

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	ALAN UNIT 1-26
Doc ID	1354658

All Electric Logs Run

CDL/CNL/PE
MEL
SONIC
DIL

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	ALAN UNIT 1-26
Doc ID	1354658

Tops

Name	Top	Datum
Anhydrite	2521	+ 833
B/Anhydrite	2540	+ 814
Topeka	3744	- 420
Heebner	3985	- 631
Lansing	4031	- 677
Stark	4310	- 956
B/KC	4402	- 1048
Marmaton	4416	- 1060
Pawnee	4552	- 1198
Ft. Scott	4592	- 1238
Cherokee	4620	- 1266
Morrow Shale	4778	- 1424
Morrow Sand	4823	- 1469
Mississippian	4858	- 1504
Mississippian Poro	4906	- 1552

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	ALAN UNIT 1-26
Doc ID	1354658

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4466' - 4470'	250 gal 15% MCA & 1000 gals NEFE	

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	ALAN UNIT 1-26
Doc ID	1354658

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	265	Common	185	3% cc, 2% gel
Surface	12.250	8.625	23	35	Surface Blend	65	None
Production	7.875	5.500	15.5	4963	SMD	400	150# Flocele
Production	7.875	5.500	15.5	4963	50/50 Poz	180	2% gel
Production	7.875	5.500	15.5	560	60/40 Poz	90	4% gel



CONSOLIDATED
Oil Well Services, LLC

7770/7672

TICKET NUMBER 51115
LOCATION Oakley KS
FOREMAN Jerry

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 809836 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-15-17	5659	Alan Unit 1-26	26	165	37W	Wichita
CUSTOMER						
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
1700 N. Waterfront Parkway, Bldg. 1200			753	Cory D		
CITY			566	Travis W		
STATE						
ZIP CODE						
Wichita						
KS						
67206						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 272 CASING SIZE & WEIGHT 8 5/8 23 #
 CASING DEPTH 270 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 16661 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on rig up on Duke 7 break circulation with rig crew
m³ x 185 sks surface blend #1 wash up dip with 16661 H₂O = 54' in
found cement in cellar

Jerry
Jerry

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0009	50	MILEAGE	7.2	360.00
CE0710	8.7	ton mileage delivery	175	1522.50
CC5871	185 sks	surface blend #1	23.00	4255.00
CE5326	100 #	Self	NC	NC
			Subtotal	6523.50
			-35% disc	2283.31
			Subtotal	4240.19
			SALES TAX	235.09
			ESTIMATED TOTAL	4475.53

Ravin 3737 AUTHORIZATION John D. French TITLE _____ DATE _____

I Received Time^{at} Mar. 16. 2017^{at} 7:23 AM^{at} No. 0796^{at} ally amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo



CONSOLIDATED
Oil Well Services, LLC

7781/1676

TICKET NUMBER 51116
LOCATION Coker KS
FOREMAN Jerry V

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 809848 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-16-17	5659	Alan 1-26	26	165	370	Wichita
CUSTOMER <u>Mull Drilling</u>			Leads No <u>F 1/2 W Nicks</u>			
MAILING ADDRESS <u>1700 N. Wakefront Parkway, Bldg. 1200</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u> STATE <u>KS</u> ZIP CODE <u>67206-6887</u>			<u>753</u>	<u>Cory D</u>		
			<u>1772-1181</u>	<u>Therese</u>		

JOB TYPE Surface 1" HOLE SIZE 12 1/4 HOLE DEPTH 32' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 6.24 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly meeting and up on Date 7 a 1" surface casing hole to surface with 65 sks surface bleed II

*Thank you
Jerry V*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0470	1	PUMP CHARGE	950 ⁰⁰	950 ⁰⁰
CE0002	50	MILEAGE	7 ⁵⁰	357 ⁵⁰
CE0761	2.82	ton mileage delivery min	660 ⁰⁰	660 ⁰⁰
CC5871	11786 65 sks	Surface bleed II	23 ⁰⁰	1495 ⁸⁰
			Subtotal	3462 ⁵⁰
			-35%	1211 ⁸⁸
			Subtotal	2250 ⁶²
			SALES TAX	82.60
			ESTIMATED TOTAL	\$ 2333 ²³

AVIN 9737 AUTHORIZATION [Signature] TITLE Foreman DATE _____



CHARGE TO: **MULL DRUG, G. INC**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 29975

PAGE 1 OF 2

SERVICE LOCATIONS
 1. **Ness City, KS** WELL/PROJECT NO. **1-26** LEASE **ALAN WATZ** COUNTY/PARISH **WICHITA** STATE **KS** CITY
 2. TICKET TYPE **CONTRACTOR** RIG NAME/NO. **DUKE DRUG #7** SHIPPED **YES** DELIVERED TO **LOCALTON** DATE **3-26-17** OWNER **SMYK**
 3. SERVICE SALES WELL TYPE **Oil** WELL CATEGORY **Development** JOB PURPOSE **5 1/2" horizontal top-bottom** WELL PERMIT NO.
 4. REFERRAL LOCATION **Development** INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #112	90	ME			5.00	450.00
579					Pump Upgrade - Top to Bottom	1	JOB	496.3	FT	1700.00	1700.00
221					LEADW RCL	2	EA			25.00	50.00
280					FLOODCHECK 21	1000	GA			3.00	3000.00
400					GUDGE SHOE	1	EA		5 1/2" X	180.00	180.00
402					CENTRALIZERS	10	EA			60.00	600.00
403					CEMENT BASKETS	2	EA			250.00	500.00
410					TOP PLUG	1	EA			90.00	90.00
413					REMOVE ALL SCREWS	0	EA			35.00	
415					INSERT FLOOR COLLAR W/FILL UP	1	EA			350.00	350.00
419					ROTATE THE HEAT RETARD	1	JOB			200.00	200.00

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

DATE SIGNED **3-26-17** TIME SIGNED **2:00** 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 #
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				6920100
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR **Wayne Wilson**

APPROVAL **Wayne Wilson**

Thank You!



PO Box 466

Ness City, KS 67560

Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER
MULL DALE C. INC.

WELL
AVAL WBT 1-26

TICKET
No. 29975

DATE
3-26-17

PAGE
2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT	
		LOC	ACCT			DF	QTY			U/M
327		1			50/50 Pozmax (2% Gal)	180	SKS	9.00	1620.00	
330		1			SWIFT WHITE DEASITY STANDARD	450	SKS	15.75	7087.50	
276		1			FLOCCEL	150	UBS	2.25	337.50	
283		1			SALT	850	UBS	20	17000	
286		1			HAARD-1	70	UBS	8.00	560.00	
290		1			D-ADR	10	GAL	42.00	420.00	
					SERVICE CHARGE		CUBIC FEET			
\$81		1			MILEAGE CHARGE		TON MILES	1.50	945.00	
\$83		1			TOTAL WEIGHT		LOADED MILES	75	2023.38	
					599.52		90			
					CONTINUATION TOTAL					13163.38

JOB LOG

SWIFT Services, Inc.

DATE 3-26-17 PAGE NO. 1

CUSTOMER Mull Drilling Co, Inc WELL NO. 1-26 LEASE ALAN UNET JOB TYPE TOP-BOTTOM 5/2" LONGSTRING TICKET NO. 29975

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2130							ON LOCATION
	2130							START 5/2" CASING IN WELL
								TD-5000 SET = 4963
								TP-4963 5/2" 15.5
								SJ-39'
								CENTRALIZERS- 3,4,5,7,10,11,12,13,15,56
								CMY BSRTS- 10,56
	0005							DROP BALL - CIRCULATE RELEASE
	0220	6	15		✓	400		PUMP SPACER - KCL
	0223	6	24		✓	400		PUMP FIDCHECK-21
	0227	6	5		✓	400		PUMP SPACER - KCL
	0235		7-5					MAX CEMENT - PLUG RH (30SKS) MHA (20SKS)
	0245	6 1/2	222		✓	250		MAX CEMENT - 400 SKS SMD @ 11.2 PPG
		4	42		✓	100		180 SKS 50/50 POZ @ 14.4 PPG
	0340							WASH OUT PUMP - LINES
	0340							RELEASE TOP PLUG
	0345	6	0		✓	0		DISPLACE PLUG (NO CIRCULATION AFTER 20 BBL)
		6	115			900		SHUT OFF ROTATING
	0405	5	117.2			1250		PLUG DOWN CIRCULATED 0 SKS CMY
	0410					OK		RELEASE PSE - HELD WASH TRUCK
	0500							JOB COMPLETE THANK YOU TED, WAYNE, DUSTY, PRESTON, JOHN J.



CHARGE TO: Mull Drilling
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 2989E

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City Ks WELL/PROJECT NO. A 1-26 LEASE Alan Unit COUNTY/PARISH Michita STATE Ks CITY Leoti DATE 4-10-17 OWNER Savage
 2. _____ TICKET TYPE CONTRACTOR RIG NAME/NO. #2 SHIPPED VIA CT DELIVERED TO Location ORDER NO. _____
 3. _____ WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Through 1" pipe WELL PERMIT NO. _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575												
576 S					Pump Charge							
328-4					60/40 Pozmix (4% Gel)							
290					D-Air							
581					Service Charge							
583					Drayage							

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

DATE SIGNED 4-10-17 TIME SIGNED 1645 P.M.

SWIFT OPERATOR David Kuehn APPROVAL Kim [Signature]

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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2831
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9072
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
TOTAL				2921

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR David Kuehn APPROVAL Kim [Signature]
 Thank You

JOB LOG

SWIFT Services, Inc.

DATE 4-10-17 PAGE NO.

