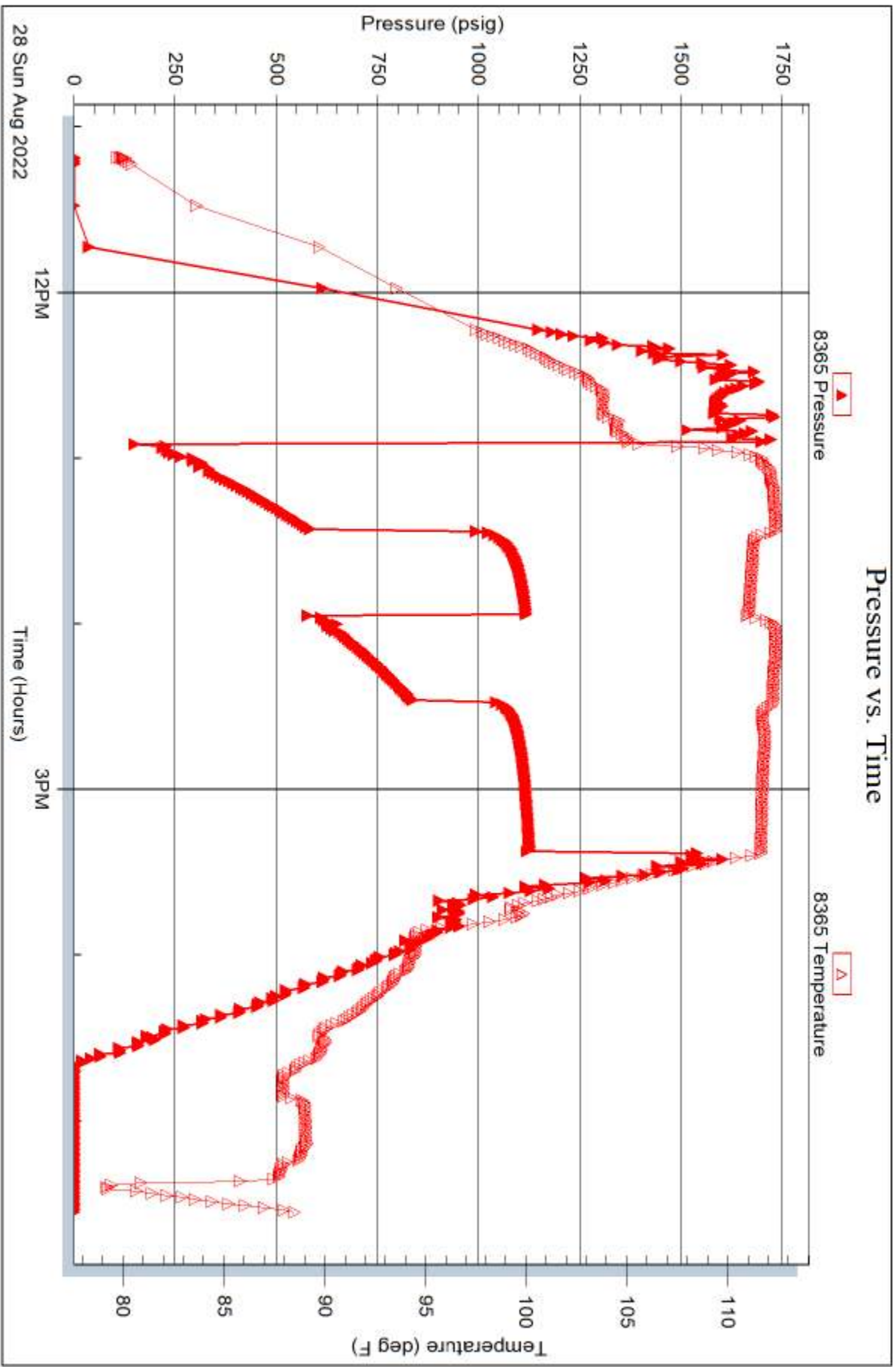


Serial #: 8365

Outside Mai Oil Operations Inc.

