

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) (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	Murfin Drilling Co., Inc.
Well Name	YOUNGMEYER 3-2
Doc ID	1419916

All Electric Logs Run

DIL
DUCP
MEL
BHCS



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

11082
 10971

TICKET NUMBER 54545
 LOCATION Eldorado
 FOREMAN Brad Butler

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice #813597

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-9-18	5406	Youngmeyer #3-2	2	27s	8E	ELK
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Munzio Drilling Co., Inc.			760	Chris		
MAILING ADDRESS			611	Jacob		
250 N. WATER STE. 300			702	Brad		
CITY	STATE	ZIP CODE				
Wichita	Ks.	67202				

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH _____ CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 42' DRILL PIPE _____ TUBING _____ OTHER 15' L.S.
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 15'
 DISPLACEMENT 2.5 Bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting: Rig up to 8 5/8" surface pipe, break circulation w/ flash water.
Mixed 54 sacks Regular cement w/ 3" casing & 1/2 lb P/S of Poly Flakes.
Displaced cement with 2.5 Bbls water. Shut down - closed casing w/ good cement. Re-true.
Job complete - Tear down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0450	1	PUMP CHARGE	1500.00	1500.00
CE 0002	40	MILEAGE	7.15	286.00
CE 0711	M/C	Bulk Truck Charge	660.00	660.00
CC 5800A	54 sacks	Regular - class A cement	20.00	1080.00
CC 5325	152 lbs.	Calcium Chloride	1.25	190.00
CC 6075	27 lbs.	Poly-Flake	2.00	54.00
				3770.00
		Discount 30%		1131.00
		Sub Total		2639.00

SCANNED

SALES TAX ESTIMATED TOTAL 69.51
#2708.51

Ravin 3737

AUTHORIZATION

TITLE _____

DATE _____

I acknowledge that the payment terms, unless specifically 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 form.

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: Murfin Drilling Co	Date: 7/15/2018	Ticket #: ICT 1203
Field Rep: Judd		
Address:		
City, State:		
County, Zip:		

Field Order No.:	Open Hole: 3202' 7.875"	<table border="1"> <thead> <tr> <th>Perf Depths (ft)</th> <th>Perfs</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr> <td>Total Perfs</td> <td>0</td> </tr> </tbody> </table>	Perf Depths (ft)	Perfs																							Total Perfs	0
Perf Depths (ft)	Perfs																											
Total Perfs	0																											
Well Name: Youngmeyer 3-2	Casing Depth:																											
Location: Beaumont, KS	Casing Size:																											
Formation: Arbuckle	Tubing Depth: 3120 2750 1867 500																											
Type of Service: PTA	Tubing Size:																											
Well Type: OIL	Liner Depth:																											
Age of Well: New	Liner Size:																											
Packer Type:	Liner Top:																											
Packer Depths:	Liner Bottom:																											
Treatment Via: Drill pipe	Total Depth:																											

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	H2/CO2	STP	ANNULUS				
					On location safety meeting. Spot in and rig up			
					Hook up to drill pipe @ 3120'			
	3.0		200.0		Pump water			8.50
	3.0		200.0		Mix and pump cement			3.79
	3.0		200.0		Pump water			3.00
	3.0		200.0		Pump mud			25.00
					Pipe @ 2750'			
	3.0		200.0		Pump water			8.50
	3.0		200.0		Mix and pump cement			3.79
	3.0		200.0		Pump water			3.00
	3.0		200.0		Pump mud			20.00
					Pipe @ 1867'			
	3.0		150.0		Pump water			8.50
	3.0		150.0		Mix and pump cement			3.79
	3.0		150.0		Pump water			3.00
	3.0		150.0		Pump mud			12.00
TOTAL:						-	-	157.05

SUMMARY			
Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
3.0	2.9	200.0	163.3

PRODUCTS USED

220 Sacks 60/40/4

Treater: Jale Heard

Customer: Judd

MDCI
 Youngmeyer #3-2
 2605 FSL 1270 FEL
 Sec. 2-T29S-R8E
 1484' KB

Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref
Heebner	1241	+243	-7	1240	+244	-6
Lansing	1626	-142	-7	1621	-137	-2
Kansas City	1960	-476	-7	1966	-482	-13
Mound City	2172	-688	-19	2169	-685	-16
Altamont	2292	-808	-16	2288	-804	-12
Ft Scott	2420	-936	-16	2415	-931	-11
Oakley	2528	-1044	-17	2525	-1041	-14
Mississippi	2746	-1262	-23	2749	-1265	-26
B. Cowley	2938	-1454	-25	2933	-1449	-20
Arbuckle	3114	-1630	-21	3107	-1623	-14
RTD	3200					
LTD				3196		

Jeff Christian

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOGS

OPERATOR: **MURKIN DRILLING COMPANY**
LEASE: **YOUNGMAYER # 3-2**
LOCATION: **2609' FSI 4 1270' FEL**

SEC. **2** TWP. **29 S** RING. **8 E**
COUNTY: **EK** STATE: **KANSAS**
FIELD: _____

DATE: **15-04-2015**
CONTRACTOR: **C & G** RIG NO.: **2**
DRILLING STARTED: **07/09/2018** COMPLETED: **07/18/2018**
MUD DRILLING: **1000'** MUD TYPE: **CHEMICAL**
DRILLING TIME FROM: **1000'** TO: **RTD**
SAMPLES SHAVED FROM: **1000'** TO: **RTD**
SAMPLES EXAMINED FROM: **1000'** TO: **RTD**
GEOLOGICAL SUPERVISOR: **1130'** TO: **RTD**

CONTRACTOR: **C & G** RIG NO.: **2**
DRILLING STARTED: **07/09/2018** COMPLETED: **07/18/2018**
MUD DRILLING: **1000'** MUD TYPE: **CHEMICAL**
DRILLING TIME FROM: **1000'** TO: **RTD**
SAMPLES SHAVED FROM: **1000'** TO: **RTD**
SAMPLES EXAMINED FROM: **1000'** TO: **RTD**
GEOLOGICAL SUPERVISOR: **1130'** TO: **RTD**

