

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 Recompletion Date _____ 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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JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
D&D Unit #1
W/2-NW-NW-SW (2310' FSL & 252' FWL)
Section 16-20s-22w
Ness County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: May 16, 2017
Completed: May 23, 2017
Elevation: 2217' K.B., 2215' D.F., 2209' G.L.
Casing program: Surface; 8 5/8" @ 263'
Production, 5 1/2" @ 4449'
Sample: Samples saved and examined 3500' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 3500' 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: By Eli Wireline Services, Dual Induction, Compensated Density/Neutron and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1436	+781
Base Anhydrite	1473	+744
Heebner	3705	-1488
Toronto	3719	-1502
Lansing	3754	-1537
Stark	4010	-1793
Base Kansas City	4078	-1861
Marmaton	4121	-1904
Pawnee	4201	-1984
Ft Scott	4274	-2057
Cherokee Shale	4295	-2078
Mississippian "Osage"	4356	-2139
Rotary Total Depth	4450	-2233
Log Total Depth	4450	-2233

(All tops and zones corrected to Electric Log Measurement)

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

TOPEKA THROUGH LANSING SECTION

3600-4078' There were several zones of well-developed porosity encountered in the Drilling of the Topeka, Toronto and Lansing/Kansas City Sections but no shows of oil and/or gas was noted (see attached Geologist report/sample log).

MARMATON SECTION

4121-4131' Limestone, tan, finely crystalline, slightly cherty (dense)

4138-4146' Limestone, white, gray, slightly fossiliferous, chalky, poor porosity, no shows.

4150-4170' Limestone, as above, maroon, tinted, chalky; no shows.

4180-4199' Limestone, white and gray, cherty in part, poor porosity, no shows.

PAWNEE SECTION

4201-4230' Limestone, tan, gray, finely crystalline, chalky (dense)

4230-4266' Limestone, as above, poorly developed porosity, no shows..

FT SCOTT SECTION

4279-4280' Limestone, white and gray; few fossiliferous, chalky, trace gray stain, no show of free oil and questionable odor in fresh samples.

4280-4296' Limestone, as above, no shows.

CHEROKEE SECTION

4300-4318' Limestone, gray, white, chalky, poor visible porosity, no shows.

MISSISSIPPIAN SECTION

4356-4364' Chert; white, boney, translucent, few semi-tripolitic, brown and gray stain, plus dolomite, white, gray, finely crystalline, scattered pinpoint porosity, brown stain, show of free oil and faint odor.

Drill Stem Test #1 **4378-4365**

Times: 30-30-30-45
Blow: Surface
Recovery: 30' slightly oil cut mud
(2% oil; 98% mud)
Pressures: ISIP 377 psi
FSIP 675 psi
IFP 13-16 psi
FFP 16-22 psi
HSH 2110-2070 psi

4366-4373'

Chert; and dolomite, as above, brown stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 **4318-4373**

Times: 30-30-30-45
Blow: Weak
Recovery: 75' oil cut mud pipe
(10% oil; 90% mud))
Pressures: ISIP 1289 psi
FSIP 1341 psi
IFP 14-33 psi
FFP 40-53 psi
HSH 2137-2106 psi

4373-4379'

Chert; white, cream, fresh; few semi-tripolitic, golden brown to brown stain, plus dolomite, white, gray and tan, finely crystalline, pinpoint type to fine vuggy type porosity, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #3 **4317-4379'**

Times: 30-30-45-60
Blow: Good
Recovery: 124' gas in pipe
124' clean oil
558' muddy oil
(50% oil; 50% mud))
Pressures: ISIP 1372 psi
FSIP 1371 psi
IFP 28-189 psi
FFP 192-276 psi
HSH 2165-2064 psi

Mai Oil Operations
D&D Unit #1
W/2-NW-NW-SW (2310' FSL & 252' FWL)
Section 16-20s-22w
Ness County, Kansas

Page 4

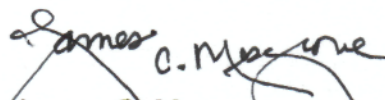
4379-4390'	Chert; as above, good porosity, fair brown/golden brown stain and saturation, show of free oil and fair odor in fresh samples.
4390-4406'	Chert and dolomite, as above, decreasing stain; trace of free oil and faint odor.
4406-4416'	Limestone, tan, fossiliferous in part, dolomitic, dense.
4416-4430'	Dolomite, white, cream, sucrosic, glauconitic, plus white/cream, boney to translucent chert, few fossiliferous, no shows.
4430-4450'	Dolomite and chert, as above.

Rotary Total Depth	4450
Log Total Depth	4450

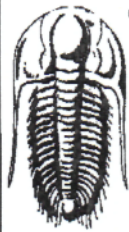
Recommendations:

The 5 ½" production casing was set and cemented on Mai Oil Operations Inc., D&D Unit #1.

