

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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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.
Christiansen #1
SW-NW-NW (725' FSL & 503' FEL)
Section 18-21s-12w
Stafford County, Kansas

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5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)

Commenced: September 25, 2018

Completed: October 2, 2018

Elevation: 1867' K.B., 1865' D.F., 1859' G.L.

Casing program: Surface; 8 5/8" @ 655'
Production, 5 1/2" @ 3674'

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

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

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were five (5) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Eli; Dual Induction; Compensated Density/Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	701	+1166
Base Anhydrite	722	+1145
Heebner	3133	-1266
Toronto	3152	-1285
Douglas	3167	-1300
Brown Lime	3260	-1393
Lansing	3277	-1410
Base Kansas City	3488	-1621
Conglomerate	3496	-1629
Simpson Shale	3570	-1643
Arbuckle	3541	-1674
Rotary Total Depth	3675	-1808
Log Total Depth	3677	-1810

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

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

TOPEKA SECTION

3038-3066' Limestone, gray, tan, fossiliferous, sub-oomoldic, chalky, few granular, trace tan and gray cherts, no shows.

TORONTO SECTION

3152-3160' Limestone, white, cream, finely crystalline, chalky; plus white boney chert.

LANSING SECTION

3276-3286' Limestone, tan; finely crystalline, few with fine inter-crystalline and pinpoint type porosity; questionable stain, no show of free oil and no odor in fresh samples.

3295-3305' Limestone, tan, finely crystalline, slightly fossiliferous, cherty, trace brown stain, trace of free oil and faint odor in fresh samples.

3311-3321' Limestone, gray, tan, slightly fossiliferous, poor visible porosity, no shows.

3334-3340' Limestone, gray, oolitic (dense).

3346-3350' Limestone, gray fossiliferous/oolitic, scattered porosity, brown and dark brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 **3286-3348**
(Log Measurements 3288-3350)

Times: 30-30-30-30

Blow: Weak

Recovery: 10' mud, with oil specks

Pressures: ISIP 759 psi
 FSIP 613 psi
 IFP 12-13 psi
 FFP 13-15 psi
 HSH 1535-1592 psi

3356-3366' Limestone, tan, mottled, fossiliferous, poor pinpoint type porosity, dense, no shows.

3370-3390' Limestone, tan, cream, finely crystalline, poor visible porosity, dense, no shows.

3370-3390' Limestone, tan; buff finely crystalline, few fossiliferous, cherty; poor visible porosity, no shows.

3400-3410' Limestone, tan, oomoldic, chalky, poor to fair porosity, trace brown to dark brown stain, show of free oil and fair odor in fresh samples.

3414-3420' Limestone, tan, buff; finely crystalline, fossiliferous, poor pinpoint type porosity; trace black stain, trace of free oil and faint odor in fresh samples.

3430-3440' Limestone, cream, tan, finely crystalline, granular, chalky, fair porosity; trace brown stain; no show of free oil and no odor in fresh samples.

3456-3460' Limestone, white, cream, scattered vuggy type porosity; trace brown stain, show of free oil and no odor in fresh samples.

Drill Stem Test #2

3379-3500

Log Measurements 3381-3502)

Times: 30-30-30-30

Blow: Strong

**Recovery: 1039' gas in pipe
17' oil and gas cut mud
(2% gas; 33% oil; 28% mud)
63' oil and gas cut mud
(40% gas; 32% oil; 28% mud)**

**Pressures: ISIP 559 psi
FSIP 626 psi
IFP 19-31 psi
FFP 34-45 psi
HSH 1597-1621 psi**

CONGLOMERATE SECTION

3497-3512' Varied colored shale; banded; trace sand; clear, medium grained; sub-rounded, trace brown stain, trace tan and orange cherts.

SIMPSON SECTION

3515-3520' Sand; gray; white, very fined grained, sub-rounded, sub-angular, poorly sorted, no shows.

ARBUCKLE SECTION

3540-3550' Dolomite, tan, medium and coarse crystalline, fair vuggy type porosity; brown stain, show of free oil and strong odor in fresh samples.

3550-3560' Dolomite, as above

Drill Stem Test #3

3470-3558

(Log Measurement 3472-3560)

Times: 30-30-30-30

Blow: Strong

**Recovery: 1827' gas in pipe
693' clean oil
10' oil and gas cut mud
(53% gas; 32% oil; 15% mud)
63' heavily oil and gas cut mud to muddy oil
(35% gas; 36% oil; 5% mud)
63' oil and gas cut mud
(73% gas; 24% oil; 3% mud)**

**Pressures: ISIP 831 psi
FSIP 782 psi
IFP 47-183 psi
FFP 190-298 psi
HSH 1700-1687 psi**

- 3560-3570' Dolomite, tan, brown, coarse crystalline, good inter-crystalline, and vuggy type porosity; dark brown stain, show of free oil and strong odor in fresh samples.
- 3570-3585' Dolomite, tan brown, medium crystalline, good inter-crystalline porosity, brown/golden brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #4 **3559-3583**
(Log Measurements 3561-3585)

Times: 30-30-45-45

Blow: Fair

Recovery: 189' gas in pipe
282' water cut mud with oil specks

Pressures:

ISIP	889	psi
FSIP	875	psi
IFP	15-75	psi
FFP	78-133	psi
HSH	1738-1721	psi

- 3586-3603' Shale; green; soft, dolomitic; plus trace sand; clear, medium grained; sub-rounded, trace brown stain, show of free oil.
- 3603-3605' Dolomite, white, medium to coarse crystalline, good inter-crystalline porosity; brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #5 **3586-3603**
(Log Measurements 3588-3605)

Times: 30-30-45-45

Blow: Weak

Recovery: 40' mud cut water, oil specks

Pressures:

ISIP	114	psi
FSIP	124	psi
IFP	12-18	psi
FFP	23-25	psi
HSH	1747-1707	psi

- 3605-3620' Dolomite, tan, medium crystalline, good inter-crystalline porosity; dark brown stain, show of free oi and strong odor in fresh samples.
- 3620-3640' Dolomite, tan, fine and medium crystalline, poor porosity to scattered pinpoint porosity, chalky luster; no shows, plus, white and cream cherts.

Mai Oil Operations Inc.
Christiansen #1
SW-NW-NW (725' FSL & 503' FEL)
Section 18-21s-12w
Stafford County, Kansas

Page 5

3640-3600' Dolomite, tan, buff, finely crystalline, poor scattered pinpoint porosity and poor inter-crystalline porosity; dark black stain, show of free oil (heavy, black, tarry) few black flaky. Dead.

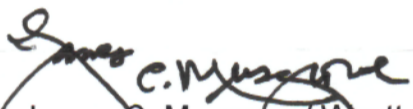

3660-3677' Dolomite, white, cream, finely crystalline, cherty; poor porosity; dense.

