

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	Knighton Oil Company, Inc.
Well Name	CRAWFORD 1
Doc ID	1672167

All Electric Logs Run

Micro
DIL
Comp Density/Neutron PE
Sonic



DRILL STEM TEST REPORT

Prepared For: **Knighthon Oil**

1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206

ATTN: Kevin Kessler

Crawford #1

3-15s-21w Trego,KS

Start Date: 2022.06.30 @ 15:05:00

End Date: 2022.06.30 @ 21:35:15

Job Ticket #: 68123 DST #: 1

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

Printed: 2022.07.06 @ 16:40:08

Knighthon Oil
3-15s-21w Trego,KS
Crawford #1
DST # 1
LKC 180 zone
2022.06.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Knighton Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS

Crawford #1

Job Ticket: 68123

DST#: 1

Test Start: 2022.06.30 @ 15:05:00

GENERAL INFORMATION:

Formation: **LKC 180 zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:10:00
 Time Test Ended: 21:35:15
 Interval: **3605.00 ft (KB) To 3645.00 ft (KB) (TVD)**
 Total Depth: 3645.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley w alter
 Unit No: 78
 Reference Elevations: 2088.00 ft (KB)
 2081.00 ft (CF)
 KB to GR/CF: 7.00 ft

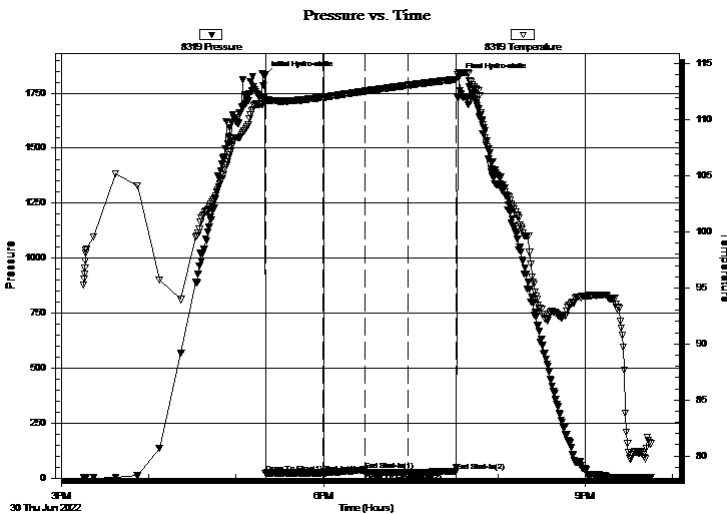
Serial #: 8319

Inside

Press@RunDepth: 24.98 psig @ 3606.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.30 End Date: 2022.06.30 Last Calib.: 2022.06.30
 Start Time: 15:15:05 End Time: 21:45:14 Time On Btm: 2022.06.30 @ 17:19:45
 Time Off Btm: 2022.06.30 @ 19:33:00

TEST COMMENT: IF: 1/4" blow .
 IS: No return.
 FF: No blow .
 FS: No return. 30-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.95	112.10	Initial Hydro-static
1	23.04	111.57	Open To Flow (1)
40	24.11	112.02	Shut-In(1)
69	38.02	112.56	End Shut-In(1)
69	24.01	112.56	Open To Flow (2)
99	24.98	113.09	Shut-In(2)
132	32.16	113.62	End Shut-In(2)
134	1823.01	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Knighton Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

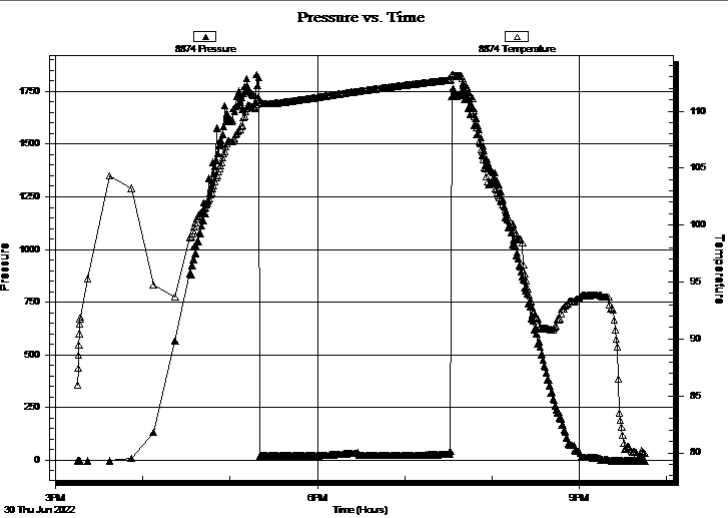
3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68123 **DST#: 1**
Test Start: 2022.06.30 @ 15:05:00

GENERAL INFORMATION:

Formation: **LKC 180 zone**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 17:10:00 Tester: Bradley w alter
Time Test Ended: 21:35:15 Unit No: 78
Interval: 3605.00 ft (KB) To 3645.00 ft (KB) (TVD) Reference Elevations: 2088.00 ft (KB)
Total Depth: 3645.00 ft (KB) (TVD) 2081.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8874 Outside
Press@RunDepth: psig @ 3606.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.06.30 End Date: 2022.06.30 Last Calib.: 2022.06.30
Start Time: 15:15:05 End Time: 21:45:14 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow .
IS: No return.
FF: No blow .
FS: No return. 30-30-30-30



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

Length (ft)	Description	Volume (bbl)
5.00	mud 100m (oil spots)	0.02

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68123 **DST#: 1**
Test Start: 2022.06.30 @ 15:05:00

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight:	2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 49.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3605.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3576.00	
Shut In Tool	5.00			3581.00	
Hydraulic tool	5.00			3586.00	
Jars	5.00			3591.00	
EM Tool	3.00			3594.00	
Safety Joint	2.00			3596.00	
Packer	5.00			3601.00	30.00 Bottom Of Top Packer
Packer	4.00			3605.00	
Stubb	1.00			3606.00	
Recorder	0.00	8319	Inside	3606.00	
Recorder	0.00	8874	Outside	3606.00	
Perforations	36.00			3642.00	
Bullnose	3.00			3645.00	40.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighthon Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68123 **DST#: 1**
Test Start: 2022.06.30 @ 15:05:00

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:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m (oil spots)	0.025

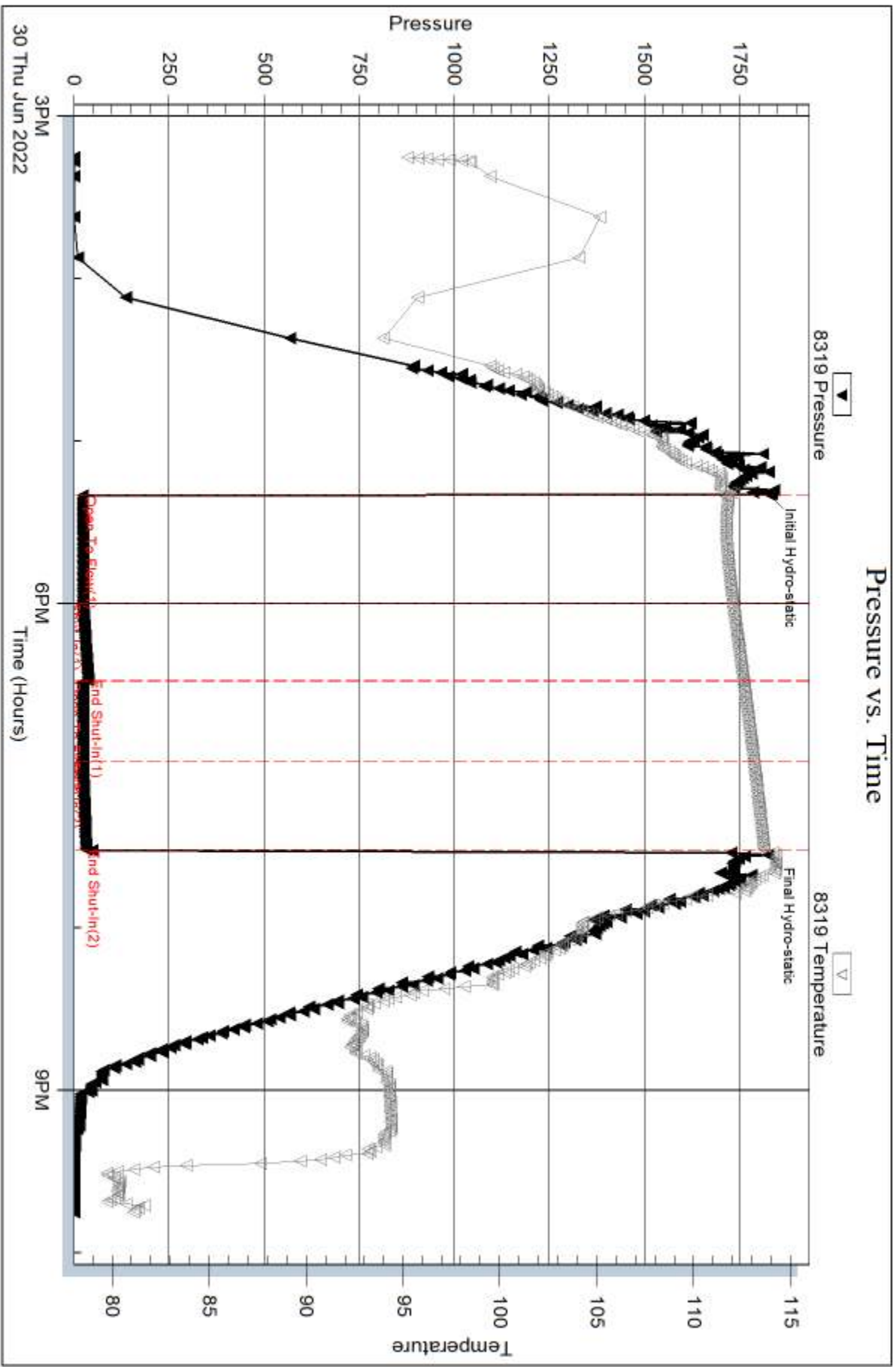
Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8319