CUSTOMER Mull Drilling WELL NO. # 1-26 LEASE Alan Unit JOB TYPE Cement 1" TICKET NO. 29895

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							on location
								1" @ 560
	1515	1	15	✓		400		circulate 1" down 5'
								Pull up
	1545	1	26	✓		250		mix 100 sks 60/40 4%
								circulate 10 sks to pit
								wash up truck
	1645							Job Complete

Thank You
Dave Preston Wayne



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Alan Unit #1-26

26-16s-37w Wichita,KS

Start Date: 2017.03.20 @ 04:53:22

End Date: 2017.03.20 @ 13:26:52

Job Ticket #: 65675 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.29 @ 10:47:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita, KS

Alan Unit #1-26

Job Ticket: 65675

DST#: 1

Test Start: 2017.03.20 @ 04:53:22

GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:42:52
 Time Test Ended: 13:26:52
 Interval: **4020.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3354.00 ft (KB)
 3344.00 ft (CF)
 KB to GR/CF: 10.00 ft

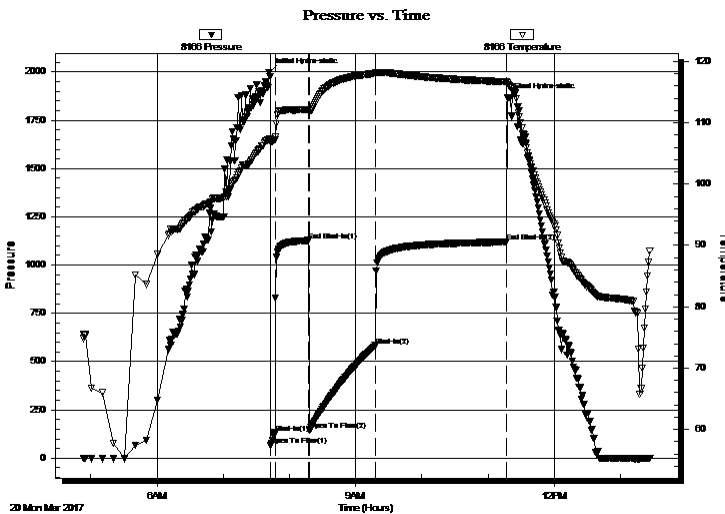
Serial #: 8166

Outside

Press@RunDepth: 582.19 psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.20 End Date: 2017.03.20 Last Calib.: 2017.03.20
 Start Time: 04:53:27 End Time: 13:26:52 Time On Btm: 2017.03.20 @ 07:41:22
 Time Off Btm: 2017.03.20 @ 11:17:22

TEST COMMENT: IF: BOB in 4 min.
 IS: No return.
 FF: BOB in 4 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.92	107.21	Initial Hydro-static
2	65.64	106.87	Open To Flow (1)
6	131.43	107.20	Shut-In(1)
36	1127.36	112.16	End Shut-In(1)
37	143.63	111.90	Open To Flow (2)
96	582.19	118.01	Shut-In(2)
215	1119.44	116.67	End Shut-In(2)
216	1865.53	116.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
930.00	mcw 95%w 5%m	11.39
325.00	mw 50%w 50%m	4.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita, KS

Alan Unit #1-26

Job Ticket: 65675

DST#: 1

Test Start: 2017.03.20 @ 04:53:22

GENERAL INFORMATION:

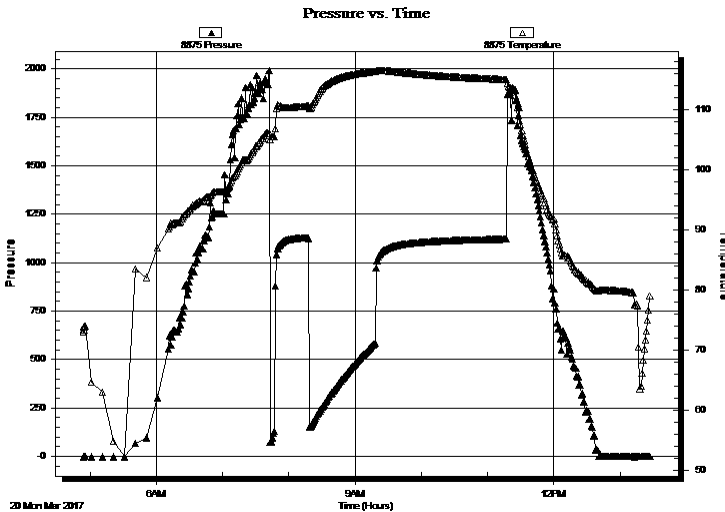
Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:42:52
 Time Test Ended: 13:26:52
 Interval: **4020.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3354.00 ft (KB)
 3344.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.20 End Date: 2017.03.20 Last Calib.: 2017.03.20
 Start Time: 04:54:00 End Time: 13:27:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 4 min.
 IS: No return.
 FF: BOB in 4 min.
 FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
930.00	mcw 95%w 5%m	11.39
325.00	mw 50%w 50%m	4.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 65675 **DST#: 1**
Test Start: 2017.03.20 @ 04:53:22

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 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: 30000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4020.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			3994.00	
Shut In Tool	5.00			3999.00	
Hydraulic tool	5.00			4004.00	
Jars	5.00			4009.00	
Safety Joint	2.00			4011.00	
Packer	5.00			4016.00	27.00 Bottom Of Top Packer
Packer	4.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	8875	Inside	4021.00	
Recorder	0.00	8166	Outside	4021.00	
Perforations	1.00			4022.00	
Change Over Sub	1.00			4023.00	
Drill Pipe	31.00			4054.00	
Change Over Sub	1.00			4055.00	
Bullnose	5.00			4060.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 65675 **DST#: 1**
Test Start: 2017.03.20 @ 04:53:22

Mud and Cushion Information

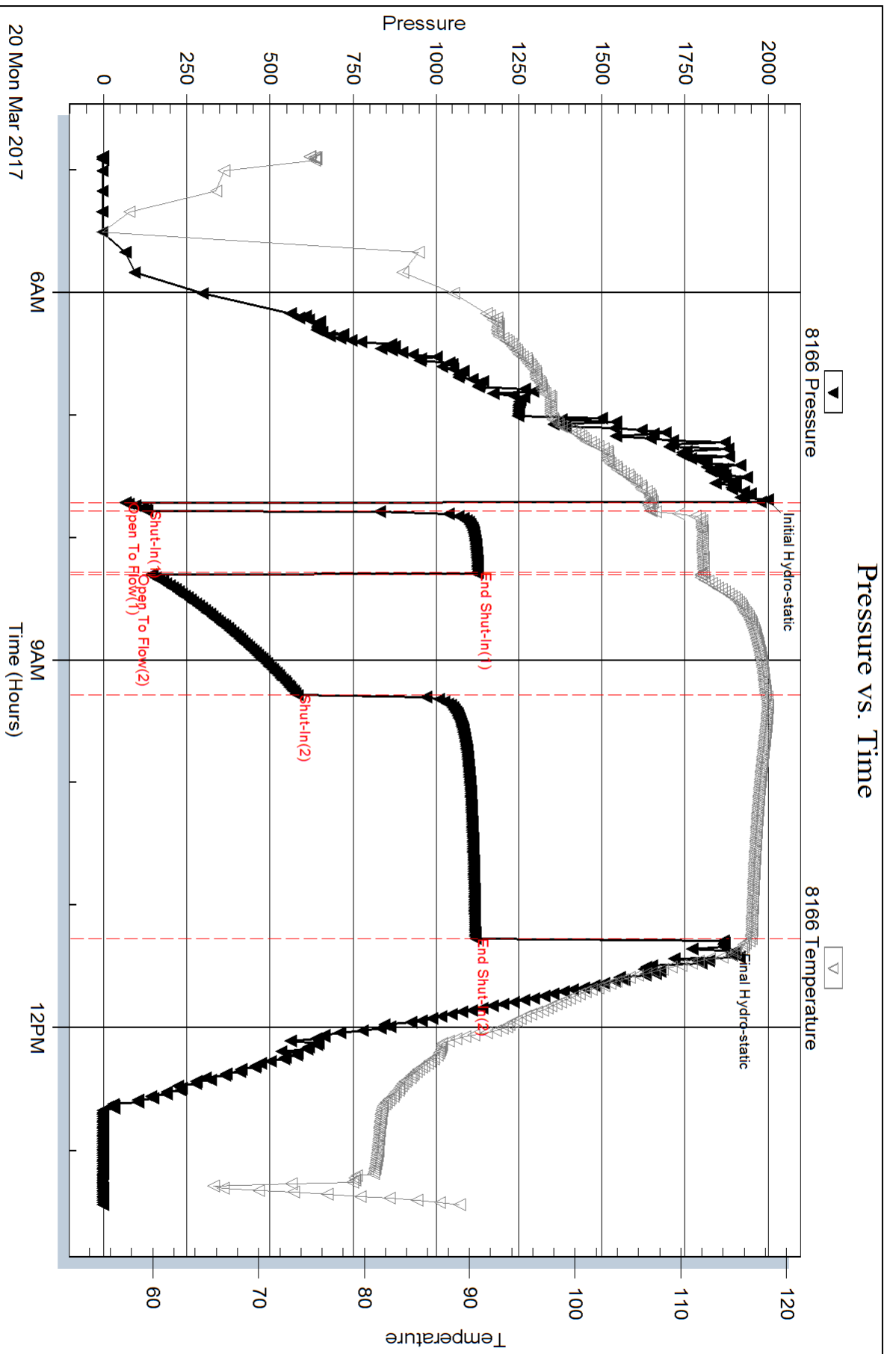
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 19000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.35 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
930.00	mcw 95%w 5%m	11.388
325.00	mw 50%w 50%m	4.559

Total Length: 1255.00 ft Total Volume: 15.947 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .27@81=19000



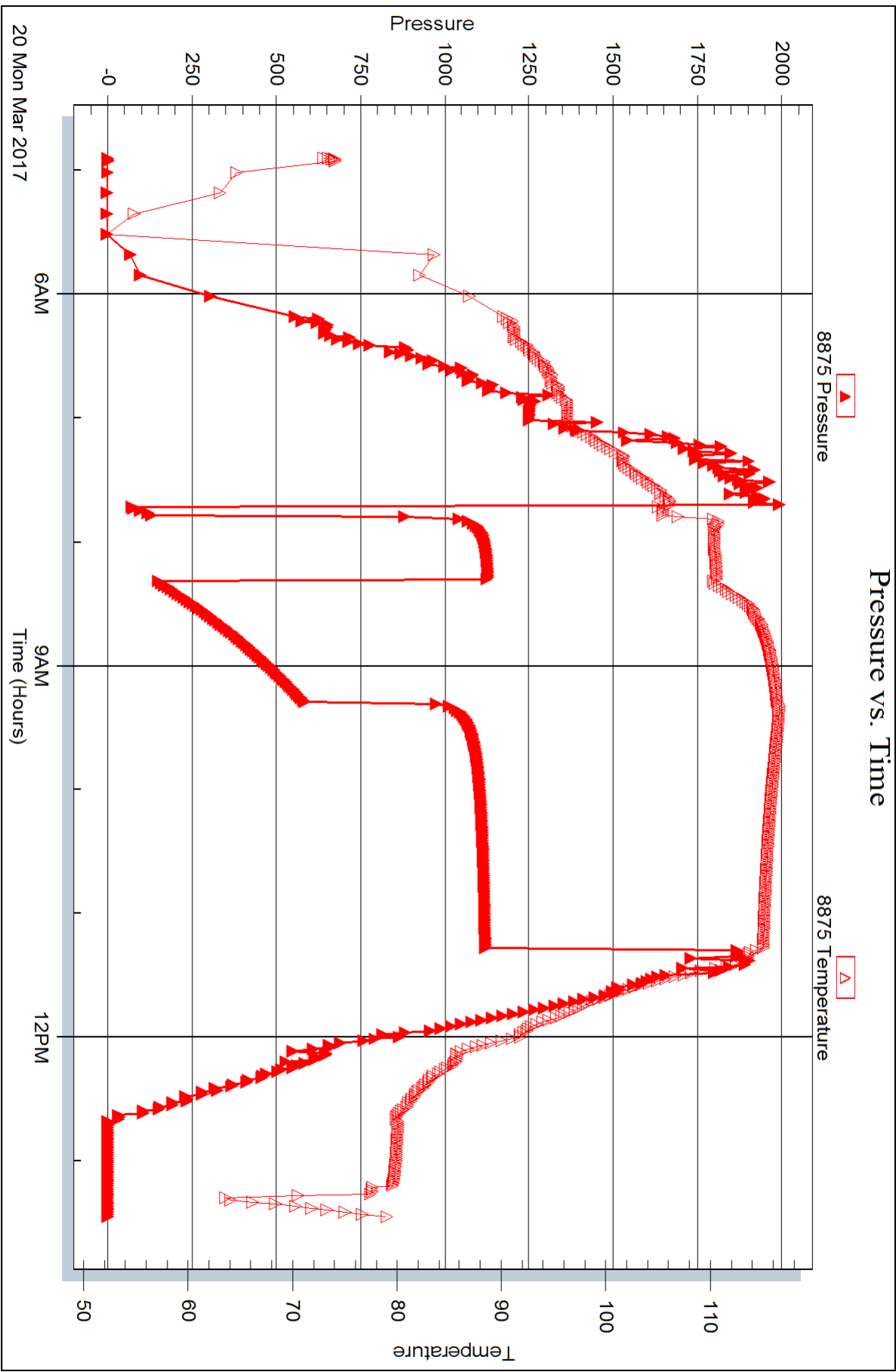
Serial #: 8875

Inside

Mull Drilling Co Inc

Alan Unit #1-26

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Alan Unit #1-26

26-16s-37w Wichita,KS

Start Date: 2017.03.20 @ 21:46:21

End Date: 2017.03.21 @ 06:25:51

Job Ticket #: 63776 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.29 @ 10:47:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkw y
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita,KS