Rotary Total Depth 3675 (-1808)
Log Total Depth 3677 (-1810)

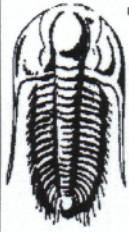
Recommendations:

5 ½" production casing was set and cemented on the Mai Oil Operations, Inc., Christiansen #1.

Respectfully yours,


James C. Musgrove/ Wyatt Urban
Petroleum Geologists






**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

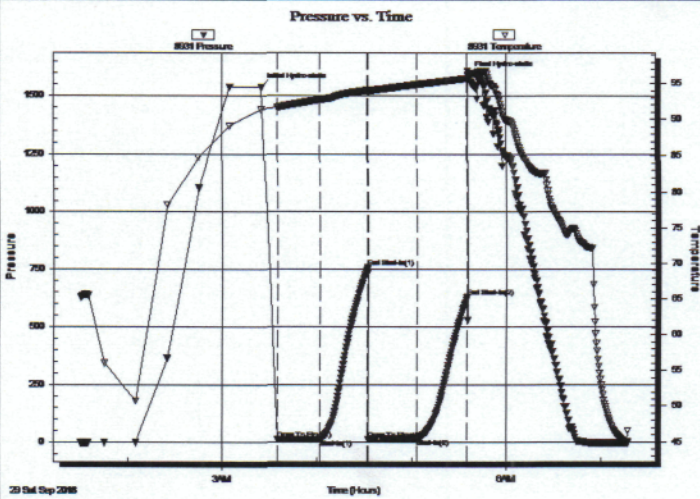
18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64709 **DST#: 1**
Test Start: 2018.09.29 @ 01:29:58

GENERAL INFORMATION:

Formation: **LKC " B-F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:34:58
Time Test Ended: 07:17:28
Interval: **3286.00 ft (KB) To 3348.00 ft (KB) (TVD)**
Total Depth: 3348.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 1868.00 ft (KB)
1860.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8931 **Inside**
Press@RunDepth: 14.89 psig @ 3287.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.09.29 End Date: 2018.09.29 Last Calib.: 2018.09.29
Start Time: 01:30:03 End Time: 07:17:27 Time On Btm: 2018.09.29 @ 03:24:58
Time Off Btm: 2018.09.29 @ 05:35:58

TEST COMMENT: IF: Weak blow . Built to 1", Decreased to 1/2".
IS: No blow .
FF: Weak blow . Surface to 1/2".
FSI: No blow .



PRESSURE SUMMARY

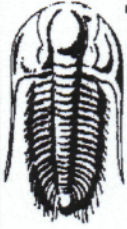
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.14	91.36	Initial Hydro-static
10	12.02	91.63	Open To Flow (1)
37	12.89	92.70	Shut-In(1)
67	759.35	94.01	End Shut-In(1)
68	13.34	93.78	Open To Flow (2)
98	14.89	94.83	Shut-In(2)
130	631.06	95.71	End Shut-In(2)
131	1592.09	96.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w oil specks 100% mud	0.14

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 STE 800
Dallas, TX. 75225
ATTN: Jim Musgrove

18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64709 **DST#: 1**
Test Start: 2018.09.29 @ 01:29:58

Tool Information

Drill Pipe:	Length: 3288.00 ft	Diameter: 3.80 inches	Volume: 46.12 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 46.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3286.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Packer	4.00			3281.00	20.00 Bottom Of Top Packer
Packer	5.00			3286.00	
Stubb	1.00			3287.00	
Recorder	0.00	8931	Inside	3287.00	
Recorder	0.00	8792	Outside	3287.00	
Perforations	5.00			3292.00	
Change Over Sub	1.00			3293.00	
Blank Spacing	31.00			3324.00	
Change Over Sub	1.00			3325.00	
Perforations	20.00			3345.00	
Bullnose	3.00			3348.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

18-21s-12w Stafford,KS

8411 Preston RD STE 800
Dallas, TX. 75225

Christiansen #1

Job Ticket: 64709

DST#: 1

ATTN: Jim Musgrove

Test Start: 2018.09.29 @ 01:29:58

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:

4400 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w oil specks 100% mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Vis w as 60 +.