FORMATION: _____ TOP: _____ DATE: _____
FORMATION: _____ TOP: _____ DATE: _____
FORMATION: _____ TOP: _____ DATE: _____

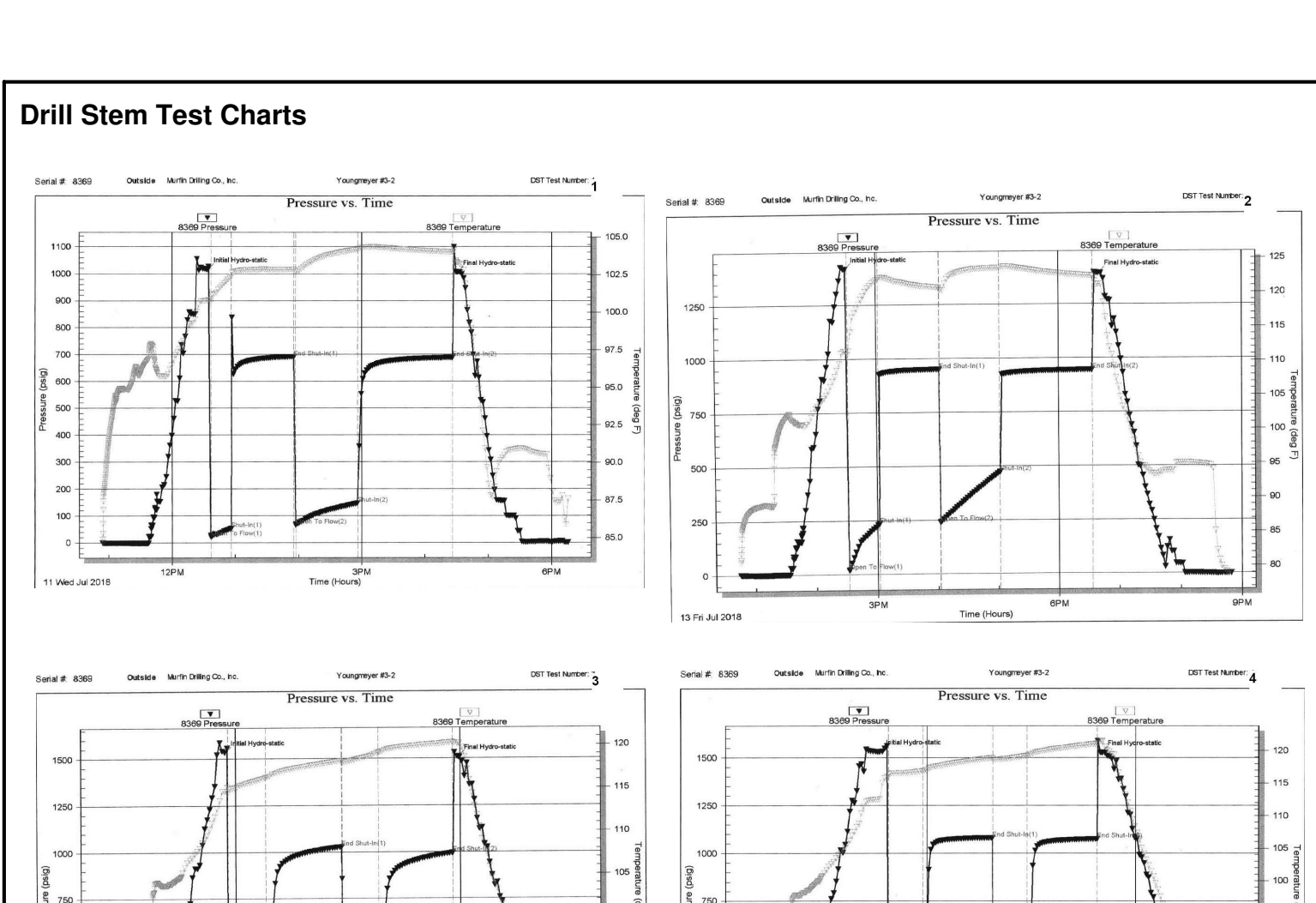
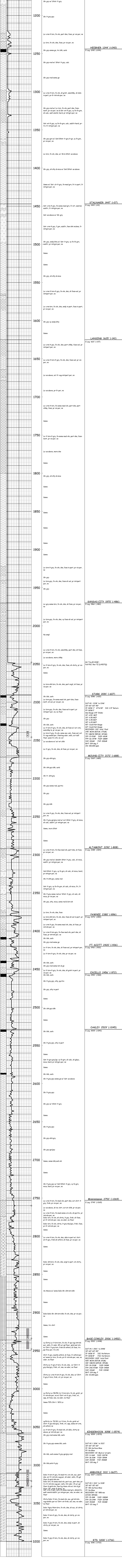
HEBNER 1240' (-244) 1241' (-243)
LANSTING 1621' (-244) 1666' (-243)
KANSAS CITY 1966' (-482) 1960' (-476)
MOUND CITY 2189' (-689) 2172' (-688)
PAWNEE 2376' (-689) 2380' (-686)
FARMERS 2526' (-689) 2526' (-686)
MCKESS STERN 2726' (-689) 2726' (-686)
KINDERHOOK 3084' (-1620) 3088' (-1624)
KINBERG 3107' (-1623) 3111' (-1628)
ARBUCKLE 3196' (-1712) 3200' (-1716)

OPERATOR: **MURKIN DRILLING COMPANY**
LEASE: **YOUNGMAYER # 3-2**
LOCATION: **2609' FSI 4 1270' FEL**

SEC. **2** TWP. **29 S** RING. **8 E**
COUNTY: **EK** STATE: **KANSAS**
FIELD: _____

DATE	7:00 AM DEPTH	REMARKS
7/9/18	MIRT	Spud
7/10/18	474'	Drlg.
7/11/18	2140'	Drlg.
7/12/18	2440'	Drlg.
7/13/18	2933	Drlg. dev. 3/4 deg. @ 2948'
7/14/18	3080'	Drlg.
7/15/18	3128'	TO w/ DST # 4 RTD 3200' @ 3:30 pm dev. 1 deg. Finish Logging at 10:30 pm

Remarks
The Youngmeyer # 3-2 was declared dry and abandoned.
All sample shows of oil were drill stem tested and condemned.
Electric log measurements correlate about 4' high compared to rotary measurements
Samples delivered to the Kansas Geological Survey in Wichita, KS.
Respectfully Submitted,
Jeff Christian
Jeff Christian





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman/Jef

Youngmeyer #3-2

2-29S-8E EIk,KS

Start Date: 2018.07.11 @ 10:54:00

End Date: 2018.07.11 @ 18:16:09

Job Ticket #: 63803 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.16 @ 16:54:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

2-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63803

DST#: 1

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.11 @ 10:54:00

GENERAL INFORMATION:

Formation: **Lower LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:36:40

Time Test Ended: 18:16:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **2138.00 ft (KB) To 2146.00 ft (KB) (TVD)**

Reference Elevations: 1484.00 ft (KB)

Total Depth: 2146.00 ft (KB) (TVD)

1475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 146.70 psig @ 2139.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.11

End Date: 2018.07.11

Last Calib.: 1899.12.30

Start Time: 10:54:01

End Time: 18:16:10

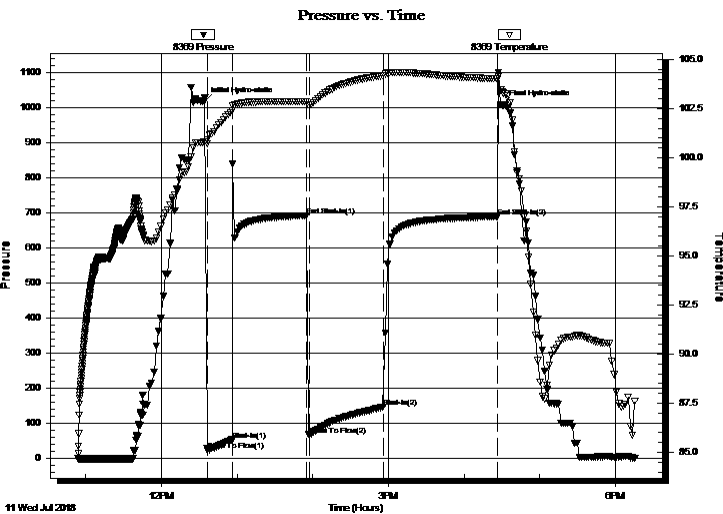
Time On Btm: 2018.07.11 @ 12:33:50

Time Off Btm: 2018.07.11 @ 16:30:20

TEST COMMENT: IF - Strong blow throughout Gas to surface in 18 minutes

IS - 1/4" blow back dying to no blow

FF - Strong blow throughout Could not gauge gas after 40 minutes. Gas flow w as TSTM



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1016.47	100.80	Initial Hydro-static
3	22.64	100.92	Open To Flow (1)
23	53.20	102.38	Shut-In(1)
82	691.25	102.86	End Shut-In(1)
84	65.70	102.70	Open To Flow (2)
142	146.70	104.18	Shut-In(2)
233	688.23	104.01	End Shut-In(2)
237	1006.08	103.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	Mud cut w ater 83% W & 17% M	1.20
75.00	Heavy mud cut w ater 58% W & 42% M	0.51

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.90	6.47
Last Gas Rate	0.13	2.10	6.18
Max. Gas Rate	0.13	3.00	6.51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63803

DST#: 1

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.11 @ 10:54:00

Tool Information

Drill Pipe:	Length: 1827.00 ft	Diameter: 3.80 inches	Volume: 25.63 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 27.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2138.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 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			2119.00	
Shut In Tool	5.00			2124.00	
Hydraulic tool	5.00			2129.00	
Packer	4.00			2133.00	20.00 Bottom Of Top Packer
Packer	5.00			2138.00	
Stubb	1.00			2139.00	
Recorder	0.00	8369	Outside	2139.00	
Recorder	0.00	8846	Inside	2139.00	
Perforations	5.00			2144.00	
Bullnose	2.00			2146.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

2-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63803

DST#: 1

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.11 @ 10:54:00

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: 100000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
245.00	Mud cut w ater 83% W & 17% M	1.205
75.00	Heavy mud cut w ater 58% W & 42% M	0.505