Alan Unit #1-26

Job Ticket: 63776

DST#: 2

Test Start: 2017.03.20 @ 21:46:21

GENERAL INFORMATION:

Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:59:51
 Time Test Ended: 06:25:51
 Interval: **4050.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3354.00 ft (KB)
 3344.00 ft (CF)
 KB to GR/CF: 10.00 ft

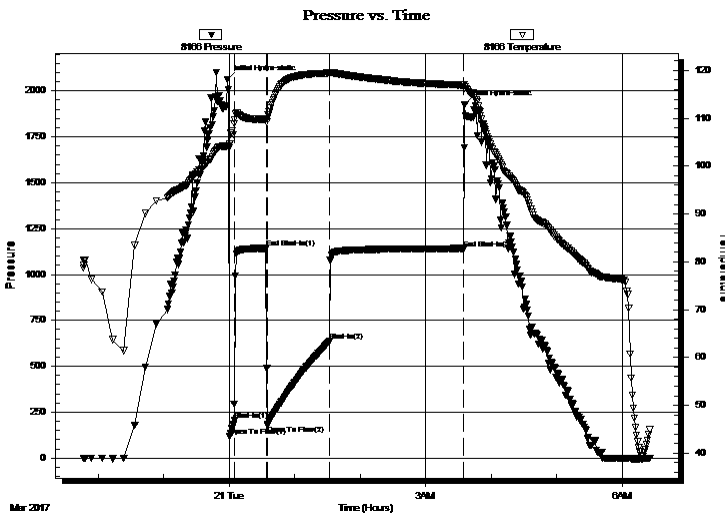
Serial #: 8166

Outside

Press@RunDepth: 634.41 psig @ 4051.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.20 End Date: 2017.03.21 Last Calib.: 2017.03.21
 Start Time: 21:46:26 End Time: 06:25:51 Time On Btm: 2017.03.20 @ 23:58:21
 Time Off Btm: 2017.03.21 @ 03:35:51

TEST COMMENT: IF: BOB in 4 min.
 IS: No return.
 FF: BOB in 4 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.15	104.31	Initial Hydro-static
2	116.21	103.92	Open To Flow (1)
7	203.39	109.69	Shut-In(1)
36	1142.43	109.80	End Shut-In(1)
37	176.15	109.95	Open To Flow (2)
94	634.41	119.43	Shut-In(2)
217	1141.05	116.92	End Shut-In(2)
218	1925.49	116.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 80%w 20%m	0.95
217.00	w cm 10%w 90%m	3.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 63776 **DST#: 2**
Test Start: 2017.03.20 @ 21:46:21

Tool Information

Drill Pipe:	Length: 3867.00 ft	Diameter: 3.80 inches	Volume: 54.24 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: 30000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4050.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Jars	5.00			4039.00	
Safety Joint	2.00			4041.00	
Packer	5.00			4046.00	27.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8875	Inside	4051.00	
Recorder	0.00	8166	Outside	4051.00	
Perforations	10.00			4061.00	
Change Over Sub	1.00			4062.00	
Drill Pipe	32.00			4094.00	
Change Over Sub	1.00			4095.00	
Bullnose	5.00			4100.00	50.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

26-16s-37w Wichita,KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Alan Unit #1-26

Job Ticket: 63776

DST#: 2

ATTN: Kevin Kessler

Test Start: 2017.03.20 @ 21:46:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw 80%w 20%m	0.951
217.00	w cm 10%w 90%m	3.044

Total Length: ft Total Volume: 15.301 bbl

Num Fluid Samples: 0

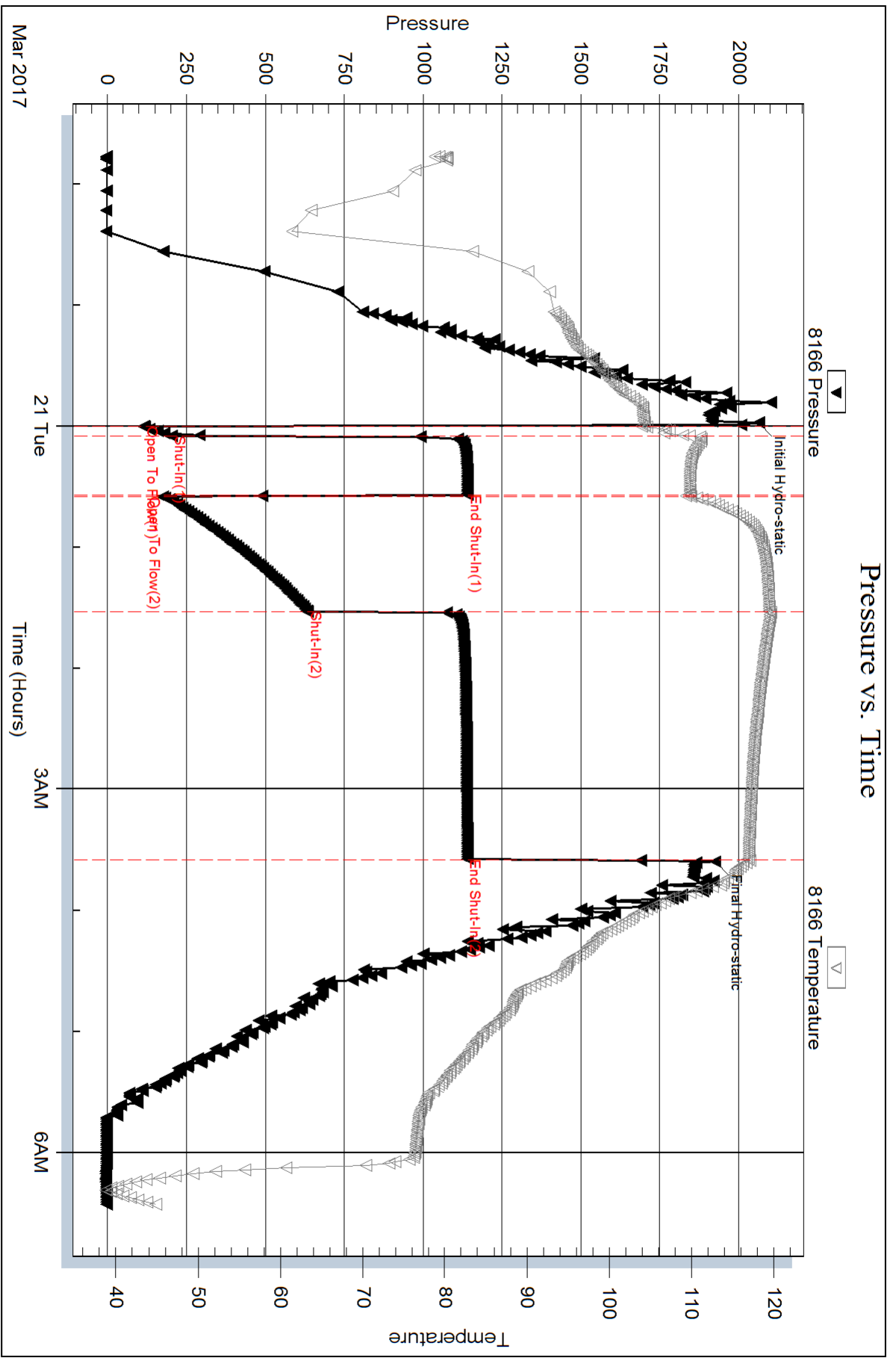
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .44@44=25000



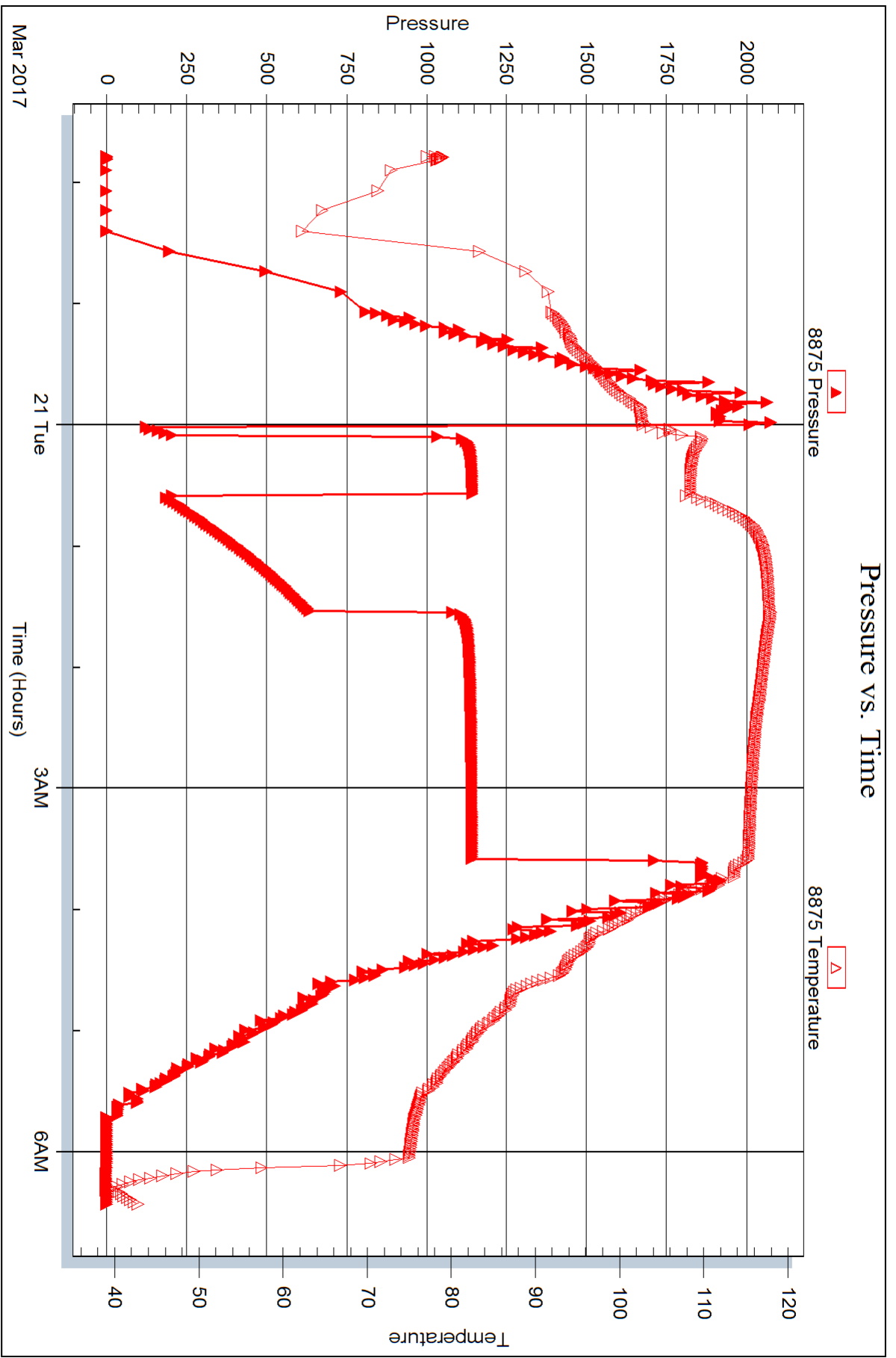
Serial #: 8875

Inside

Mull Drilling Co Inc

Alan Unit #1-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63776

Printed: 2017.03.29 @ 10:47:31



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Alan Unit #1-26

26-16s-37w Wichita,KS

Start Date: 2017.03.21 @ 00:17:15

End Date: 2017.03.21 @ 08:35:15

Job Ticket #: 63702 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.29 @ 10:47:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita,KS