Respectfully yours,


James C. Musgrove
Petroleum Geologist





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64781

DST#: 1

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 10:31:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:37:30

Time Test Ended: 16:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4318.00 ft (KB) To 4365.00 ft (KB) (TVD)

Total Depth: 4365.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2217.00 ft (KB)

2209.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8960

Outside

Press@RunDepth: 674.79 psig @ 4362.16 ft (KB)

Start Date: 2017.05.21

End Date:

2017.05.21

Start Time: 10:31:05

End Time:

16:52:29

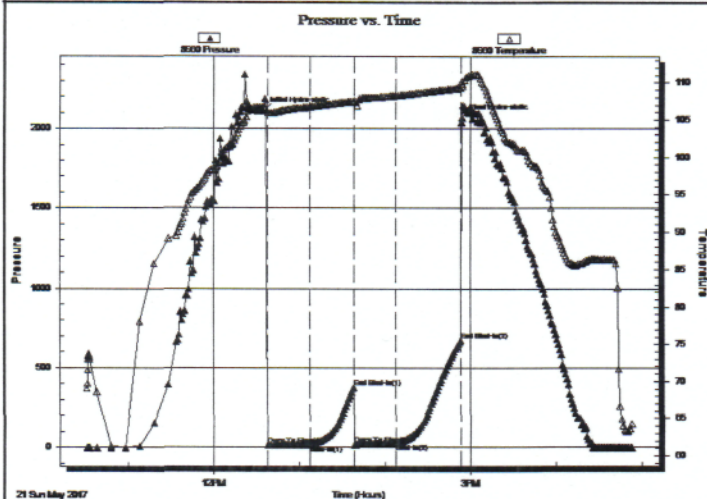
Capacity: 8000.00 psig

Last Calib.: 2017.05.21

Time On Btm: 2017.05.21 @ 12:35:00

Time Off Btm: 2017.05.21 @ 14:54:00

TEST COMMENT: IFP 30 Minutes Surface blow died in 5 minutes
ISI 30 Minutes No blow back
FFP 30 Minutes No blow / Flush tool/ Surface blow died in 1 minute
FSI 45 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.31	106.67	Initial Hydro-static
3	13.53	105.99	Open To Flow (1)
32	15.99	106.74	Shut-In(1)
63	376.61	107.51	End Shut-In(1)
64	16.45	107.32	Open To Flow (2)
92	22.16	108.22	Shut-In(2)
138	674.79	109.29	End Shut-In(2)
139	2068.48	109.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM Oil 2% Mud 98%	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64781

DST#: 1

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 10:31:00

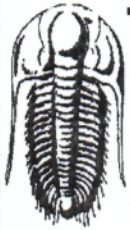
Tool Information

Drill Pipe:	Length: 3970.00 ft	Diameter: 3.80 inches	Volume: 55.69 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: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4318.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.16 ft			
Tool Length:	67.16 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Top Packer	5.00			4313.00	
Packer	5.00			4318.00	20.00 Bottom Of Top Packer
Anchor	9.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	31.16			4359.16	
Change Over Sub	1.00			4360.16	
Recorder	1.00	8354	Inside	4361.16	
Recorder	1.00	8960	Outside	4362.16	
Bullnose	3.00			4365.16	47.16 Anchor Tool

Total Tool Length: 67.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64781

DST#: 1

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 10:31:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM Oil 2% Mud 98%	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

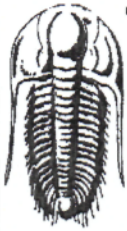
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64782

DST#: 2

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 22:56:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:42:00

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **4318.00 ft (KB) To 4373.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 4373.00 ft (KB) (TVD)

2209.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960

Outside

Press@RunDepth: 1340.45 psig @ 4370.16 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.21

End Date:

2017.05.22

Last Calib.:

2017.05.22

Start Time: 22:56:05

End Time:

04:59:59

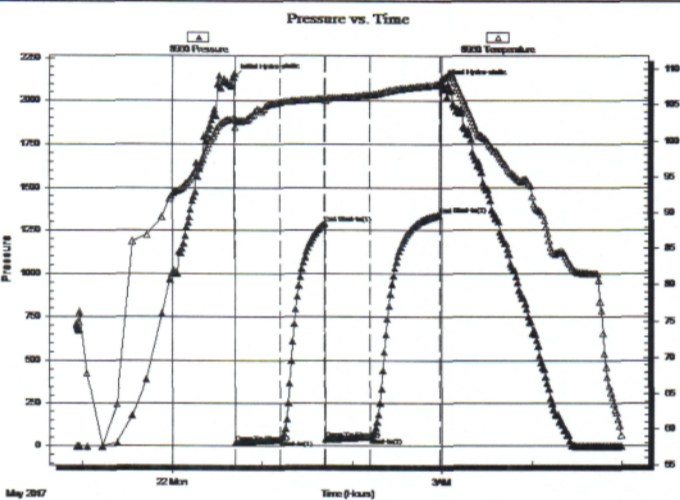
Time On Btm:

2017.05.22 @ 00:41:00

Time Off Btm:

2017.05.22 @ 03:00:00

TEST COMMENT: IFP 30 Minutes Blow built to 1/2' then died in 19 minutes
ISI 30 Minutes No blow back
FFP 30 Minutes Surface blow died in 9 minutes
FSI 45 Minutes No blow back



PRESSURE SUMMARY

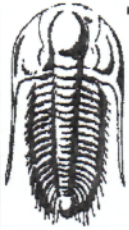
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.70	102.99	Initial Hydro-static
1	16.11	101.88	Open To Flow (1)
31	36.30	105.34	Shut-In(1)
61	1292.30	105.86	End Shut-In(1)
62	40.35	105.64	Open To Flow (2)
91	53.61	106.38	Shut-In(2)
138	1340.45	107.84	End Shut-In(2)
139	2104.99	108.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM Oil 10% Mud 90%	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64782

