

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](mailto: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
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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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	ABBOUD TRUST UNIT 1
Doc ID	1640800

Tops

Name	Top	Datum
Anhydrite	815	1110
Heebner	3251	-1326
Toronto	3270	-1345
Douglas	3286	-1361
Brown Lime	3370	-1445
Lansing	3389	-1464
Base LKC	3596	-1671
Viola	3632	-1707
Simpson Shale	3674	-1749
Arbuckle	3725	-1800





**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: 3/9/2022  
 Invoice # 2985  
 P.O.#:  
 Due Date: 4/8/2022  
 Division: Russell

# Invoice

**Contact:**  
 Mai Oil Operations  
**Address/Job Location:**

8411 Preston Rd. Ste 800  
 Dallas TX 75225-5520

**Reference:**  
 ABBODD TRUST UNIT 1 SEC30-21-13

**Description of Work:**  
 LONG SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 789.25	No				
Common-Class A	270	\$ 4,920.23	Yes				
POZ Mix-Standard	180	\$ 1,114.62	Yes				
Calcium Chloride	20	\$ 990.77	Yes				
Bulk Truck Matl-Material Service Charge	478	\$ 422.85	No				
Premium Gel (Bentonite)	9	\$ 230.88	Yes				
Flo Seal	100	\$ 176.92	Yes				
8 5/8" Top Rubber Plug	1	\$ 107.92	Yes				
Pump Truck Mileage-Job to Nearest Camp	15	\$ 59.71	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$ 46.44	No				

**Invoice Terms:**

Net 30

	SubTotal:	\$ 8,859.60
	<i>Discount Available <u>ONLY</u> if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$ (221.49)
<hr/>		
	SubTotal for Taxable Items:	\$ 7,352.81
	SubTotal for Non-Taxable Items:	\$ 1,285.30
<hr/>		
	Total:	\$ 8,638.11
	Tax:	\$ 551.46
<hr/>		
	<b>Amount Due:</b>	<b>\$ 9,189.57</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 9,189.57</b>

7.50% Stafford 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.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. **2985**

Date	3-9-22	Sec.	30	Twp.	21	Range	13	County	Stafford	State	Ks	On Location		Finish	9:45 AM
------	--------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Abbond trust unit  
Lease  
Well No. 1  
Owner 5/5 side  
Location Great Bend - 115, 2 1/2 W on 170th

Contractor Southwind #1  
Type Job Surface  
To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 819'  
Csg. 8 3/8" Depth 819'  
Charge To Mai oil operations

Tbg. Size Depth City State  
Tool Depth  
The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 40' Shoe Joint 40'  
Cement Amount Ordered 450 60/40 4% CL 2% Gel  
Meas Line Displace 50 BLS 1/2# Flo-seal

EQUIPMENT			Common
Pumptrk 18 No.	Cementer	Dave	270
	Helper		
Bulktrk 19 No.	Driver	Rick	Poz. Mix 180
	Driver		
Bulktrk pu. No.	Driver	Caleb	Gel. 8
	Driver		Calcium 20

**JOB SERVICES & REMARKS**  
Remarks: Cement did Circulate  
Hulls  
Salt

Rat Hole Flowseal 225 #  
Mouse Hole Kol-Seal

Centralizers Mud CLR 48  
Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand  
Handling 478  
Mileage

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

Pumptrk Charge Long Surface  
Mileage 15

Signature Guy Shred  
Tax  
Discount  
Total Charge  
Thanks



**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: 3/17/2022  
 Invoice # 2733

P.O.#:  
 Due Date: 4/16/2022  
 Division: Russell

# Invoice

**Contact:**  
 Mai Oil Operations  
**Address/Job Location:**

8411 Preston Rd. Ste 800  
 Dallas TX 75225-5520

**Reference:**  
 ABOUD TRUST UNIT 1 SEC 30-21-13

**Description of Work:**  
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 789.25	No	Pump Truck Mileage-Job to Nearest Camp	15	\$59.71	No
Common-Class A	108	\$ 1,968.09	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	15	\$46.44	No
Mud Clear	1000	\$ 1,291.54	Yes				
5 1/2" Turbolizer	12	\$ 764.31	Yes				
POZ Mix-Standard	72	\$ 445.85	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 297.23	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 235.31	Yes				
Salt (Fine)	15	\$ 173.83	Yes				
Bulk Truck Matl-Material Service Charge	198	\$ 175.15	No				
Flo Seal	50	\$ 88.46	Yes				
Premium Gel (Bentonite)	3	\$ 76.96	Yes				

SubTotal: \$ 6,412.13

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (160.30)

SubTotal for Taxable Items: \$ 5,208.03

SubTotal for Non-Taxable Items: \$ 1,043.80

Total: \$ 6,251.83

Tax: \$ 390.60

7.50% Stafford County Sales Tax

**Amount Due: \$ 6,642.43**

**Applied Payments:**

**Balance Due: \$ 6,642.43**

**Thank You For Your Business!**

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

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. **2733**

Cell 785-324-1041

Date	3-17-22	Sec.	30	Twp.	21	Range	13	County	Stafford	State	KS	On Location		Finish	4:30 AM
													Location		

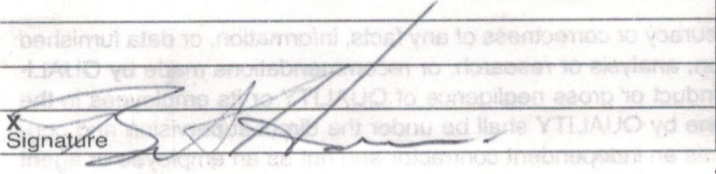
Lease	Abbgud Trust Unit			Well No.	1	Owner	Gt Bend 115 25w									
Contractor	Southwind						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Type Job	Long String						Charge To mai oil op.									
Hole Size	7 7/8			T.D.	3810											
Csg.	5h			Depth				Street								
Tbg. Size				Depth				City State								
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.				Shoe Joint	20.2			Cement Amount Ordered 180 6440 2% bel								
Meas Line				Displace	92.3			100% Salt to #10 seal 100# Gal flush								

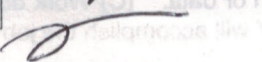
EQUIPMENT															
Pumptrk	16	No.	Cementer	Common 108											
			Helper	Poz. Mix 72											
Bulktrk		No.	Driver	Gel. 3											
			Driver	Calcium											
Bulktrk	9	No.	Driver	Hulls											
			Driver	Salt 15											

JOB SERVICES & REMARKS															
Remarks:				Flowseal 50#											
Rat Hole	15			Kol-Seal											
Mouse Hole	30			Mud CLR 48 1000 gal											
Centralizers				CFL-117 or CD110 CAF 38											
Baskets				Sand											
D/V or Port Collar				Handling 198											
Pipe set	3807			Mileage											
Shoe	20.2														
Insert	3786. 100# Gal Flush														

				FLOAT EQUIPMENT											
Cent w/ 135ry				Guide Shoe											
Pump plug w/ 92.3 bbls				Centralizer 12											
Land plug e 1500#				Baskets											
Float did hold				AFU Inserts											
				Float Shoe 1											
				Latch Down 1											

				Pumptrk Charge Prod String											
				Mileage 15											
				Tax											
				Discount											
				Total Charge											

X Signature 

Thanks 



**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.  
Abbound Trust Unit #1  
NE-NE-NW-NW (80' FNL & 1205' FWL)  
Section 30-21s-13w  
Stafford County, Kansas

Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (rig #1)

**Commenced:** March 8, 2022

**Completed:** March 16, 2022

**Elevation:** 1925' K.B., 1923 D.F., 1915' G.L.

**Casing program:** Surface; 8 5/8" @ 818'  
Production, 5 1/2" @ 3808'

**Sample:** Samples saved and examined 3100' to the Rotary Total Depth.

**Drilling time:** One (1) foot drilling time recorded and kept 3100' to the Rotary Total Depth.

**Measurements:** All depths measured from the Kelly Bushing.

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

**Electric Log:** By Eli, Dual Induction/ Compensated Density; Neutron & Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	815	+1110
Base Anhydrite	839	+1086
Heebner	3251	-1326
Toronto	3270	-1345
Douglas	3286	-1361
Brown Lime	3370	-1445
Lansing	3389	-1464
Base Kansas City	3596	-1671
Viola	3632	-1707
Simpson Shale	3674	-1749
Arbuckle	3725	-1800
Rotary Total Depth	3810	-1885
Log Total Depth	3810	-1885

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

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

**TOPEKA & TORONTO SECTION**

3100-3285      There were several zones of porosity encountered in the drilling of the Topeka and Toronto Sections but no shows of free oil and/or gas noted (See attached Drilling Time and Sample Log)

**LANSING SECTION**

- 3379-3390' Limestone, tan, oolitic, slightly chalky; scattered porosity; light brown to golden brown stain, no show of free oil and no odor.
- 3402-3410' Limestone, white, fossiliferous, chalky, poor to fair inter-crystalline to fine vuggy porosity, gray, black to brown stain, trace of free oil and faint odor.
- 3424-3430' Limestone, gray, oolitic, chalky; poorly developed porosity, trace gray and black stain, no free oil and no odor.
- 3450-3456' Limestone, tan, fossiliferous; chalky in part; brown and dark brown stain, trace of free oil and questionable odor in fresh samples.
- 3464-3469' Limestone, tan, oolitic; chalky in part, trace light brown stain, no free oil and no odor.