Alan Unit #1-26

Job Ticket: 63702 **DST#: 3**

Test Start: 2017.03.21 @ 00:17:15

GENERAL INFORMATION:

Formation: **LKC H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:44:00
 Time Test Ended: 08:35:15
 Interval: **4240.00 ft (KB) To 4285.00 ft (KB) (TVD)**
 Total Depth: 4285.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3354.00 ft (KB)
 3344.00 ft (CF)
 KB to GR/CF: 10.00 ft

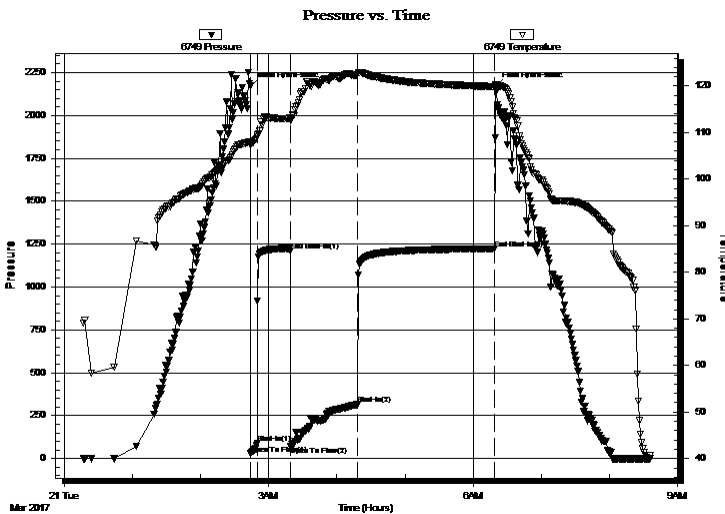
Serial #: 6749

Outside

Press@RunDepth: 314.57 psig @ 4280.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.21 End Date: 2017.03.21 Last Calib.: 2017.03.22
 Start Time: 00:17:15 End Time: 08:35:15 Time On Btm: 2017.03.21 @ 02:43:45
 Time Off Btm: 2017.03.21 @ 06:19:30

TEST COMMENT: IF: Built to 2" blow
 IS: No return blow
 FF: BOB in 50 min.
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2170.54	107.99	Initial Hydro-static
1	27.19	107.29	Open To Flow (1)
7	87.59	109.16	Shut-In(1)
36	1211.93	113.06	End Shut-In(1)
36	69.10	112.65	Open To Flow (2)
95	314.57	122.48	Shut-In(2)
215	1223.59	119.88	End Shut-In(2)
216	2169.04	120.16	Final Hydro-static

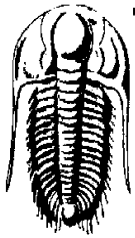
Recovery

Length (ft)	Description	Volume (bbl)
181.00	mcw 30%m 70%w (collars)	0.89
124.00	w cm 40%w 60%m	1.74
139.00	mcw 30%m 70%w	1.95

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita, KS

Alan Unit #1-26

Job Ticket: 63702

DST#: 3

Test Start: 2017.03.21 @ 00:17:15

GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:00

Time Test Ended: 08:35:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4240.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4285.00 ft (KB) (TVD)

3344.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8672**

Inside

Press@RunDepth: psig @ 4280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.21

End Date:

2017.03.21

Last Calib.:

2017.03.22

Start Time: 00:17:15

End Time:

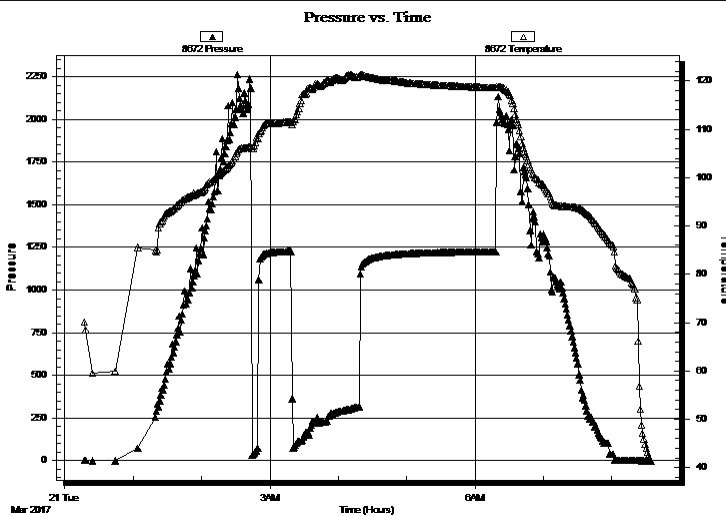
08:35:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 2" blow
 IS: No return blow
 FF: BOB in 50 min.
 FS: No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
181.00	mcw 30%m 70%w (collars)	0.89
124.00	w cm 40%w 60%m	1.74
139.00	mcw 30%m 70%w	1.95

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita, KS
Alan Unit #1-26
Job Ticket: 63702 **DST#: 3**
Test Start: 2017.03.21 @ 00:17:15

Tool Information

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 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: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4240.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4213.00	
Shut In Tool	5.00			4218.00	
Hydraulic tool	5.00			4223.00	
Jars	5.00			4228.00	
Safety Joint	3.00			4231.00	
Packer	5.00			4236.00	28.00 Bottom Of Top Packer
Packer	4.00			4240.00	
Stubb	1.00			4241.00	
Perforations	6.00			4247.00	
Change Over Sub	1.00			4248.00	
Drill Pipe	31.00			4279.00	
Change Over Sub	1.00			4280.00	
Recorder	0.00	8672	Inside	4280.00	
Recorder	0.00	6749	Outside	4280.00	
Bullnose	5.00			4285.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc
1700 N Waterfront Pkw y
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 63702 **DST#: 3**
Test Start: 2017.03.21 @ 00:17:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 22000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.16 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	mcw 30%m 70%w (collars)	0.890
124.00	w cm 40%w 60%m	1.739
139.00	mcw 30%m 70%w	1.950

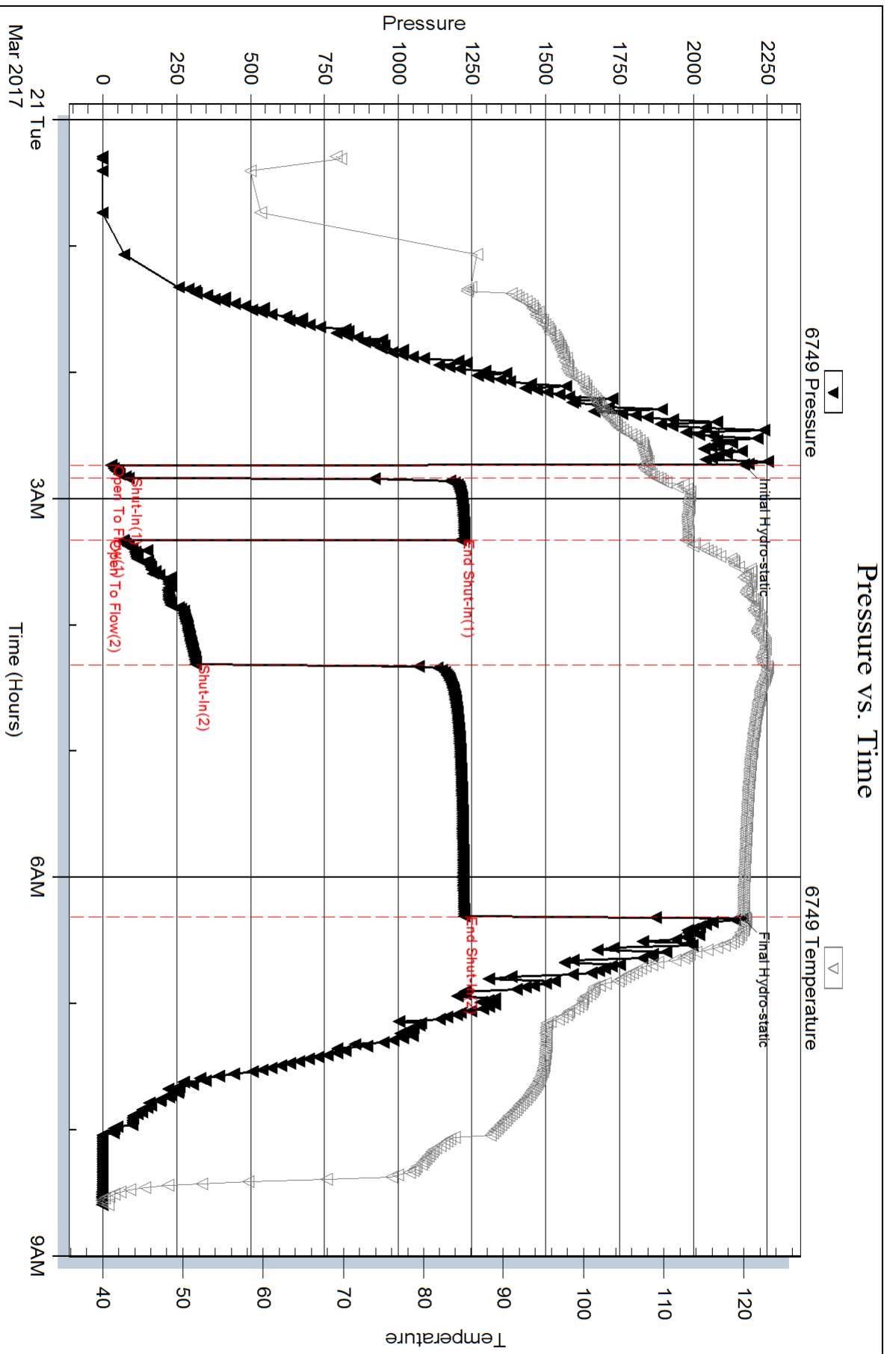
Total Length: 444.00 ft Total Volume: 4.570 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW= 40.9@ .589= 22,000 ppm