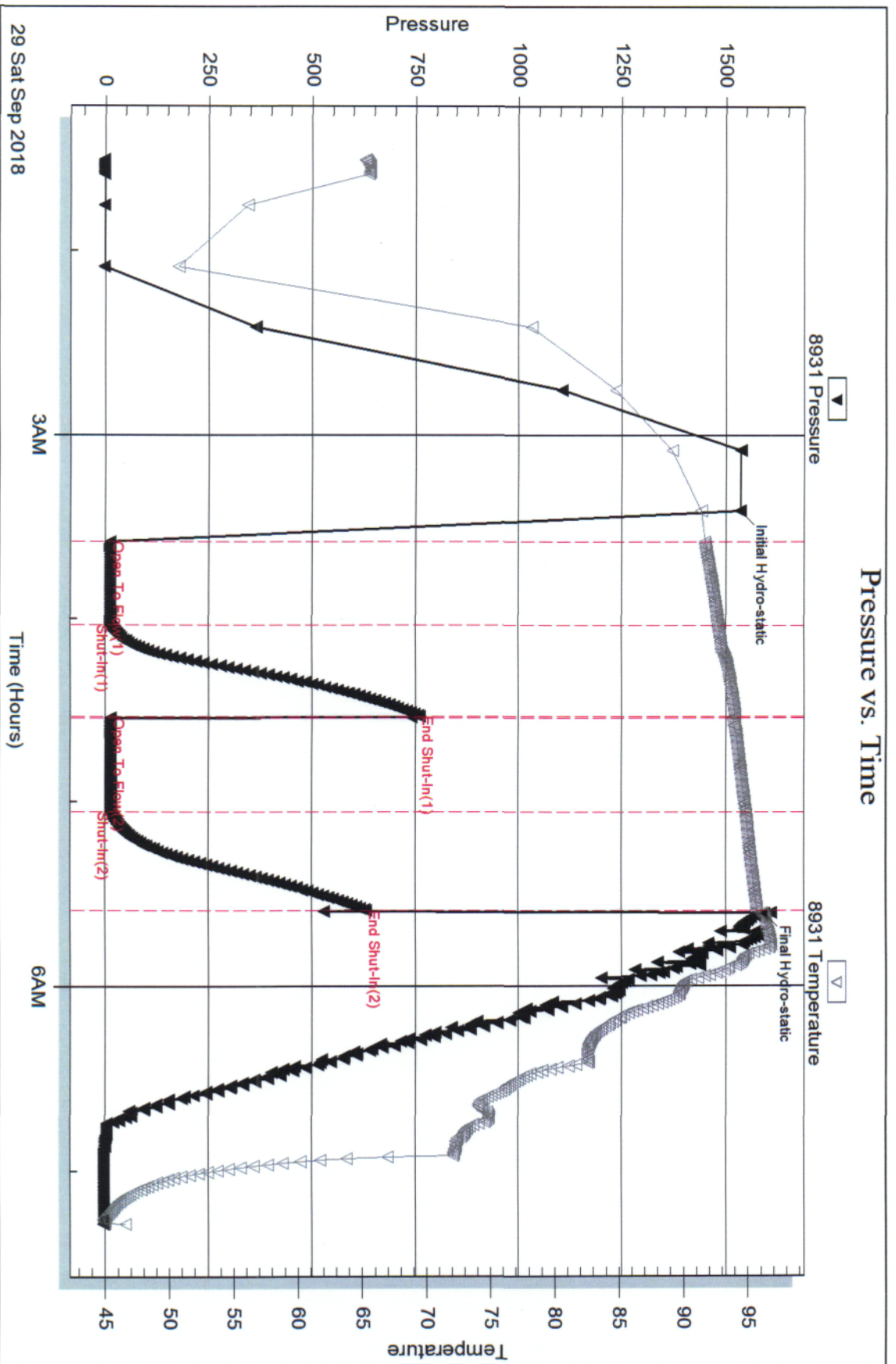
Serial #: 8931

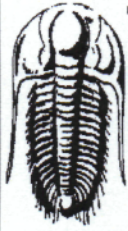
Inside

Mai Oil Operations Inc

Christiansen #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-21s-12w Stafford,KS
Christiansen #1
 Job Ticket: 64710 **DST#: 2**
 Test Start: 2018.09.29 @ 22:13:21

GENERAL INFORMATION:

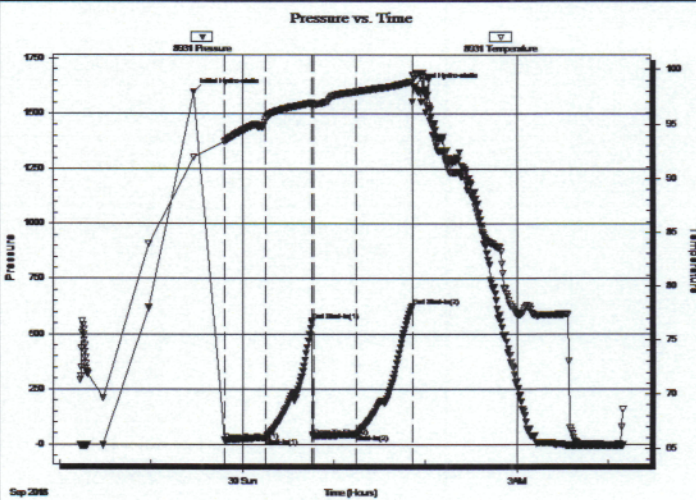
Formation: **Lower Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:48:21
 Time Test Ended: 04:09:36
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Interval: **3379.00 ft (KB) To 3500.00 ft (KB) (TVD)**
 Total Depth: 33500.00 ft (KB) (TVD)
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 45.35 psig @ 3380.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.29 End Date: 2018.09.30 Last Calib.: 2018.09.30
 Start Time: 22:13:26 End Time: 04:09:35 Time On Btm: 2018.09.29 @ 23:28:21
 Time Off Btm: 2018.09.30 @ 01:52:21

TEST COMMENT: IF: Strong blow . B.O.B. in 7 mins. Built to 33 1/2".
 IS: Weak blow . Built to 4"@ 24 mins in. Built to 4", decreased to 2".
 FF: Strong blow . B.O.B. immediate. Built to 40".
 FSI: Weak blow . Built to 3".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.81	91.94	Initial Hydro-static
20	18.90	93.34	Open To Flow (1)
48	30.94	95.37	Shut-In(1)
78	559.27	96.90	End Shut-In(1)
79	33.83	96.79	Open To Flow (2)
107	45.35	97.93	Shut-In(2)
143	626.10	98.89	End Shut-In(2)
144	1621.38	99.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VGHMCO 40%g 32%o 28%m	0.88
17.00	GOCM 65%m 33%o 2%g	0.24
0.00	1039' G.I.P. 100% g	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
8411 Preston RD STE 800
Dallas, TX. 75225
ATTN: Jim Musgrove

18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64710 **DST#: 2**
Test Start: 2018.09.29 @ 22:13:21

Tool Information

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.80 inches	Volume: 47.43 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: 27000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3379.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	121.00 ft			
Tool Length:	141.00 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			3360.00	
Shut In Tool	5.00			3365.00	
Hydraulic tool	5.00			3370.00	
Packer	4.00			3374.00	20.00 Bottom Of Top Packer
Packer	5.00			3379.00	
Stubb	1.00			3380.00	
Recorder	0.00	8931	Inside	3380.00	
Recorder	0.00	8792	Outside	3380.00	
Perforations	5.00			3385.00	
Change Over Sub	1.00			3386.00	
Blank Spacing	95.00			3481.00	
Change Over Sub	1.00			3482.00	
Perforations	15.00			3497.00	
Bullnose	3.00			3500.00	121.00 Bottom Packers & Anchor

Total Tool Length: 141.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

18-21s-12w Stafford,KS

8411 Preston RD STE 800
Dallas, TX. 75225

Christiansen #1

Job Ticket: 64710

DST#: 2

ATTN: Jim Musgrove

Test Start: 2018.09.29 @ 22:13:21

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:

6900 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	VGHMCO 40%g 32%o 28%m	0.884
17.00	GOCM 65%m 33%o 2%g	0.238
0.00	1039' G.I.P. 100% g	0.000