Inside Knighton Oil

Crawford #1

DST Test Number: 1

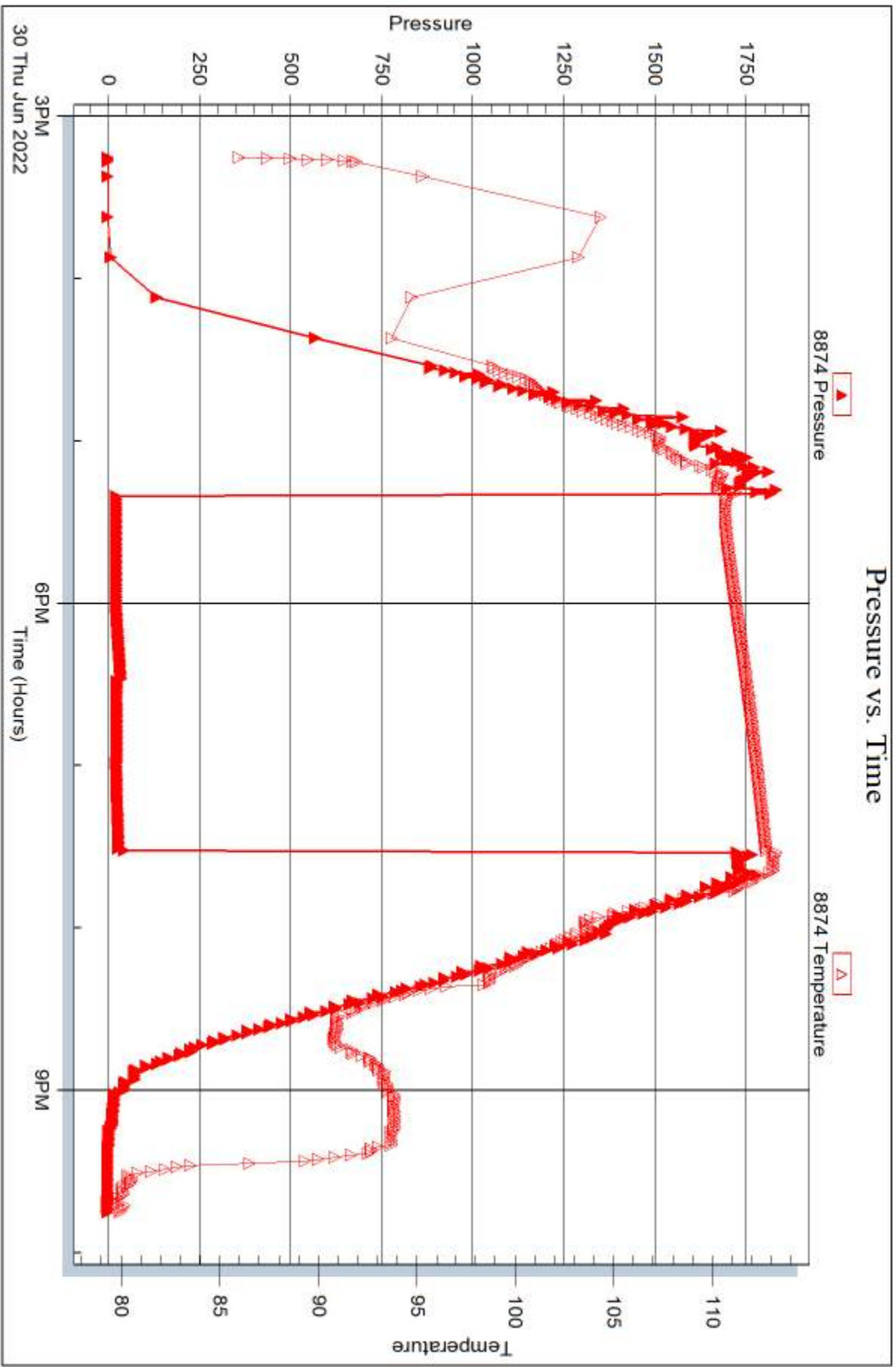


Serial #: 8874

Outside Knighton Oil

Crawford #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68123

Printed: 2022.07.06 @ 16:41:54



DRILL STEM TEST REPORT

Prepared For: **Knighthon Oil**

1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206

ATTN: Kevin Kessler

Crawford #1

3-15s-21w Trego,KS

Start Date: 2022.07.01 @ 14:48:00

End Date: 2022.07.01 @ 22:48:45

Job Ticket #: 68124 DST #: 2

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

Printed: 2022.07.06 @ 16:38:58

Knighthon Oil
3-15s-21w Trego,KS
Crawford #1
DST # 2
Pawnee
2022.07.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Knighton Oil
 1700 N Waterfront Pkw y
 Bldg 100 Ste A
 Wichita, KS 67206
 ATTN: Kevin Kessler

3-15s-21w Trego,KS

Crawford #1

Job Ticket: 68124

DST#: 2

Test Start: 2022.07.01 @ 14:48:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:55:15
 Time Test Ended: 22:48:45
 Interval: **3775.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3645.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley w alter
 Unit No: 78
 Reference Elevations: 2088.00 ft (KB)
 2081.00 ft (CF)
 KB to GR/CF: 7.00 ft

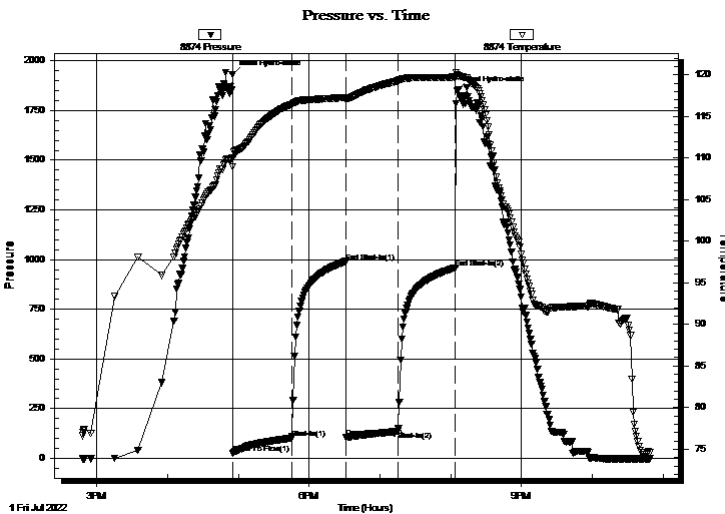
Serial #: 8874

Outside

Press@RunDepth: 135.83 psig @ 3776.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.01 End Date: 2022.07.01 Last Calib.: 2022.07.01
 Start Time: 14:48:05 End Time: 22:48:44 Time On Btm: 2022.07.01 @ 16:55:00
 Time Off Btm: 2022.07.01 @ 20:05:30

TEST COMMENT: IF: BOB @ 28 min. 13 3/4" blow .
 IS: No return.
 FF: 8 3/4" blow .
 FS: No return. 45-45-45-45

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.56	110.01	Initial Hydro-static
1	26.30	108.95	Open To Flow (1)
51	101.97	116.44	Shut-In(1)
96	990.82	117.28	End Shut-In(1)
97	105.54	117.00	Open To Flow (2)
141	135.83	119.25	Shut-In(2)
189	958.66	119.71	End Shut-In(2)
191	1851.11	119.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 5m 95w (oil spots)	1.99
80.00	oil 100o	1.12
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil
 1700 N Waterfront Pkw y
 Bldg 100 Ste A
 Wichita, KS 67206
 ATTN: Kevin Kessler

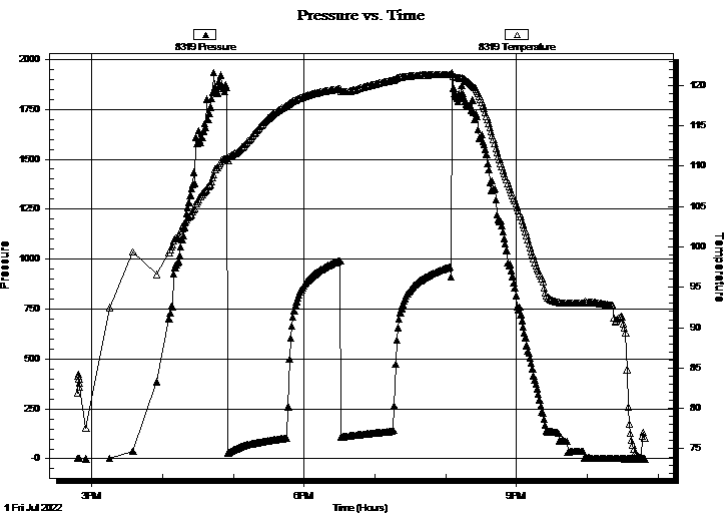
3-15s-21w Trego,KS
Crawford #1
 Job Ticket: 68124 **DST#: 2**
 Test Start: 2022.07.01 @ 14:48:00

GENERAL INFORMATION:

Formation:	Pawnee		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	16:55:15		Tester: Bradley w alter
Time Test Ended:	22:48:45		Unit No: 78
Interval:	3775.00 ft (KB) To 3790.00 ft (KB) (TVD)		Reference Elevations: 2088.00 ft (KB)
Total Depth:	3645.00 ft (KB) (TVD)		2081.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft

Serial #: 8319	Inside				
Press@RunDepth:	psig @	3776.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2022.07.01	End Date:	2022.07.01	Last Calib.:	2022.07.01
Start Time:	14:48:05	End Time:	22:48:59	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: BOB @ 28 min. 13 3/4" blow .
 IS: No return.
 FF: 8 3/4" blow .
 FS: No return. 45-45-45-45



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 5m 95w (oil spots)	1.99
80.00	oil 100o	1.12
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68124 **DST#: 2**
Test Start: 2022.07.01 @ 14:48:00

Tool Information

Drill Pipe:	Length: 3655.00 ft	Diameter: 3.80 inches	Volume: 51.27 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 51.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3775.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3746.00	
Shut In Tool	5.00			3751.00	
Hydraulic tool	5.00			3756.00	
Jars	5.00			3761.00	
EM Tool	3.00			3764.00	
Safety Joint	2.00			3766.00	
Packer	5.00			3771.00	30.00 Bottom Of Top Packer
Packer	4.00			3775.00	
Stubb	1.00			3776.00	
Recorder	0.00	8319	Inside	3776.00	
Recorder	0.00	8874	Outside	3776.00	
Perforations	11.00			3787.00	
Bullnose	3.00			3790.00	15.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68124 **DST#: 2**
Test Start: 2022.07.01 @ 14:48:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 24000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	mcw 5m 95w (oil spots)	1.993
80.00	oil 100o	1.122
0.00	90' GIP	0.000

Total Length: 300.00 ft Total Volume: 3.115 bbl

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

Laboratory Name: Laboratory Location:

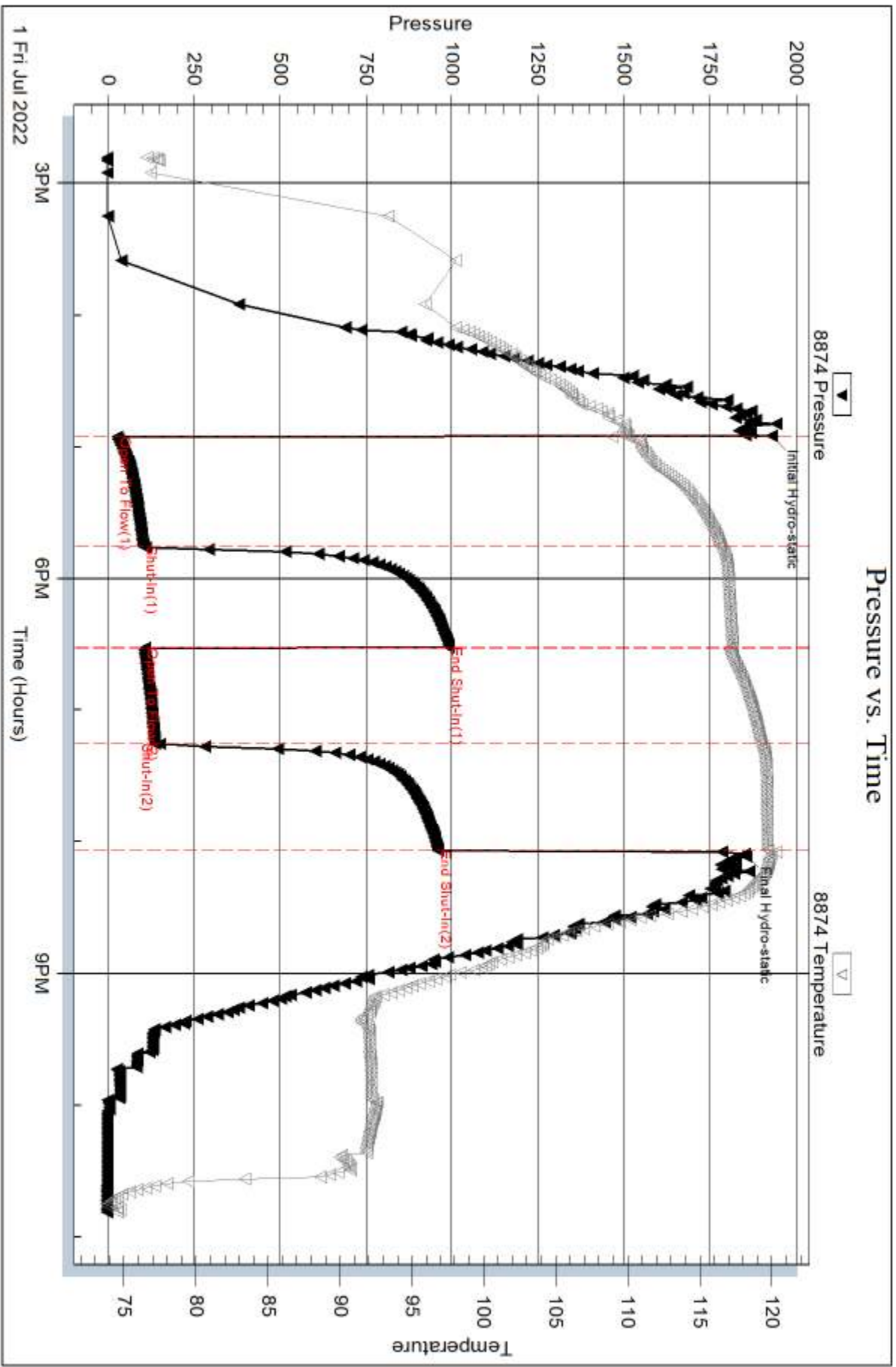
Recovery Comments: rw is .260 @ 73f = 24000ppm

Serial #: 8874

Outside Knighton Oil

Crawford #1

DST Test Number: 2

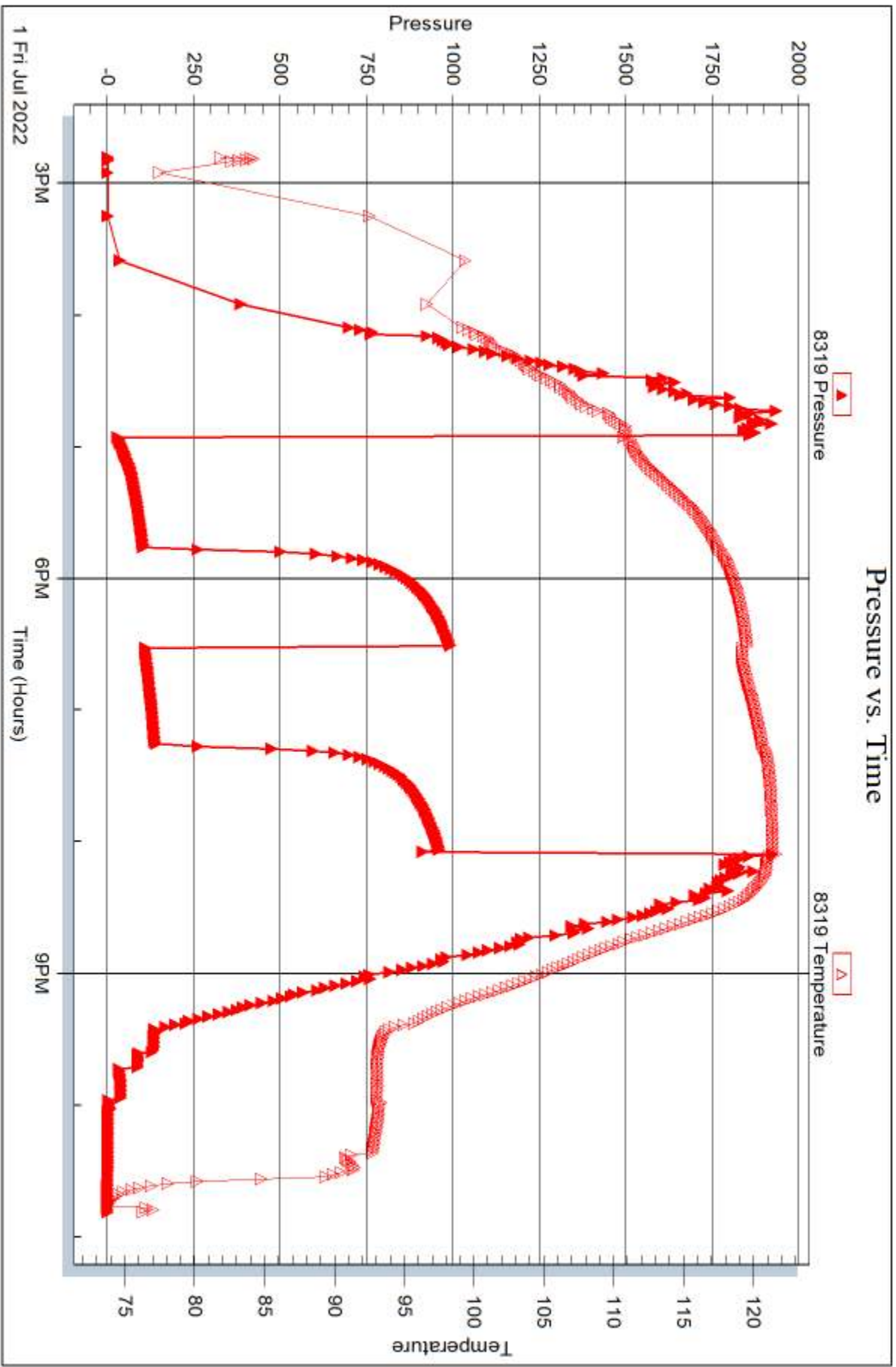


Serial #: 8319

Inside Knighton Oil

Crawford #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 68124

Printed: 2022.07.06 @ 16:39:28



DRILL STEM TEST REPORT

Prepared For: **Knighton Oil**

1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206

ATTN: Kevin Kessler

Crawford #1

3-15s-21w Trego,KS

Start Date: 2022.07.02 @ 14:29:00

End Date: 2022.07.02 @ 22:48:30

Job Ticket #: 68125 DST #: 3

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

Printed: 2022.07.06 @ 16:34:51

Knighton Oil
3-15s-21w Trego,KS
Crawford #1
DST # 3
Cherokee Sand
2022.07.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Knighton Oil
 1700 N Waterfront Pkw y
 Bldg 100 Ste A
 Wichita, KS 67206
 ATTN: Kevin Kessler