Serial #: 6749

Outside Mall Drilling Co Inc

Alan Unit #1-26

DST Test Number: 3



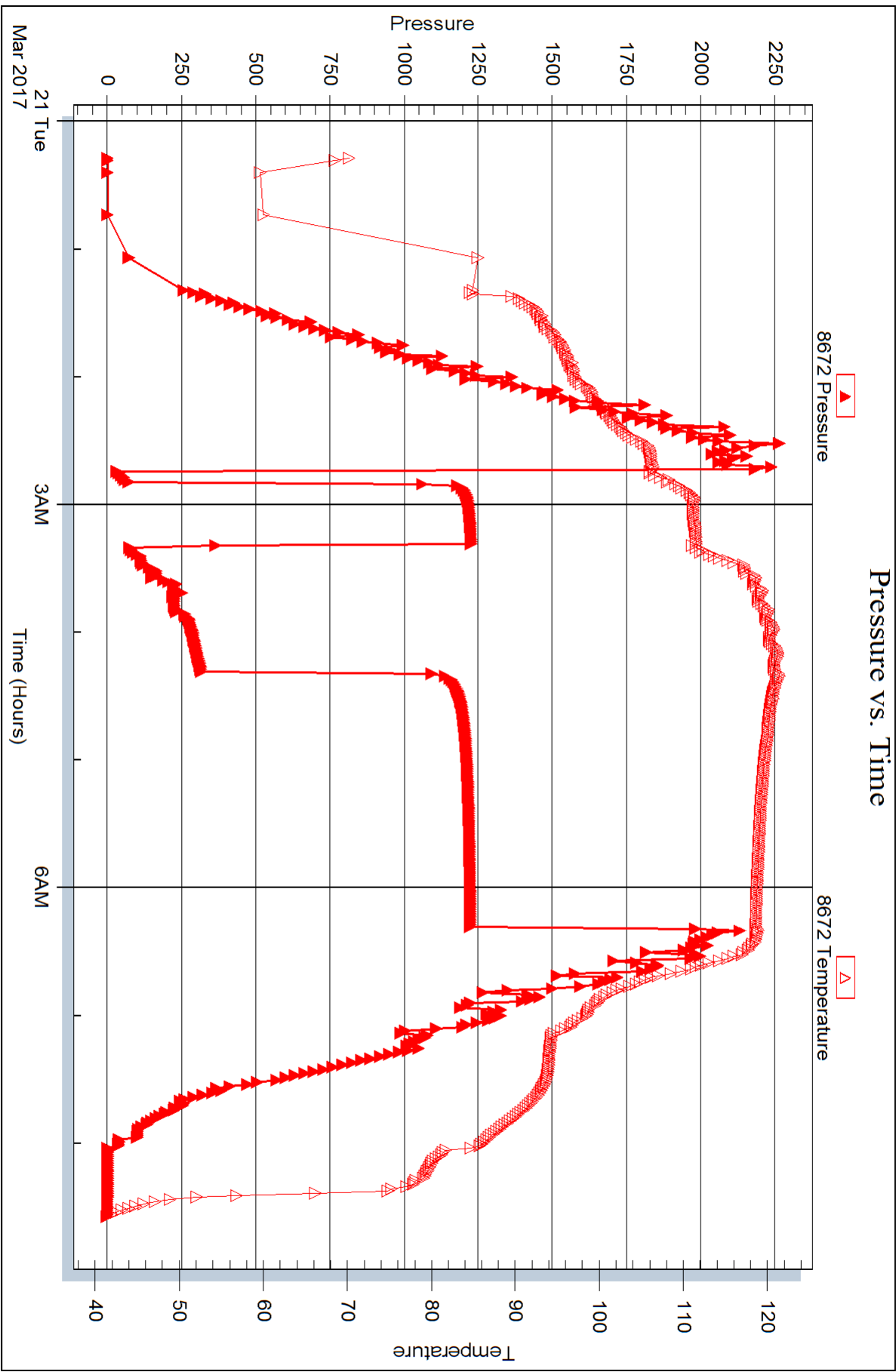
Serial #: 8672

Inside

Mull Drilling Co Inc

Alan Unit #1-26

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Alan Unit #1-26

26-16s-37w Wichita,KS

Start Date: 2017.03.22 @ 23:11:15

End Date: 2017.03.23 @ 08:01:45

Job Ticket #: 63703 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.29 @ 10:46:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita,KS

Alan Unit #1-26

Job Ticket: 63703

DST#: 4

Test Start: 2017.03.22 @ 23:11:15

GENERAL INFORMATION:

Formation: **LKC L - Pleasanto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:32:45

Time Test Ended: 08:01:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4340.00 ft (KB) To 4415.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4415.00 ft (KB) (TVD)

3344.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749

Outside

Press@RunDepth: 1075.73 psig @ 4410.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.22

End Date:

2017.03.23

Last Calib.:

2017.03.23

Start Time: 23:11:15

End Time:

08:01:45

Time On Btm:

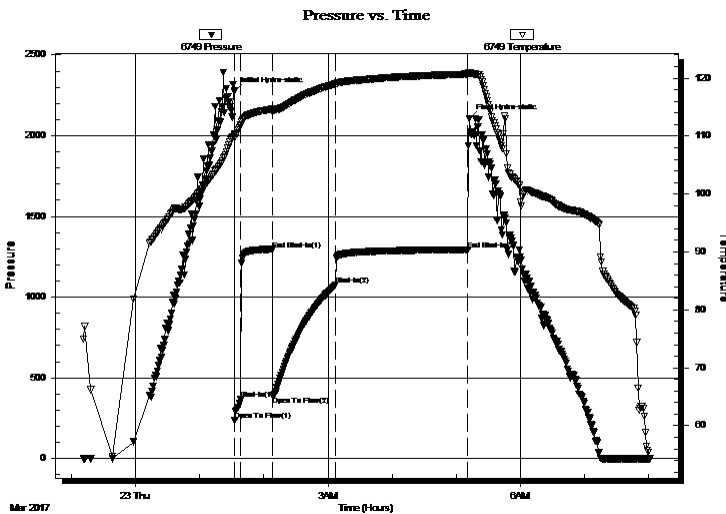
2017.03.23 @ 01:32:30

Time Off Btm:

2017.03.23 @ 05:12:15

TEST COMMENT: IF:BOB in 1 1/2 min.
 IS:No return blow
 FF:BOB in 1 1/2 min.
 FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.25	110.30	Initial Hydro-static
1	239.18	109.76	Open To Flow (1)
6	368.79	111.86	Shut-In(1)
36	1294.90	114.67	End Shut-In(1)
36	388.70	114.22	Open To Flow (2)
95	1075.73	119.02	Shut-In(2)
219	1294.01	120.69	End Shut-In(2)
220	2104.55	120.90	Final Hydro-static

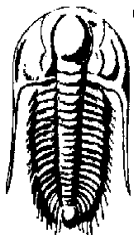
Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
1050.00	mcw 5% m 95% w (collars 182 ft)	13.07
310.00	w cm 35% w 65% m	4.35
496.00	w cm 20% w 80% m	6.96

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita, KS

Alan Unit #1-26

Job Ticket: 63703 **DST#: 4**

Test Start: 2017.03.22 @ 23:11:15

GENERAL INFORMATION:

Formation:	LKC L - Pleasanto	
Deviated:	No Whipstock:	ft (KB)
Time Tool Opened:	01:32:45	
Time Test Ended:	08:01:45	
Interval:	4340.00 ft (KB) To 4415.00 ft (KB) (TVD)	
Total Depth:	4415.00 ft (KB) (TVD)	
Hole Diameter:	7.88 inches	Hole Condition: Fair
		Reference Elevations: 3354.00 ft (KB)
		3344.00 ft (CF)
		KB to GR/CF: 10.00 ft

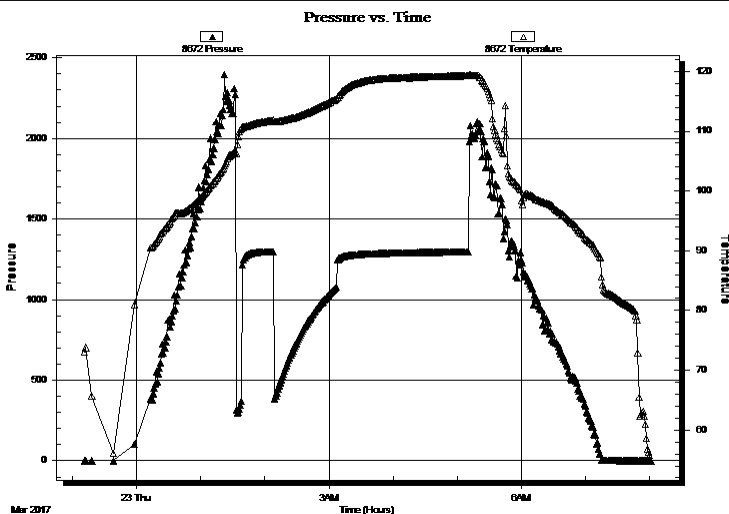
Serial #: 8672

Inside

Press@RunDepth:	psig @ 4410.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.03.22	End Date:	2017.03.23
Start Time:	23:11:15	End Time:	08:01:45
		Last Calib.:	2017.03.23
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF:BOB in 1 1/2 min.
IS:No return blow
FF:BOB in 1 1/2 min.
FS:No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1050.00	mcw 5% m 95% w (collars 182 ft)	13.07
310.00	w cm 35% w 65% m	4.35
496.00	w cm 20% w 80% m	6.96

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 63703 **DST#: 4**
Test Start: 2017.03.22 @ 23:11:15

Tool Information

Drill Pipe:	Length: 4150.00 ft	Diameter: 3.80 inches	Volume: 58.21 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: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4340.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4313.00	
Shut In Tool	5.00			4318.00	
Hydraulic tool	5.00			4323.00	
Jars	5.00			4328.00	
Safety Joint	3.00			4331.00	
Packer	5.00			4336.00	28.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Perforations	3.00			4344.00	
Change Over Sub	1.00			4345.00	
Drill Pipe	64.00			4409.00	
Change Over Sub	1.00			4410.00	
Recorder	0.00	8672	Inside	4410.00	
Recorder	0.00	6749	Outside	4410.00	
Bullnose	5.00			4415.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc

26-16s-37w Wichita,KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Alan Unit #1-26

Job Ticket: 63703

DST#: 4

ATTN: Kevin Kessler

Test Start: 2017.03.22 @ 23:11:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1050.00	mcw 5% m 95% w (collars 182 ft)	13.071
310.00	w cm 35% w 65% m	4.348
496.00	w cm 20% w 80% m	6.958