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

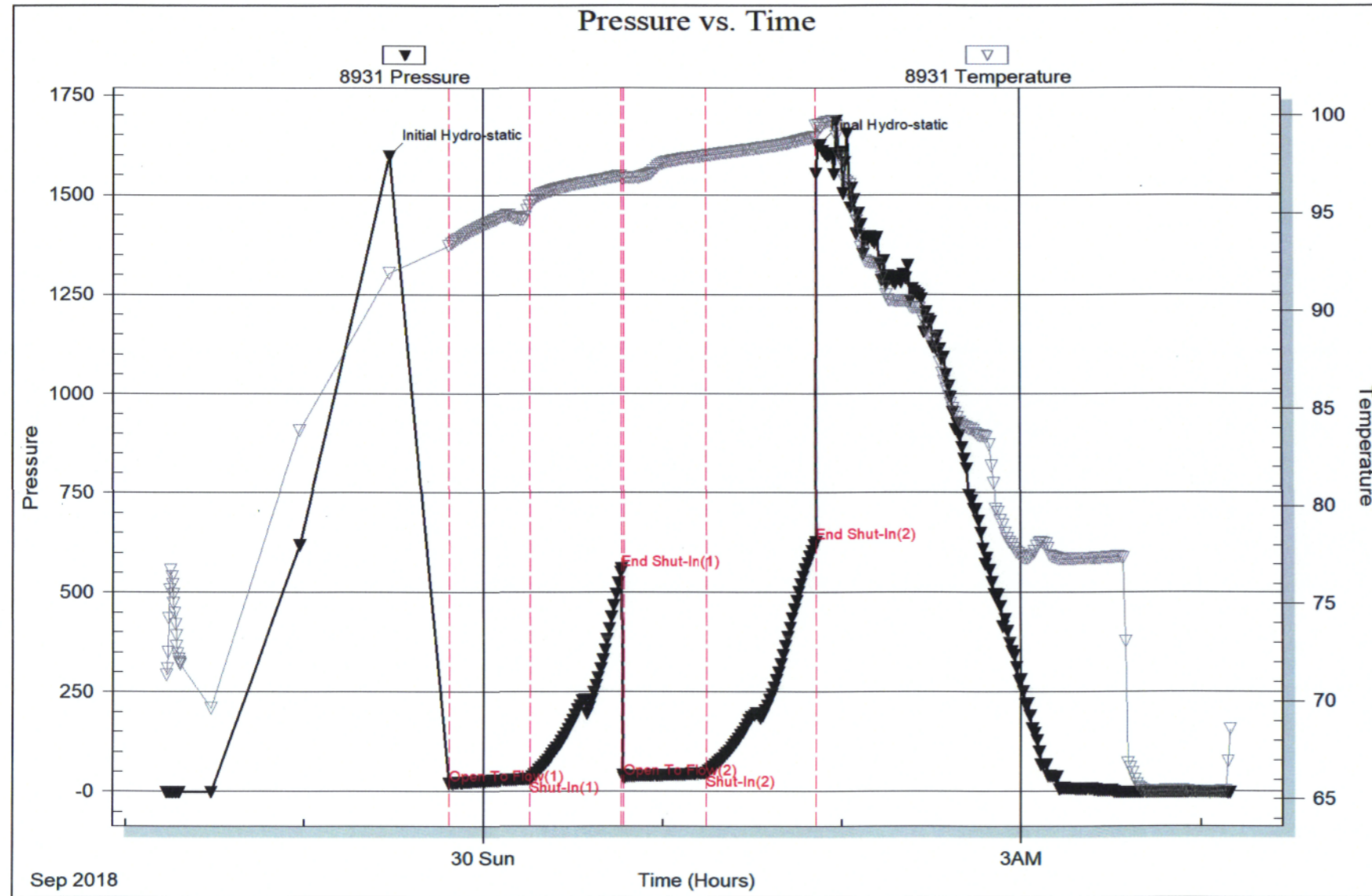
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-21s-12w Stafford,KS
Christiansen #1
 Job Ticket: 64711 **DST#: 3**
 Test Start: 2018.09.30 @ 12:45:57

GENERAL INFORMATION:

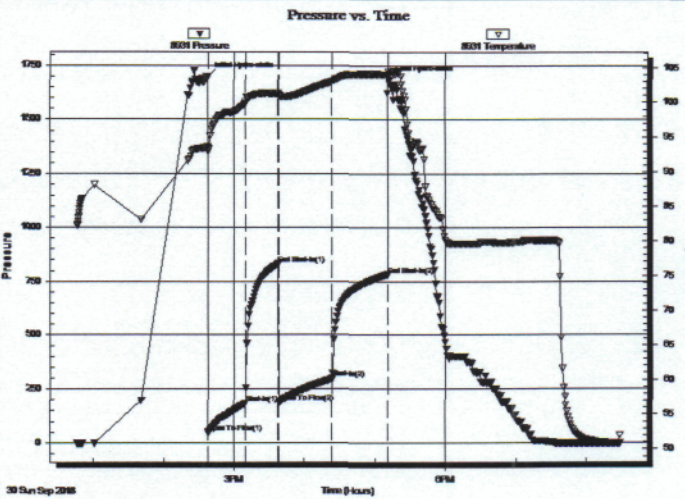
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:38:12
 Time Test Ended: 20:29:27
 Interval: **3470.00 ft (KB) To 3558.00 ft (KB) (TVD)**
 Total Depth: 3558.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 297.90 psig @ 3471.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.30 End Date: 2018.09.30 Last Calib.: 2018.09.30
 Start Time: 12:46:02 End Time: 20:29:26 Time On Btm: 2018.09.30 @ 14:37:42
 Time Off Btm: 2018.09.30 @ 17:11:27

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins. Built to 91 1/4".
 IS: Weak blow .18 mins in Built to 3 1/2".
 FF: Strong blow . B.O.B. in 3 mins. Built to 75 1/2".
 FSI: Weak blow . 16 mins in Built to 3 3/4".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.12	93.60	Initial Hydro-static
1	46.82	93.23	Open To Flow (1)
32	182.87	99.69	Shut-In(1)
61	831.08	101.23	End Shut-In(1)
61	189.98	101.00	Open To Flow (2)
106	297.90	102.94	Shut-In(2)
153	781.84	103.97	End Shut-In(2)
154	1686.89	103.98	Final Hydro-static

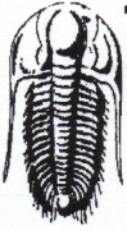
Recovery

Length (ft)	Description	Volume (bbl)
63.00	VGSMCO 73%g 24%o 3%m	0.88
63.00	VGMCO 60%o 35%g 5%m	0.88
693.00	Clean Oil 100%o	9.72
10.00	VGOCM 53%g 32%o 15%m	0.14
0.00	1827' G.I.P. 100%g	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
8411 Preston RD STE 800
Dallas, TX. 75225
ATTN: Jim Musgrove

18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64711 **DST#: 3**
Test Start: 2018.09.30 @ 12:45:57

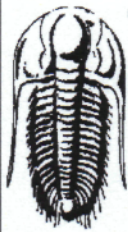
Tool Information

Drill Pipe:	Length: 3477.00 ft	Diameter: 3.80 inches	Volume: 48.77 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: 27000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 48.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3470.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	108.00 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			3451.00	
Shut In Tool	5.00			3456.00	
Hydraulic tool	5.00			3461.00	
Packer	4.00			3465.00	20.00 Bottom Of Top Packer
Packer	5.00			3470.00	
Stubb	1.00			3471.00	
Recorder	0.00	8931	Inside	3471.00	
Recorder	0.00	8792	Outside	3471.00	
Perforations	5.00			3476.00	
Change Over Sub	1.00			3477.00	
Blank Spacing	63.00			3540.00	
Change Over Sub	1.00			3541.00	
Perforations	14.00			3555.00	
Bullnose	3.00			3558.00	88.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

18-21s-12w Stafford,KS

8411 Preston RD STE 800
Dallas, TX. 75225

Christiansen #1

Job Ticket: 64711

DST#: 3

ATTN: Jim Musgrove

Test Start: 2018.09.30 @ 12:45:57

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:

7300 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	VGSMCO 73%g 24%o 3%m	0.884
63.00	VGSMCO 60%o 35%g 5%m	0.884
693.00	Clean Oil 100%o	9.721
10.00	VGOCM 53%g 32%o 15%m	0.140
0.00	1827' G.I.P. 100%g	0.000

Total Length: 829.00 ft Total Volume: 11.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: 1827' G.I.P.