S & D Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69511

Printed: 2022.08.30 @ 14:17:21



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69510

Well Name & No. S + D Unit Test No. 1 Date 8-27-22
 Company Maj Oil Operations Inc Elevation 1838 KB 1828 GL
 Address 8411 Preston Rd Ste 800 Dallas TX 75225
 Co. Rep / Geo. Jim Musgrave Rig Southwind 1
 Location: Sec. 316 Twp 15s Rge. 12w Co. Russell State KS

Interval Tested 3126-3226 Zone Tested Lansing "I-J"
 Anchor Length 100' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth ~~811~~ 3121 Drill Collars Run _____ Vis 45
 Bottom Packer Depth 3126 Wt. Pipe Run _____ WL 5.4
 Total Depth 3226 Chlorides 2300 ppm System LCM 1

Blow Description IF: fair blow, Built to 7.12"
ISI: no blow back
FF: fair blow, bob in 35 minutes, built to 13.85"
FBI: no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>GIP</u>	<u>100</u>			
<u>45</u>	<u>GOCM</u>	<u>10</u>	<u>5</u>		<u>85</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 45 BHT 109 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1608 Test 1800 T-On Location 12:30
 (B) First Initial Flow 80 Jars _____ T-Started 14:06
 (C) First Final Flow 73 Safety Joint _____ T-Open 16:27
 (D) Initial Shut-In 164 Circ Sub _____ T-Pulled 19:20
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 21:18
 (F) Second Final Flow 77 Mileage 100 150 Comments Motel
 (G) Final Shut-In 232 Sampler _____
 (H) Final Hydrostatic 1500 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility 1950 Total 1950
 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative _____

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.

Richie - 785 65 09628



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69511

Well Name & No. S4D Unit Test No. 2 Date 8-28-22
 Company Msi Oil Operations Inc Elevation 1838 KB 1828 GL
 Address 8411 Preston Rd STE 800 Dallas TX 75225
 Co. Rep / Geo. Jim Musgrove Rig Southwind 1
 Location: Sec. 36 Twp 15S Rge. 12W Co. Russell State KS

Interval Tested 3252-3330 Zone Tested Arbuckle
 Anchor Length 78' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 3247 Drill Collars Run _____ Vis 45
 Bottom Packer Depth 3252 Wt. Pipe Run _____ WL 5.34
 Total Depth 3330 Chlorides _____ ppm System LCM 1

Blow Description IF: Strong blow, BOB in 3 minutes, built to 173"
IST: No Blow back
FE: Strong blow, BOB in 2 minutes, built to 133
FST: No Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
<u>1575</u>	<u>W</u>			<u>100</u>	
____	____				
____	____				
____	____				

Rec Total 1890 BHT 114 Gravity N/C API RW .34 @ 96 °F Chlorides 13000 ppm

(A) Initial Hydrostatic 1639 Test 1800 T-Location 10:00
 (B) First Initial Flow 161 Jars _____ T-Started 11:11
 (C) First Final Flow 569 Safety Joint _____ T-Open 12:54
 (D) Initial Shut-In 1116 Circ Sub _____ T-Pulled 15:22
 (E) Second Initial Flow 584 Hourly Standby _____ T-Out 17:33
 (F) Second Final Flow 927 Mileage (100) 150 Comments note 1
 (G) Final Shut-In 1105 Sampler _____
 (H) Final Hydrostatic 1614 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copias _____
 Day Standby _____ Sub Total _____
 Accessibility _____ Sub Total 1950 Total 1950
 Sub Total _____ MP/DST Disc't _____

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



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: 8/23/2022
 Invoice # 2949

P.O.#:

Due Date: 9/22/2022

Division: Russell

Invoice

Contact:

Mai Oil Operations

Address/Job Location:

8411 Preston Rd. Ste 800
 Dallas TX 75225-5520

Reference:

S D UNIT 1 SEC 36-15-12

Description of Work:

LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 869.52	No				
Common-Class A	210	\$ 4,216.02	Yes				
POZ Mix-Standard	140	\$ 955.08	Yes				
Calcium Chloride	15	\$ 818.64	Yes				
Bulk Truck Matl-Material Service Charge	371	\$ 361.57	No				
Premium Gel (Bentonite)	6	\$ 169.58	Yes				
8 5/8" Top Rubber Plug	1	\$ 118.90	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 109.64	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 85.28	No				

SubTotal: \$ 7,704.22

Invoice Terms:

Net 30

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (192.61)

SubTotal for Taxable Items: \$ 6,121.26

SubTotal for Non-Taxable Items: \$ 1,390.35

Total: \$ 7,511.61

Tax: \$ 520.31

8.50% Russell County Sales Tax

Amount Due: \$ 8,031.92

Applied Payments:

Balance Due: \$ 8,031.92

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.