Total Length: 1856.00 ft Total Volume: 24.377 bbl

Num Fluid Samples: 0

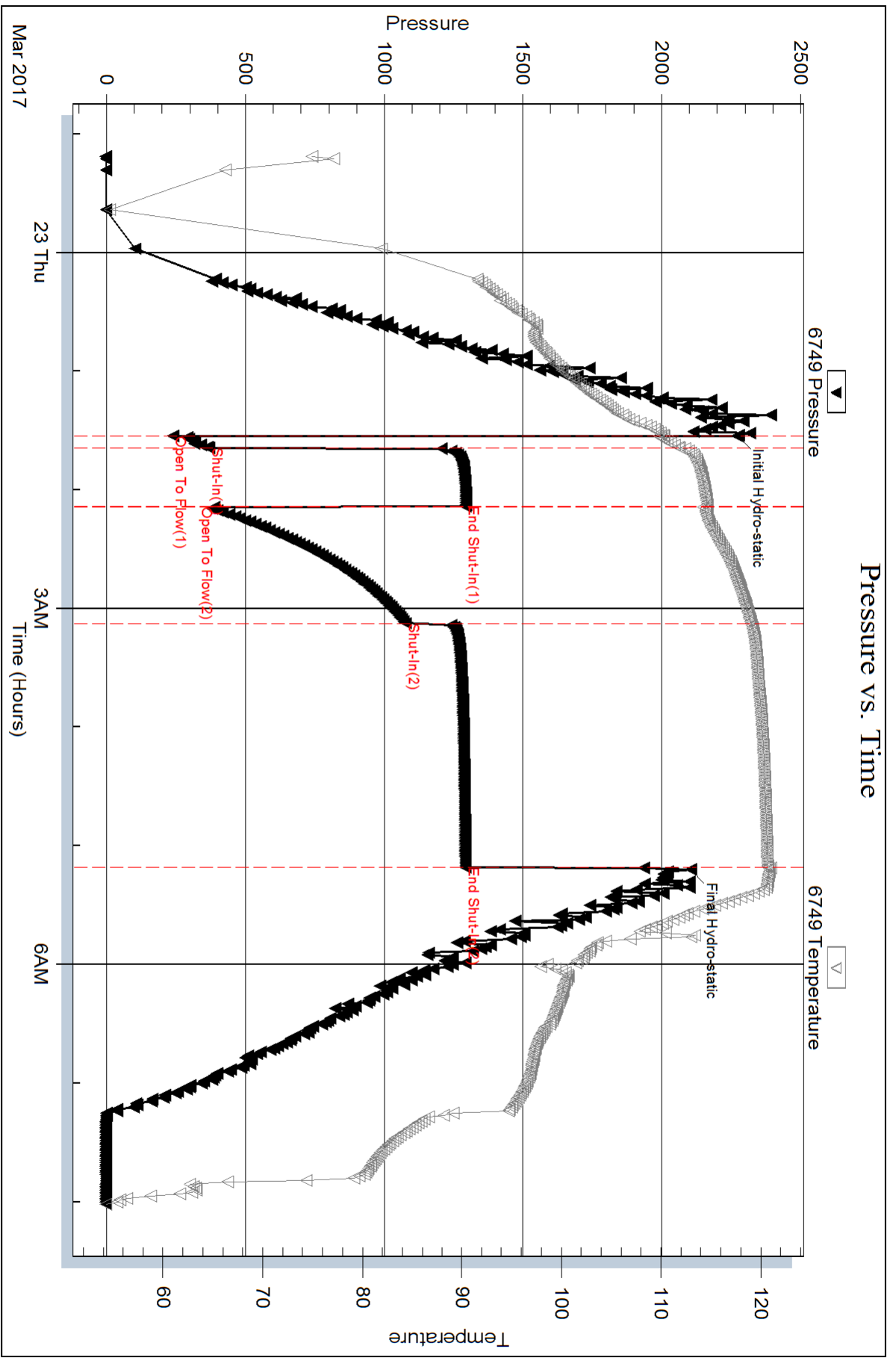
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .482@ 49.2*= 23,000 ppm



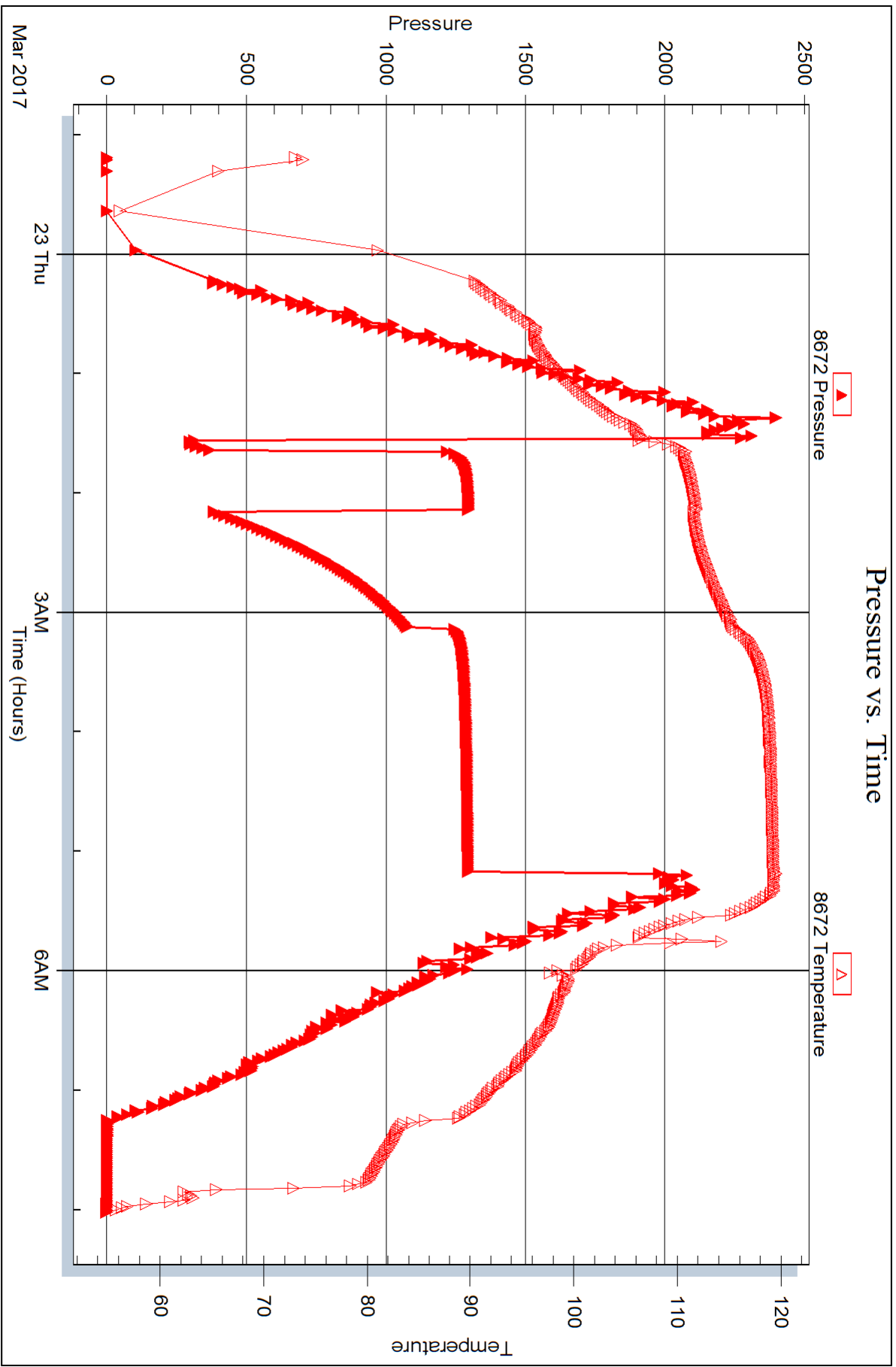
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Inside

Mull Drilling Co Inc

Alan Unit #1-26

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 63703

Printed: 2017.03.29 @ 10:46:44



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Alan Unit #1-26

26-16s-37w Wichita,KS

Start Date: 2017.03.23 @ 19:16:15

End Date: 2017.03.24 @ 07:26:15

Job Ticket #: 63704 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.29 @ 10:45:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
 1700 N Waterfront Pkwy
 Wichita, KS 67206
 ATTN: Kevin Kessler

26-16s-37w Wichita, KS

Alan Unit #1-26

Job Ticket: 63704

DST#: 5

Test Start: 2017.03.23 @ 19:16:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:09:30

Time Test Ended: 07:26:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4420.00 ft (KB) To 4495.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4495.00 ft (KB) (TVD)

3344.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 775.73 psig @ 4490.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.23

End Date:

2017.03.24

Last Calib.:

2017.03.24

Start Time:

19:16:15

End Time:

07:26:15

Time On Btm:

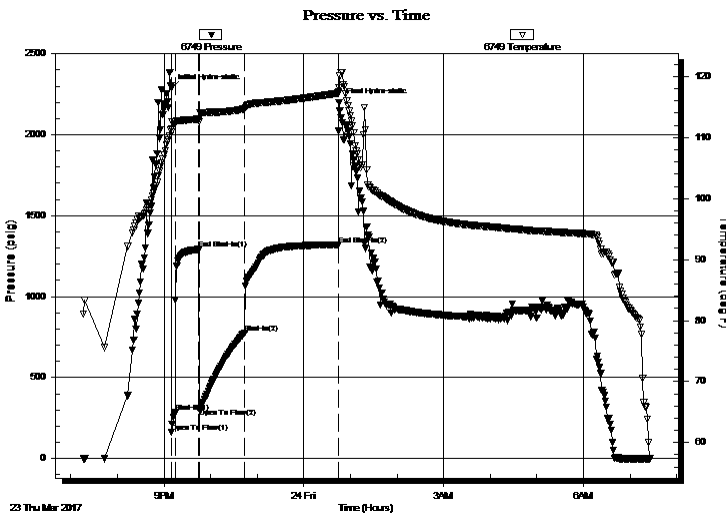
2017.03.23 @ 21:09:15

Time Off Btm:

2017.03.24 @ 00:45:15

TEST COMMENT: IF:BOB in 3 min.
 IS:Built to weak surface blow
 FF:BOB in 3 min.
 FS:Built to 1" blow and died in 46 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.49	111.45	Initial Hydro-static
1	163.99	110.91	Open To Flow (1)
6	283.20	112.29	Shut-In(1)
36	1291.75	113.03	End Shut-In(1)
36	310.80	112.62	Open To Flow (2)
95	775.73	114.71	Shut-In(2)
215	1321.28	117.27	End Shut-In(2)
216	2199.66	118.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gco 40%g 60%o (2 Collars)	0.59
1802.00	free oil 100%o	24.71
0.00	GIP= 310 ft	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

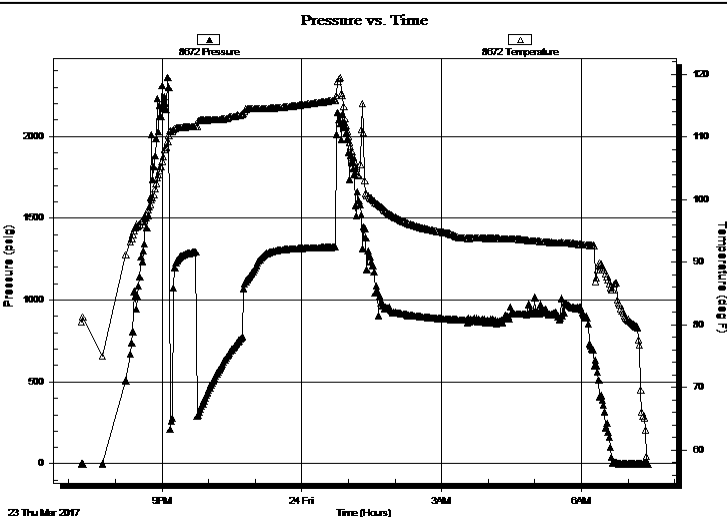
26-16s-37w Wichita, KS
Alan Unit #1-26
Job Ticket: 63704 **DST#: 5**
Test Start: 2017.03.23 @ 19:16:15