**Drill Stem Test #1 3406-3474'**

**Times: 30-30-45-60**

**Blow: Strong (B.O.B. 1 min)**  
**2<sup>nd</sup> Opening: Strong gas to surface; T.S.T.M)**

**Recovery: 50' Heavily oil and gas cut mud**  
**(10% gas; 30% oil; 60% mud)**  
**300' muddy gassy watery oil**  
**(20% gas; 50% oil; 10% water; 20% mud)**

**Pressures: ISIP 694 psi**  
**FSIP 697 psi**  
**IFP 67-93 psi**  
**FFP 119-142 psi**  
**HSH 1669-1645 psi**

- 3480-3499' Limestone, tan, oolitic; chalky in part; brown and dark brown stain, trace of free oil and questionable odor in fresh samples.
- 3504-3511' Limestone, tan, gray; oolitic, oomoldic, fair oomoldic porosity; brown and dark brown spotted stain, show of free oil and questionable odor.
- 3521-3526' Limestone, white, oolitic, chalky in part; fair porosity, brown and golden brown stain, trace of free oil and faint odor.
- 3538-3546' Limestone, cream, white, oolitic, oomoldic porosity, brown and light brown stain, trace of free oil and questionable odor.
- 3556-3560' Limestone, gray, white, oolitic, poor to fair porosity, trace brown stain,

trace of free oil and no odor.

**Drill Stem Test #2** **3495-3560**

**Times:** 30-30-45-60

**Blow:** Strong (B.O.B. 1 min)  
**2<sup>nd</sup> Opening:** Strong gas to surface; T.S.T.M.

**Recovery:** 170' Heavily oil and gas mud  
(20% gas; 30% oil; 50% mud)

**Pressures:**

ISIP	569	psi
FSIP	536	psi
IFP	68-59	psi
FFP	81-93	psi
HSH	1730-1698	psi

3570-3580' Limestone, tan, gray oolitic, dense.

3589-3596' Limestone, tan, gray, oolitic, chalky, increasingly cherty, scattered pyrite inclusions, no shows.

**VIOLA SECTION**

3632-3640' Chert, white, orange, yellow, opaque, few boney, no shows.

3640-3674' Chert, white, gray, cream, boney, few semi tripolitic, fair to good brown and dark brown stain and saturation; trace of free oil and no odor.

**SIMPSON SECTION**

3680-3684' Sand; white, clean, sub-rounded; friable; trace brown stain and golden brown stain, show of free oil and no odor.

3694-3702' Sand; white, very fine grained; sub-rounded; fair sorting; trace poor stain, no free oil and no odor.

**ARBUCKLE SECTION**

3725-3734' Dolomite, tan, finely crystalline sucrosic, fair to good pinpoint type porosity, fair stain, and saturation, show of free oil and faint odor.

**Drill Stem Test #3** **33661-3734**

**Times:** 30-30-45-60

**Blow:** Good (B.O.B. 19 mins)  
**2<sup>nd</sup> Opening:** Good (B.O.B. 38 mins)

**Recovery:** 100' Clean oil

**400' Gassy muddy oil**

**Pressures: ISIP 1164 psi**  
**FSIP 1178 psi**  
**IFP 27-125 psi**  
**FFP 123-220 psi**  
**HSH 1848-1837 psi**

3734-3748' Dolomite, white, gray cream; fine and medium crystalline, good inter-crystalline to slightly vuggy type porosity, good dark brown stain and saturation, good show of free oil and fair odor, still carrying dolomite; as above.

**Drill Stem Test #4 3734-3748**

\*\*\*Misrun plugged tool and anchor\*\*\*

**Drill Stem Test #5 3734-3748**

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

**Blow: (B.O.B. 1 min)**  
**2<sup>nd</sup> Opening: Strong (B.O.B. 2 mins)**

**Recovery: 200' gas in pipe**  
**1035' gassy oil**  
**180' slightly oil cut water**  
**(5% oil; 95% water)**

**Pressures: ISIP 1211 psi**  
**FSIP 1213 psi**  
**IFP 112-503 psi**  
**FFP 515-740 psi**  
**HSH 1848-1837 psi**

3748-3760' Dolomite, gray, white, fine and medium crystalline, good inter-crystalline and vuggy type porosity, fair to good stain and saturation, fair to good show of free oil and good odor in fresh samples.

3760-3780' Dolomite, as above, gray, dark brown and black tarry stain; trace of free oil (fair black, tarry, dead appearing) and fair odor.

3780-3790' Dolomite, white, gray, fine and medium; few coarse crystalline, good inter-crystalline and vuggy type porosity, brown to dark brown to black stain and saturation, show of free oil (50% dead) and fair odor.

3790-3800' Dolomite, as above, trace of white boney chert.

3800-3805' Dolomite, white, fine crystalline, oomoldic, good oomoldic and vuggy type porosity; trace pyrite inclusions (barren).

3805-3810' Dolomite, as above, with white and cream; fine crystalline, sucrosic, dolomite (barren)

Mai Oil Operations, Inc.  
Abbound Trust Unit #1  
NE-NE-NW-NW (80' FNL & 1205' FWL)  
Section 30-21s-13w  
Stafford County, Kansas

Page 5

**Rotary Total Depth: 3810 (-1885)**

**Remarks:**

5 1/2" production casing was set and cemented on Mai Oil Operations, Inc.; Abbound Trust Unit #1.

James C Musgrove  
Petroleum Geologist



## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Abboud Trust Unit #1**

### **30-21s-13w Stafford KS**

Start Date: 2022.03.13 @ 08:20:00

End Date: 2022.03.13 @ 14:43:12

Job Ticket #: 68211                      DST #: 1

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

Printed: 2022.03.16 @ 16:58:09



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

**30-21s-13w Stafford KS**

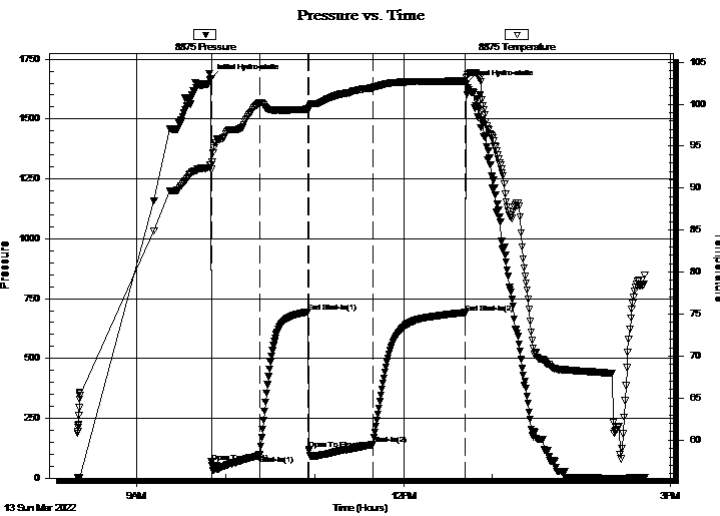
**Abboud Trust Unit #1**  
 Job Ticket: 68211 **DST#: 1**  
 Test Start: 2022.03.13 @ 08:20:00

## GENERAL INFORMATION:

Formation: **Lans**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:50:17  
 Time Test Ended: 14:43:12  
 Interval: **3406.00 ft (KB) To 3474.00 ft (KB) (TVD)**  
 Total Depth: 3474.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1922.00 ft (KB)  
 1915.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8875 Inside**  
 Press@RunDepth: 142.49 psig @ 3410.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.13 End Date: 2022.03.13 Last Calib.: 2022.03.13  
 Start Time: 08:20:01 End Time: 14:43:11 Time On Btm: 2022.03.13 @ 09:50:07  
 Time Off Btm: 2022.03.13 @ 12:42:07

**TEST COMMENT:** 30-IF-BOB 1 min Built to 436" GTS in 27 min  
 30-ISI-Surface Blow  
 45-ISI-BOB instantaneously GTS TSTM  
 60-FSI-Surface Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.19	92.72	Initial Hydro-static
1	67.85	92.26	Open To Flow (1)
33	93.95	100.17	Shut-In(1)
66	694.18	99.40	End Shut-In(1)
66	119.49	99.38	Open To Flow (2)
110	142.49	101.96	Shut-In(2)
172	691.06	102.78	End Shut-In(2)
172	1645.66	103.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	GWCMO 20%G 10%W 20%M 50%O	4.25
50.00	GHOCM 10%G m30%O 60%M	0.71
0.00	GTS	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68211

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2022.03.13 @ 08:20:00

## Tool Information

Drill Pipe:	Length: 3391.00 ft	Diameter: 3.82 inches	Volume: 48.07 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	43000.00 daN
Depth to Top Packer:	3406.00 ft			Final	44000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	95.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3380.00	
Shut In Tool	5.00			3385.00	
Hydraulic tool	5.00			3390.00	
Gap Sub	4.00			3394.00	
Safety Joint	3.00			3397.00	
Packer	5.00			3402.00	27.00 Bottom Of Top Packer
Packer	4.00			3406.00	
Stubb	1.00			3407.00	
Perforations	2.00			3409.00	
Change Over Sub	1.00			3410.00	
Recorder	0.00	6838	Inside	3410.00	
Recorder	0.00	8875	Inside	3410.00	
Drill Pipe	32.00			3442.00	
Change Over Sub	1.00			3443.00	
Perforations	28.00			3471.00	
Bullnose	3.00			3474.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68211

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2022.03.13 @ 08:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	GWCMO 20%G 10%W 20%M 50%O	4.253
50.00	GHOCM 10%G m30%O 60%M	0.709
0.00	GTS	0.000

Total Length: 350.00 ft      Total Volume: 4.962 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