Total Length: 320.00 ft Total Volume: 27562.077 bbl

Num Fluid Samples: 0

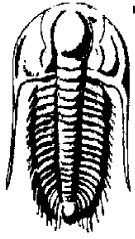
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63803

DST#: 1

ATTN: Shauna Gunzelman/Jef

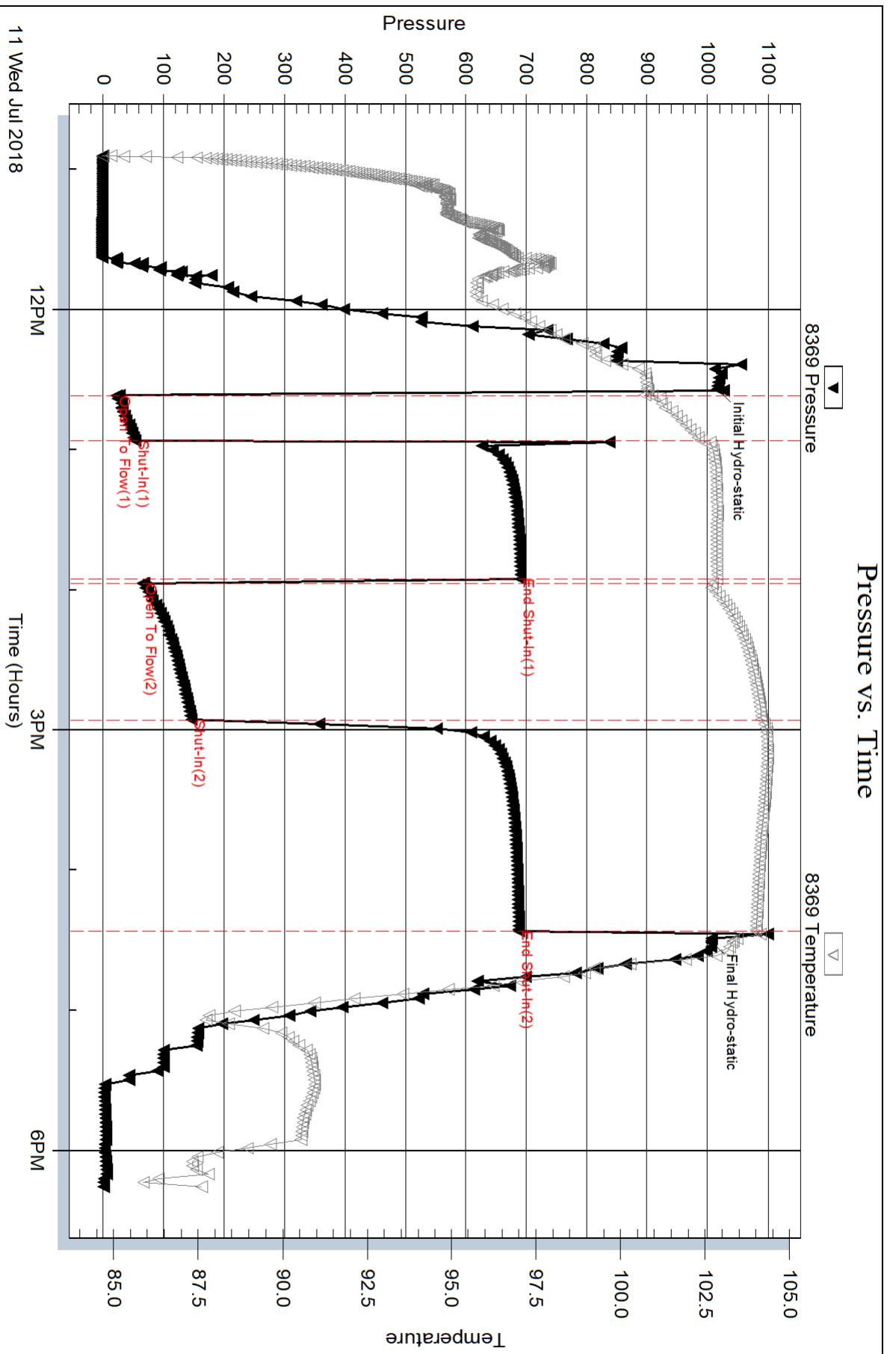
Test Start: 2018.07.11 @ 10:54:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	2.90	6.47
2	20	0.13	3.00	6.51
2	30	0.13	2.80	6.44
2	40	0.13	2.10	6.18



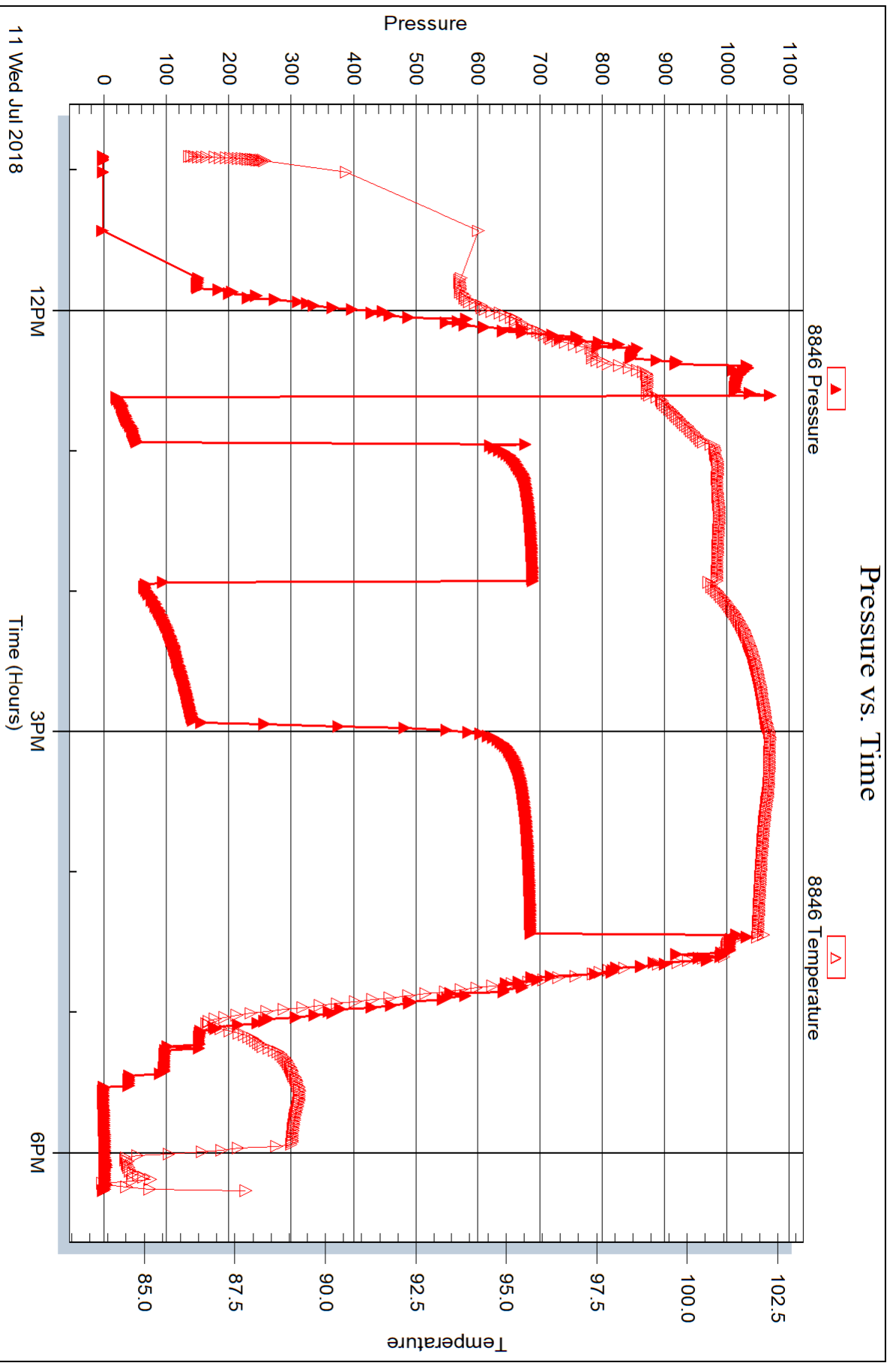
Serial #: 8846

Inside

Murfin Drilling Co., Inc.