3-15s-21w Trego,KS

Crawford #1

Job Ticket: 68125

DST#: 3

Test Start: 2022.07.02 @ 14:29:00

GENERAL INFORMATION:

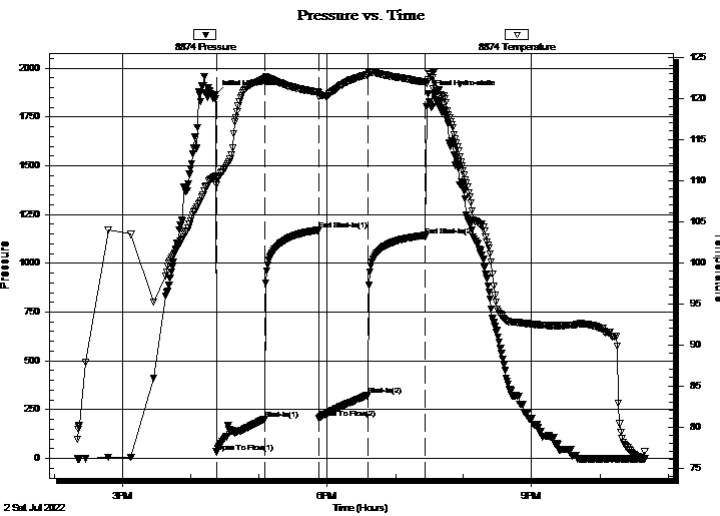
Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:31:15
 Time Test Ended: 22:48:30
 Interval: **3815.00 ft (KB) To 3865.00 ft (KB) (TVD)**
 Total Depth: 3865.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley w alter
 Unit No: 78
 Reference Elevations: 2088.00 ft (KB)
 2081.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8874

Outside

Press@RunDepth: 324.71 psig @ 3816.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.02 End Date: 2022.07.02 Last Calib.: 2022.07.02
 Start Time: 14:20:05 End Time: 22:39:29 Time On Btm: 2022.07.02 @ 16:21:45
 Time Off Btm: 2022.07.02 @ 19:28:30

TEST COMMENT: IF: BOB @ 18 min - 28" blow .
 IS: No return.
 FF: BOB @ 17 min. 29" blow .
 FS: No return. 45-45-45-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1863.87	110.57	Initial Hydro-static
1	32.95	109.50	Open To Flow (1)
43	200.82	122.34	Shut-In(1)
91	1170.10	120.71	End Shut-In(1)
91	207.57	120.22	Open To Flow (2)
134	324.71	122.87	Shut-In(2)
184	1142.79	121.98	End Shut-In(2)
187	1866.58	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gomcw 10g 15o 20m 55w	0.59
360.00	gomcw 20g 20o 25m 35w	5.05
170.00	gw ocm 10g 20w 30o 40m	2.38

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Knighton Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

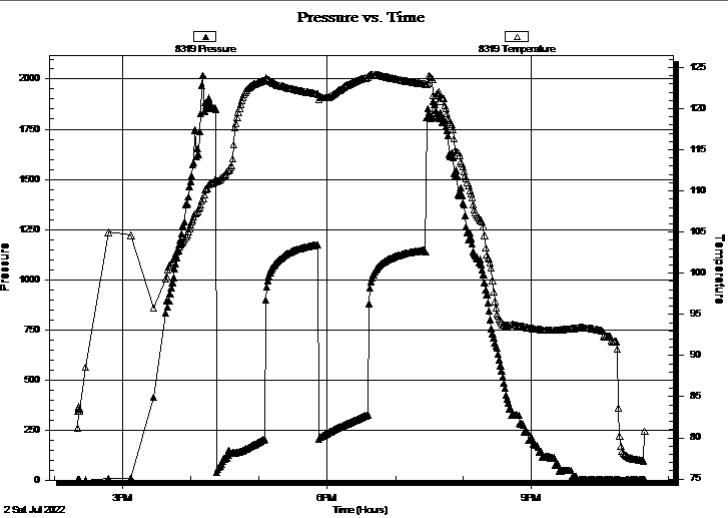
3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68125 **DST#: 3**
Test Start: 2022.07.02 @ 14:29:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:31:15 Tester: Bradley w alter
Time Test Ended: 22:48:30 Unit No: 78
Interval: 3815.00 ft (KB) To 3865.00 ft (KB) (TVD) Reference Elevations: 2088.00 ft (KB)
Total Depth: 3865.00 ft (KB) (TVD) 2081.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8319 Inside
Press@RunDepth: psig @ 3816.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.07.02 End Date: 2022.07.02 Last Calib.: 2022.07.02
Start Time: 14:20:05 End Time: 22:39:29 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB @ 18 min - 28" blow .
IS: No return.
FF: BOB @ 17 min. 29" blow .
FS: No return. 45-45-45-45



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

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	gomcw 10g 15o 20m 55w	0.59
360.00	gomcw 20g 20o 25m 35w	5.05
170.00	gw ocm 10g 20w 30o 40m	2.38

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68125 **DST#: 3**
Test Start: 2022.07.02 @ 14:29:00

Tool Information

Drill Pipe:	Length: 3687.00 ft	Diameter: 3.80 inches	Volume: 51.72 bbl	Tool Weight:	2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3815.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	80.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3786.00	
Shut In Tool	5.00			3791.00	
Hydraulic tool	5.00			3796.00	
Jars	5.00			3801.00	
EM Tool	3.00			3804.00	
Safety Joint	2.00			3806.00	
Packer	5.00			3811.00	30.00 Bottom Of Top Packer
Packer	4.00			3815.00	
Stubb	1.00			3816.00	
Recorder	0.00	8319	Inside	3816.00	
Recorder	0.00	8874	Outside	3816.00	
Perforations	13.00			3829.00	
Change Over Sub	1.00			3830.00	
Drill Pipe	31.00			3861.00	
Change Over Sub	1.00			3862.00	
Bullnose	3.00			3865.00	50.00 Bottom Packers & Anchor
Total Tool Length:	80.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighton Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68125 **DST#: 3**
Test Start: 2022.07.02 @ 14:29:00

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: 37000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.58 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gomcw 10g 15o 20m 55w	0.590
360.00	gomcw 20g 20o 25m 35w	5.050
170.00	gw ocm 10g 20w 30o 40m	2.385

Total Length: 650.00 ft Total Volume: 8.025 bbl

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

Laboratory Name: Laboratory Location:

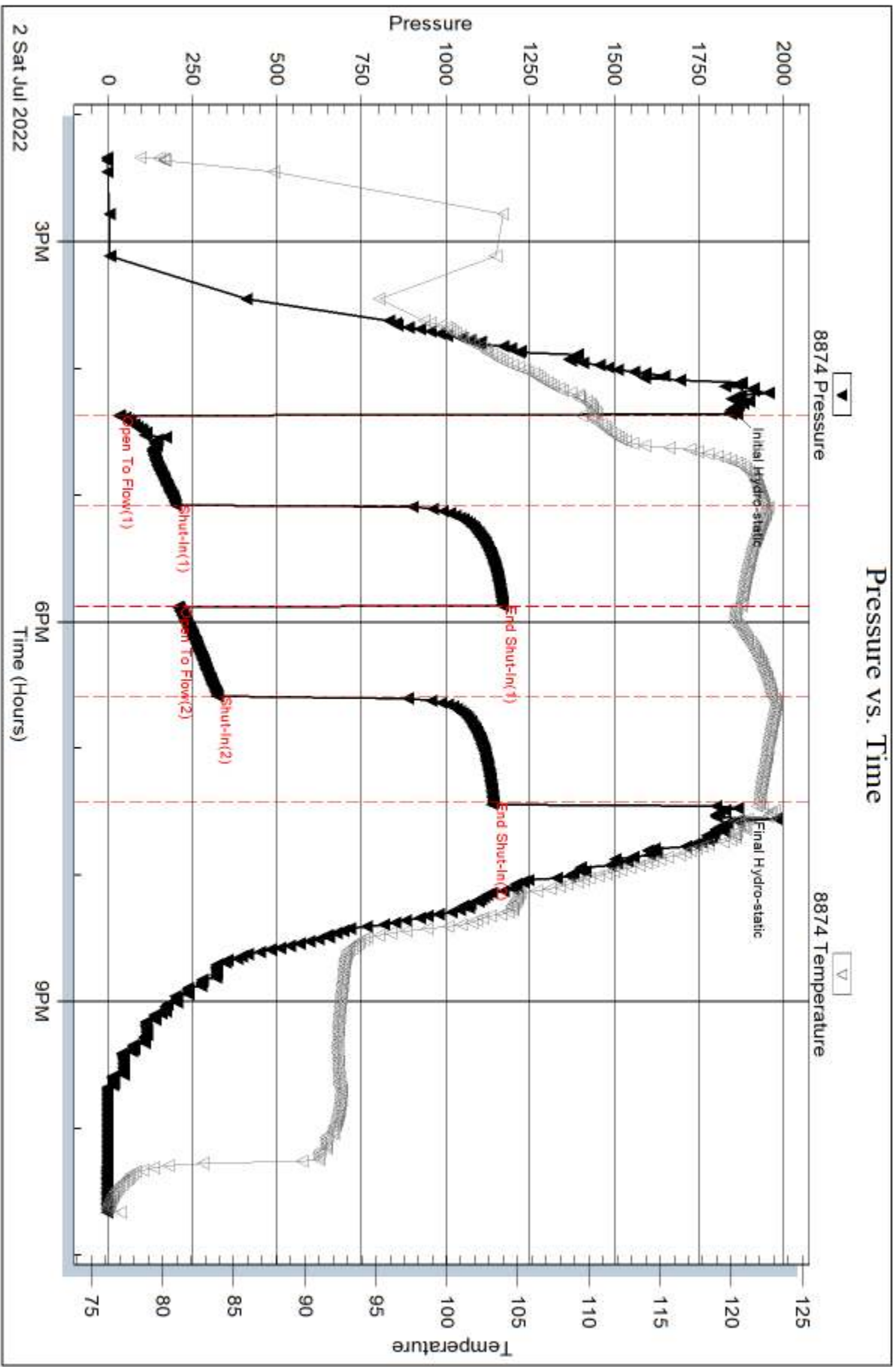
Recovery Comments: rw is ,171 @ 75f = 37000