DST#: 2

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 22:56:00

Tool Information

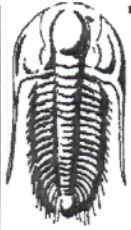
Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 57.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4318.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.16 ft				
Tool Length:	75.16 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Ruined Packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Top Packer	5.00			4313.00	
Packer	5.00			4318.00	20.00 Bottom Of Top Packer
Anchor	17.00			4335.00	
Change Over Sub	1.00			4336.00	
Drill Pipe	31.16			4367.16	
Change Over Sub	1.00			4368.16	
Recorder	1.00	8354	Inside	4369.16	
Recorder	1.00	8960	Outside	4370.16	
Bullnose	3.00			4373.16	55.16 Anchor Tool

Total Tool Length: 75.16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64782

DST#: 2

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 22:56:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OCM Oil 10% Mud 90%	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

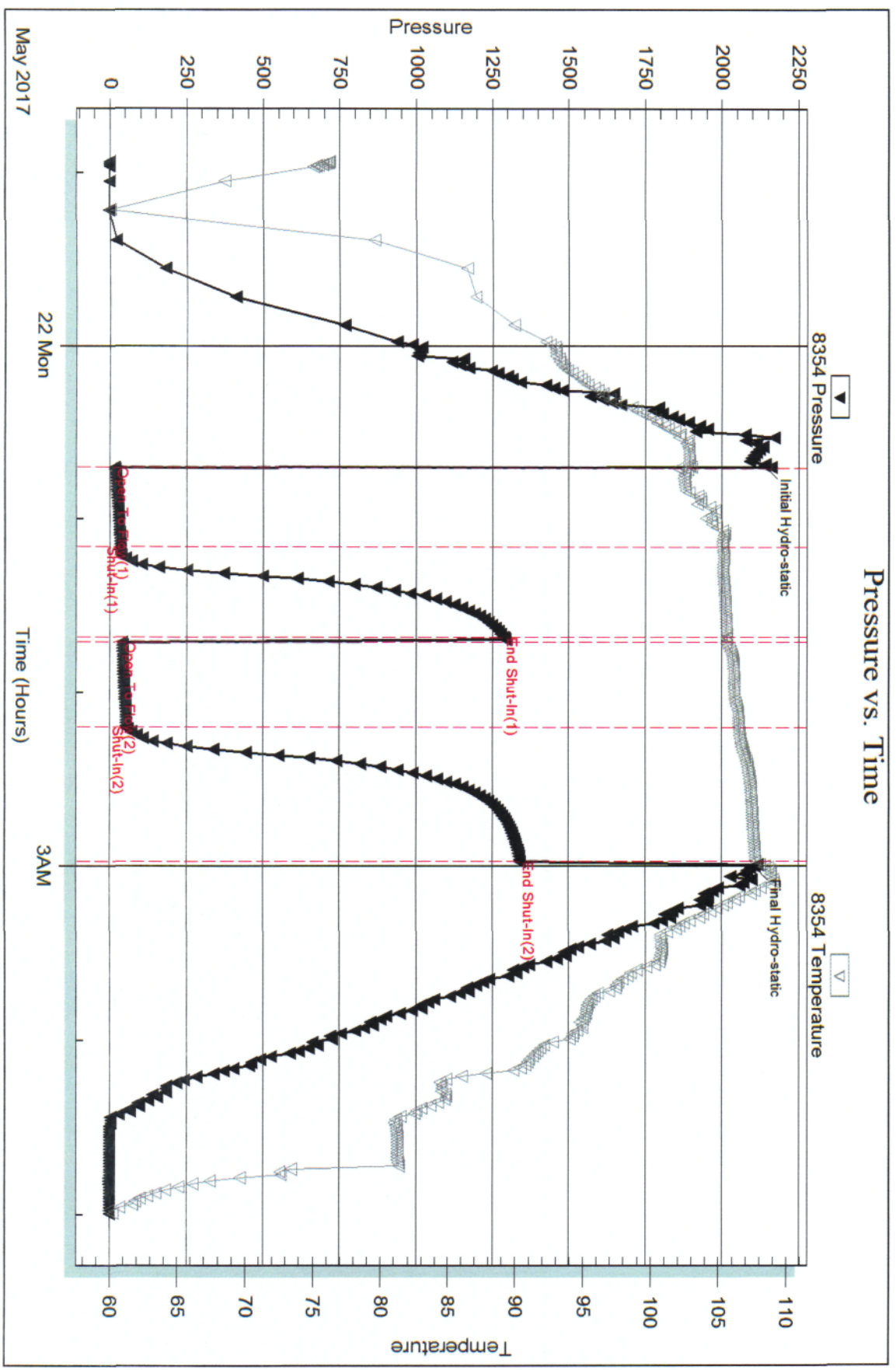
Recovery Comments:

Serial #: 8354

Inside Mai Oil Operation Inc.

D&D Unit #1

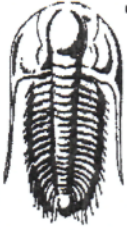
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64782

Printed: 2017.05.23 @ 13:33:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operation Inc.
 8411 Preston Road Suite 800
 Dallas TX 75225+5520
 ATTN: Jim Musgrove