Youngmeyer #3-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman/Jef

Youngmeyer #3-2

2-29S-8E EIk,KS

Start Date: 2018.07.13 @ 12:45:00

End Date: 2018.07.13 @ 20:51:00

Job Ticket #: 63804 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.16 @ 16:59:27

Murfin Drilling Co., Inc.

2-29S-8E EIk,KS

Youngmeyer #3-2

DST # 2

Lower Mississippian

2018.07.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63804

DST#: 2

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.13 @ 12:45:00

GENERAL INFORMATION:

Formation: **Lower Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:31:50

Time Test Ended: 20:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **2921.00 ft (KB) To 2948.00 ft (KB) (TVD)**

Reference Elevations: 1484.00 ft (KB)

Total Depth: 2948.00 ft (KB) (TVD)

1475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 470.33 psig @ 2922.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.13

End Date:

2018.07.13

Last Calib.:

2018.07.13

Start Time: 12:45:01

End Time:

20:51:00

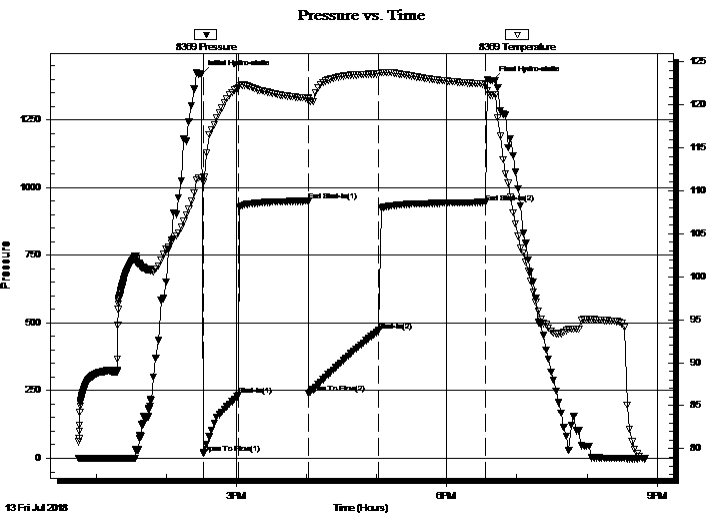
Time On Btm:

2018.07.13 @ 14:29:40

Time Off Btm:

2018.07.13 @ 18:39:00

TEST COMMENT: IF - Weak blow building to strong blow 8 minutes
FF - Weak blow building to strong blow 8 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1416.21	111.52	Initial Hydro-static
3	19.22	111.00	Open To Flow (1)
32	233.08	122.02	Shut-In(1)
93	948.89	120.75	End Shut-In(1)
93	239.81	120.44	Open To Flow (2)
152	470.33	123.59	Shut-In(2)
244	944.72	122.38	End Shut-In(2)
250	1394.11	121.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
925.00	Mud cut w ater 92% W & 8% M	10.20
100.00	Heavy mud cut w ater 65% W & 35% M	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63804

DST#: 2

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.13 @ 12:45:00

Tool Information

Drill Pipe:	Length: 2609.00 ft	Diameter: 3.80 inches	Volume: 36.60 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 38.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2921.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 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			2902.00	
Shut In Tool	5.00			2907.00	
Hydraulic tool	5.00			2912.00	
Packer	4.00			2916.00	20.00 Bottom Of Top Packer
Packer	5.00			2921.00	
Stubb	1.00			2922.00	
Recorder	0.00	8369	Outside	2922.00	
Recorder	0.00	8846	Inside	2922.00	
Perforations	21.00			2943.00	
Bullnose	5.00			2948.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63804

DST#: 2

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.13 @ 12:45:00

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:

33000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbf

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
925.00	Mud cut w ater 92% W & 8% M	10.197
100.00	Heavy mud cut w ater 65% W & 35% M	1.403

Total Length: 1025.00 ft

Total Volume: 11.600 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

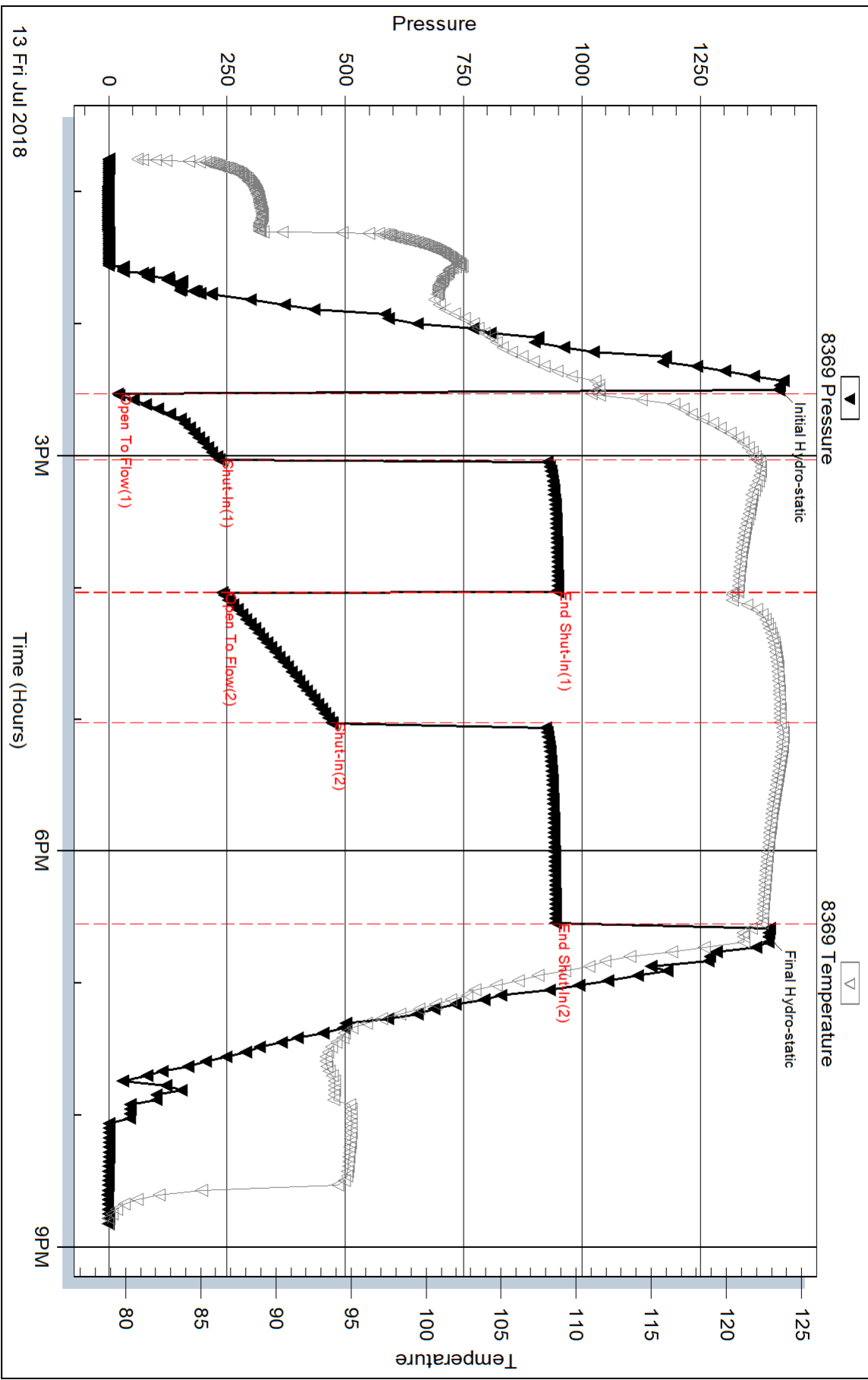
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