RW=.141@56F

Serial #: 8875

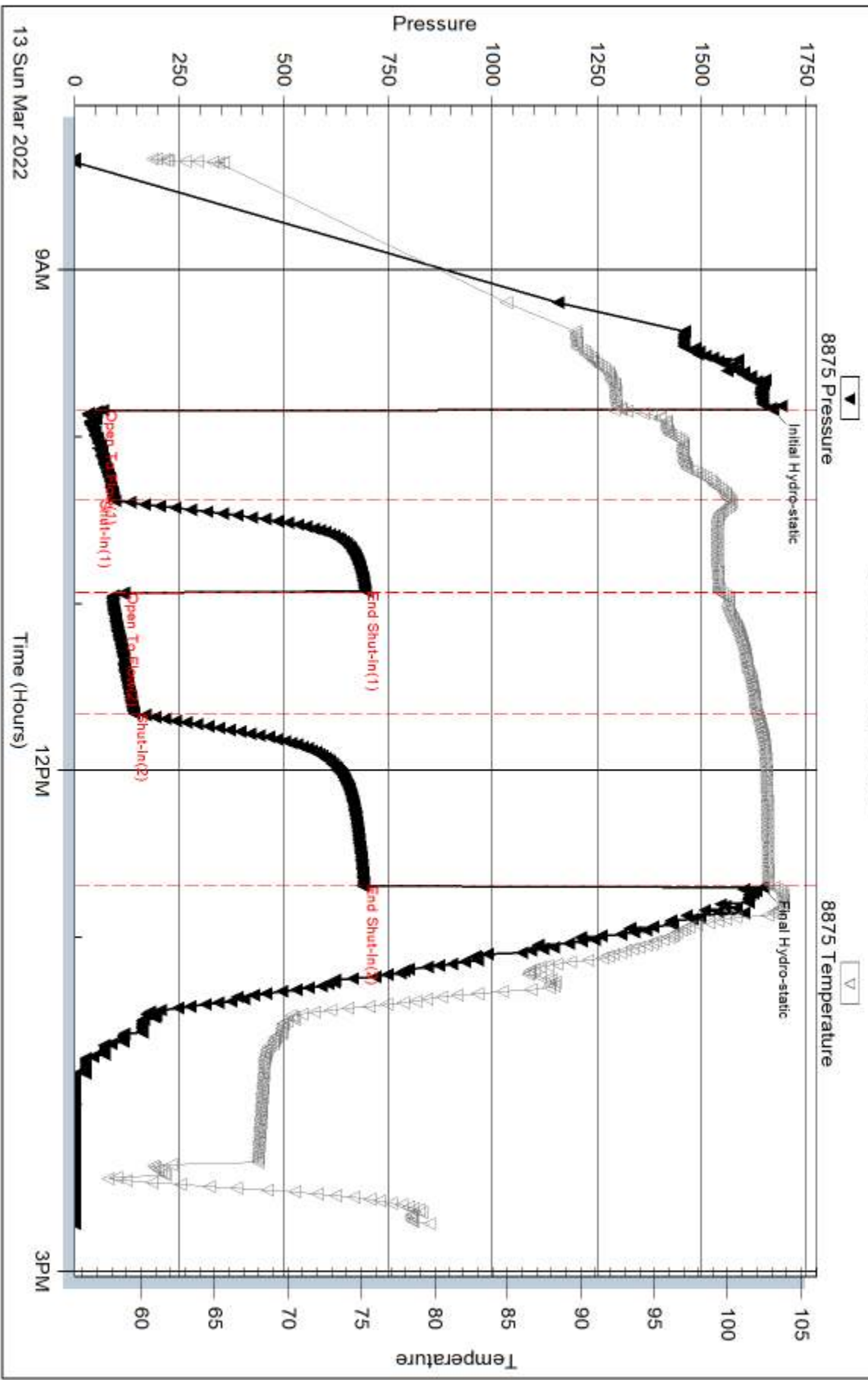
Inside

Mai Oil Operations

Aboud Trust Unit #1

DST Test Number: 1

### Pressure vs. Time



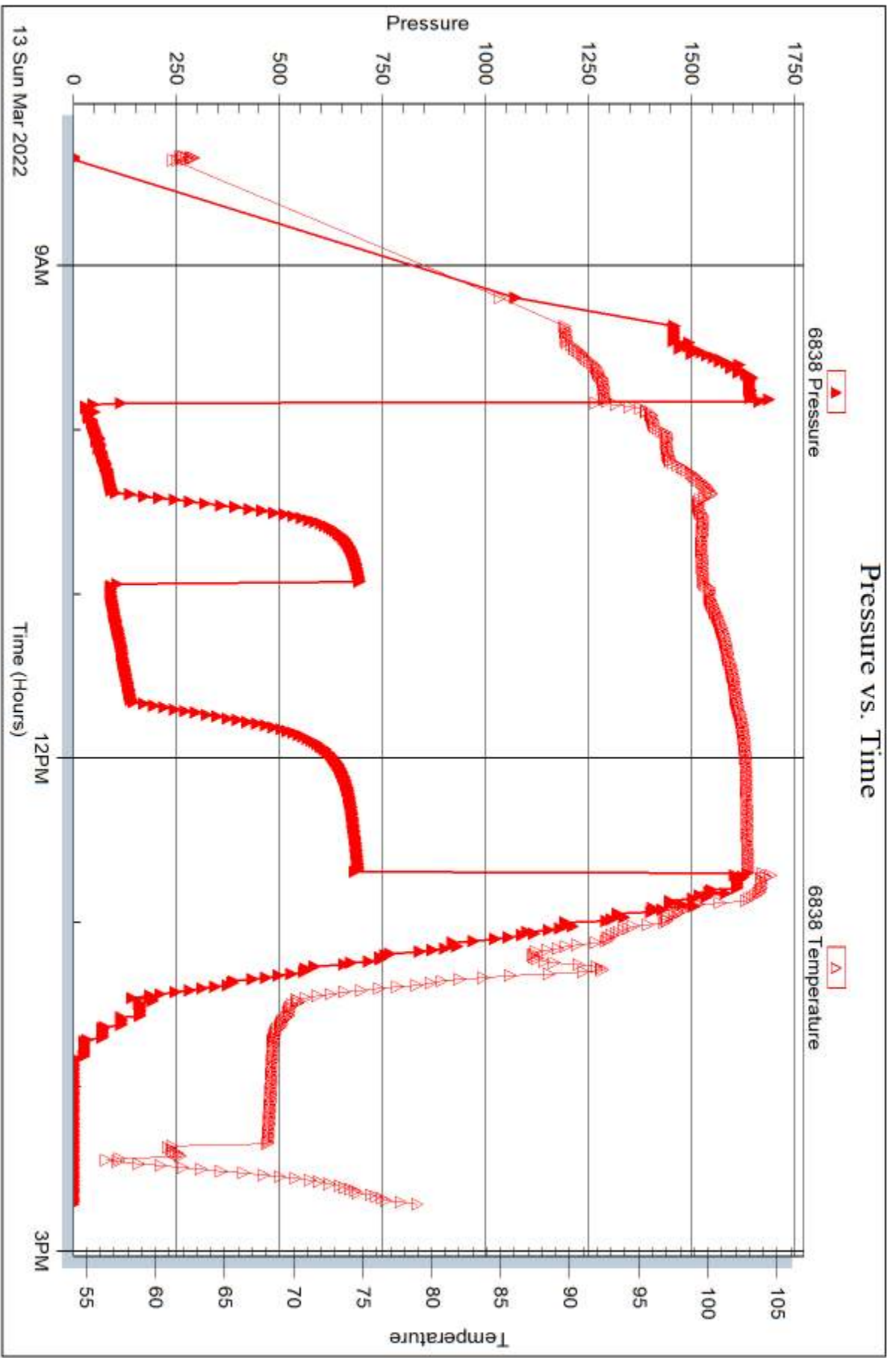
Serial #: 6838

Inside

Mai Oil Operations

Aboud Trust Unit #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Abboud Trust Unit #1**

### **30-21s-13w Stafford KS**

Start Date: 2022.03.14 @ 02:20:00

End Date: 2022.03.14 @ 08:17:12

Job Ticket #: 68212                      DST #: 2

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

Printed: 2022.03.16 @ 16:57:06



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Jim Musgrove

**30-21s-13w Stafford KS**

**Abboud Trust Unit #1**

Job Ticket: 68212 **DST#: 2**

Test Start: 2022.03.14 @ 02:20:00

## GENERAL INFORMATION:

Formation: **Lans**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:00:47  
 Time Test Ended: 08:17:12  
 Interval: **3495.00 ft (KB) To 3560.00 ft (KB) (TVD)**  
 Total Depth: 3560.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J Staab  
 Unit No: 84  
 Reference Elevations: 1922.00 ft (KB)  
 1915.00 ft (CF)  
 KB to GR/CF: 7.00 ft

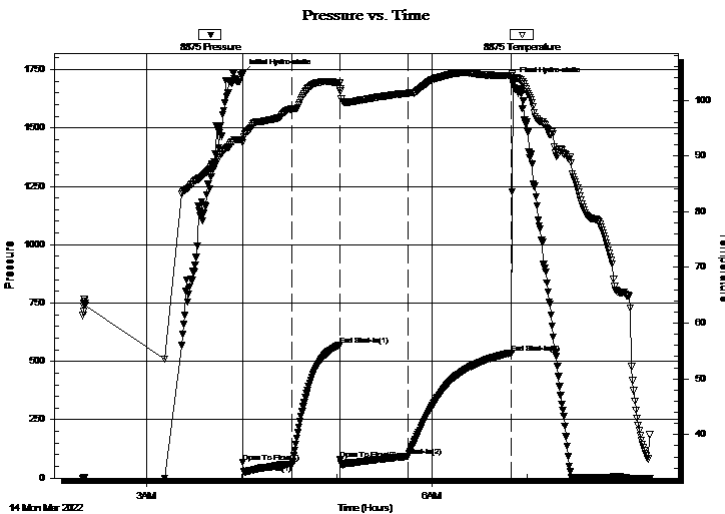
## Serial #: 8875

Inside

Press@RunDepth: 93.61 psig @ 3499.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.14 End Date: 2022.03.14 Last Calib.: 2022.03.14  
 Start Time: 02:20:01 End Time: 08:17:11 Time On Btm: 2022.03.14 @ 04:00:37  
 Time Off Btm: 2022.03.14 @ 06:50:37