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 21:09:30 Tester: Mike Roberts
Time Test Ended: 07:26:15 Unit No: 81
Interval: 4420.00 ft (KB) To 4495.00 ft (KB) (TVD) Reference Elevations: 3354.00 ft (KB)
Total Depth: 4495.00 ft (KB) (TVD) 3344.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
Press@RunDepth: psig @ 4490.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.03.23 End Date: 2017.03.24 Last Calib.: 2017.03.24
Start Time: 19:16:15 End Time: 07:26:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 3 min.
IS:Built to weak surface blow
FF:BOB in 3 min.
FS:Built to 1" blow and died in 46 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gco 40%g 60%o (2 Collars)	0.59
1802.00	free oil 100%o	24.71
0.00	GIP= 310 ft	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 63704 **DST#: 5**
Test Start: 2017.03.23 @ 19:16:15

Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.80 inches	Volume: 59.13 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: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4420.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4393.00	
Shut In Tool	5.00			4398.00	
Hydraulic tool	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	3.00			4411.00	
Packer	5.00			4416.00	28.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Perforations	3.00			4424.00	
Change Over Sub	1.00			4425.00	
Drill Pipe	64.00			4489.00	
Change Over Sub	1.00			4490.00	
Recorder	0.00	8672	Inside	4490.00	
Recorder	0.00	6749	Outside	4490.00	
Bullnose	5.00			4495.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co Inc
1700 N Waterfront Pkwy
Wichita, KS 67206
ATTN: Kevin Kessler

26-16s-37w Wichita,KS
Alan Unit #1-26
Job Ticket: 63704 **DST#: 5**
Test Start: 2017.03.23 @ 19:16:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6700.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gco 40%g 60%o (2 Collars)	0.590
1802.00	free oil 100%o	24.713
0.00	GIP= 310 ft	0.000

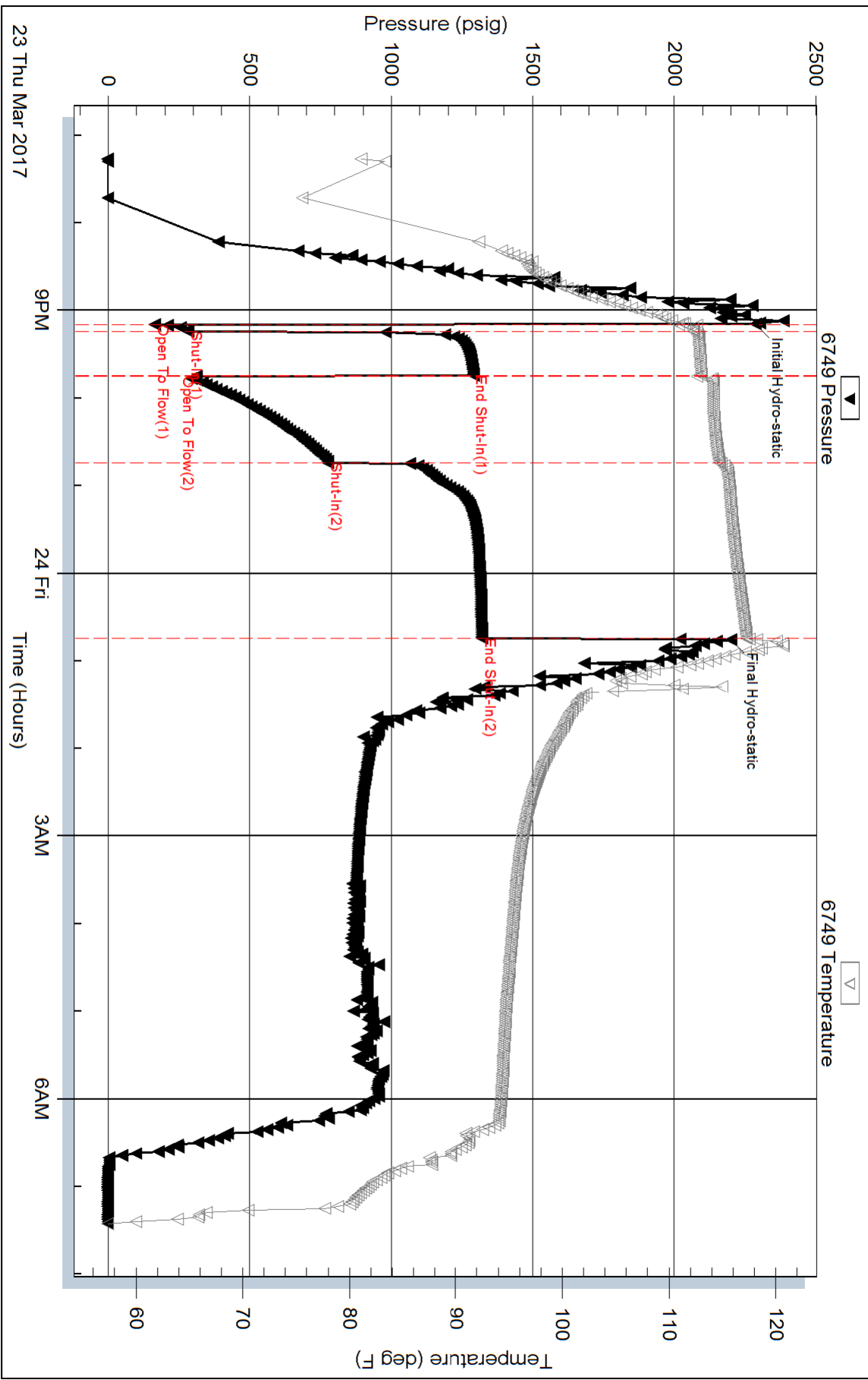
Total Length: 1922.00 ft Total Volume: 25.303 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API= 29 @ 60 corrected to 29

Pressure vs. Time



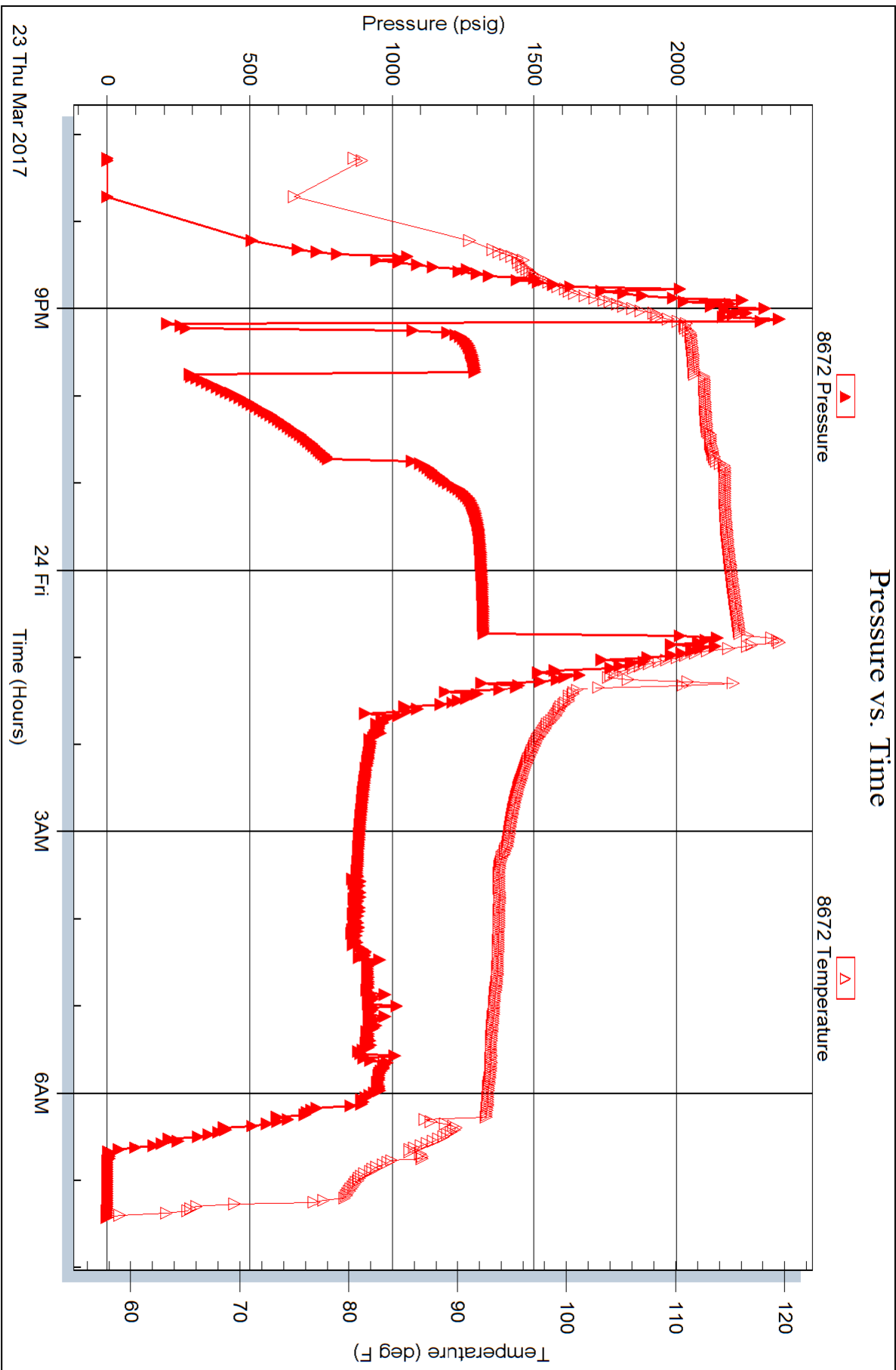
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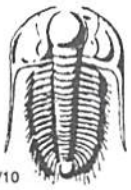
Inside

Mull Drilling Co Inc

Alan Unit #1-26

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63776**

Well Name & No. Alm unit 1-26 Test No. 2 Date 3-20-17
 Company Mull Drilling Co Inc Elevation 3354 KB 3344 GL
 Address 1700 N Waterfront Pkwy Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 7
 Location: Sec. 26 Twp. 16S Rge. 37W Co. Wichita State KS

Interval Tested 4050 4100 Zone Tested Lansing C-D
 Anchor Length 50 Drill Pipe Run 3867 Mud Wt. 9.2
 Top Packer Depth 4045 Drill Collars Run 182 Vis 65
 Bottom Packer Depth 4050 Wt. Pipe Run — WL 7.2
 Total Depth 4100 Chlorides 3500 ppm System LCM 2

Blow Description IF: BoB in 4 min.
IS: No return.
FF: BoB in 4 min.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>217</u>	<u>WCM</u>		<u>10</u>	<u>90</u>	
<u>186</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>806</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	

Rec Total 1209 BHT 116 Gravity — API RW .44 @ 44° F Chlorides 25,000 ppm

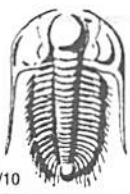
(A) Initial Hydrostatic 2063 Test 1150 T-On Location 21:00
 (B) First Initial Flow 116 Jars 250 T-Started 21:46
 (C) First Final Flow 203 Safety Joint 75 T-Open 23:58
 (D) Initial Shut-In 1142 Circ Sub N/C T-Pulled 5:33
 (E) Second Initial Flow 176 Hourly Standby _____ T-Out 6:25
 (F) Second Final Flow 634 Mileage 78 58.50 Comments _____
 (G) Final Shut-In 1141 Sampler _____
 (H) Final Hydrostatic 1925 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Sub Total 1533.50

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65675**

Well Name & No. Alan unit 1-26 Test No. 1 Date 3-20-17
 Company Mull Drilling Co Inc Elevation 3354 KB 3344 GL
 Address 1700 N Waterfront Pkwy Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 7
 Location: Sec. 26 Twp. 165 Rge. 37W Co. Wichita State KS

Interval Tested 4020 4060 Zone Tested Lansing A
 Anchor Length 40 Drill Pipe Run 3835 Mud Wt. 8.7
 Top Packer Depth 4015 Drill Collars Run 182 Vis 57
 Bottom Packer Depth 4020 Wt. Pipe Run WL 6.4
 Total Depth 4060 Chlorides 1700 ppm System LCM 3

Blow Description IF: BoB in 4 min.
IS: No return.
FF: BoB in 4 min.
FS: No return.