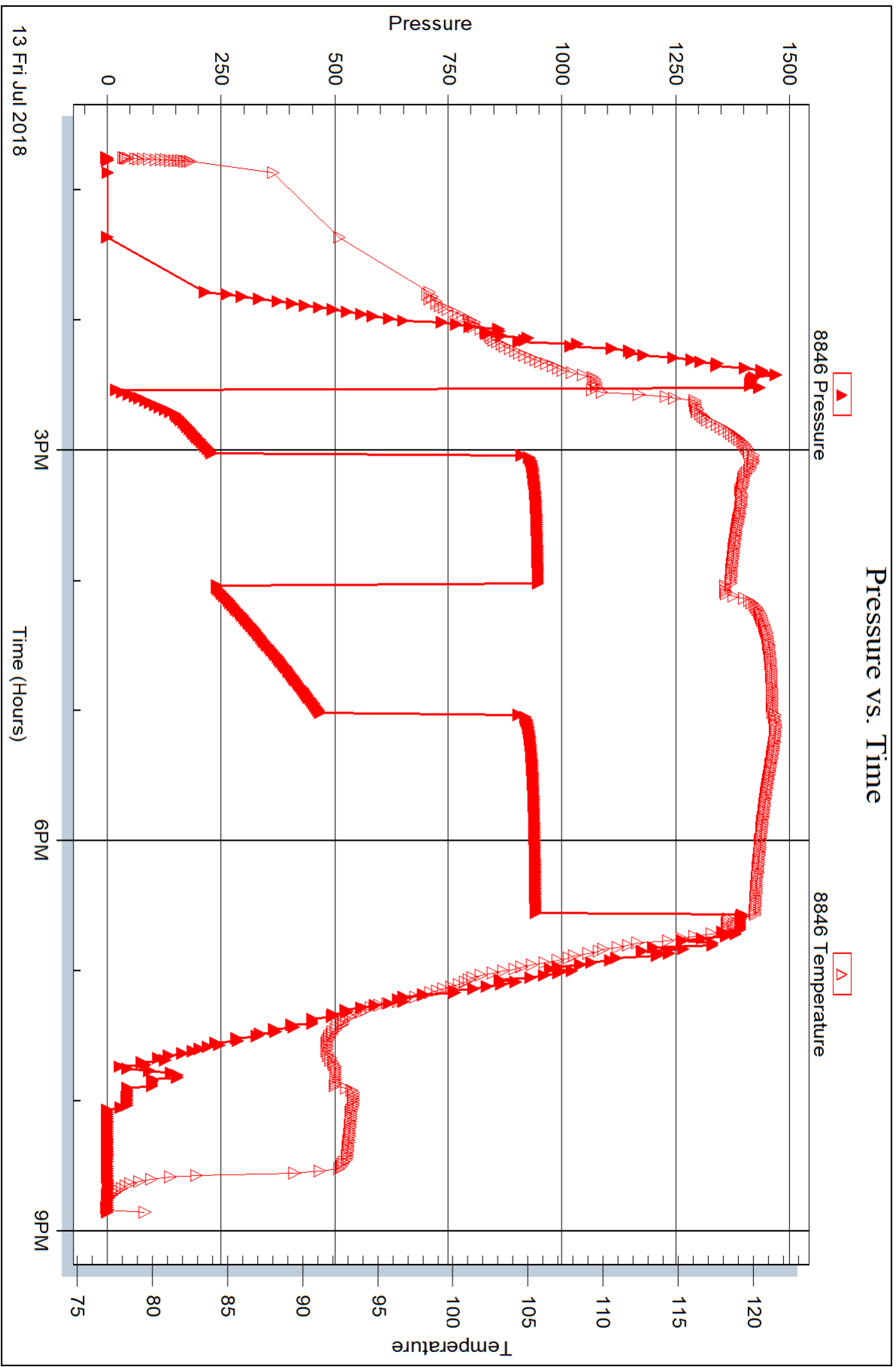
Serial #: 8846

Inside

Murfin Drilling Co., Inc.

Youngmeyer #3-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63804

Printed: 2018.07.16 @ 16:59:28



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman/Jef

Youngmeyer #3-2

2-29S-8E EIk,KS

Start Date: 2018.07.14 @ 13:15:01

End Date: 2018.07.14 @ 19:34:10

Job Ticket #: 63805 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.16 @ 16:59:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63805

DST#: 3

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.14 @ 13:15:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:53:30

Time Test Ended: 19:34:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3106.00 ft (KB) To 3121.00 ft (KB) (TVD)

Reference Elevations: 1484.00 ft (KB)

Total Depth: 3121.00 ft (KB) (TVD)

1475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 20.29 psig @ 3107.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.14

End Date:

2018.07.14

Last Calib.: 2018.07.14

Start Time: 13:15:01

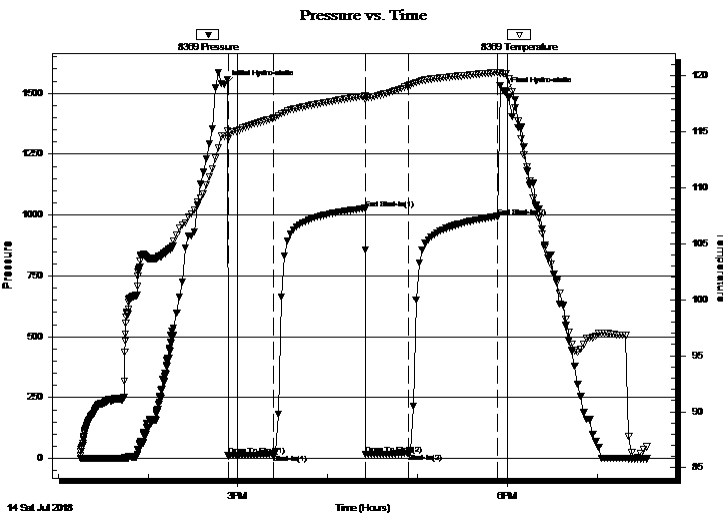
End Time:

19:34:10

Time On Btm: 2018.07.14 @ 14:51:30

Time Off Btm: 2018.07.14 @ 17:58:20

TEST COMMENT: IF - Weak surface blow throughout
FF - No blow throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1534.44	114.63	Initial Hydro-static
2	11.40	114.40	Open To Flow (1)
33	16.03	116.23	Shut-In(1)
94	1027.24	118.20	End Shut-In(1)
94	18.16	117.86	Open To Flow (2)
123	20.29	119.12	Shut-In(2)
183	994.34	120.29	End Shut-In(2)
187	1508.04	120.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil spotted mud TR O & 100% M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63805

DST#: 3

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.14 @ 13:15:01

Tool Information

Drill Pipe:	Length: 2798.00 ft	Diameter: 3.80 inches	Volume: 39.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 40.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3106.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			3087.00	
Shut In Tool	5.00			3092.00	
Hydraulic tool	5.00			3097.00	
Packer	4.00			3101.00	20.00 Bottom Of Top Packer
Packer	5.00			3106.00	
Stubb	1.00			3107.00	
Recorder	0.00	8369	Outside	3107.00	
Recorder	0.00	8846	Inside	3107.00	
Perforations	9.00			3116.00	
Bullnose	5.00			3121.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63805

DST#: 3

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.14 @ 13:15:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Oil spotted mud TR O & 100% M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