Gravity w as 39 @ 60 degrees, no correction needed.

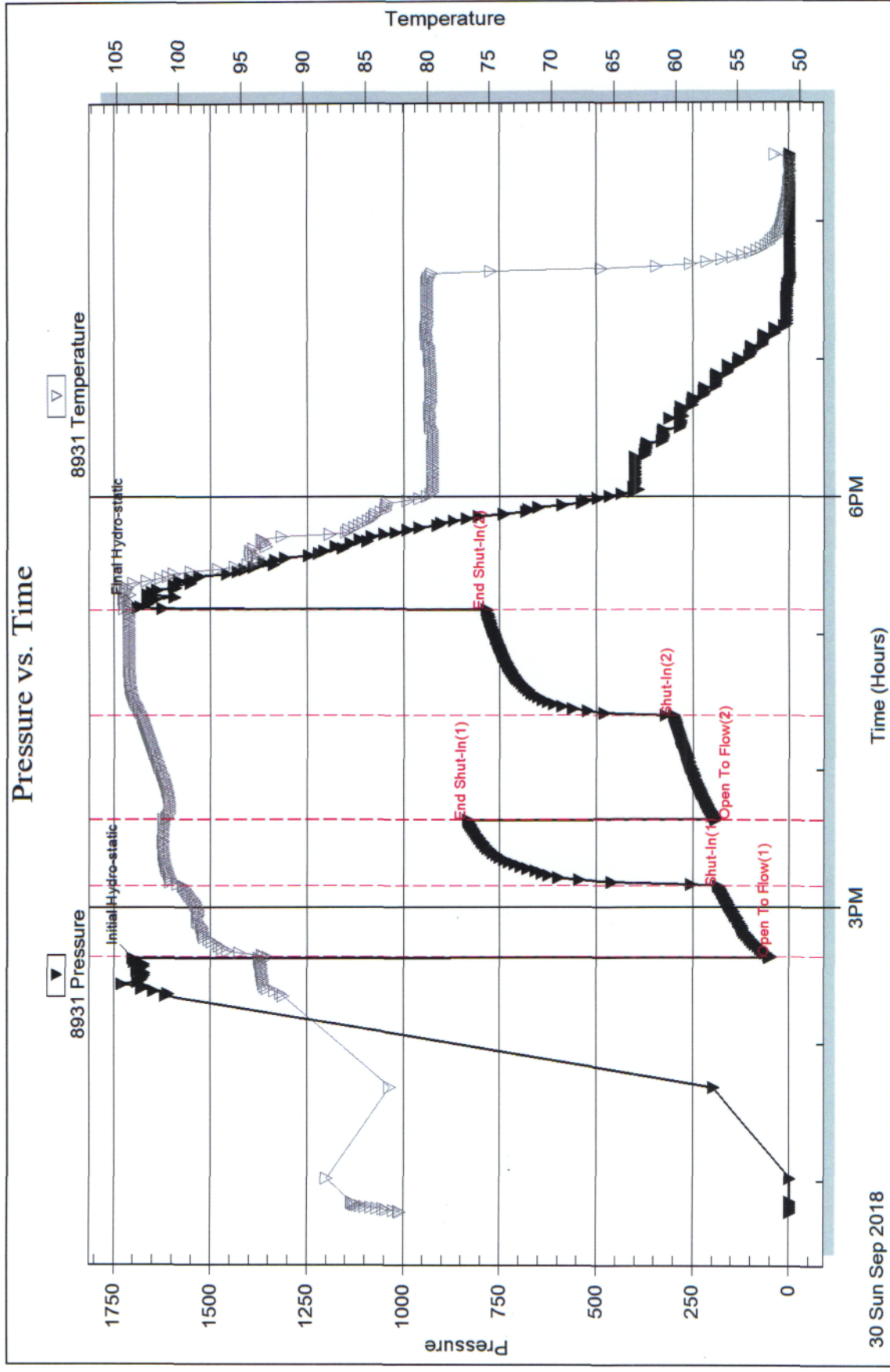
Serial #: 8931

Inside

Mai Oil Operations Inc

Christiansen #1

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-21s-12w Stafford,KS
Christiansen #1
 Job Ticket: 64712 **DST#: 4**
 Test Start: 2018.10.01 @ 03:05:55

GENERAL INFORMATION:

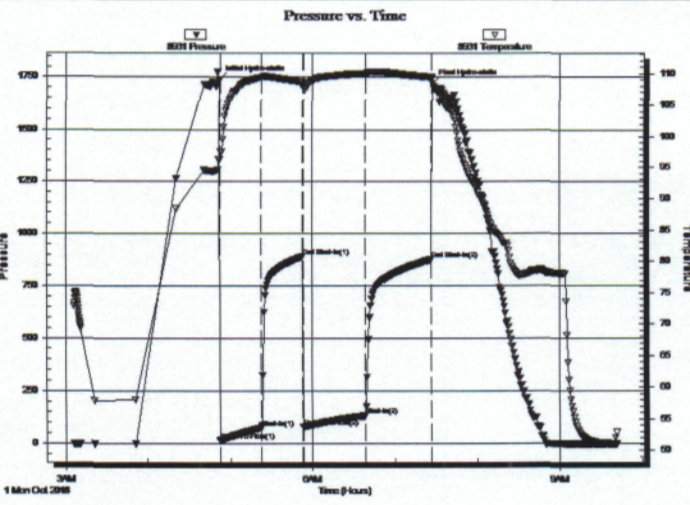
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:52:25
 Time Test Ended: 09:41:40
 Interval: **3564.00 ft (KB) To 3584.00 ft (KB) (TVD)**
 Total Depth: 3584.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 132.78 psig @ 3565.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.10.01 End Date: 2018.10.01 Last Calib.: 2018.10.01
 Start Time: 03:06:00 End Time: 09:41:39 Time On Btm: 2018.10.01 @ 04:51:55
 Time Off Btm: 2018.10.01 @ 07:26:55

TEST COMMENT: IF: Fair blow . Built to 11".
 IS: No blow .
 FF: Fair blow . Built to 8 1/2".
 FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.55	96.29	Initial Hydro-static
1	14.56	96.31	Open To Flow (1)
31	75.10	109.38	Shut-In(1)
61	889.01	108.64	End Shut-In(1)
62	78.08	107.61	Open To Flow (2)
107	132.78	110.00	Shut-In(2)
155	875.47	109.45	End Shut-In(2)
155	1721.12	109.33	Final Hydro-static

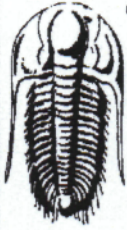
Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMV w / oil scum 77%w 18%m 5%g slt	0.88
63.00	SMCW 98%w 2%m oil specs	0.88
126.00	SMCW 95%w 5%m light oil	1.77
30.00	MV 75%w 25%m slight oil	0.42
0.00	189' G.I.P. 100% g	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
8411 Preston RD STE 800
Dallas, TX. 75225
ATTN: Jim Musgrove