Serial #: 8874

Outside Knighton Oil

Crawford #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68125

Printed: 2022.07.06 @ 16:34:52

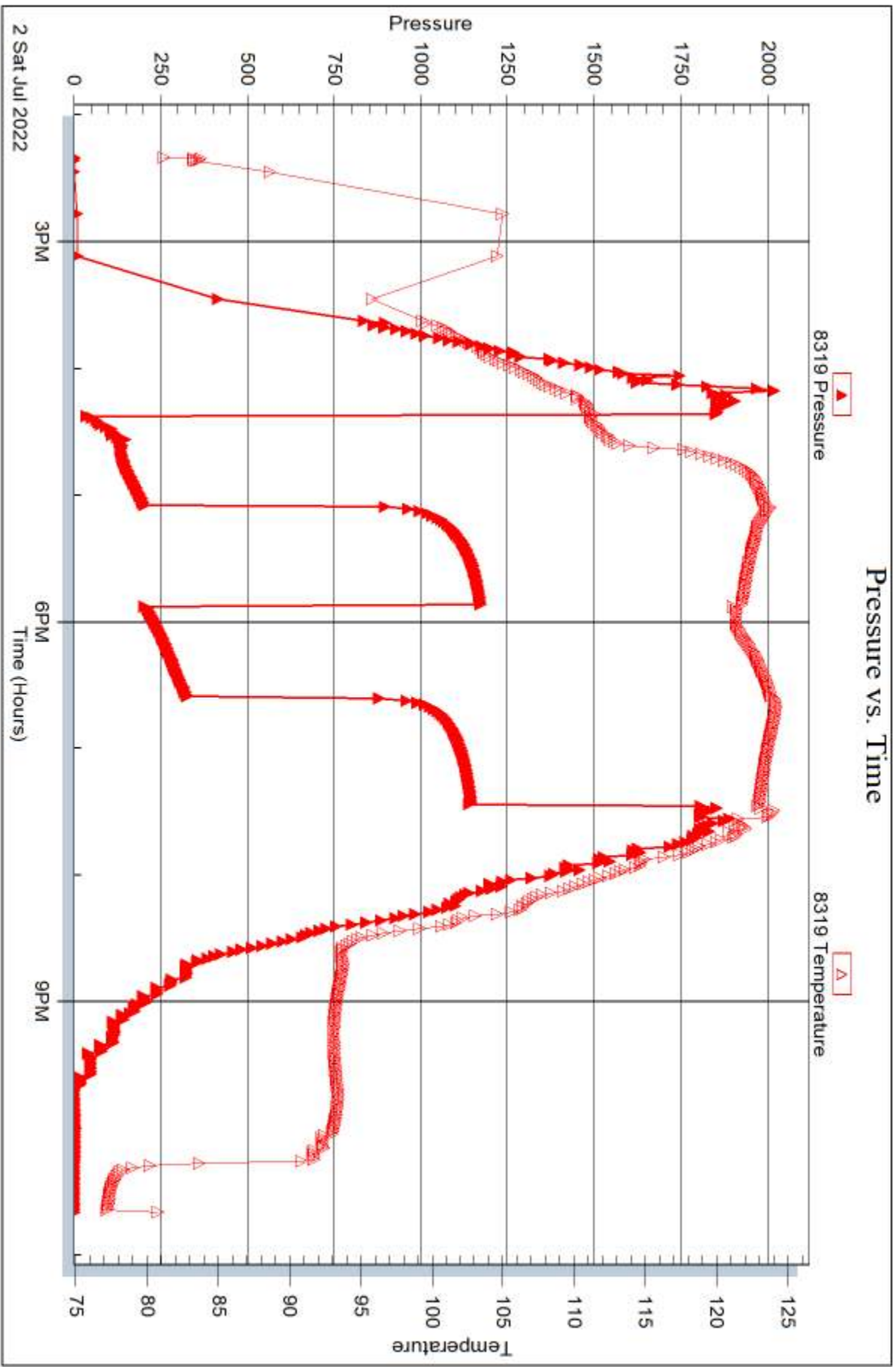
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Inside

Knighton Oil

Crawford #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68125

Printed: 2022.07.06 @ 16:34:52



DRILL STEM TEST REPORT

Prepared For: **Knighthon Oil**

1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206

ATTN: Kevin Kessler

Crawford #1

3-15s-21w Trego,KS

Start Date: 2022.07.03 @ 17:50:00

End Date: 2022.07.04 @ 02:54:45

Job Ticket #: 68127 DST #: 4

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

Printed: 2022.07.06 @ 16:34:19

Knighthon Oil
3-15s-21w Trego,KS
Crawford #1
DST # 4
Cherokee Sand
2022.07.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Knighton Oil
1700 N Waterfront Pkw y
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS

Crawford #1

Job Ticket: 68127

DST#: 4

Test Start: 2022.07.03 @ 17:50:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:00

Time Test Ended: 02:54:45

Test Type: Conventional Straddle (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3820.00 ft (KB) To 3852.00 ft (KB) (TVD)

Total Depth: 3960.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2088.00 ft (KB)

2081.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press@RunDepth: 85.60 psig @ 3821.00 ft (KB)

Start Date: 2022.07.03

End Date:

2022.07.04

Start Time: 17:50:05

End Time:

02:54:45

Capacity: 8000.00 psig

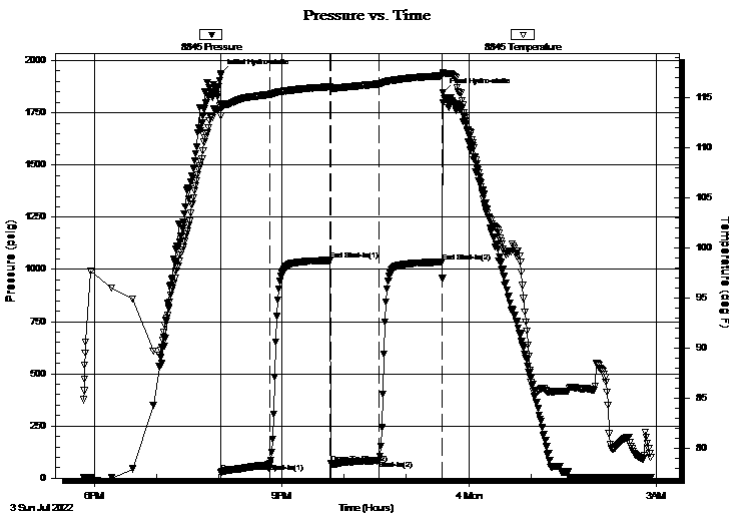
Last Calib.: 2022.07.04

Time On Btm: 2022.07.03 @ 20:01:30

Time Off Btm: 2022.07.03 @ 23:35:30

TEST COMMENT: IF: 3 3/4" blow .
IS: No return.
FF: 8 3/4" blow .
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.15	114.27	Initial Hydro-static
1	27.62	113.14	Open To Flow (1)
48	68.88	115.32	Shut-In(1)
106	1043.78	116.07	End Shut-In(1)
107	69.61	115.88	Open To Flow (2)
153	85.60	116.36	Shut-In(2)
213	1035.65	117.16	End Shut-In(2)
214	1847.19	117.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	gw ocm 5g 10w 35o 50m	0.87
20.00	oil 100o	0.28

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Knighton Oil
 1700 N Waterfront Pkwy
 Bldg 100 Ste A
 Wichita, KS 67206
 ATTN: Kevin Kessler

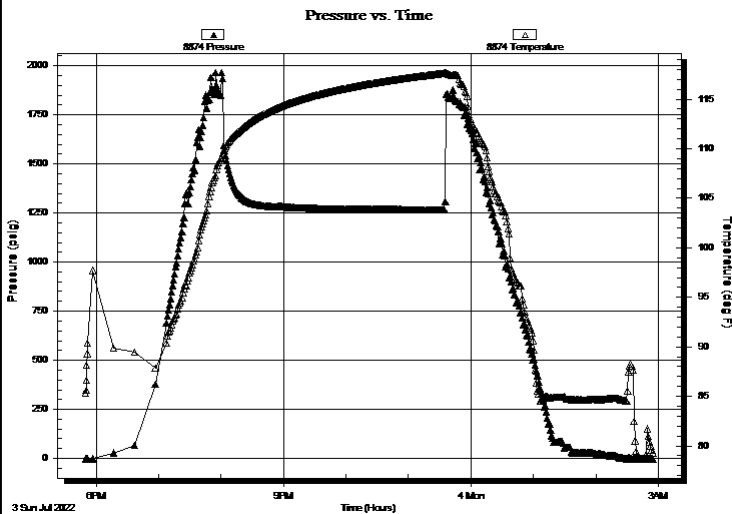
3-15s-21w Trego,KS
Crawford #1
 Job Ticket: 68127 **DST#: 4**
 Test Start: 2022.07.03 @ 17:50:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 20:02:00 Tester: Bradley Walter
 Time Test Ended: 02:54:45 Unit No: 78
Interval: 3820.00 ft (KB) To 3852.00 ft (KB) (TVD) Reference Elevations: 2088.00 ft (KB)
 Total Depth: 3960.00 ft (KB) (TVD) 2081.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8874 Below (Straddle)
 Press@RunDepth: psig @ 3853.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.03 End Date: 2022.07.04 Last Calib.: 1899.12.30
 Start Time: 17:50:05 End Time: 02:55:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 3 3/4" blow .
 IS: No return.
 FF: 8 3/4" blow .
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	gw ocm 5g 10w 35o 50m	0.87
20.00	oil 100o	0.28