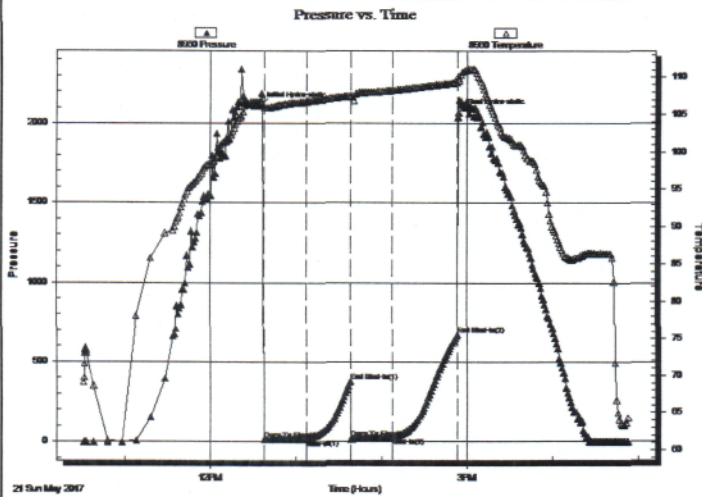
16-20S-22W Ness, KS
D&D Unit #1
 Job Ticket: 64781 **DST#: 1**
 Test Start: 2017.05.21 @ 10:31:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:37:30
 Time Test Ended: 16:52:30
 Interval: **4318.00 ft (KB) To 4365.00 ft (KB) (TVD)**
 Total Depth: 4365.00 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: 2217.00 ft (KB)
 2209.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8960 **Outside**
 Press@RunDepth: 674.79 psig @ 4362.16 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.21 End Date: 2017.05.21 Last Calib.: 2017.05.21
 Start Time: 10:31:05 End Time: 16:52:29 Time On Btm: 2017.05.21 @ 12:35:00
 Time Off Btm: 2017.05.21 @ 14:54:00

TEST COMMENT: IFP 30 Minutes Surface blow died in 5 minutes
 ISI 30 Minutes No blow back
 FFP 30 Minutes No blow / Flush tool/ Surface blow died in 1 minute
 FSI 45 Minutes No blow back



PRESSURE SUMMARY

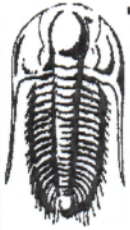
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.31	106.67	Initial Hydro-static
3	13.53	105.99	Open To Flow (1)
32	15.99	106.74	Shut-In(1)
63	376.61	107.51	End Shut-In(1)
64	16.45	107.32	Open To Flow (2)
92	22.16	108.22	Shut-In(2)
138	674.79	109.29	End Shut-In(2)
139	2068.48	109.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM Oil 2% Mud 98%	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation Inc.
8411 Preston Road Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

16-20S-22W Ness,KS
D&D Unit #1
Job Ticket: 64781 **DST#: 1**
Test Start: 2017.05.21 @ 10:31:00

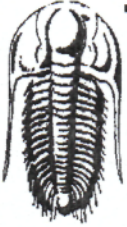
Tool Information

Drill Pipe:	Length: 3970.00 ft	Diameter: 3.80 inches	Volume: 55.69 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: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4318.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.16 ft			
Tool Length:	67.16 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Top Packer	5.00			4313.00	
Packer	5.00			4318.00	20.00 Bottom Of Top Packer
Anchor	9.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	31.16			4359.16	
Change Over Sub	1.00			4360.16	
Recorder	1.00	8354	Inside	4361.16	
Recorder	1.00	8960	Outside	4362.16	
Bullnose	3.00			4365.16	47.16 Anchor Tool

Total Tool Length: 67.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64781

DST#: 1

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 10:31:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM Oil 2% Mud 98%	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

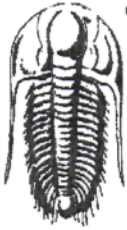
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64782

DST#: 2

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 22:56:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:42:00

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **4318.00 ft (KB) To 4373.00 ft (KB) (TVD)**

Reference Elevations: 2217.00 ft (KB)

Total Depth: 4373.00 ft (KB) (TVD)

2209.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960

Outside

Press@RunDepth: 1340.45 psig @ 4370.16 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.21 End Date: 2017.05.22

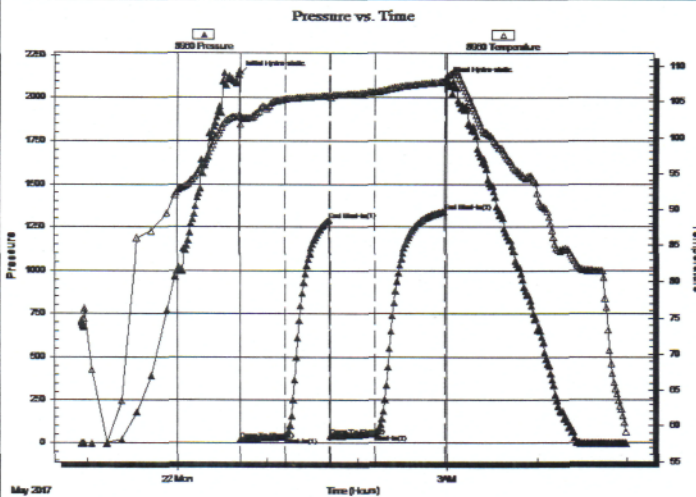
Last Calib.: 2017.05.22

Start Time: 22:56:05 End Time: 04:59:59

Time On Btm: 2017.05.22 @ 00:41:00

Time Off Btm: 2017.05.22 @ 03:00:00

TEST COMMENT: IFP 30 Minutes Blow built to 1/2' then died in 19 minutes
ISI 30 Minutes No blow back
FFP 30 Minutes Surface blow died in 9 minutes
FSI 45 Minutes No blow back