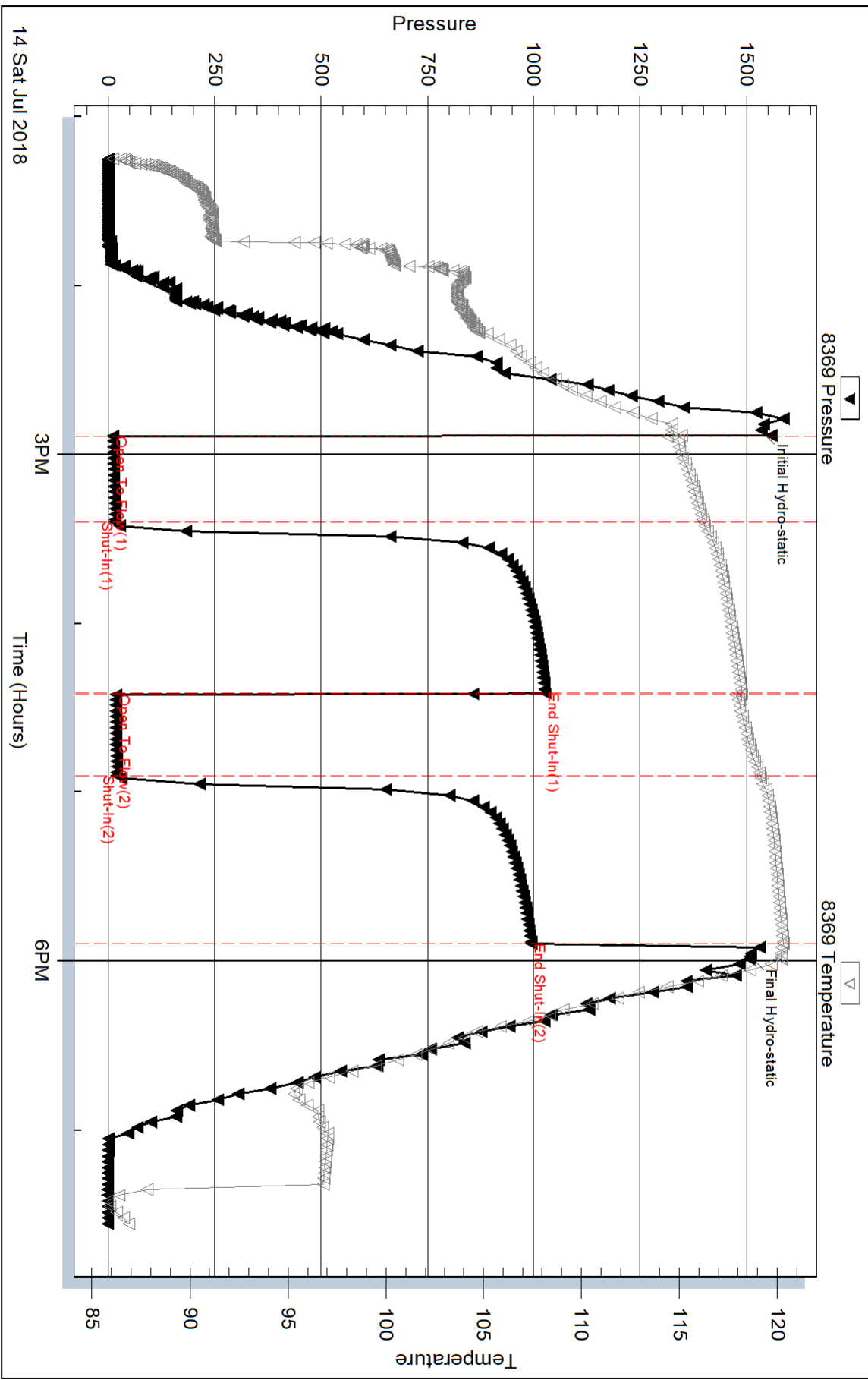
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



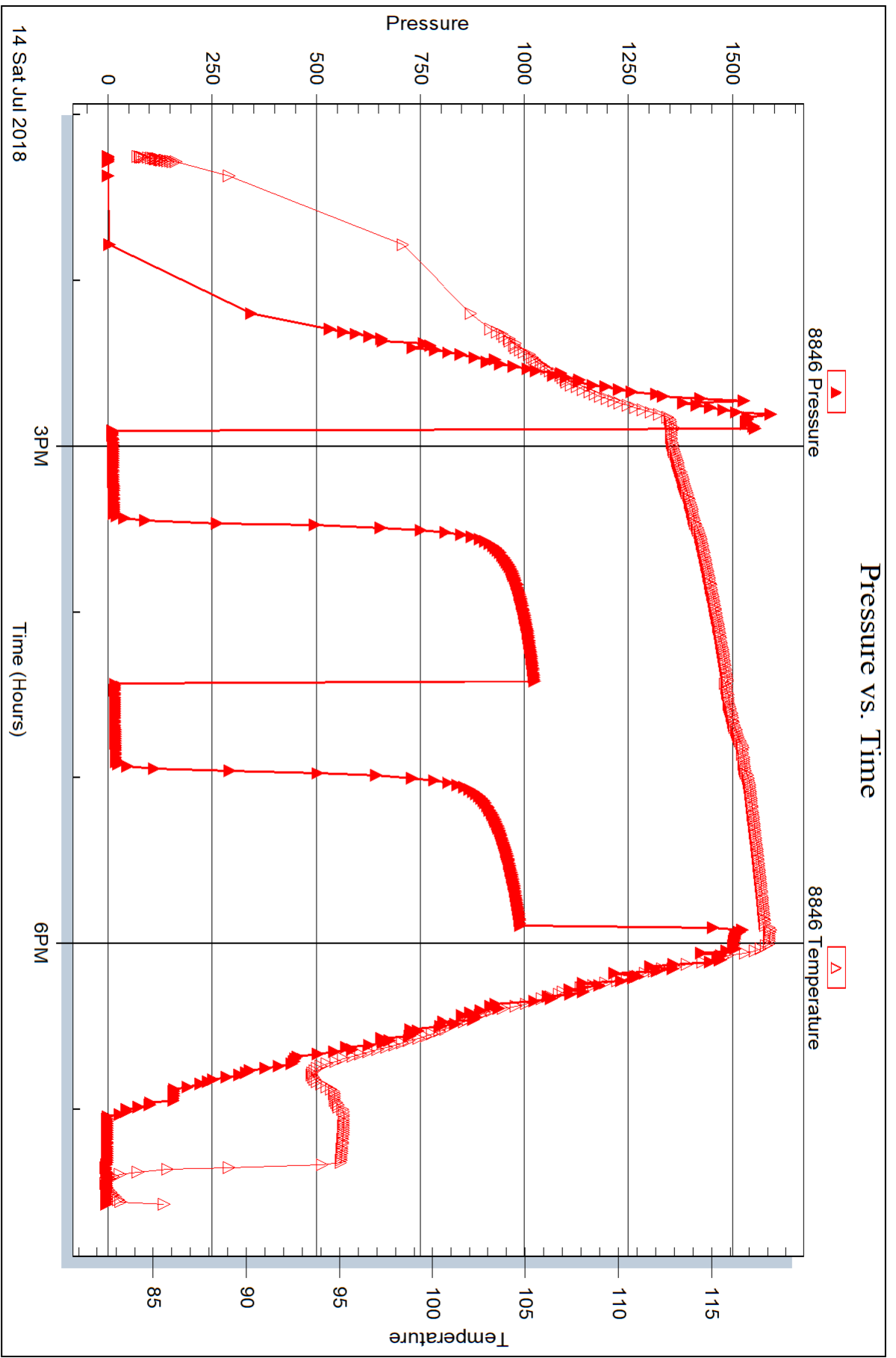
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Inside

Murfin Drilling Co., Inc.

Youngmeyer #3-2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63805

Printed: 2018.07.16 @ 16:59:02



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman/Jef

Youngmeyer #3-2

2-29S-8E EIk,KS

Start Date: 2018.07.15 @ 00:27:00

End Date: 2018.07.15 @ 07:25:20

Job Ticket #: 63806 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.07.16 @ 16:57:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63806

DST#: 4

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.15 @ 00:27:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:26:20

Time Test Ended: 07:25:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **3121.00 ft (KB) To 3128.00 ft (KB) (TVD)**

Reference Elevations: 1484.00 ft (KB)

Total Depth: 3128.00 ft (KB) (TVD)

1475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 23.66 psig @ 3122.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.15

End Date:

2018.07.15

Last Calib.:

2018.07.15

Start Time: 00:27:01

End Time:

07:25:20

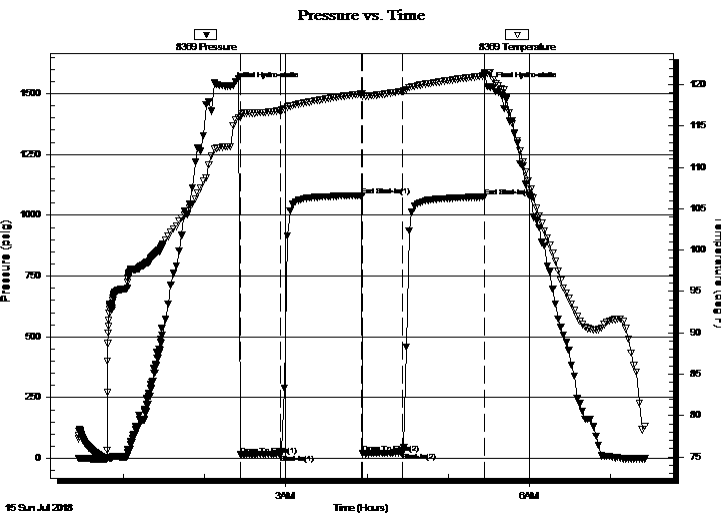
Time On Btm:

2018.07.15 @ 02:19:00

Time Off Btm:

2018.07.15 @ 05:30:30

TEST COMMENT: IF - Surface blow throughout
FF - No blow throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.03	112.52	Initial Hydro-static
8	14.86	115.99	Open To Flow (1)
37	17.79	116.87	Shut-In(1)
98	1080.18	118.89	End Shut-In(1)
98	19.69	118.63	Open To Flow (2)
128	23.66	119.20	Shut-In(2)
188	1074.82	121.06	End Shut-In(2)
192	1527.63	121.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Water cut mud 11% W & 89% M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63806

DST#: 4

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.15 @ 00:27:00

Tool Information

Drill Pipe:	Length: 2828.00 ft	Diameter: 3.80 inches	Volume: 39.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 305.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 41.17 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3121.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	27.00 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			3102.00	
Shut In Tool	5.00			3107.00	
Hydraulic tool	5.00			3112.00	
Packer	4.00			3116.00	20.00 Bottom Of Top Packer
Packer	5.00			3121.00	
Stubb	1.00			3122.00	
Recorder	0.00	8369	Outside	3122.00	
Recorder	0.00	8846	Inside	3122.00	
Perforations	1.00			3123.00	
Bullnose	5.00			3128.00	7.00 Bottom Packers & Anchor
Total Tool Length:	27.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

2-29S-8E Elk, KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer #3-2

Job Ticket: 63806

DST#: 4

ATTN: Shauna Gunzelman/Jef

Test Start: 2018.07.15 @ 00:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Water cut mud 11% W & 89% M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

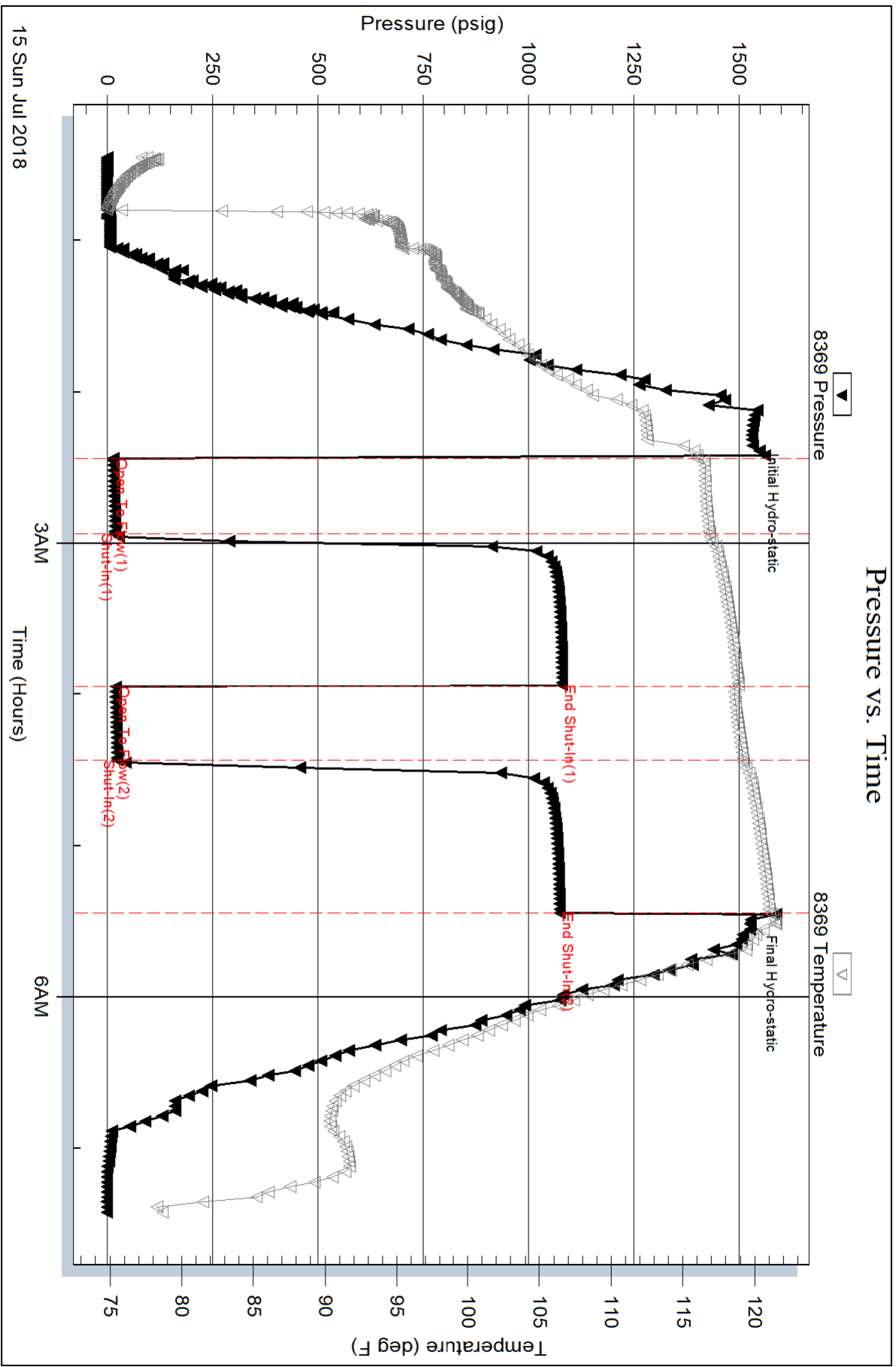
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