©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 2949

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

Date	8-23-22	Sec.	36	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	3:00 PM
Location													Dubuque - 1W, 1N, 1 1/4 E to		

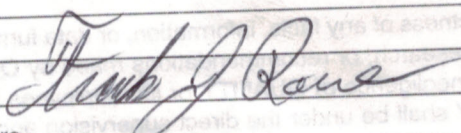
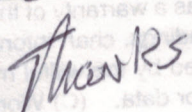
Lease	S+D unit		Well No.	1	Owner	Ked Gates, S/into									
Contractor	Southwind #1				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	Surface				Charge To	Main oil operations									
Hole Size	12 1/4"		T.D.	695'	Street										
Csg.	8 5/8"		Depth	695'	City	State									
Tbg. Size			Depth		The above was done to satisfaction and supervision of owner agent or contractor.										
Tool			Depth		Cement Amount Ordered	350 60/40 4%LL 2%Gel									
Cement Left in Csg.	30'		Shoe Joint	30'											
Meas Line			Displace	42 1/4 BLS											

EQUIPMENT

Pumptrk	18	No.	Cement Helper	Jordan	Common	210
Bulktrk	13	No.	Driver	Tim	Poz. Mix	140
Bulktrk	pm.	No.	Driver	Rick	Gel.	6
			Driver		Calcium	13

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate					
Rat Hole						
Mouse Hole						
Centralizers	Mud CLR 48					
Baskets	CFL-117 or CD110 CAF 38					
D/V or Port Collar	Sand					
	Handling 371					
	Mileage					
	FLAT EQUIPMENT					
	Guide Shoe Rubber Plug					
	Centralizer					
	Baskets					
	AFU Inserts					
	Float Shoe					
	Latch Down					

Pumptrk Charge	25 25 See Long Surface Job					
Mileage	25					
Signature						Tax Discount Total Charge
						



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: 8/29/2022
Invoice # 2388
P.O.#:
Due Date: 9/28/2022
Division: Russell

Invoice

Contact:
 Mai Oil Operations
Address/Job Location:

8411 Preston Rd. Ste 800
 Dallas TX 75225-5520

Reference:
 S & D UNIT 1 SEC 36-15-12

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 869.52	Yes				
Common-Class A	123	\$ 2,469.38	Yes				
POZ Mix-Standard	82	\$ 559.41	Yes				
Bulk Truck Matl-Material Service Charge	212	\$ 206.61	Yes				
Premium Gel (Bentonite)	7	\$ 197.84	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 109.64	Yes				
Flo Seal	50	\$ 97.46	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 85.28	Yes				
Dry Hole Plug	1	\$ 81.86	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,676.99
	Discount Available <i>ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$	(116.92)
<hr/>			
	SubTotal for Taxable Items:	\$	4,560.07
	SubTotal for Non-Taxable Items:	\$	-
<hr/>			
	Total:	\$	4,560.07
	Tax:	\$	387.61
<hr/>			
	Amount Due:	\$	4,947.68
	Applied Payments:		
	Balance Due:	\$	4,947.68

8.50% Russell County Sales Tax

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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2388

Cell 785-324-1041

Date	8-29-22	Sec.	36	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	
Lease	54D unit							Location	Dubuque - 1/2w, IN, IE to						
Contractor	Southwind #1							Well No.	#1						
Type Job	plug							Owner	Double red gates, 5 1/2 in to						
Hole Size	7 7/8"							T.D.	3330'						
Csg.								Depth							
Tbg. Size	4 1/2" D.P.							Depth	3294'						
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace	H2O/mud						
EQUIPMENT								Common	123						
Pumptrk	17	No.	Cementer Helper David					Poz. Mix	82						
Bulktrk		No.	Driver Ross					Gel.	7						
Bulktrk	p.u.	No.	Driver Rick					Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole	30 SX							Flowseal	50#						
Mouse Hole	15 SX							Kol-Seal							
Centralizers	=							Mud CLR 48							
Baskets	50 sx @ 3294'							CFL-117 or CD110 CAF 38							
D/V or Port Collar	50 sx @ 725'							Sand							
	50 sx @ 425'							Handling	2/2						
	10 sx w/plug @ 40'							Mileage							

FLOAT EQUIPMENT

Cement did Circulate	Guide Shoe	Dry hole plug
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Pumptrk Charge	plug	Tax	
Mileage	25	Discount	
Signature		Total Charge	

Frank J. Rowe
Signature

Thanks