PRESSURE SUMMARY

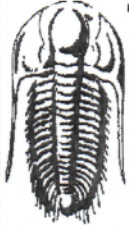
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.70	102.99	Initial Hydro-static
1	16.11	101.88	Open To Flow (1)
31	36.30	105.34	Shut-In(1)
61	1292.30	105.86	End Shut-In(1)
62	40.35	105.64	Open To Flow (2)
91	53.61	106.38	Shut-In(2)
138	1340.45	107.84	End Shut-In(2)
139	2104.99	108.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM Oil 10% Mud 90%	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation Inc.
8411 Preston Road Suite 800
Dallas TX 75225+5520
ATTN: Jim Musgrove

16-20S-22W Ness,KS
D&D Unit #1
Job Ticket: 64782 **DST#: 2**
Test Start: 2017.05.21 @ 22:56:00

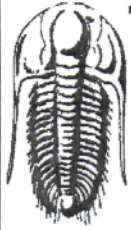
Tool Information

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 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: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 57.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4318.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.16 ft				
Tool Length:	75.16 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Ruined Packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Top Packer	5.00			4313.00	
Packer	5.00			4318.00	20.00 Bottom Of Top Packer
Anchor	17.00			4335.00	
Change Over Sub	1.00			4336.00	
Drill Pipe	31.16			4367.16	
Change Over Sub	1.00			4368.16	
Recorder	1.00	8354	Inside	4369.16	
Recorder	1.00	8960	Outside	4370.16	
Bullnose	3.00			4373.16	55.16 Anchor Tool

Total Tool Length: 75.16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64782

DST#: 2

ATTN: Jim Musgrove

Test Start: 2017.05.21 @ 22:56:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OCM Oil 10% Mud 90%	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

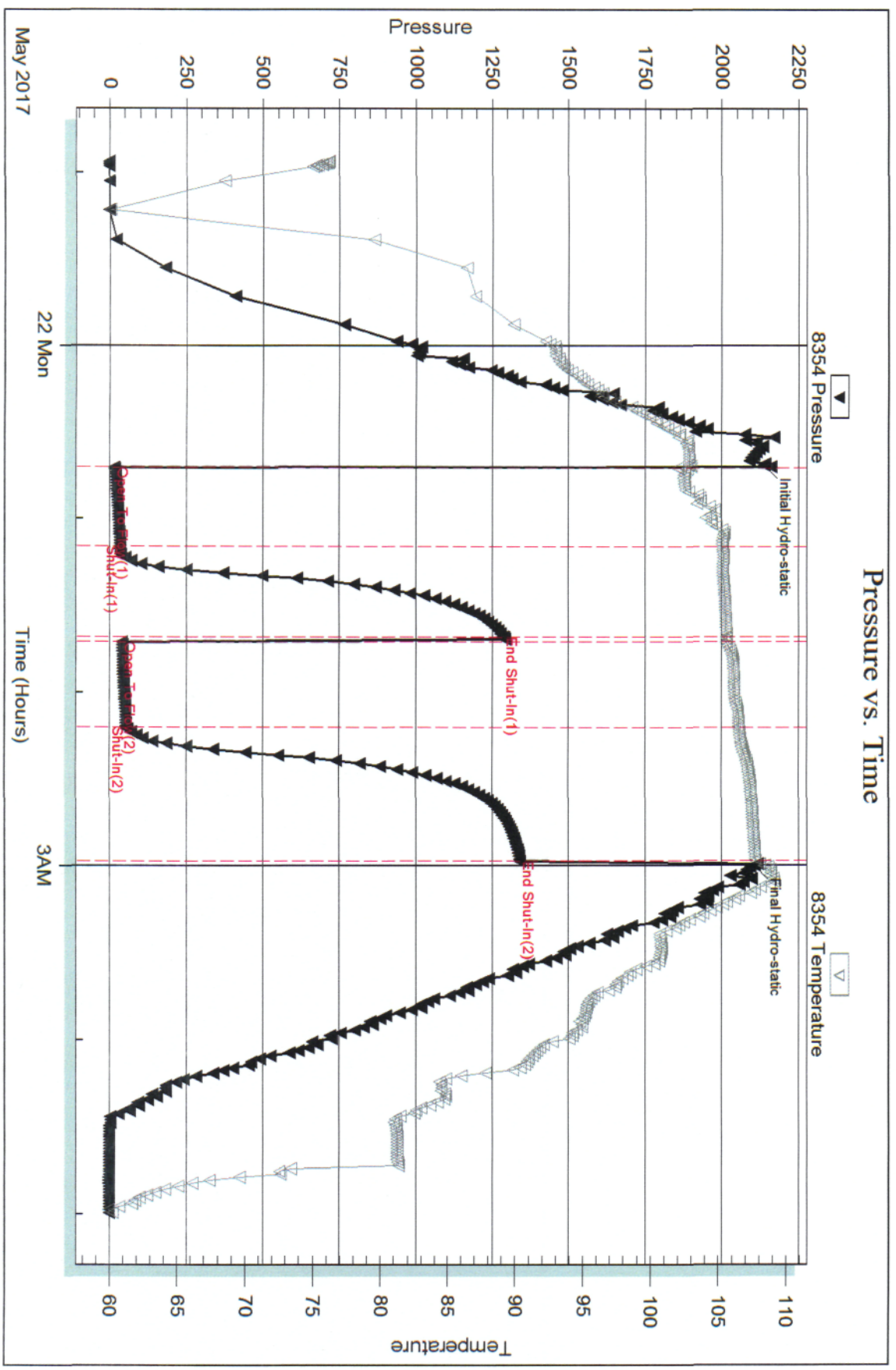
Inside

Mat Oil Operation Inc.