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Knighton Oil
 1700 N Waterfront Pkw y
 Bldg 100 Ste A
 Wichita, KS 67206
 ATTN: Kevin Kessler

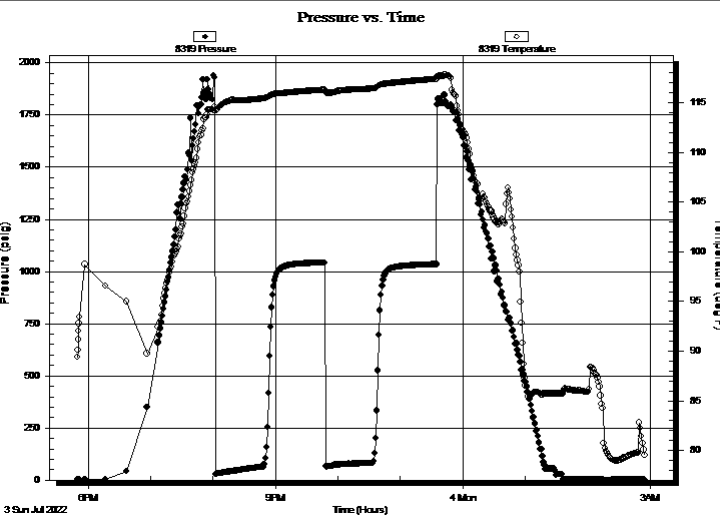
3-15s-21w Trego,KS
Crawford #1
 Job Ticket: 68127 **DST#: 4**
 Test Start: 2022.07.03 @ 17:50:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 20:02:00 Tester: Bradley Walter
 Time Test Ended: 02:54:45 Unit No: 78
Interval: 3820.00 ft (KB) To 3852.00 ft (KB) (TVD) Reference Elevations: 2088.00 ft (KB)
 Total Depth: 3960.00 ft (KB) (TVD) 2081.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8319 Inside
 Press@RunDepth: psig @ 3821.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.03 End Date: 2022.07.04 Last Calib.: 1899.12.30
 Start Time: 17:50:05 End Time: 02:55:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 3 3/4" blow .
 IS: No return.
 FF: 8 3/4" blow .
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
140.00	gw ocm 5g 10w 35o 50m	0.87
20.00	oil 100o	0.28

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68127 **DST#: 4**
Test Start: 2022.07.03 @ 17:50:00

Tool Information

Drill Pipe:	Length: 3688.00 ft	Diameter: 3.80 inches	Volume: 51.73 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3820.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3849.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	170.00 ft			
Number of Packers:	2	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3791.00	
Shut In Tool	5.00			3796.00	
Hydraulic tool	5.00			3801.00	
Jars	5.00			3806.00	
EM Tool	3.00			3809.00	
Safety Joint	2.00			3811.00	
Packer	5.00			3816.00	30.00 Bottom Of Top Packer
Packer	4.00			3820.00	
Stubb	1.00			3821.00	
Recorder	0.00	8319	Inside	3821.00	
Recorder	0.00	8845	Outside	3821.00	
Perforations	27.00			3848.00	
Blank Off Sub	1.00			3849.00	29.00 Tool Interval
Packer	3.00			3852.00	
Blank Spacing	1.00			3853.00	
Recorder	0.00	8874	Below	3853.00	
Perforations	7.00			3860.00	
Change Over Sub	1.00			3861.00	
Drill Pipe	95.00			3956.00	
Change Over Sub	1.00			3957.00	
Bullnose	3.00			3960.00	111.00 Bottom Packers & Anchor

Total Tool Length: 170.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighton Oil
1700 N Waterfront Pkwy
Bldg 100 Ste A
Wichita, KS 67206
ATTN: Kevin Kessler

3-15s-21w Trego,KS
Crawford #1
Job Ticket: 68127 **DST#: 4**
Test Start: 2022.07.03 @ 17:50:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	gw ocm 5g 10w 35o 50m	0.871
20.00	oil 100o	0.281

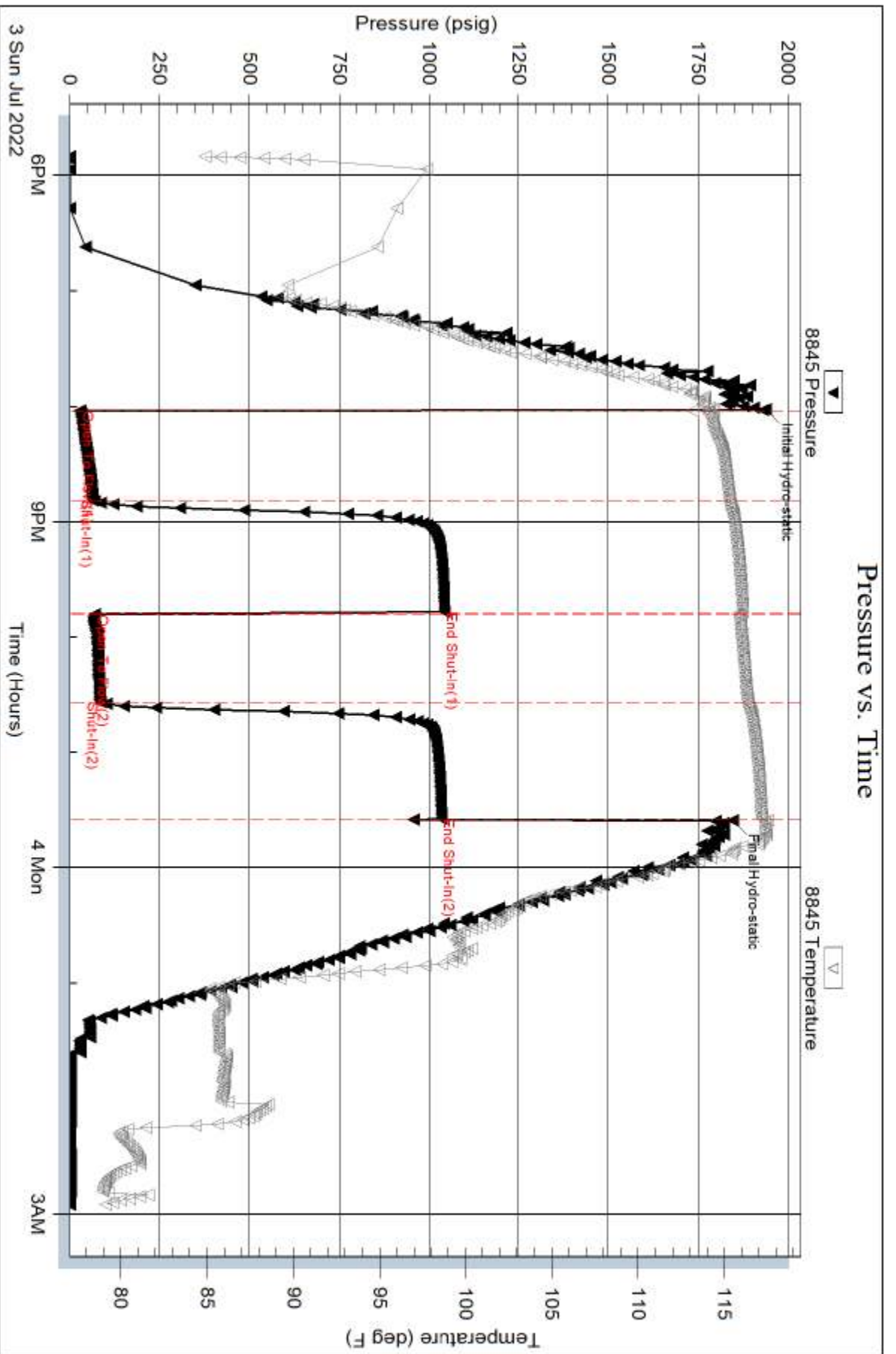
Total Length: 160.00 ft Total Volume: 1.152 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8845