TEST COMMENT: 30-IF-BOB 1 min Built to 288"  
 30-ISI-No Return  
 45-FF-BOB Instantaneously GTS TSTM Built to 348"  
 60-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.88	92.86	Initial Hydro-static
1	68.35	92.42	Open To Flow (1)
32	59.95	98.41	Shut-In(1)
62	569.90	103.08	End Shut-In(1)
62	81.47	102.07	Open To Flow (2)
105	93.61	101.23	Shut-In(2)
170	536.85	104.35	End Shut-In(2)
170	1698.94	103.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
170.00	GHOCM 20%G 30%O 50%M	2.41

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68212

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2022.03.14 @ 02:20:00

## Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.82 inches	Volume: 49.42 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	58000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	44000.00 daN
Drill Pipe Above KB:	18.00 ft			Final	45000.00 daN
Depth to Top Packer:	3495.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	92.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3469.00	
Shut In Tool	5.00			3474.00	
Hydraulic tool	5.00			3479.00	
Gap Sub	4.00			3483.00	
Safety Joint	3.00			3486.00	
Packer	5.00			3491.00	27.00 Bottom Of Top Packer
Packer	4.00			3495.00	
Stubb	1.00			3496.00	
Perforations	2.00			3498.00	
Change Over Sub	1.00			3499.00	
Recorder	0.00	6838	Inside	3499.00	
Recorder	0.00	8875	Inside	3499.00	
Drill Pipe	32.00			3531.00	
Change Over Sub	1.00			3532.00	
Perforations	25.00			3557.00	
Bullnose	3.00			3560.00	65.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>92.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68212

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2022.03.14 @ 02:20:00

### 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:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	GHOCM 20%G 30%O 50%M	2.410

Total Length: 170.00 ft      Total Volume: 2.410 bbl

Num Fluid Samples: 0

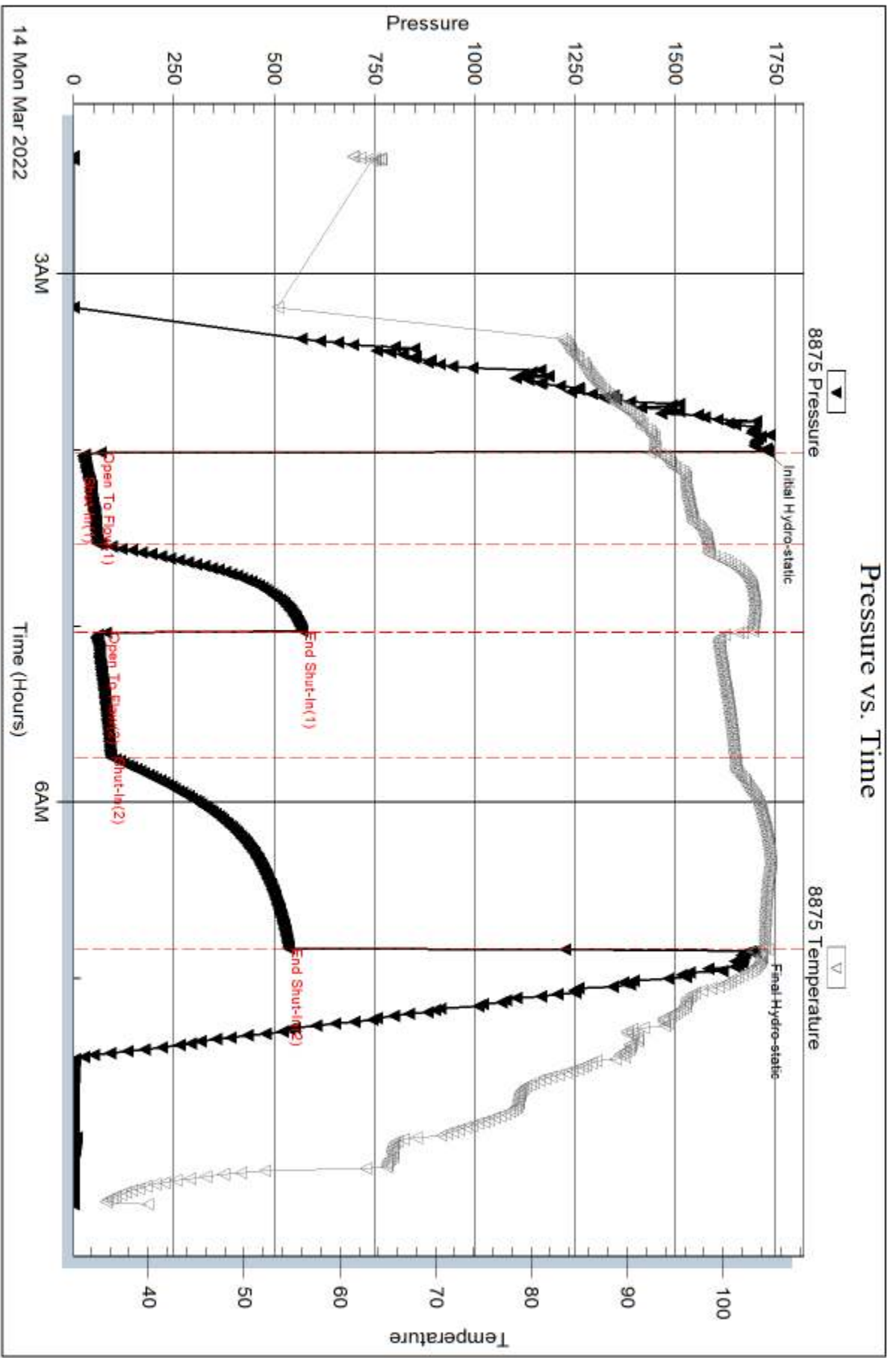
Num Gas Bombs: 0

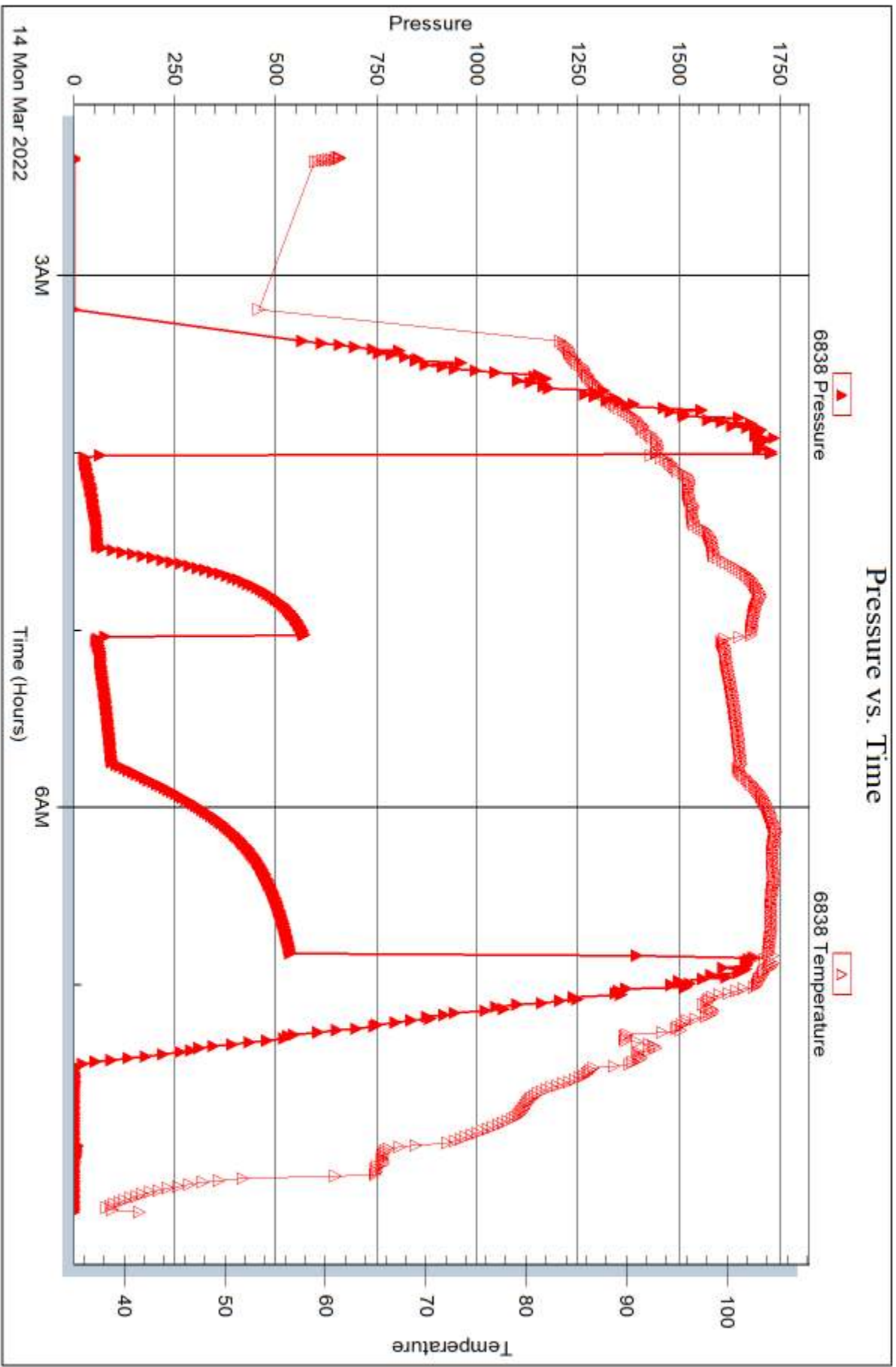
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1/2#LCM







## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Abboud Trust Unit #1**

### **30-21s-13w Stafford KS**

Start Date: 2022.03.15 @ 05:02:00

End Date: 2022.03.15 @ 11:18:32

Job Ticket #: 68213                      DST #: 3

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

Printed: 2022.03.16 @ 16:55:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**30-21s-13w Stafford KS**