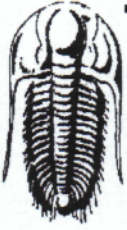
18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64712 **DST#: 4**
Test Start: 2018.10.01 @ 03:05:55

Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 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: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3564.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 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			3545.00	
Shut In Tool	5.00			3550.00	
Hydraulic tool	5.00			3555.00	
Packer	4.00			3559.00	20.00 Bottom Of Top Packer
Packer	5.00			3564.00	
Stubb	1.00			3565.00	
Recorder	0.00	8931	Inside	3565.00	
Recorder	0.00	8792	Outside	3565.00	
Perforations	15.00			3580.00	
Bullnose	3.00			3583.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

18-21s-12w Stafford,KS

8411 Preston RD STE 800
Dallas, TX. 75225

Christiansen #1

Job Ticket: 64712

DST#: 4

ATTN: Jim Musgrove

Test Start: 2018.10.01 @ 03:05:55

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 7300.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 40000 ppm

Recovery Information

Recovery Table

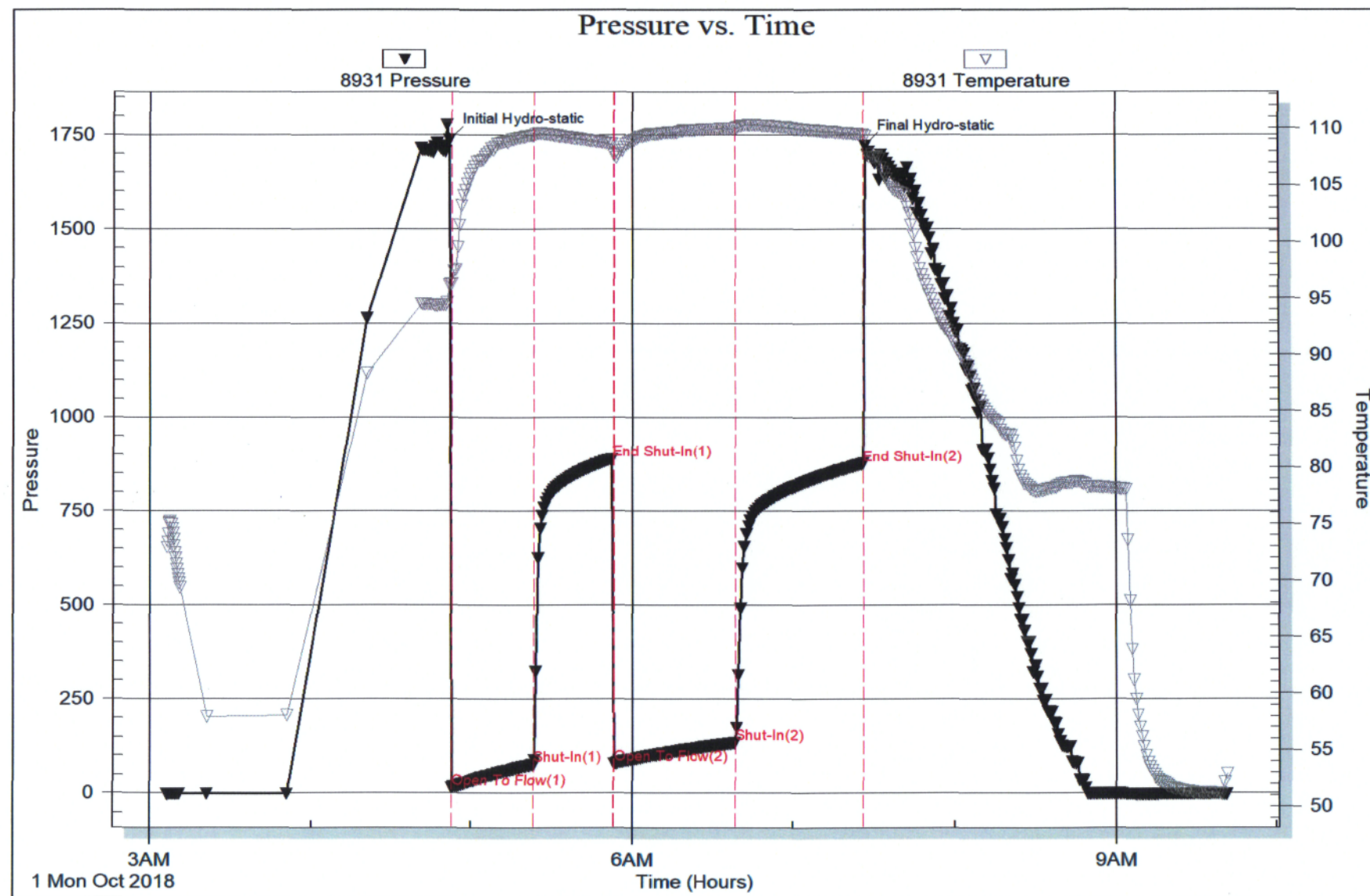
Length ft	Description	Volume bbl
63.00	GMW w / oil scum 77%w 18%m 5%g slight oil	0.884
63.00	SMCW 98%w 2%m oil specs	0.884
126.00	SMCW 95%w 5%m light oil	1.767
30.00	MW 75%w 25%m slight oil	0.421
0.00	189' G.I.P. 100% g	0.000

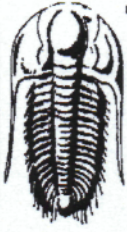
Total Length: 282.00 ft Total Volume: 3.956 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial#: none

Laboratory Name: Laboratory Location:

Recovery Comments: RW .22 @ 56 degrees = 40,000 chlorides.
189 ft of G.I.P.





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

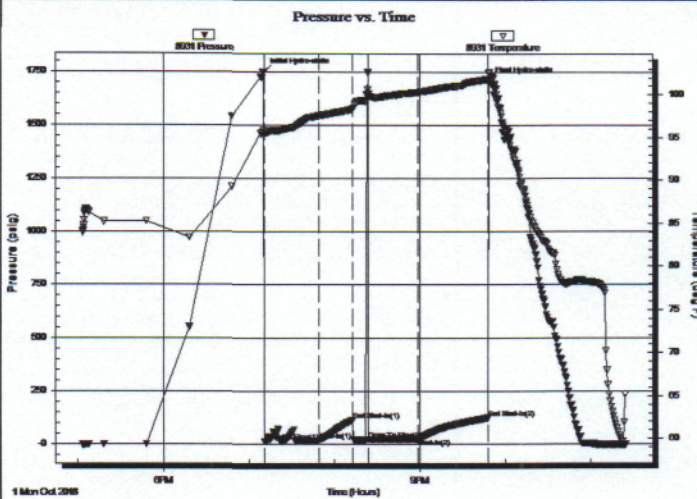
18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64713 **DST#: 5**
Test Start: 2018.10.01 @ 17:03:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:10:57
Time Test Ended: 23:24:12
Interval: **3586.00 ft (KB) To 3603.00 ft (KB) (TVD)**
Total Depth: 3603.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 1868.00 ft (KB)
1860.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8931 Inside
Press@RunDepth: 24.77 psig @ 3587.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.10.01 End Date: 2018.10.01 Last Calib.: 2018.10.01
Start Time: 17:03:17 End Time: 23:24:11 Time On Btm: 2018.10.01 @ 19:10:42
Time Off Btm: 2018.10.01 @ 21:48:12