Outside Knighton Oil

Crawford #1

DST Test Number: 4



Serial #: 8874

Below (Strat) Oil

Crawford #1

DST Test Number: 4



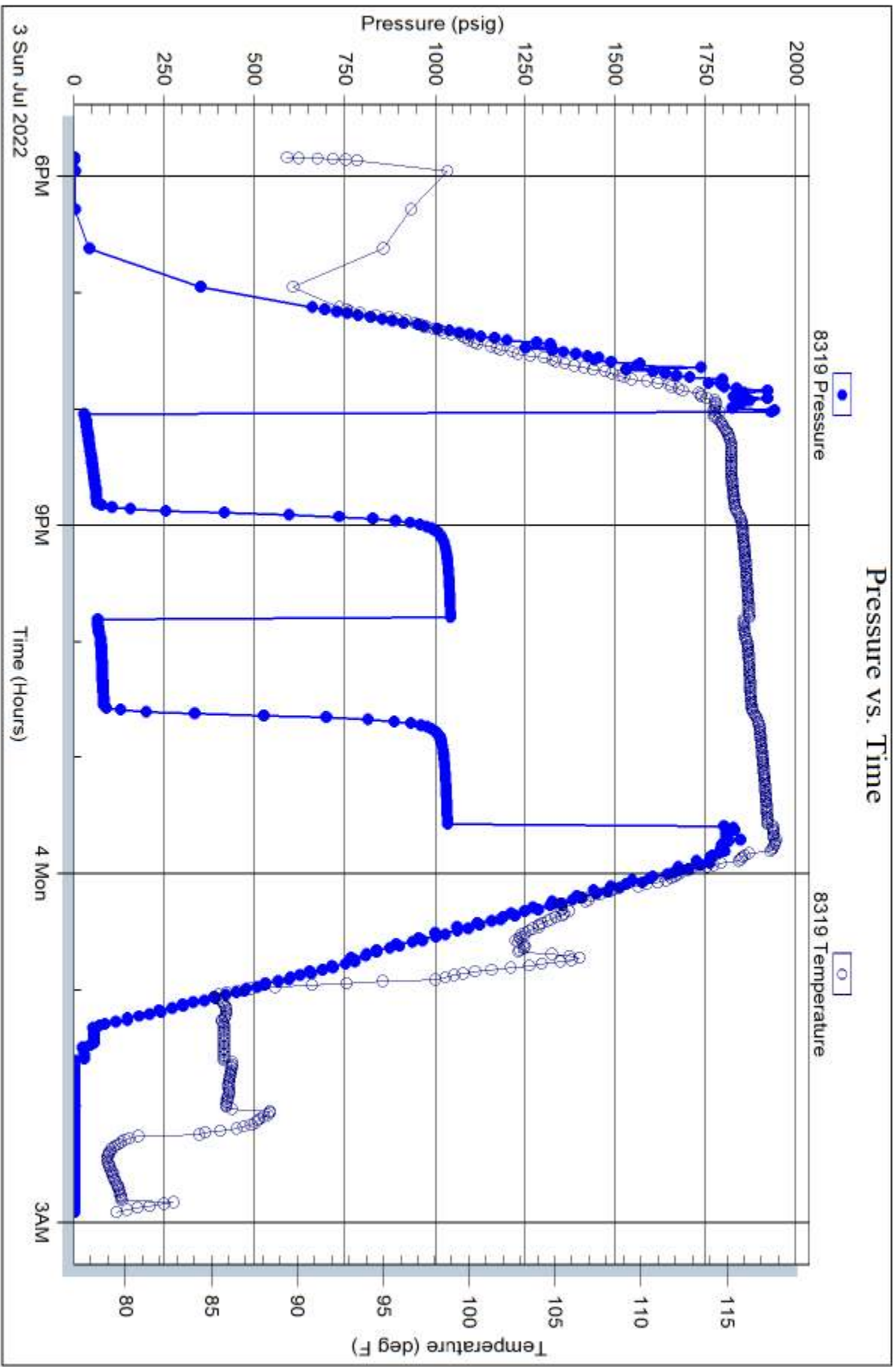
Serial #: 8319

Inside

Knighton Oil

Crawford #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68123

Well Name & No. Crawford #1 Test No. 1 Date 06/30/2022
 Company Knighton Oil Elevation 2088 KB 2081 GL
 Address 1700 N Waterfront Pkwy Bldg 100 Ste A Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig STP #2
 Location: Sec. 3 Twp 15S Rge. 21W Co. Trego State Ks

Interval Tested 3605-3645 Zone Tested LKC 180 zone
 Anchor Length 40 Drill Pipe Run 3465 Mud Wt. 9.3
 Top Packer Depth 3600 Drill Collars Run 120 Vls 52
 Bottom Packer Depth 3605 Wt. Pipe Run — WL 8.8
 Total Depth 3645 Chlorides 8,000 ppm System LCM 2.5#

Blow Description IF 1/4" blow
ISI No return,
FF No blow
FBI No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 1827 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1827</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1515</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1820</u>
(D) Initial Shut-In <u>38</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1930</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2145</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>52rt 78</u>	Comments
(G) Final Shut-In <u>32</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1823</u>	<input type="checkbox"/> Straddle	

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

Shale Packer x2 500
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Sub Total 0
 Total 2676
 Sub Total 2676 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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 sustained 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. 68124

Well Name & No. Crawford #1 Test No. 2 Date 07/01/2022
 Company Knighton Oil Elevation 2088 KB 2081 GL
 Address Wichita Ks
 Co. Rep / Geo. Kexin Kessler Rig STP #1
 Location: Sec. 3 Twp 15s Rge. 21w Co. Trego State Ks

Interval Tested 3775 - 3790 Zone Tested Pawnee
 Anchor Length 15' Drill Pipe Run 3655 Mud Wt. 9.2
 Top Packer Depth 3770 Drill Collars Run 120 Vls 55
 Bottom Packer Depth 3775 Wt. Pipe Run — WL 8.8
 Total Depth 3790 Chlorides 8000 ppm System LCM 2#

Blow Description IF BOB@ 28mm - B.S" blow
ISI No return
PF 3/4" blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>oil</u>	<u>100</u>			
<u>220</u>	<u>mcw oil spots</u>		<u>95</u>	<u>5</u>	
	<u>90' GTP</u>				

Rec Total 280' BHT 120 Gravity 38 API RW 260 @ 73 °F Chlorides 24000 ppm

(A) Initial Hydrostatic <u>1929</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1448</u>
(C) First Final Flow <u>101</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1700</u>
(D) Initial Shut-In <u>990</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2000</u>
(E) Second Initial Flow <u>105</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2250</u>
(F) Second Final Flow <u>135</u>	<input checked="" type="checkbox"/> Mileage <u>78</u>	Comments
(G) Final Shut-In <u>958</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1851</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>45</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2426</u>
	Sub Total <u>2426</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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. 68125

Well Name & No. Crawford #1 Test No. 3 Date 07/02/2022
 Company Knights Oil Elevation 2088 KB 2081 GL
 Address Wichita, KS
 Co. Rep / Geo. Kevin Kessler Rig STP #2
 Location: Sec. 3 Twp 15S Rge. 21W Co. Trego State KS

Interval Tested 3815 3865 Zone Tested Cherokee Sand
 Anchor Length 50 Drill Pipe Run 3687 Mud Wt. 9.3
 Top Packer Depth 3810 Drill Collars Run 120 Vls 52
 Bottom Packer Depth 3815 Wt. Pipe Run — WL 9.6
 Total Depth 3865 Chlorides 6000 ppm System LCM 2#
 Blow Description IF BOB @ 18 min 29" blow
ISI No return.
FF BOB @ 17 min - 29"
FSL No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>GWOCM</u>	<u>10</u>	<u>30</u>	<u>20</u>	<u>40</u>
<u>360</u>	<u>60 MCW</u>	<u>20</u>	<u>20</u>	<u>35</u>	<u>25</u>
<u>120</u>	<u>60 MCW</u>	<u>10</u>	<u>15</u>	<u>55</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 650 BHT 123 Gravity — API RW .171 @ 75 °F Chlorides 3700 ppm

(A) Initial Hydrostatic 1863 Test 1800 T-On Location 1400
 (B) First Initial Flow 3243 Jars 300 T-Started 1420
 (C) First Final Flow 200 Safety Joint _____ T-Open 1615
 (D) Initial Shut-In 1170 Circ Sub _____ T-Pulled 1915
 (E) Second Initial Flow 207 Hourly Standby _____ T-Out 2239
 (F) Second Final Flow 324 Mileage 76 Comments _____
 (G) Final Shut-In 1142 Sampler _____
 (H) Final Hydrostatic 1866 Straddle _____ EM Tool _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2426
 Sub Total 2426 MP/DST Disc# _____

Approved By _____ Our Representative [Signature]

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. 68127

Well Name & No. Crawford #1 Test No. 4 Date 07/04/2022
 Company Knight Oil Elevation 2088 KB 2081 GL
 Address Wichita, Ks
 Co. Rep / Geo. Kevin Kessler Rig STP #2
 Location: Sec. 3 Twp 15S Rge. 21W Co. Trego State Ks

Interval Tested 3820 - 3852 Zone Tested Cherokee Sand
 Anchor Length 32 108-Tail Drill Pipe Run 3688 Mud Wt. 9.2
 Top Packer Depth 3815 + 3820 Drill Collars Run 120 Vis 49
 Bottom Packer Depth 3852 Wt. Pipe Run — WL 8.8
 Total Depth 3960 Chlorides 7000 ppm System LCM 3#
 Blow Description IF 3 3/4" blow
ISI No return
FF 8 3/4" blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Oil</u>	<u>100</u>			
<u>140</u>	<u>GWOCM</u>	<u>5</u>	<u>35</u>	<u>10</u>	<u>50</u>

Rec Total 160 BHT 117 Gravity 39 API RW @ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1939 Test 1800 T-On Location 1700 07/03
 (B) First Initial Flow 27 Jars 300 T-Started 1750
 (C) First Final Flow 68 Safety Joint T-Open 2005
 (D) Initial Shut-In 1043 Circ Sub T-Pulled 2335
 (E) Second Initial Flow 69 Hourly Standby T-Out 07/04
 (F) Second Final Flow 85 Mileage 76 Comments _____
 (G) Final Shut-In 1035 Sampler _____
 (H) Final Hydrostatic 2847 Straddle 600 EM Tool No data -350
 Shale Packer x2 500 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total -350
 Accessibility _____ Total 2926
 Sub Total 3276 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 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.