D&D Unit #1

DST Test Number: 2

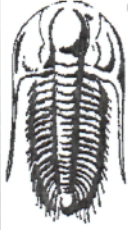
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64782

Printed: 2017.05.23 @ 13:33:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operation Inc.
 8411 Preston Road Suite 800
 Dallas TX 75225+5520
 ATTN: Jim Musgrove

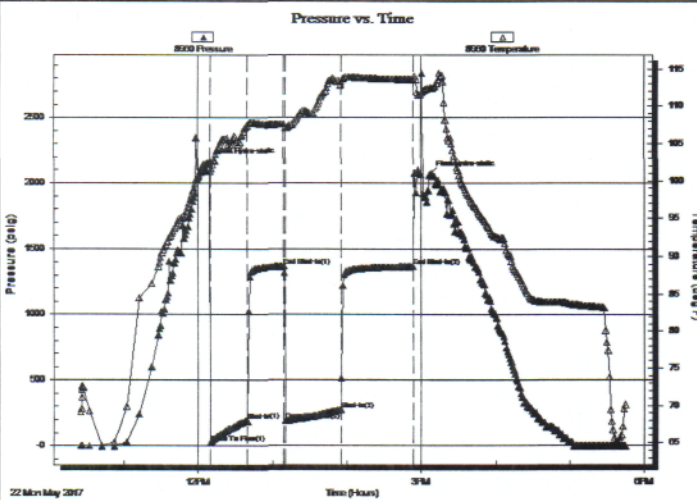
16-20S-22W Ness, KS
D&D Unit #1
 Job Ticket: 64783 **DST#: 3**
 Test Start: 2017.05.22 @ 10:25:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:09:30 Tester: Ken Swinney
 Time Test Ended: 17:44:30 Unit No: 72
 Interval: **4317.00 ft (KB) To 4379.00 ft (KB) (TVD)** Reference Elevations: 2217.00 ft (KB)
 Total Depth: 4379.00 ft (KB) (TVD) 2209.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8960 **Outside**
 Press@RunDepth: 1370.09 psig @ 4376.16 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.22 End Date: 2017.05.22 Last Calib.: 2017.05.22
 Start Time: 10:25:05 End Time: 17:44:29 Time On Btm: 2017.05.22 @ 12:09:00
 Time Off Btm: 2017.05.22 @ 15:06:30

TEST COMMENT: IFP 30 Minutes BOB in 18 minutes
 ISI 30 Minutes No blow back
 FFP 45 Minutes BOB in 18 minutes
 FSI 60 Minutes Blow back built to 1/2" then died after 23 minutes



PRESSURE SUMMARY

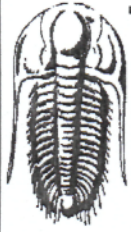
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.23	102.39	Initial Hydro-static
1	27.24	101.23	Open To Flow (1)
31	190.46	107.39	Shut-In(1)
60	1370.84	107.60	End Shut-In(1)
62	191.67	107.13	Open To Flow (2)
106	276.47	112.88	Shut-In(2)
165	1370.09	113.58	End Shut-In(2)
178	2062.51	112.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	MO Mud 50% Oil 50%	2.79
124.00	Clean Oil 100%	1.74
0.00	124' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64783

DST#: 3

ATTN: Jim Musgrove

Test Start: 2017.05.22 @ 10:25:00

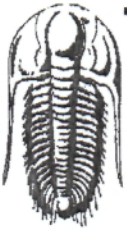
Tool Information

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 359.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4317.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.16 ft			
Tool Length:	82.16 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined Packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4302.00	
Hydraulic tool	5.00			4307.00	
Top Packer	5.00			4312.00	
Packer	5.00			4317.00	20.00 Bottom Of Top Packer
Anchor	24.00			4341.00	
Change Over Sub	1.00			4342.00	
Drill Pipe	31.16			4373.16	
Change Over Sub	1.00			4374.16	
Recorder	1.00	8354	Inside	4375.16	
Recorder	1.00	8960	Outside	4376.16	
Bullnose	3.00			4379.16	62.16 Anchor Tool

Total Tool Length: 82.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operation Inc.

16-20S-22W Ness,KS

8411 Preston Road Suite 800
Dallas TX 75225+5520

D&D Unit #1

Job Ticket: 64783

DST#: 3

ATTN: Jim Musgrove

Test Start: 2017.05.22 @ 10:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 8900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	MO Mud 50% Oil 50%	2.791
124.00	Clean Oil 100%	1.739
0.00	124' GIP	0.000