TEST COMMENT: IF: Weak blow . Built to 1 1/2".
IS: No blow .
FF: Weak blow . Surface to 1/4". Flushed tool. Built to 1/2".
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.13	95.89	Initial Hydro-static
1	12.03	95.32	Open To Flow (1)
39	17.99	97.52	Shut-In(1)
62	114.04	98.29	End Shut-In(1)
74	23.23	100.10	Open To Flow (2)
108	24.77	100.28	Shut-In(2)
158	124.13	101.81	End Shut-In(2)
158	1707.04	102.49	Final Hydro-static

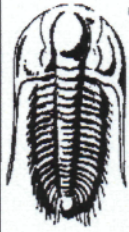
Recovery

Length (ft)	Description	Volume (bbl)
40.00	SWCM 99% m 1% w slight oil	0.56

* 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
8411 Preston RD STE 800
Dallas, TX. 75225
ATTN: Jim Musgrove

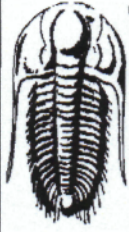
18-21s-12w Stafford,KS
Christiansen #1
Job Ticket: 64713 **DST#: 5**
Test Start: 2018.10.01 @ 17:03:12

Tool Information

Drill Pipe:	Length: 3571.00 ft	Diameter: 3.80 inches	Volume: 50.09 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: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3586.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	4.00			3581.00	20.00 Bottom Of Top Packer
Packer	5.00			3586.00	
Stubb	1.00			3587.00	
Recorder	0.00	8931	Inside	3587.00	
Recorder	0.00	8792	Outside	3587.00	
Perforations	13.00			3600.00	
Bullnose	3.00			3603.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

18-21s-12w Stafford,KS

8411 Preston RD STE 800
Dallas, TX. 75225

Christiansen #1

Job Ticket: 64713

DST#: 5

ATTN: Jim Musgrove

Test Start: 2018.10.01 @ 17:03:12

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.58 in³
Resistivity: ohm.m
Salinity: 7400.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 7400 ppm

Recovery Information

Recovery Table

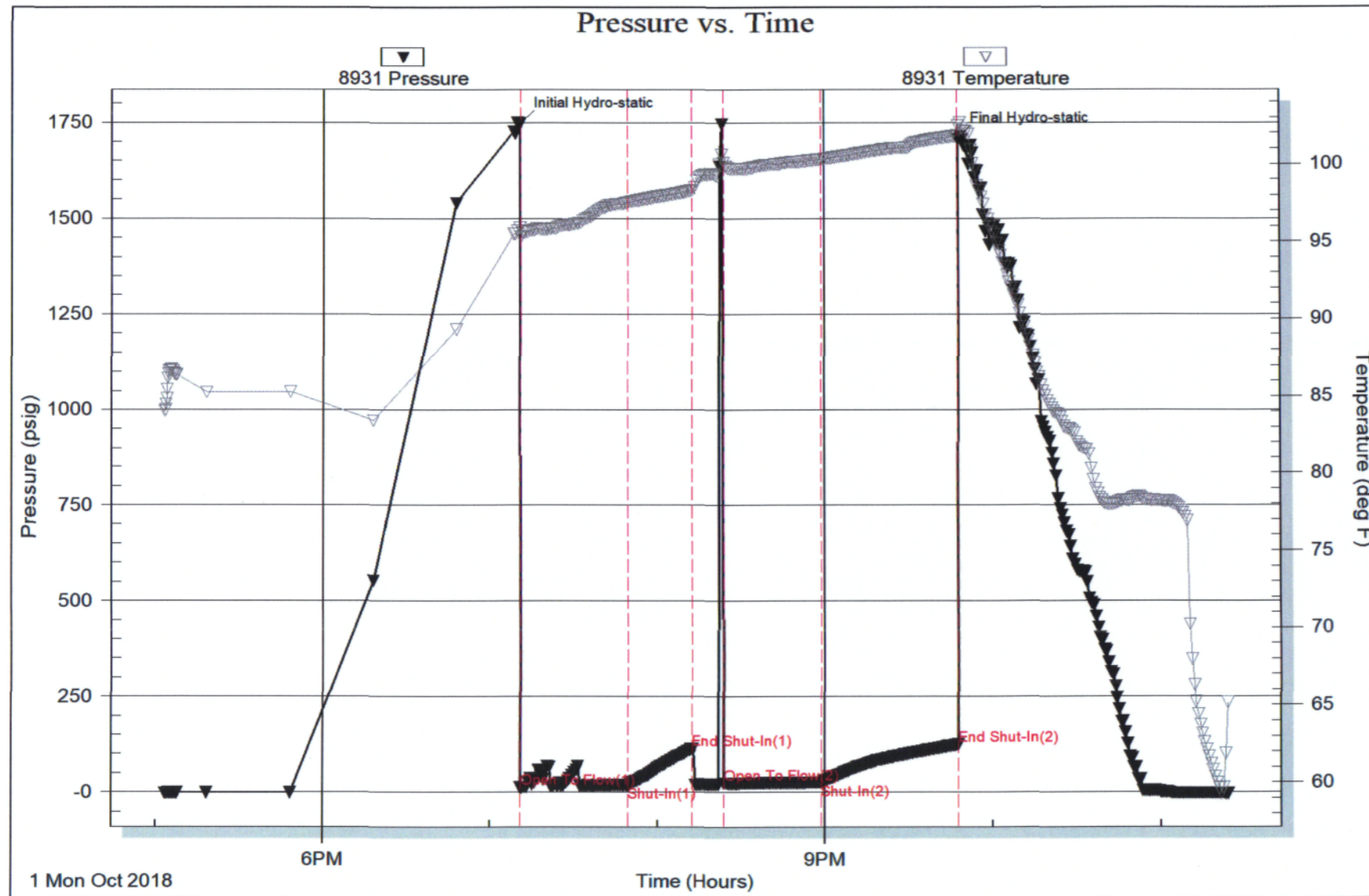
Length ft	Description	Volume bbl
40.00	SWCM 99% m 1% w slight oil	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1108

Date	9-26-18	Sec.	18	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	12:35 AM
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	----------