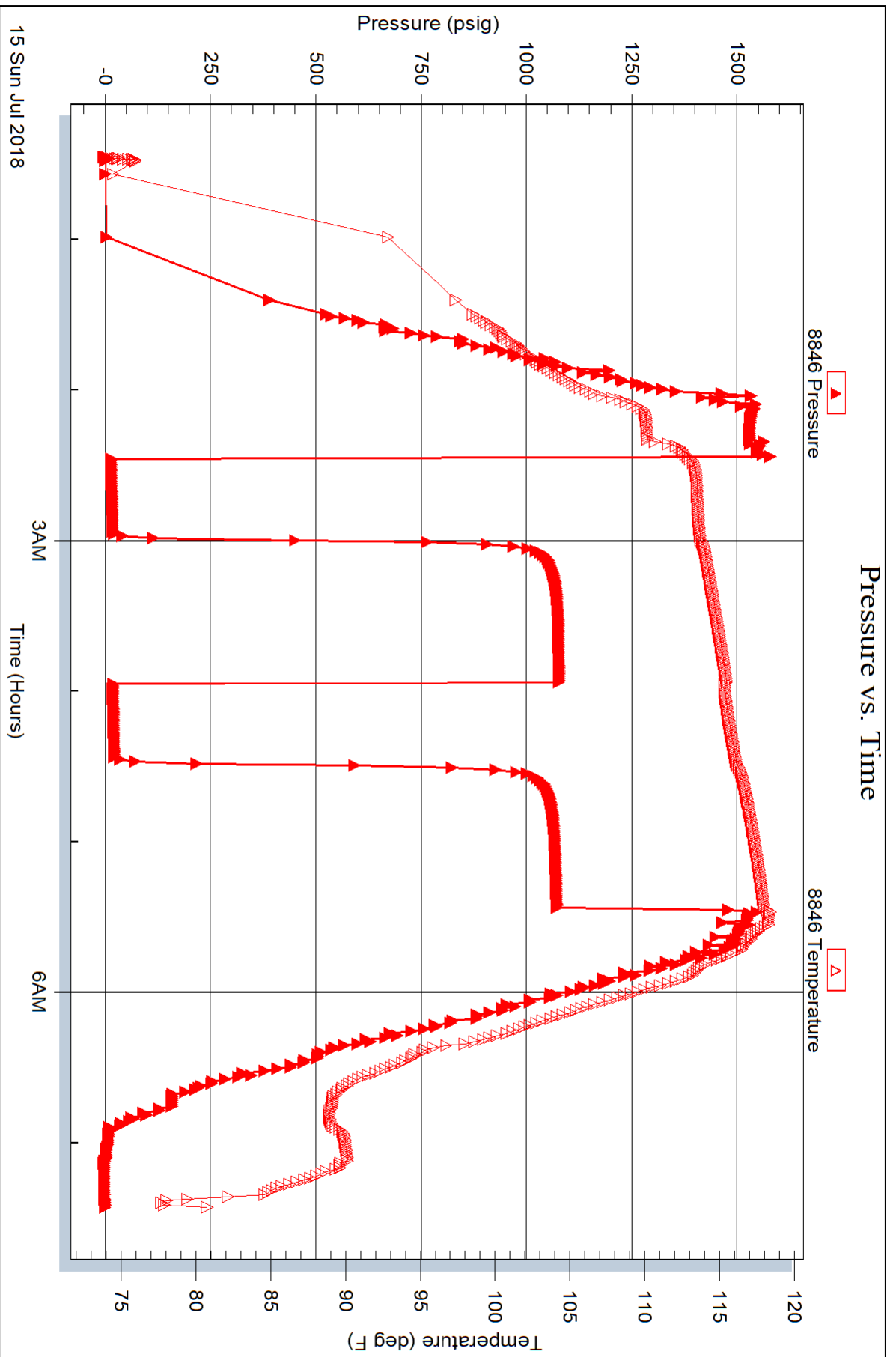
Serial #: 8846

Inside

Murfin Drilling Co., Inc.

Youngmeyer #3-2

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63803

Well Name & No. Youngmeyer #3-2 Test No. 1 Date 7-11-18
 Company Murfin Drilling Co. Elevation 1484 KB 1475 GL
 Address 250 N. Water Suite 300, Wichita, Ks. 67202
 Co. Rep / Geo. Shauna Gunzelman / Jeff Christian Rig C+G Drilling #2
 Location: Sec. 2 Twp 29S Rge. 8E Co. EIK State KS

Interval Tested 2138 - 2146 Zone Tested Lower Kansas City L
 Anchor Length 8' Drill Pipe Run 1827 Mud Wt. 9.3
 Top Packer Depth 2133 Drill Collars Run 305 Vis 47
 Bottom Packer Depth 2138 Wt. Pipe Run 0 WL _____
 Total Depth 2146 Chlorides _____ ppm System LCM 18 IFP
 Blow Description IF - Strong blow throughout IFP, gas to surface ~~2~~ mph into
IS - 1/4 inch blow back dying to no blow back
EF - Strong blow throughout EFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</u>	<u>Mud cut water</u>		<u>83</u>	<u>17</u>	
<u>75</u>	<u>Heavy Mud cut water</u>		<u>58</u>	<u>42</u>	
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 320 BHT 104 Gravity _____ API RW 0.063 @ 87.3 F Chlorides 100,000 ppm

(A) Initial Hydrostatic <u>1016</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1030</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars _____	T-Started <u>1054</u>
(C) First Final Flow <u>53</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1236</u>
(D) Initial Shut-In <u>691</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1626</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1800</u>
(F) Second Final Flow <u>147</u>	<input checked="" type="checkbox"/> Mileage <u>120 RT 120</u>	Comments _____
(G) Final Shut-In <u>688</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1006</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>20</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1170</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1170</u>	

Approved By _____ Our Representative Jimmy Dink

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63804

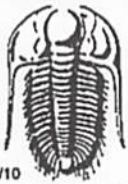
Well Name & No. Young meyer # 3-2 Test No. 2 Date 7-13-18
 Company Murfin Drilling Co, Inc. Elevation 1484 KB 1475 GL
 Address 250 N. Water, Suite 300, Wichita, Ks, 67202
 Co. Rep / Geo. Shauna Gunzelman / Jeff Christian Rig C + G Drilling #2
 Location: Sec. 2 Twp 29 S Rge. 8 E Co. ELK State KS

Interval Tested 2921-2948 Zone Tested Lower Mississippian
 Anchor Length 27' Drill Pipe Run 2609 Mud Wt. 9.3
 Top Packer Depth 2916 Drill Collars Run 305 Vls 41
 Bottom Packer Depth 2921 Wt. Pipe Run 0 WL _____
 Total Depth 2948 Chlorides _____ ppm System LCM _____
 Blow Description IF- weak blow building to Strong blow 8 mins into IFF
FF- ~~weak~~ weak blow building to Strong blow 8 mins into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>925</u>	<u>Mud cut water</u>			<u>92</u>	<u>8</u>
<u>100</u>	<u>Heavy mud cut water</u>			<u>65</u>	<u>35</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1025 BHT 124 Gravity _____ API RW 0.158 @ 82.8 °F Chlorides 33000 ppm
 (A) Initial Hydrostatic 1416 Test 1050 T-On Location 1130
 (B) First Initial Flow 19 Jars _____ T-Started 1245
 (C) First Final Flow 233 Safety Joint _____ T-Open 1432
 (D) Initial Shut-In 949 Circ Sub _____ T-Pulled 1832
 (E) Second Initial Flow 240 Hourly Standby _____ T-Out 2045
 (F) Second Final Flow 470 Mileage RT 120 Comments _____
 (G) Final Shut-In 945 Sampler _____
 (H) Final Hydrostatic 1394 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1170
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1170

Approved By _____ Our Representative Jimmy Ricketts
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63805

Well Name & No. Youngmeyer #3-2 Test No. 3 Date 7-14-18
 Company Murfin Drilling Co., Inc. Elevation 1484 KB 1475 GL
 Address 250 N. Water Suite 300 Wichita KS, 67202
 Co. Rep / Geo. Shauna Gunzelman / Jeff Christian Rig CTG #2
 Location: Sec. 2 Twp 29 S Rge. 8 E Co. EIK State KS

Interval Tested 3106 - 3121 Zone Tested Arbuckle
 Anchor Length 15' Drill Pipe Run 2798 Mud Wt. 9.6
 Top Packer Depth 3101 Drill Collars Run 305 Vis 49
 Bottom Packer Depth 3106 Wt. Pipe Run 0 WL _____
 Total Depth 3121 Chlorides _____ ppm System LCM _____
 Blow Description IF - Weak surface blow throughout IFP
FF - No blow throughout FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil spotted mud</u>	<u>TR</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1534</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>11</u>	<input type="checkbox"/> Jars _____	T-Started <u>1315</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1454</u>
(D) Initial Shut-In <u>1027</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1754</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1930</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>80 RT 80</u>	Comments _____
(G) Final Shut-In <u>994</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1508</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1130</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1130</u>	

Approved By _____ Our Representative Jimmy Nichols
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63806

Well Name & No. Young meyer # 3-2 Test No. 4 Date 7-15-18
 Company Murfin Drilling Elevation 1484 KB 1475 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Shauna Ganzelman / Jeff Christian Rig C+G Drilling #2
 Location: Sec. 2 Twp 29 S Rge. 8 E Co. ELK State KS.

Interval Tested 3121-3128 Zone Tested Arbuckle
 Anchor Length 7' Drill Pipe Run 2828 Mud Wt. 9.6
 Top Packer Depth 3116 Drill Collars Run 305 Vis 49
 Bottom Packer Depth 3121 Wt. Pipe Run 0 WL _____
 Total Depth 3128 Chlorides _____ ppm System LCM _____
 Blow Description IF - Surface blow throughout IFP
FF - No blow throughout FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>water cut mud</u>			<u>11</u>	<u>89</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1530</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0000</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars _____	T-Started <u>0027</u>
(C) First Final Flow <u>18</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0226</u>
(D) Initial Shut-In <u>1080</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0526</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0730</u>
(F) Second Final Flow <u>24</u>	<input type="checkbox"/> Mileage <u>None</u>	Comments _____
(G) Final Shut-In <u>1075</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1528</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1050</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1050</u>	

Approved By Jeff Chute Our Representative Jimmy Richels

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