**Abboud Trust Unit #1**  
Job Ticket: 68213 **DST#: 3**  
Test Start: 2022.03.15 @ 05:02:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:33:57  
Time Test Ended: 11:18:32  
Interval: **3661.00 ft (KB) To 3734.00 ft (KB) (TVD)**  
Total Depth: 3734.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1922.00 ft (KB)  
1915.00 ft (CF)  
KB to GR/CF: 7.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Spencer J Staab  
Unit No: 84

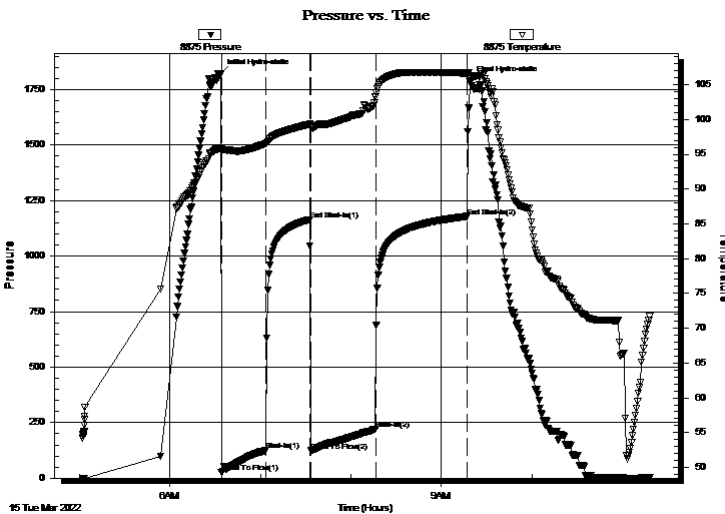
## Serial #: 8875

Inside

Press@RunDepth: 220.18 psig @ 3665.00 ft (KB) Capacity: psig  
Start Date: 2022.03.15 End Date: 2022.03.15 Last Calib.: 2022.03.15  
Start Time: 05:02:01 End Time: 11:18:32 Time On Btm: 2022.03.15 @ 06:33:32  
Time Off Btm: 2022.03.15 @ 09:18:52

TEST COMMENT: 30-IF-BOB 19 mins Built to 14"  
30-ISI-No Return  
45-FF-BOB 38" Built to 13"  
60-FSI-Surface Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.15	95.92	Initial Hydro-static
1	27.50	95.71	Open To Flow (1)
30	125.43	96.55	Shut-In(1)
59	1164.29	99.30	End Shut-In(1)
60	123.07	98.95	Open To Flow (2)
103	220.18	103.33	Shut-In(2)
164	1178.91	106.67	End Shut-In(2)
166	1788.51	106.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
400.00	GMO 30%G 30%M 40%O	5.67
100.00	GO 20%G 80%O	1.42
0.00	100 GIP 100%G	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**30-21s-13w Stafford KS**  
**Abboud Trust Unit #1**  
Job Ticket: 68213 **DST#: 3**  
Test Start: 2022.03.15 @ 05:02:00

## Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.82 inches	Volume: 51.66 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 daN
Depth to Top Packer:	3661.00 ft			Final	47000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	100.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3635.00	
Shut In Tool	5.00			3640.00	
Hydraulic tool	5.00			3645.00	
Gap Sub	4.00			3649.00	
Safety Joint	3.00			3652.00	
Packer	5.00			3657.00	27.00 Bottom Of Top Packer
Packer	4.00			3661.00	
Stubb	1.00			3662.00	
Perforations	2.00			3664.00	
Change Over Sub	1.00			3665.00	
Recorder	0.00	6838	Inside	3665.00	
Recorder	0.00	8875	Inside	3665.00	
Drill Pipe	63.00			3728.00	
Change Over Sub	1.00			3729.00	
Perforations	2.00			3731.00	
Bullnose	3.00			3734.00	73.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>100.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68213

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2022.03.15 @ 05:02:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	GMO 30%G 30%M 40%O	5.670
100.00	GO 20%G 80%O	1.418
0.00	100 GIP 100%G	0.000

Total Length: 500.00 ft

Total Volume: 7.088 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

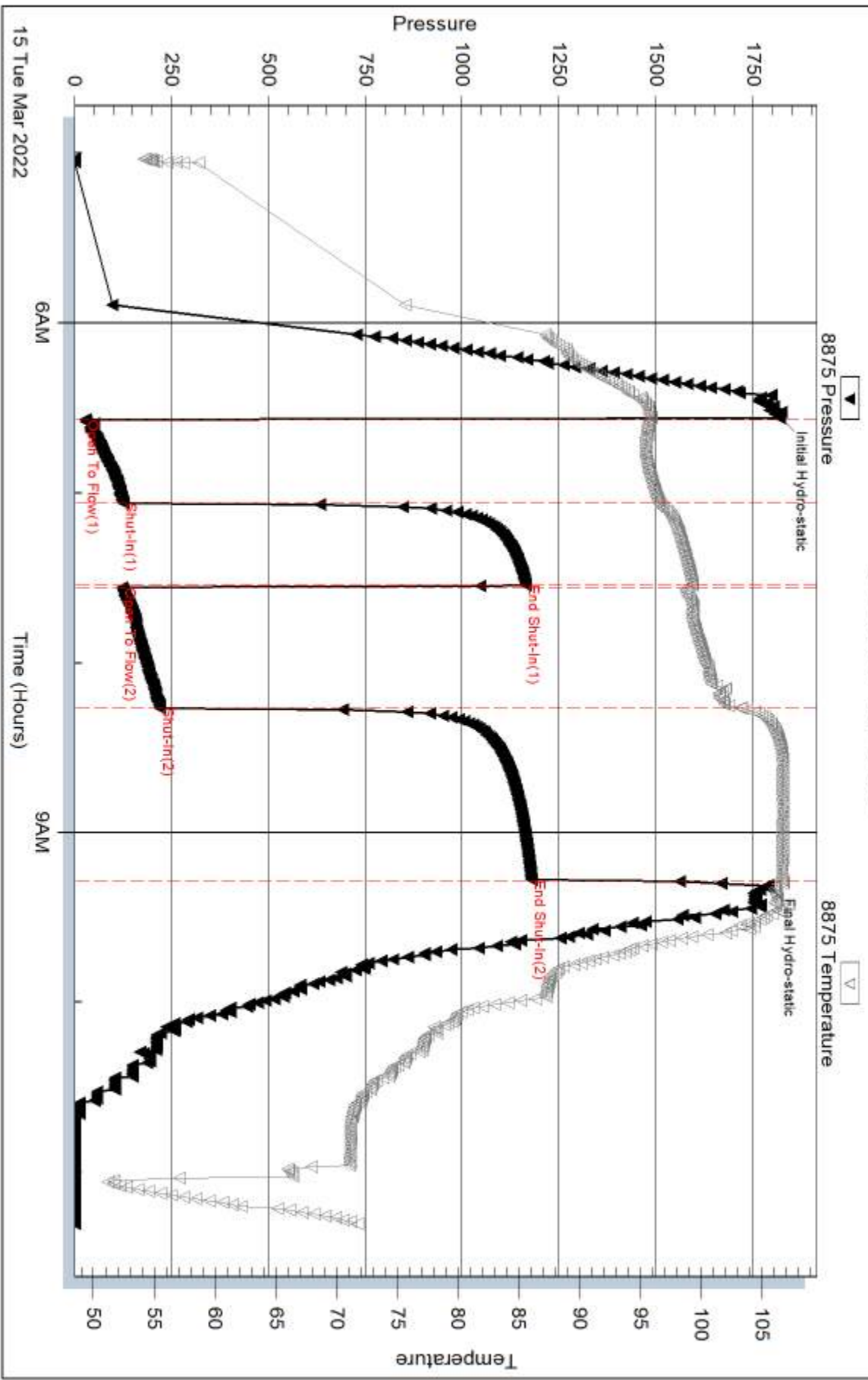
Laboratory Name:

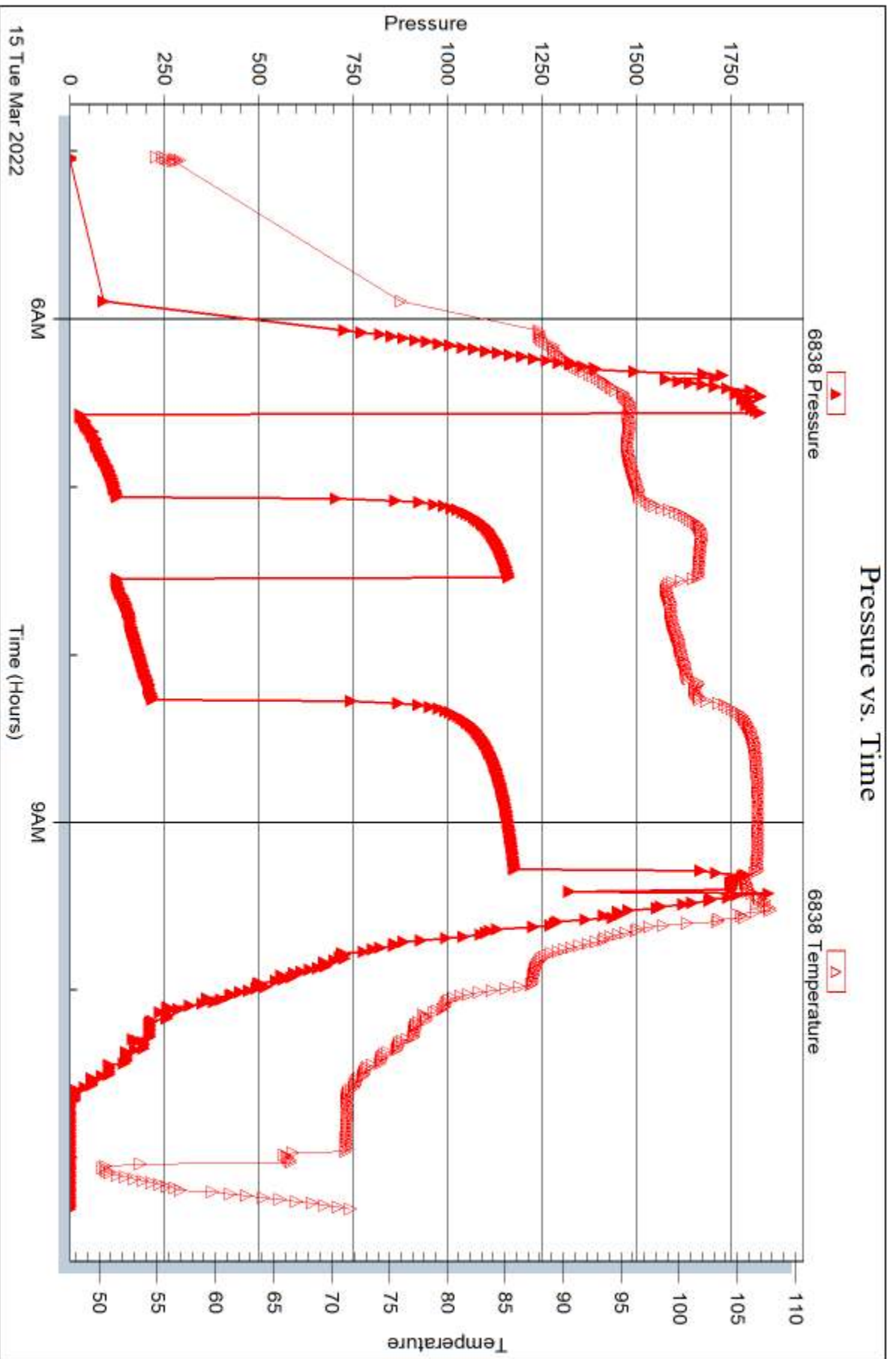
Laboratory Location:

Recovery Comments: 1/2#LCM



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Abboud Trust Unit #1**

### **30-21s-13w Stafford KS**

Start Date: 2022.03.15 @ 17:05:00

End Date: 2022.03.15 @ 21:18:57

Job Ticket #: 68214                      DST #: 4

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

Printed: 2022.03.16 @ 16:54:51







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**30-21s-13w Stafford KS**  
**Abboud Trust Unit #1**  
Job Ticket: 68214 **DST#: 4**  
Test Start: 2022.03.15 @ 17:05:00

## Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.82 inches	Volume: 53.00 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	100000.0 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	45000.00 daN
Drill Pipe Above KB:	32.00 ft			Final	52000.00 daN
Depth to Top Packer:	3734.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3708.00	
Shut In Tool	5.00			3713.00	
Hydraulic tool	5.00			3718.00	
Gap Sub	4.00			3722.00	
Safety Joint	3.00			3725.00	
Packer	5.00			3730.00	27.00 Bottom Of Top Packer
Packer	4.00			3734.00	
Stubb	1.00			3735.00	
Recorder	0.00	6838	Inside	3735.00	
Recorder	0.00	8875	Outside	3735.00	
Perforations	10.00			3745.00	
Bullnose	3.00			3748.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68214

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2022.03.15 @ 17:05:00

### 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	Mud 100%M	7.088

Total Length: 500.00 ft      Total Volume: 7.088 bbl

Num Fluid Samples: 0

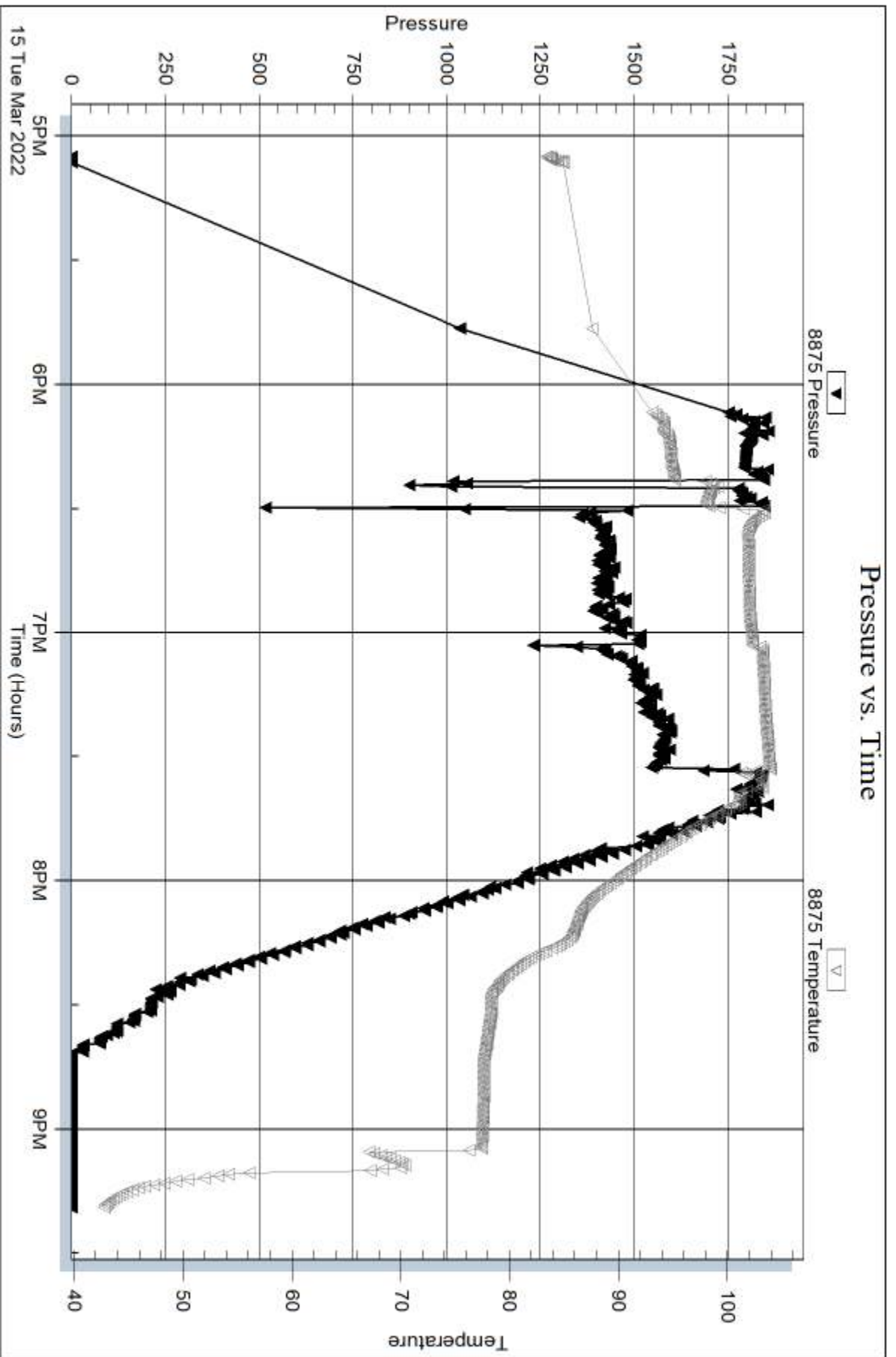
Num Gas Bombs: 0

Serial #:

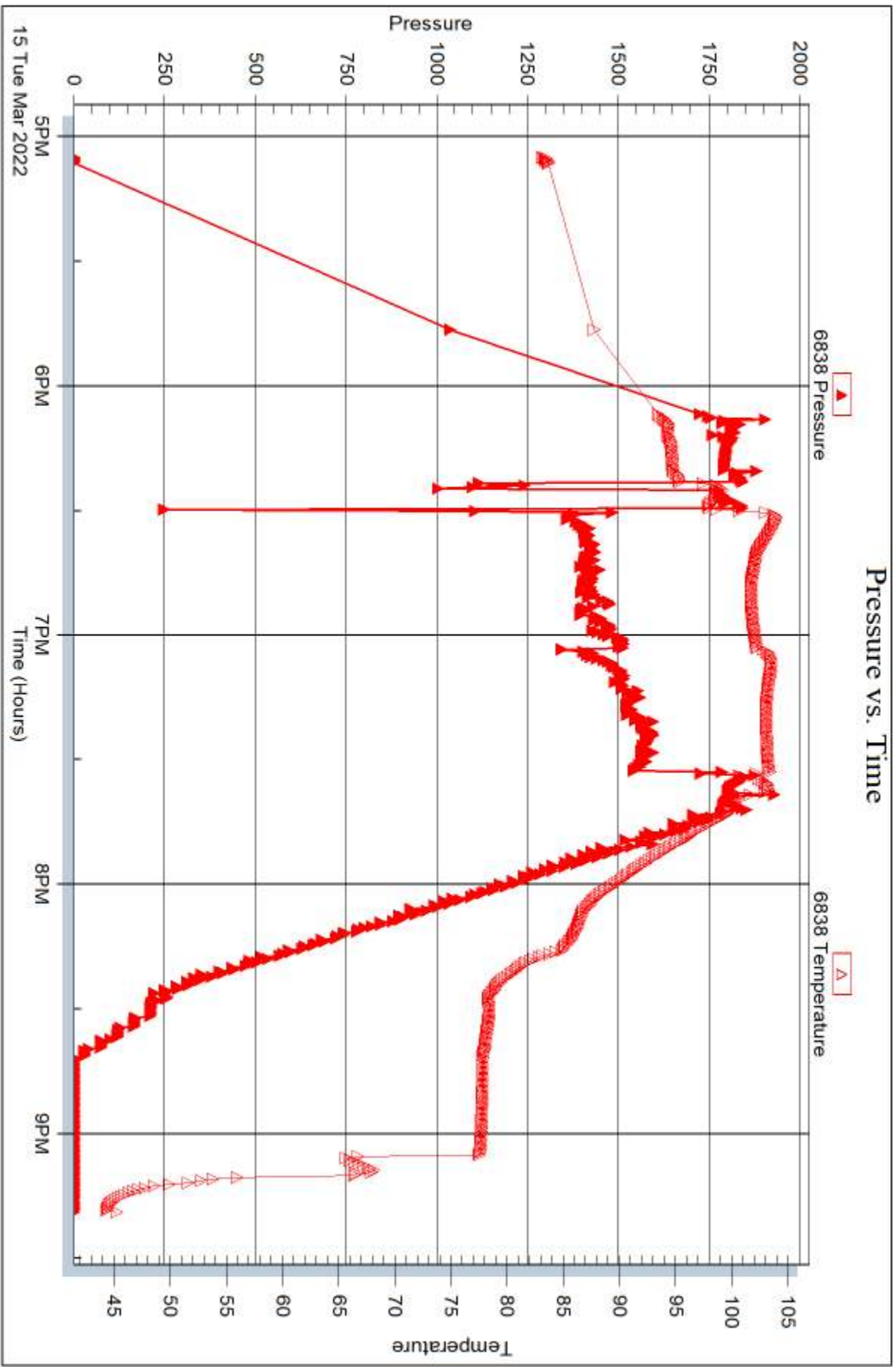
Laboratory Name:

Laboratory Location:

Recovery Comments: 1/2#LCM









## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Jim Musgrove

### **Abboud Trust Unit #1**

### **30-21s-13w Stafford KS**

Start Date: 2022.03.16 @ 01:55:00

End Date: 2022.03.16 @ 08:13:32

Job Ticket #: 68215                      DST #: 5

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

Printed: 2022.03.16 @ 16:54:21







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Jim Musgrove

**30-21s-13w Stafford KS**  
**Abboud Trust Unit #1**  
Job Ticket: 68215 **DST#: 5**  
Test Start: 2022.03.16 @ 01:55:00

## Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.82 inches	Volume: 53.00 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	45000.00 daN
Drill Pipe Above KB:	32.00 ft			Final	52000.00 daN
Depth to Top Packer:	3734.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	1	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
Change Over Sub	1.00			3708.00	
Shut In Tool	5.00			3713.00	
Hydraulic tool	5.00			3718.00	
Gap Sub	4.00			3722.00	
Safety Joint	3.00			3725.00	
Packer	5.00			3730.00	27.00 Bottom Of Top Packer
Packer	4.00			3734.00	
Stubb	1.00			3735.00	
Recorder	0.00	6838	Inside	3735.00	
Recorder	0.00	8875	Outside	3735.00	
Perforations	10.00			3745.00	
Bullnose	3.00			3748.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations

**30-21s-13w Stafford KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Abboud Trust Unit #1**

Job Ticket: 68215

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2022.03.16 @ 01:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	Water 100%W	7.088
180.00	SOCW 5%O 95%W	2.552
1035.00	GO 30%G 70%O	14.672
0.00	200 GIP 100%G	0.000

Total Length: 1715.00 ft

Total Volume: 24.312 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

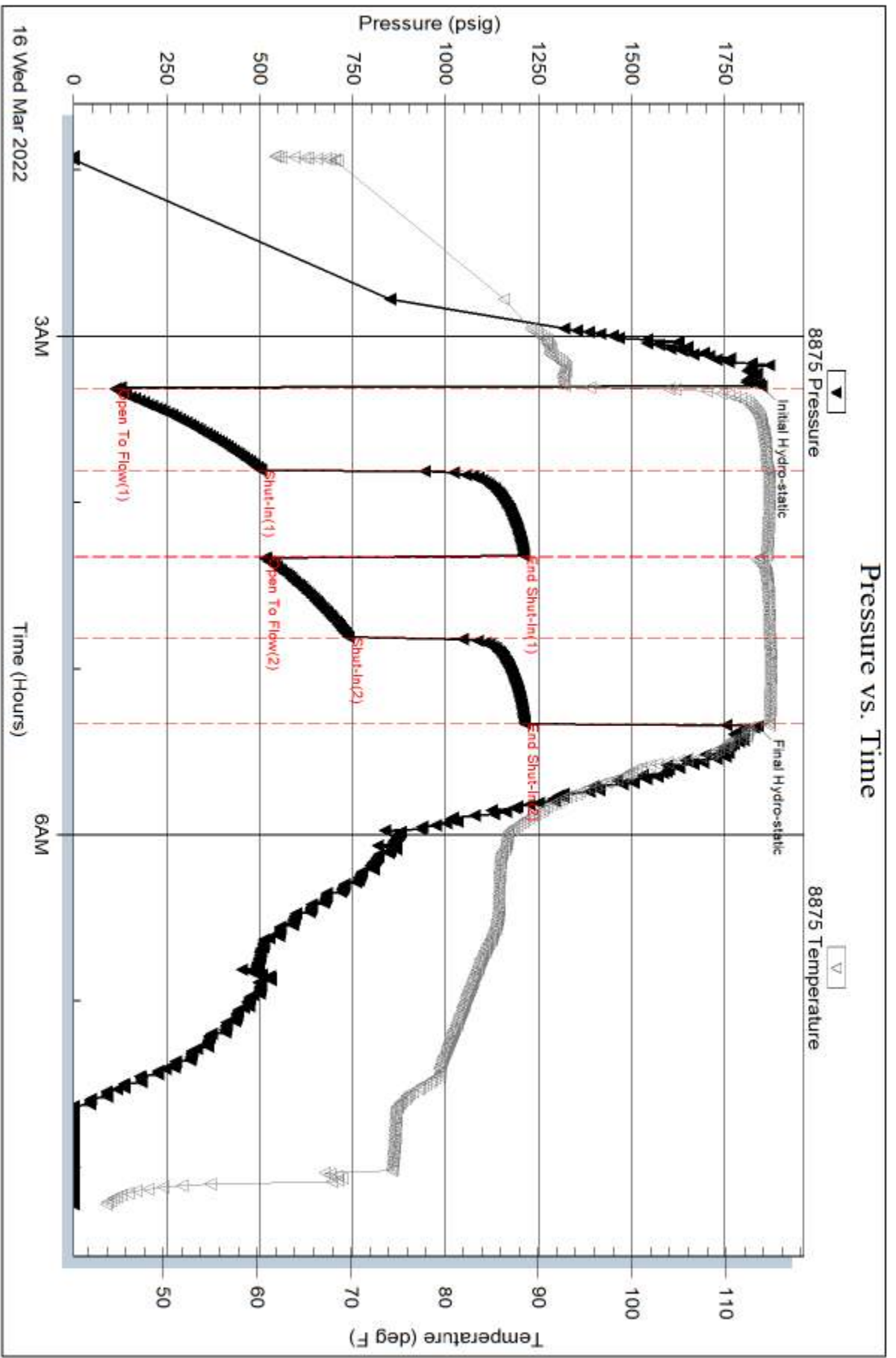
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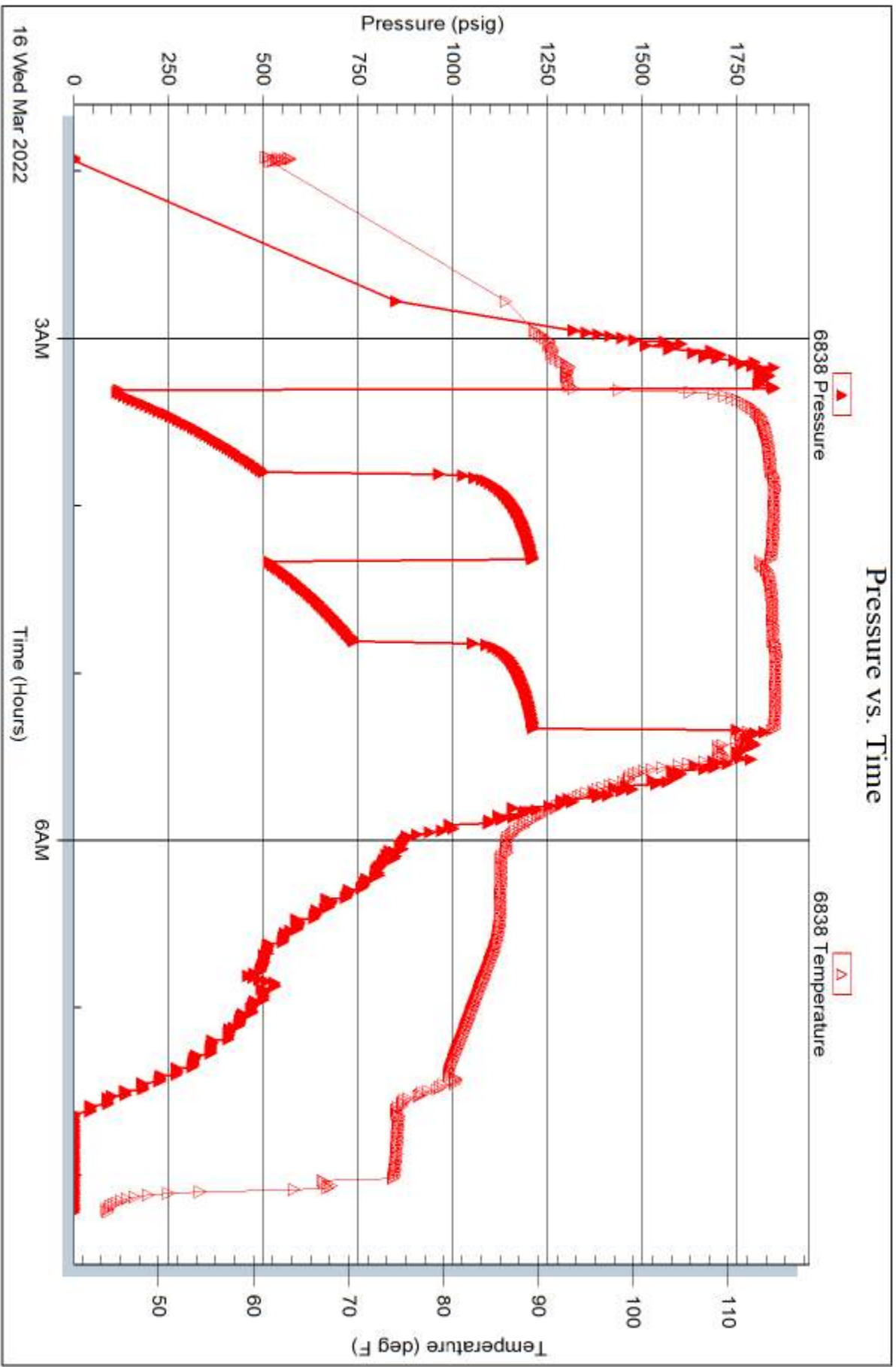
Laboratory Name:

Laboratory Location:

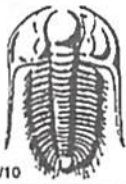
Recovery Comments: 1/2#LCM

RW=.407@40









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68211

Well Name & No. Alford Trust Unit #1 Test No. 1 Date 03/13/2022  
 Company Main Oil Operations Elevation 1922 KB 1915 GL  
 Address 5411 Preston Rd STE 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #1  
 Location: Sec. 30 Twp 21s Rge. 13w Co. Stafford State Ks

Interval Tested 3406' - 3474' Zone Tested Lans  
 Anchor Length 68' Drill Pipe Run 3391' Mud Wt. 8.7  
 Top Packer Depth 3401' Drill Collars Run — Vis 62  
 Bottom Packer Depth 3406' Wt. Pipe Run — WL 8.8  
 Total Depth 3474' Chlorides 4000 ppm System LCM #

Blow Description 27-BOB 1min; Built to 436"; GTS 27mins  
JSI-Surface Blow  
77-BOB Instantaneously; 27.5 75 79M  
78-Surface Blow

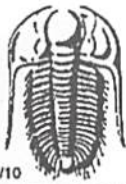
Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>GWCMO</u>	<u>20</u>	<u>50</u>	<u>10</u>	<u>20</u>
<u>50</u>	<u>GHOCM</u>	<u>10</u>	<u>30</u>		<u>60</u>

Rec Total 350' BHT 102° Gravity 35° API RW 141 @ 56 °F Chlorides 70,000 ppm

(A) Initial Hydrostatic <u>1669</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>07:10</u>
(B) First Initial Flow <u>67</u>	<input type="checkbox"/> Jars	T-Started <u>08:40</u>
(C) First Final Flow <u>93</u>	<input type="checkbox"/> Safety Joint	T-Open <u>09:50</u>
(D) Initial Shut-In <u>694</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:35</u>
(E) Second Initial Flow <u>119</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>142</u>	<input checked="" type="checkbox"/> Mileage <u>8027</u> 100	Comments
(G) Final Shut-In <u>691</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1645</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>1750</u>
	Sub Total <u>1400</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature] 785-289-0038  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68212**

Well Name & No. Abbaud Trust Unit #1 Test No. 2 Date 03/14/2022  
 Company Mai Oil Operations Elevation 1925 KB 1915 GL  
 Address 8411 Preston Rd STE 800 Dallas TX 75225+5520  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #1  
 Location: Sec. 30 Twp 214 Rge. 13w Co. Stafford State Ks

Interval Tested 3495' - 3560' Zone Tested Lans  
 Anchor Length 65' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 3490' Drill Collars Run - Vis 45  
 Bottom Packer Depth 3495' Wt. Pipe Run - WL 8.8  
 Total Depth 3560' Chlorides 6000 ppm System LCM 1/2#

Blow Description 77- BOB 1min; Built to 238"  
75D- No Return  
77- BOB Instantaneously; GTS TSTM; Built to 348"  
78D- No Return

Rec	Feet of	%gas	%oil	%water	%mud
170'	GHOEM	20	30		50
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

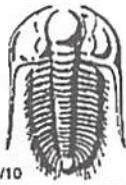
Rec Total 170' BHT 104° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1730</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>02:00</u>
(B) First Initial Flow <u>68</u>	<input type="checkbox"/> Jars _____	T-Started <u>02:20</u>
(C) First Final Flow <u>59</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>04:03</u>
(D) Initial Shut-In <u>569</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>06:48</u>
(E) Second Initial Flow <u>81</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>08:20</u>
(F) Second Final Flow <u>93</u>	<input checked="" type="checkbox"/> Mileage <u>8027</u> 100	Comments _____
(G) Final Shut-In <u>536</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1698</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1400</u>
	Sub Total <u>1400</u>	MP/DST Disc't _____

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

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

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68213

Well Name & No. Alboud Trust Unit #1 Test No. 3 Date 03/15/2022  
 Company Main Oil Operations Elevation 1925 KB 1915 GL  
 Address 8411 Preston Rd STE 800 Dallas Tx 75225 +5320  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #1  
 Location: Sec. 30 Twp 21s Rge. 13w Co. Stafford State KS

Interval Tested 3661' - 3734' Zone Tested Arbuckle  
 Anchor Length 73' Drill Pipe Run 3644' Mud Wt. 9.3  
 Top Packer Depth 3656' Drill Collars Run - Vis 47  
 Bottom Packer Depth 3661' Wt. Pipe Run - WL 8.8  
 Total Depth 3734 Chlorides 8500 ppm System LCM 1/2#

Blow Description 77-BOB 19 mins; Built to 14"  
75d - No Return  
77-BOB 38 mins; Built to 13"  
75d - Surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>GMD</u>	<u>30</u>	<u>40</u>	<u>30</u>	<u>0</u>
<u>100'</u>	<u>GO</u>	<u>20</u>	<u>80</u>	<u>0</u>	<u>0</u>
<u>100'</u>	<u>GZP</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>

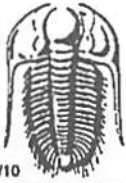
Rec Total 500' BHT 106° Gravity 25° API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic 1820  Test 1300 T-On Location 04:20  
 (B) First Initial Flow 27  Jars \_\_\_\_\_ T-Started 05:02  
 (C) First Final Flow 125  Safety Joint \_\_\_\_\_ T-Open 06:31  
 (D) Initial Shut-In 1164  Circ Sub \_\_\_\_\_ T-Pulled 09:16  
 (E) Second Initial Flow 123  Hourly Standby \_\_\_\_\_ T-Out 11:18  
 (F) Second Final Flow 220  Mileage 80R7 100 \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 1178  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1788  Straddle \_\_\_\_\_  EM Tool 350 NS  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1400  
 Sub Total 1400 MP/DST Disc't \_\_\_\_\_

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

Approved By \_\_\_\_\_ Our Representative JJ Head Thanks!  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68214

Well Name & No. Albion #rust Unit #1 Test No. 4 Date 03/15/2022  
 Company Main Oil Operations Elevation 1922 KB 1915 GL  
 Address 8411 Preston Rd S7E 800 Dallas TX 75225+5520  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #1  
 Location: Sec. 30 Twp 21S Rge. 13W Co. Stafford State KS

Interval Tested 3734'-3748' Zone Tested Arbuckle  
 Anchor Length 14' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3729' Drill Collars Run - Vis 46  
 Bottom Packer Depth 3734' Wt. Pipe Run - WL 8.8  
 Total Depth 3748' Chlorides 3500 ppm System LCM 1/2#

Blow Description 7- Tagged 10' high, tried to slide losing mud, reset, slid slowly (5 min)  
~~250-~~ packer held but lost a lot of mud, 1/2" blow; Diesel  
~~77-~~ Packers failed for moment on ISI Pulled tool  
~~450-~~

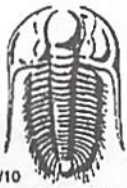
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1050 T-On Location 16:30  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 17:05  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 18:30  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 19:30  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 21:16  
 (F) Second Final Flow \_\_\_\_\_  Mileage 8027 100 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  EM Tool 350 NS  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1150  
 Final Flow -  Accessibility \_\_\_\_\_  
 Final Shut-In - Sub Total 1150 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature] Thanks!  
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785-259-0056



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68215**

Well Name & No. Albion Trust Unit #1 Test No. 5 Date 03/16/2022  
 Company Mai Oil Operations Elevation 1922 KB 1915 GL  
 Address 8411 Preston Rd STE 800 Dallas TX 75225-5520  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #1  
 Location: Sec. 30 Twp 214 Rge. 13w Co. Stafford State KS

Interval Tested 3734'-3748' Zone Tested Arbuckle  
 Anchor Length 14' Drill Pipe Run 3739' Mud Wt. 9.3  
 Top Packer Depth 3729' Drill Collars Run — Vis 46  
 Bottom Packer Depth 3734' Wt. Pipe Run — WL 8.8  
 Total Depth 3748' Chlorides 5500 ppm System LCM 1/2#

Blow Description 27-BOB 1 min; Built to 117"  
DSD-Surface  
77-BOB 2 mins; Built to 67"  
78-Surface to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
500	Water		100		
180'	SOCLW	5	95		
1035'	GO	30	70		
	200 GTP	100			

Rec Total 1715' BHT 114° Gravity 24° API RW 907 @ 40 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1848  Test 1300 T-On Location 01:30  
 (B) First Initial Flow 112  Jars T-Started 01:55  
 (C) First Final Flow 503  Safety Joint T-Open 03:15  
 (D) Initial Shut-In 1211  Circ Sub T-Pulled 05:15  
 (E) Second Initial Flow 515  Hourly Standby T-Out 08:11  
 (F) Second Final Flow 740  Mileage 80R7 100 Comments loaded after test  
 (G) Final Shut-In 1213  Sampler  
 (H) Final Hydrostatic 1837  Straddle  EM Tool 350 NS

Initial Open 30  Shale Packer  Ruined Shale Packer  
 Initial Shut-In 30  Extra Packer  Ruined Packer  
 Final Flow 30  Extra Recorder  Extra Copies  
 Final Shut-In 30  Day Standby Sub Total 0  
 Accessibility Total 1400  
 Sub Total 1400 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative J.A. [Signature] Thanks  
 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.

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