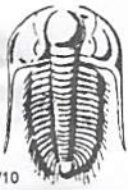
Rec	Feet of	%gas	%oil	%water	%mud
<u>325</u>	<u>mw</u>		<u>50</u>	<u>50</u>	
<u>930</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	

Rec Total 1255 BHT 118 Gravity API RW .27 @ 91 °F Chlorides 19,000 ppm
 (A) Initial Hydrostatic 1997 Test 1150 T-On Location 3:35
 (B) First Initial Flow 65 Jars 250 T-Started 4:53
 (C) First Final Flow 131 Safety Joint 75 T-Open 7:41
 (D) Initial Shut-In 1127 Circ Sub NIL T-Pulled 11:16
 (E) Second Initial Flow 143 Hourly Standby T-Out 13:27
 (F) Second Final Flow 582 Mileage 78 - 58.50 Comments
 (G) Final Shut-In 1119 Sampler
 (H) Final Hydrostatic 1865 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1533.50

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

3-4-5 (1-2)
me (Turkey)

Test Ticket

NO. 63702

Well Name & No. Alan Unit #1-26 Test No. 3 Date 3-21-17
 Company Mull Drilling Co Inc Elevation 3354 KB 3344 GL
 Address 1700 N Waterfront PKwy Wichita KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 7
 Location: Sec. 26 Twp. 16S Rge. 37w Co. Wichita State KS

Interval Tested 4240-4285 Zone Tested H-I
 Anchor Length 45 Drill Pipe Run 4052 Mud Wt. 9.2
 Top Packer Depth 4235 Drill Collars Run 182 Vis ~~7~~ 57
 Bottom Packer Depth 4240 Wt. Pipe Run Ø WL 7.2
 Total Depth 4285 Chlorides 4000 ppm System LCM 2
 Blow Description IF: Built to 2" Blow
IS: No Return Blow
FF: BOB in 50 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>139</u>	<u>WCM</u>		<u>2</u>	<u>98</u>	
<u>124</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>181</u>	<u>MCM</u>		<u>70</u>	<u>30</u>	

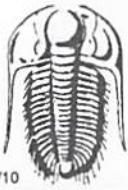
Rec Total 444 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2170 Test \$1150.00/- T-On Location 22:10
 (B) First Initial Flow 27 Jars \$250.00/- T-Started 00:17
 (C) First Final Flow 87 Safety Joint \$75.00/- T-Open 02:45
 (D) Initial Shut-In 1211 Circ Sub NC T-Pulled 06:20
 (E) Second Initial Flow 69 Hourly Standby _____ T-Out 08:35
 (F) Second Final Flow 314 Mileage 78RT = \$58.50/- Comments _____
 (G) Final Shut-In 1223 Sampler _____
 (H) Final Hydrostatic 2169 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1533.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1533.50/-

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Approved By Kevin Kessler Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63703**

Well Name & No. Alan Unit #1-26 Test No. 4 Date 3-22-17
 Company Mull Drilling Co Inc. Elevation 3354 KB 3344 GL
 Address 1700 N. Waterfront Pkwy Wichita KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 7
 Location: Sec. 26 Twp. 16S Rge. 37W Co. Wichita State KS

Interval Tested 4340-4415 Zone Tested Lansing L - Pleasanton
 Anchor Length 75' Drill Pipe Run 4150 Mud Wt. 9.3
 Top Packer Depth 4335 Drill Collars Run 182 Vis 65
 Bottom Packer Depth 4340 Wt. Pipe Run 0 WL 8.0
 Total Depth 4415 Chlorides 5400 ppm System LCM 2

Blow Description IF: BOB 1 1/2 Min
IS: NO Return Blow
FF: BOB 1 1/2 Min
FS: ~~NO~~ NO Return Blow

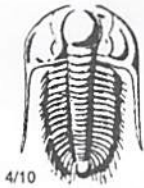
Rec	Feet of	%gas	%oil	%water	%mud
<u>496</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
<u>310</u>	<u>WCM</u>		<u>35</u>	<u>65</u>	
<u>1050</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1856 BHT 121 Gravity — API RW .482 @ 49.2° F Chlorides 23000 ppm
 (A) Initial Hydrostatic 2271 Test \$ 1150.00/- T-On Location 22:10
 (B) First Initial Flow 239 Jars \$ 250.00/- T-Started 23:11
 (C) First Final Flow 368 Safety Joint \$ 75.00/- T-Open 01:34
 (D) Initial Shut-In 1294 Circ Sub NC T-Pulled 05:09
 (E) Second Initial Flow 388 Hourly Standby _____ T-Out 08:01
 (F) Second Final Flow 1075 Mileage 78RT = \$58.80/- Comments _____
 (G) Final Shut-In 1294 Sampler _____
 (H) Final Hydrostatic 2104 Straddle _____

Initial Open 5 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 120 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1533.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1533.50/-

Approved By Kevin Kessler Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63704**

Well Name & No. Alan Unit #1-26 Test No. 5 Date 3-23-17
 Company Mull Drilling Co Inc. Elevation 3354 KB 3344 GL
 Address 1700 N. Waterfront Pkwy Wichita KS 67206
 Co. Rep / Geo. Kevin Kessler Rig _____
 Location: Sec. 26 Twp. 16S Rge. 37W Co. Wichita State KS

Interval Tested 4420-4495 Zone Tested Marmaton
 Anchor Length 75' Drill Pipe Run 4215 Mud Wt. 9.5
 Top Packer Depth 4415 Drill Collars Run 182 Vis 65
 Bottom Packer Depth 4420 Wt. Pipe Run Ø WL 8.8
 Total Depth 4495 Chlorides 6700 ppm System LCM 2
 Blow Description IF! BOB in 3 Min
IS! Weak Surface Blow
FF! BOB in 3 Min
FS! Built to 1" Died in 46 Min

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>Ø</u>	Feet of <u>GIP = 310'</u>	<u>100</u>			
Rec <u>180</u>	Feet of <u>Oil</u>		<u>100</u>		
Rec <u>120</u>	Feet of <u>gco (2 collars)</u>	<u>40</u>	<u>60</u>		
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1922 BHT 118 Gravity 29 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2287</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>18:45</u>
(B) First Initial Flow <u>163</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>19:16</u>
(C) First Final Flow <u>283</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>21:09</u>
(D) Initial Shut-In <u>1291</u>	<input checked="" type="checkbox"/> Circ Sub. <u>Dropped Bar 50</u>	T-Pulled <u>00:44</u>
(E) Second Initial Flow <u>310</u>	<input type="checkbox"/> Hourly Standby <u>.75hr 60</u>	T-Out <u>07:26</u>
(F) Second Final Flow <u>775</u>	<input checked="" type="checkbox"/> Mileage <u>78 RT = \$58.00/-</u>	Comments <u>Wait on truck 3 HRS</u>
(G) Final Shut-In <u>1321</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2199</u>	<input type="checkbox"/> Straddle _____	
	<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>1643.50</u>
	Sub Total <u>\$1583.50/-</u>	MP/DST Disc't _____

Approved By Ken O'Kern Our Representative Mike Roberts

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.

KEVIN L. KESSLER

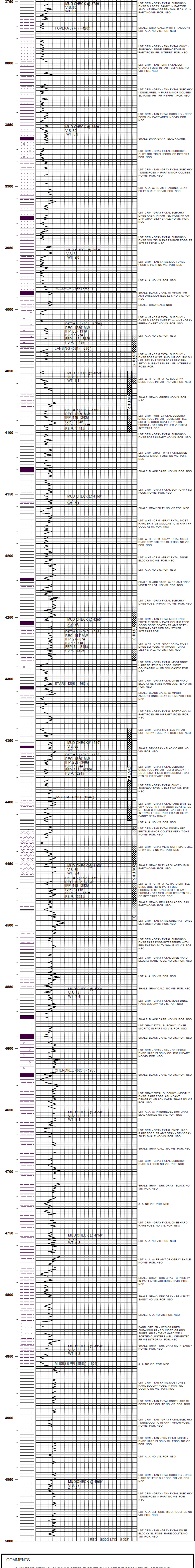
CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION
LEASE : ALAN UNIT	WELL # : 1 - 26	KB: 3354'
LOCATION : 712' FSL & 2594' FWL		GL: 3341'
SEC : 26	TWP : 16 S	RGE : 37 W
COUNTY : WICHITA		STATE : KANSAS
CONTRACTOR: DUKE DRILLING RIG # 07		CASING RECORD:
COMM: 03 - 15 - 2017	COMP: 03 - 26 - 2017	SURFACE: 8 5/8" @ 265'
RTD: 5000'	LTD: 5002	PRODUCTION: 5 1/2"
GEOLOGICAL SUPERVISION FROM: 3700'		TO: RTD
SAMPLES SAVED FROM: 3700'		TO: RTD

FORMATION:	TOP	LOG DATUM	TOP	SAMPLE DATUM	COMP.	ELECTRICAL SURVEYS:
TOPEKA	3774	- 420	3774	- 420	- 05	DIL
HEEBNER	3985	- 631	3985	- 631	- 09	CNL / CDL
LANSING	4034	- 680	4034	- 680	- 09	MICRO
STARK	4306	- 952	4306	- 952	- 03	SONIC
BASE/ KC	4398	- 1044	4398	- 1044	- 07	
CHEROKEE	4620	- 1266	4620	- 1266	- 02	
MISSISSIPPI	4858	- 1504	4858	- 1504	- 11	

REFERENCE WELL FOR STRUCTURAL COMPARISON:
MID CONT. # 1- 25 LUCKY JACK 25 - 16S - 37W WICHITA CO. KS



COMMENTS :
5 1/2" PRODUCTION CASING WAS SET TO FURTHER EVALUATE THE PRODUCTIVITY OF THIS WELL.