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 6/25/2022
 Invoice # 2868

P.O.#:

Due Date: 7/25/2022

Division: Russell

Invoice

Contact:

Knighton Oil Company
 Address/Job Location:

1700 N Waterfront Pky Blding 100, Suite A
 Wichita ks 67206-6627

Reference:

CRAWFORD 1 SEC 3-15-21

Description of Work:

SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 855.03	No				
Common-Class A	120	\$ 2,369.00	Yes				
Calcium Chloride	6	\$ 322.00	Yes				
POZ Mix-Standard	30	\$ 201.25	Yes				
Bulk Truck Matl-Material Service Charge	169	\$ 161.96	No				
Pump Truck Mileage-Job to Nearest Camp	35	\$ 150.94	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	35	\$ 117.40	No				
Premium Gel (Bentonite)	3	\$ 83.38	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,260.94

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (106.52)

SubTotal for Taxable Items: \$ 2,901.23

SubTotal for Non-Taxable Items: \$ 1,253.18

Total: \$ 4,154.42

Tax: \$ 217.59

7.50% Trego County Sales Tax

Amount Due: \$ 4,372.01

Applied Payments:

Balance Due: \$ 4,372.01

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 2868

Date	6-25-22	Sec.	3	Twp.	15	Range	21	County	Trego	State	Ks	On Location		Finish	7:45AM
Location								Cedar Bluff St Rdly 45E							

Lease Crawford Well No. 1 Owner _____

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

Type Job SURFACE Charge To RNighton Oil

Hole Size 12 1/4 T.D. 218 Street _____

Csg. 8 5/8 Depth _____ City _____ State _____

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

Tool _____ Depth _____ Cement Amount Ordered 1504 8/6 3-2

Cement Left in Csg. _____ Shoe Joint _____

Meas Line _____ Displace 13

EQUIPMENT

Pumptrk	17	No.	Cementer	<u>Bill</u>	Common	<u>120</u>
			Helper		Poz. Mix	<u>30</u>
Bulktrk		No.	Driver	<u>Wick</u>	Gel.	<u>3</u>
			Driver		Calcium	<u>6</u>
Bulktrk	9	No.	Driver	<u>Tim</u>		
			Driver			

JOB SERVICES & REMARKS

Remarks: _____ Hulls _____

Rat Hole _____ Salt _____

Mouse Hole _____ Flowseal _____

Centralizers _____ Mud CLR 48 _____

Baskets _____ CFL-117 or CD110 CAF 38 _____

D/V or Port Collar _____ Sand _____

5 JTS 8 5/8 set e Handling 159

Cemt w/ 1504 Mileage _____

Pump plug w/ 13 blls **FLOAT EQUIPMENT**

Cemt did CIRC Guide Shoe _____

Centralizer _____

Baskets _____

AFU Inserts _____

Float Shoe _____

Latch Down _____

Pumptrk Charge Surface

Mileage 35

Signature [Signature] Tax _____

Discount _____

Total Charge _____

Thanks



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 7/4/2022
 Invoice # 2874

P.O.#:
 Due Date: 8/3/2022
 Division: Russell

Invoice

Contact:
 Knighton Oil Company
 Address/Job Location:

1700 N Waterfront Pky Blding 100, Suite A
 Wichita ks 67206-6627

Reference:
 CRAWFORD 1 SEC 3-15-21

Description of Work:
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,384.68	No	Pump Truck Mileage-Job to Nearest Camp	37	\$162.27	No
Multi Density- 80/20	450	\$ 7,894.07	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	37	\$126.21	No
Common-Class A	150	\$ 3,011.44	Yes				
Gilsonite	750	\$ 1,096.40	Yes				
5 1/2" Basket	4	\$ 1,091.53	Yes				
5 1/2" Turbolizer	10	\$ 701.69	Yes				
Bulk Truck Matl-Material Service Charge	620	\$ 604.24	No				
Auto Fill Float Shoe, 5 1/2"	1	\$ 327.46	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 259.24	Yes				
Flo Seal	125	\$ 243.64	Yes				
Salt (Fine)	13	\$ 165.97	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 17,068.83
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (426.72)
<hr/>		
	SubTotal for Taxable Items:	\$ 14,421.65
	SubTotal for Non-Taxable Items:	\$ 2,220.46
<hr/>		
	Total:	\$ 16,642.11
	Tax:	\$ 1,081.62
	Amount Due:	\$ 17,723.73
	Applied Payments:	
	Balance Due:	\$ 17,723.73

7.50% Trego County Sales Tax

Thank You For Your Business!

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

Federal Tax I.D.# 20-2886107

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

No. **2874**

#4-22	Sec. 3	Twp. 15	Range 21	County Trego	State KS	On Location	Finish 9:30pm		
				Location Cedar Bluff 15 3 E					
Lease Crawford #2		Well No. 1		Owner To Quality Oilwell Cementing, Inc.					
Contractor STP		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job Long string		T.D. 3960		Charge To Knighton Oil					
Hole Size 7 3/8		Depth		Street					
Csg. 5 1/2		Depth		City State					
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Tool		Depth		Cement Amount Ordered 450 gmd c to floser					
Cement Left in Csg. 22.52		Shoe Joint 22.52		1500 com 10% salt 5# G.I.					
Meas Line		Displace 93 3/4		Common 150					
EQUIPMENT									
Pumptrk 16	No.	Cement Helper	Bill	Poz. Mix	450 gmd c Qmhc				
Bulktrk	No.	Driver	Nick	Gel.					
Bulktrk	No.	Driver	Tim Robert	Calcium					
JOB SERVICES & REMARKS				Hulls					
Remarks:				Salt 13					
Rat Hole				Flowseal 125 #					
Mouse Hole 30 in				Kol-Seal 750 #					
Centralizers				Mud CLR 48					
Baskets				CFL-117 or CD110 CAF 38					
D/V or Port Collar				Sand					
Pipe set c 3961				Handling 620'					
Shoe Jt 22.52				Mileage					
Insert 3938.48				FLOAT EQUIPMENT					
Cement w/ 420 gmd c Follow 150 y				Guide Shoe					
com 10% salt 5# G.I.				Centralizer - 10					
Pump plug w/ 93 3/4 bbls				Baskets - 4					
Land plug c 1200 #				AFU Inserts					
Float did hold				Float Shoe - 1					
Cement did circ.				Latch Down - 1					
				Pumptrk Charge Prod string					
				Mileage 37					
X Signature <i>[Signature]</i>				Thanks				Tax	
								Discount	
								Total Charge	

KEVIN L. KESSLER

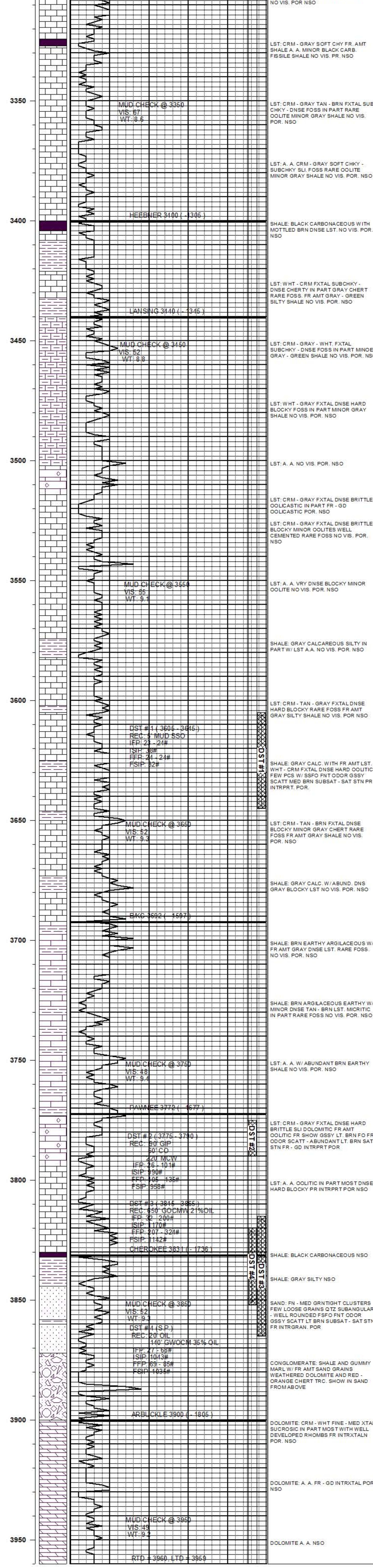
CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : KNIGHTON OIL COMPANY		ELEVATION
LEASE : CRAWFORD	WELL # : 1	KB: 2095
LOCATION : 1177'FNL & 2652' FWL		GL: 2088
SEC : 03	TWP : 15 S	RGE : 21 W
COUNTY : TREGO		STATE : KANSAS
CONTRACTOR: STP DRILLING RIG #2		CASING RECORD:
COMM: 06/24/2022	COMP: 07/04/2022	SURFACE: 8 5/8" @ 200'
RTD: 3960	LTD: 3959	PRODUCTION: 5.5 @ 3960'
GEOLOGICAL SUPERVISION FROM: 3300		TO: RTD
SAMPLES SAVED FROM: 3300		TO: RTD

REFERENCE WELL FOR STRUCTURAL COMPARISON:
CRAWFORD OIL #1-3 CRAWFORD 3-15S-21W TREGO CO. KS.

FORMATION:	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM	COMP.	ELECTRICAL SURVEYS:
HEEBNER	3400	- 1305	3400	- 1305	+ 03	
LANSING	3440	- 1345	3440	- 1345	+ 03	CNL/CDL
BASE/KC	3692	- 1597	3692	- 1597	+ 01	MICRO
CHEROKEE	3829	- 1734	3831	- 1736	+ 08	SONIC
ARBUCKLE	3898	- 1803	3900	- 1805	- 10	



COMMENTS :

- 5.5" PRODUCTION CASING WAS SET TO FURTHER TEST THE PRODUCTIVITY OF THIS WELL
- DRILL TIME IS DUBIOUS AUTO DRILLER AND GEOLOGRAPH PROBLEMS THROUGHOUT

KEVIN L. KESSLER