

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **ARP Operating, LLC**

LEASE **Sharp #1**

FIELD **Wildcat**

LOCATION **1758' FSL & 1977' FEL**

SEC **3** TWP **14S** RGE **31W**

COUNTY **Gove** STATE **Kansas**

CONTRACTOR **Duke Drilling Rig #4**

SPUD **3/28/24** COMP **4/5/24**

RTD **4666'** LTD **4664'**

MUD UP **3300'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** TO **RTD**

DRILLING TIME KEPT FROM **3600'** TO **RTD**

SAMPLES EXAMINED FROM **3600'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3600'**

REFERENCE WELL **CND/DIL. MIC/SON**

ELEVATIONS  
KB 2901'

DF \_\_\_\_\_

GL 2892'

Measurements Are All From Kelly Bushing

CASING

CONDUCTOR SURFACE 8-5/8" at 222'

PRODUCTION 5.5" @ TTD

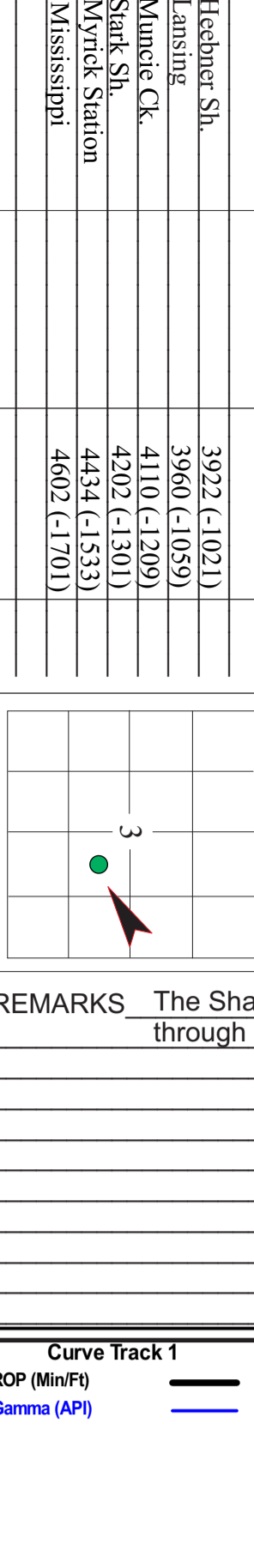
ELECTRICAL SURVEYS

ELI

CND/DIL.

MIC/SON

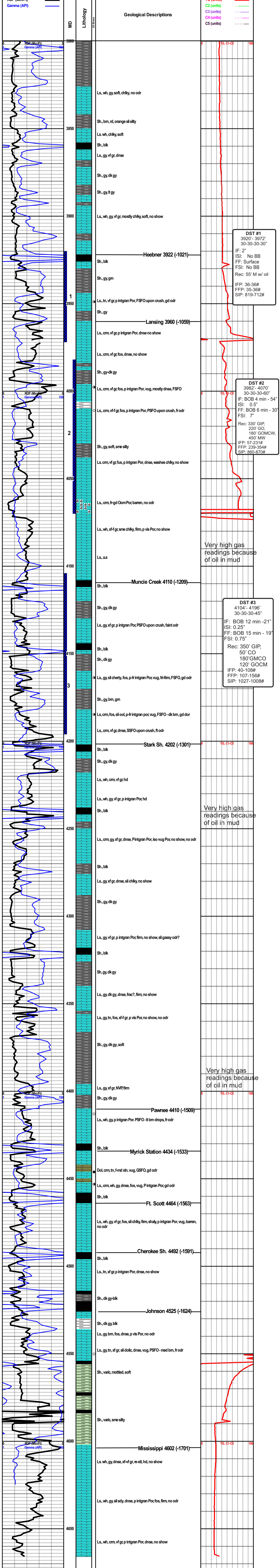
Formation	Sample Tops	E-log Tops	Struct Foss.
Heebner Sh.		3922 (-1021)	
Lansing		3960 (-1059)	
Muncie Ck.		4110 (-1209)	
Stark Sh.		4202 (-1301)	
Myrick Station		4434 (-1533)	
Mississippi		4602 (-1701)	



REMARKS The Sharp #1 had several shows of oil and gas that will be further evaluated through 5.5" production casing.