Location Great Bend - 95 to 190th Rd, 3E, 1/4 S

Lease	Christiansen	Well No.	1	Owner	F/Inte
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	Maioil operations
Hole Size	12 1/4"	T.D.	655'	Street	
Csg.	8 5/8"	Depth	655'	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	25'	Shoe Joint	25'	Cement Amount Ordered	450 60/40 4 1/2 CC 2 1/2 Gal
Meas Line		Displace	40 BLS	1/2 # flo-seal	

EQUIPMENT

Pumptrk	16	No.	Cementer	David	Common
			Helper		
Bulktrk	19	No.	Driver	Doug	Poz. Mix
			Driver		
Bulktrk	P.A.	No.	Driver	Rick	Gel.
			Driver		
					Calcium

JOB SERVICES & REMARKS

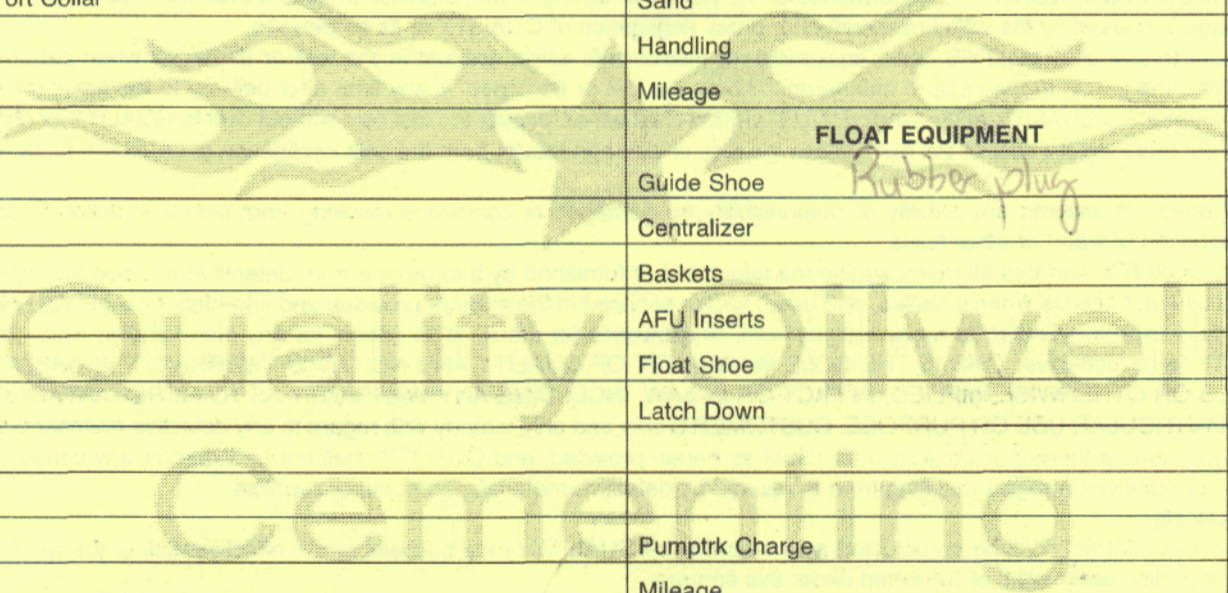
Remarks:	Cement did Circulate	Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling
		Mileage

FLOAT EQUIPMENT

	Guide Shoe	Rubber plug
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	
	Pumptrk Charge	
	Mileage	

	Tax
	Discount
	Total Charge

X Signature Joy Brun



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1114

Date	10-2-18	Sec.	18	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	7:15 PM
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Location *Great Bend - S to C.L., 25 to field*

Lease	<i>Christiansen</i>	Well No.	1	Owner	<i>NE 1/4, E1/4</i>
Contractor	<i>Southwind</i>	#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	<i>Long string</i>			Charge To	<i>ma. oil operations</i>
Hole Size	<i>7 7/8"</i>	T.D.	<i>3675'</i>	Street	
Csg.	<i>New 5 1/2" 14'</i>	Depth	<i>3672'</i>	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<i>22'</i>	Shoe Joint	<i>22'</i>	Cement Amount Ordered	<i>160 60/40 10% Salt 2% Gel 1/4"</i>
Meas Line		Displace	<i>89 BLS</i>	<i>Flowseal - 1000 gal mud Clear 48</i>	

EQUIPMENT

Pumptrk	16	No.		Cementer Helper	<i>David</i>	Common
Bulktrk	3	No.		Driver	<i>Fay</i>	Poz. Mix
Bulktrk	<i>P.M.</i>	No.		Driver	<i>Rick</i>	Gel.
				Driver		Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers	<i>1-3, 5-10, 14</i>	Kol-Seal
Baskets	<i>pipe on bottom, break circulation</i>	Mud CLR 48
D/V or Port Collar	<i>pump 1000 gal mud Clear 48</i>	CFL-117 or CD110 CAF 38
	<i>plug bottom w/ 30' sk. Hook to 5 1/2"</i>	Sand
	<i>Casing + mix 135' cement</i>	Handling
	<i>Shut down with pump + lines</i>	Mileage

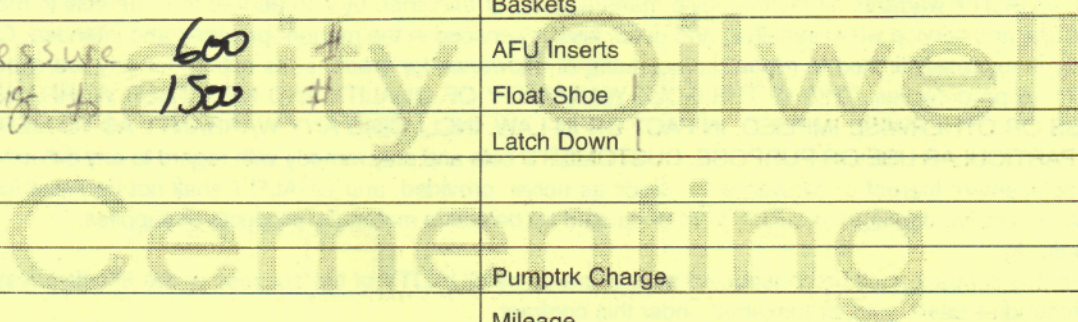
FLOAT EQUIPMENT

	<i>Displaced plug w/ 89 BLS.</i>	Guide Shoe
	<i>Released + hold.</i>	Centralizer 10
		Baskets
	<i>Lift pressure 600 #</i>	AFU Inserts
	<i>Load plug to 1500 #</i>	Float Shoe
		Latch Down 1

		Pumptrk Charge
		Mileage

		Tax
		Discount
		Total Charge

X Signature *John D. White*





Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Phone: 316-337-6200
Fax: 346-337-6211
<http://kcc.ks.gov/>

Dwight D. Keen, Chair
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Laura Kelly, Governor

January 28, 2019

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO-1
API 15-185-24032-00-00
CHRISTIANSEN 1
NW/4 Sec.18-21S-12W
Stafford County, Kansas

Dear Allen Bangert:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/25/2018 and the ACO-1 was received on January 28, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department