Total Length: 682.00 ft Total Volume: 4.530 bbl

Num Fluid Samples: 0

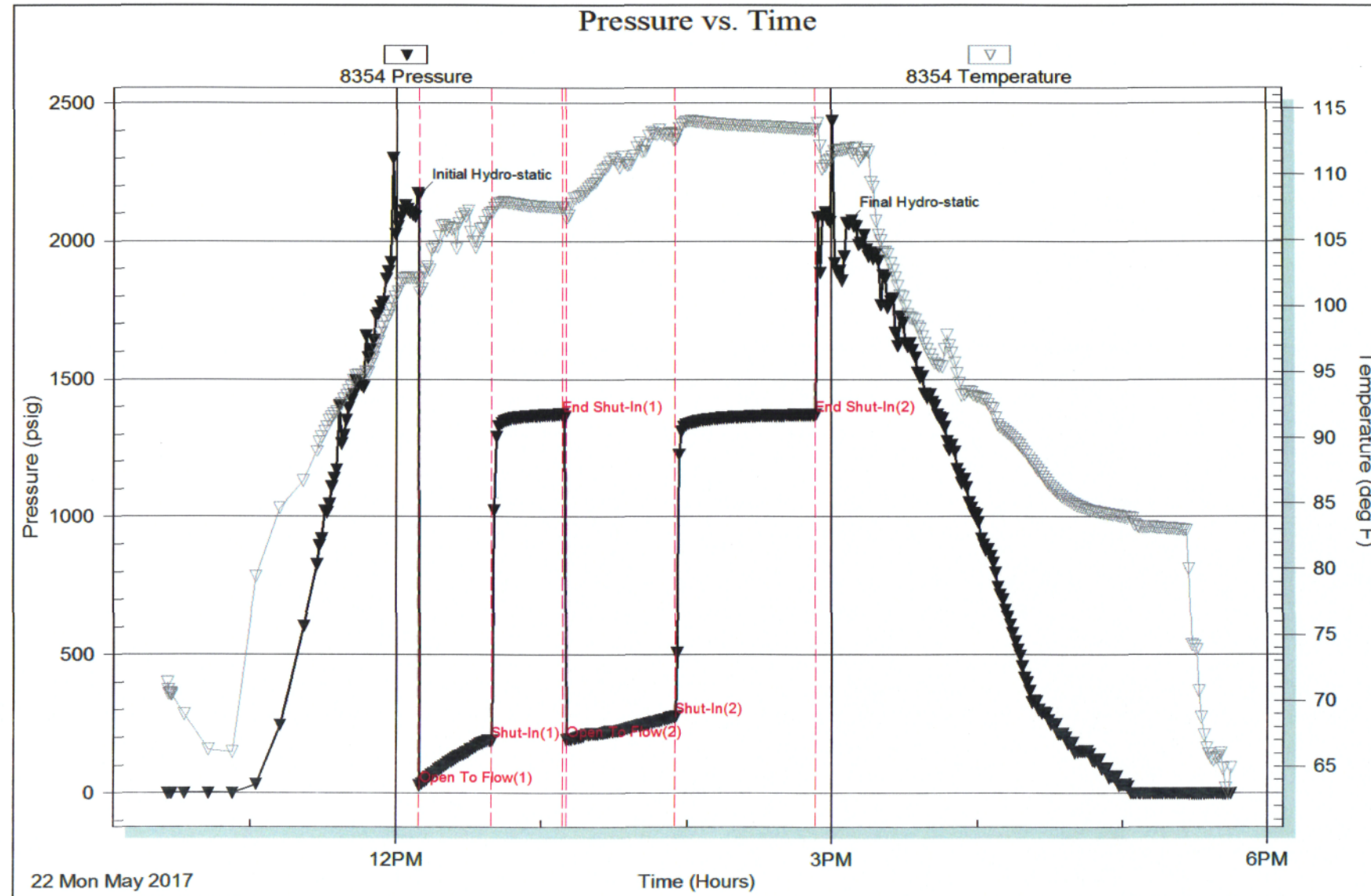
Num Gas Bombs: 0

Serial #:

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. 164

Date	5-16-17	Sec.	16	Twp.	20	Range	22	County	Ness	State	Ks	On Location		Finish	1:15 AM
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	---------

Lease D+D unit Well No. 1 Location Bazine - west side DD Rd, 95 to 40 Rd,
Owner 4W to 2 Rd, 1/2 S, E 1/4

Contractor Southwind #3 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job Surface cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 263' Charge To main oil operations
Csg. 8 5/8" Depth 263' Street

Tbg. Size Depth City State
Tool Depth

Cement Left In Csg. 15' Shoe Joint 15' The above was done to satisfaction and supervision of owner agent or contractor.
Cement Amount Ordered 160 60/40 4% cc 2% Gel

Meas Line Displace 15 3/4 BUS

EQUIPMENT			
Pumptrk	<u>16</u>	No.	Cementer <u>Travis</u>
			Helper
Bulktrk	<u>3</u>	No.	Driver <u>David</u>
			Driver
Bulktrk	<u>2, 4</u>	No.	Driver <u>Rick</u>
			Driver

Common 95
Poz. Mix 65

Gel. 3
Calcium 7

Hulls
Salt

Flowseal
Kol-Seal

Mud CLR 48
CFL-117 or CD110 CAF 38

Sand
Handling 180

Mileage
Mud Pump EQUIPMENT

Guide Shoe
Centralizer

Baskets
AFU inserts

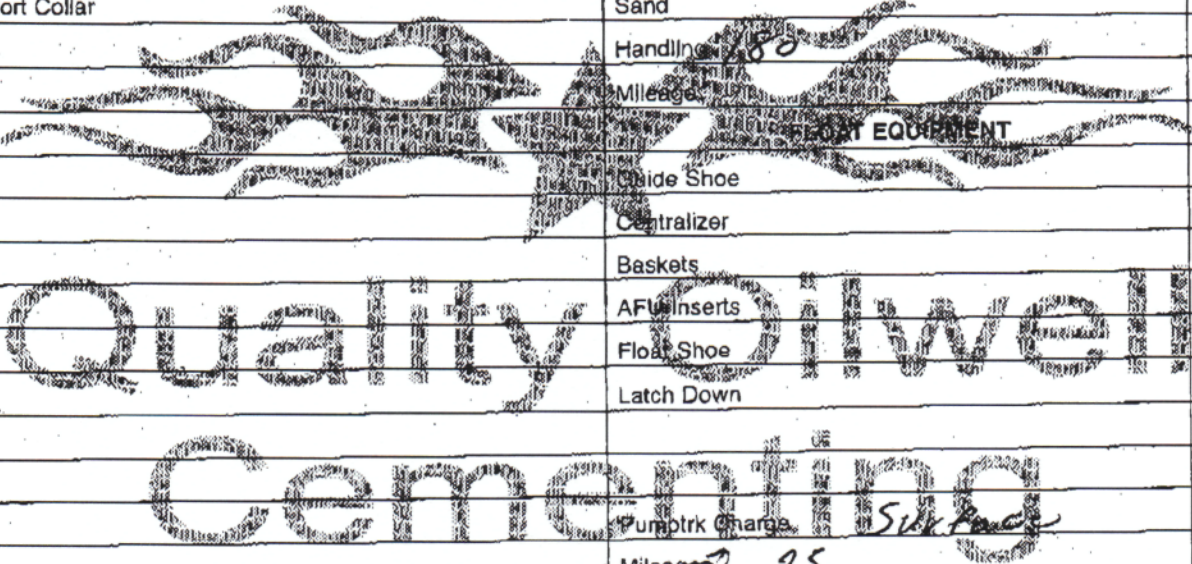
Float Shoe
Latch Down

Pumptrk Charge 500.00
Mileage 25

Tax
Discount

Total Charge

X Signature Jay Price



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. 172

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-23-17	16	20	22	Ness	Ks		5:00 PM
Lease D+D unit				Location Bazine - DD Rd 95 to 40 Rd, 4w to			
Well No. 1		Owner Z.Rd, 1/2 S, E1/4		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.			
Contractor Southwind		3		Charge To Main oil operations			
Type Job Longstring		T.D. 4450'		Street			
Hole Size 7 7/8"		Depth 4445'		City State			
Csg. New 5 1/2" 14#		Depth 1411'		The above was done to satisfaction and supervision of owner agent or contractor.			
Tbg. Size		Shoe Joint 21.98'		Cement Amount Ordered 160 60/40 10% Salt 2% Gel 1/4# Flo Seal			
Tool Port Collar		Displace 108 BCS		1000 gal mud Clear 48			
Cement Left in Csg. 21.98		EQUIPMENT		Common			
Meas Line		Pumptrk 16 No. Cementer Helper Travis		Poz. Mix			
		Bulktrk 3 No. Driver David		Gel.			
		Bulktrk pul No. Driver Rick		Calcium			
		JOB SERVICES & REMARKS		Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers 1-5, 72				Mud CLR 48			
Baskets 300 middle Joint 72				CFL-117 or CD110 CAF 38			
D/V or Port Collar 1411' top #73				Sand			
pipe on bottom break Circulation pump				Handling			
1000 gal mud Clear 48 plug Ballhole				Mileage			
w/ 30 Sx Hook 5 1/2" Casing + mix				FLOAT EQUIPMENT			
130 Sx Cement Shut down wash				Guide Shoe Port Collar			
pump + lines Released plug + Displaced				Centralizer 6			
with 108 BCS Released + hold				Baskets 1			
Lift pressure 700 #				AFU Inserts			
Land plug to 1500 #				Float Shoe 1			
				Latch Down 1			
				1 - limit clamp			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
X Signature <i>Kent</i>				Total Charge			



CHARGE TO: Main Operations

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30585

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>#1</u>	LEASE <u>D+D Unit</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>6-12-17</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Express Well Service</u>		RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Correct 5 1/2" Port Collar</u>		WELL PERMIT NO.	WELL LOCATION <u>Ness City - 9S, 7E, 1/4S, E 1/4</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		QTY.	U/M		PRICE	AMOUNT
575		1			MILEAGE	20	mi.	5.00	100.00	
576 D		1			Pump Charge - Port Collar	5/2 in	1 job	1250.00	1250.00	
330		1			SMD Cement	165	skts	15.75	2598.75	
276		1			Floacle	1/4 lb	50 lbs	2.25	112.50	
290		1			D-Air	2	gal	42.00	84.00	
105		1			Port Collar Tool Rental	5/2 in	1 ca	275.00	275.00	
581		1			Service Charge Cement	175	skts	1.50	262.50	
582		1			Minimum Drayage Charge	1	ca	250.00	250.00	

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]

DATE SIGNED 6-12-17 TIME SIGNED 1230 A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	4932.75
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

JOB LOG

SWIFT Services, Inc.

DATE	PAGE NO.
9-6-12-17	1
TICKET NO.	
#30585	

CUSTOMER	WELL NO.	LEASE	JOB TYPE
Max Operations	#1	D+D Unit	Port Call

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							on location 2 7/8 x 5 1/2"
								P.C. - 1411' 175 stks SMD
	1110	∅	∅			1000		Pressure test * Hold *
								open P.C.
	1115	3 1/2	5			300		Injection Rate
	1120	3 1/2	91			250		mix 165 stks SMD w/ 1/4" Flo @ 11.2 ppg circulate cement to pit * 15 stks *
		3 1/2	7 1/2			400		Displace Cement
								Close P.C.
	1150	∅	∅			1000		Test * Hold *
								Run 5 stks * 165 stks total * * 15 stks pit *
	1210	3 1/2	20			350		Reverse Clean
								wash up truck
	1245							Job Complete

Thank You
Dave Preston Kirby