Respectfully Submitted,

Sean P. Deenihan



**DST #1**  
3920' - 3972'  
30-30-30-30"  
IF: 2"  
ISI: No BB  
FF: Surface  
FSI: No BB  
Rec: 55' M w/ oil  
IFP: 36-36#  
FFP: 35-36#  
SIP: 819-712#

**DST #2**  
3982' - 4070'  
30-30-30-60"  
IF: BOB 4 min - 54"  
ISI: 0.5"  
FF: BOB 6 min - 30"  
FSI: 7"  
Rec: 330' GIP,  
220' GO,  
180' GOMCW,  
450' MW  
IFP: 57-231#  
FFP: 239-354#  
SIP: 860-870#

**DST #3**  
4104' - 4196'  
30-30-30-45"  
IF: BOB 12 min - 21"  
ISI: 0.25"  
FF: BOB 15 min - 19"  
FSI: 0.75"  
Rec: 350' GIP,  
50' CO  
180' GOMCO  
120' GOCM  
IFP: 40-108#  
FFP: 107-156#  
SIP: 1027-1008#

Very high gas readings because of oil in mud

Very high gas readings because of oil in mud

Very high gas readings because of oil in mud



## DRILL STEM TEST REPORT

Prepared For: **ARP Operating, LLC**

730 14th St Ste 715  
Denver, CO 80202

ATTN: Sean Deanihan

### **Sharp #1**

### **3 14s 31w Gove,KS**

Start Date: 2024.04.02 @ 05:49:00

End Date: 2024.04.02 @ 13:00:15

Job Ticket #: 70112                      DST #: 1

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

Printed: 2024.04.05 @ 09:24:24



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

ARP Operating, LLC

**3 14s 31w Gove, KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70112

**DST#: 1**

ATTN: Sean Deanihan

Test Start: 2024.04.02 @ 05:49:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:38:15

Time Test Ended: 13:00:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 85

**Interval: 3920.00 ft (KB) To 3972.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 3972.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8319**

**Inside**

Press@RunDepth: 36.07 psig @ 3921.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.04.02

End Date:

2024.04.02

Last Calib.:

2024.04.02

Start Time:

05:49:05

End Time:

13:00:14

Time On Btm:

2024.04.02 @ 08:37:00

Time Off Btm:

2024.04.02 @ 10:42:30

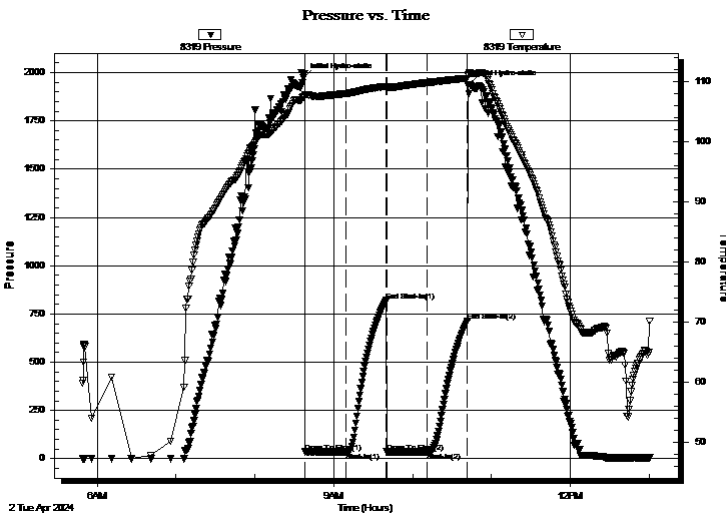
**TEST COMMENT:** IF: 2" blow receded to 3.4" (tool slid 7', took on small amount of mud)

IS: No return.

FF: Surface blow.

FS: No return 30-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.10	107.39	Initial Hydro-static
2	35.52	107.72	Open To Flow (1)
32	36.10	107.98	Shut-In(1)
63	819.26	109.18	End Shut-In(1)
64	35.30	108.82	Open To Flow (2)
94	36.07	109.79	Shut-In(2)
125	711.67	110.53	End Shut-In(2)
126	1938.47	111.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	Mud 100m (oil spots on bottom)	0.77

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70112

**DST#: 1**

ATTN: Sean Deanihan

Test Start: 2024.04.02 @ 05:49:00

## Tool Information

Drill Pipe:	Length: 3899.00 ft	Diameter: 3.80 inches	Volume: 54.69 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3920.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	82.00 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			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Jars	5.00			3906.00	
EM Tool	3.00			3909.00	
Safety Joint	2.00			3911.00	
Packer	5.00			3916.00	30.00 Bottom Of Top Packer
Packer	4.00			3920.00	
Stubb	1.00			3921.00	
Recorder	0.00	8319	Inside	3921.00	
Recorder	0.00	8874	Outside	3921.00	
Perforations	15.00			3936.00	
Change Over Sub	1.00			3937.00	
Drill Pipe	31.00			3968.00	
Change Over Sub	1.00			3969.00	
Bullnose	3.00			3972.00	52.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70112

**DST#: 1**

ATTN: Sean Deanihan

Test Start: 2024.04.02 @ 05:49:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Mud 100m (oil spots on bottom)	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

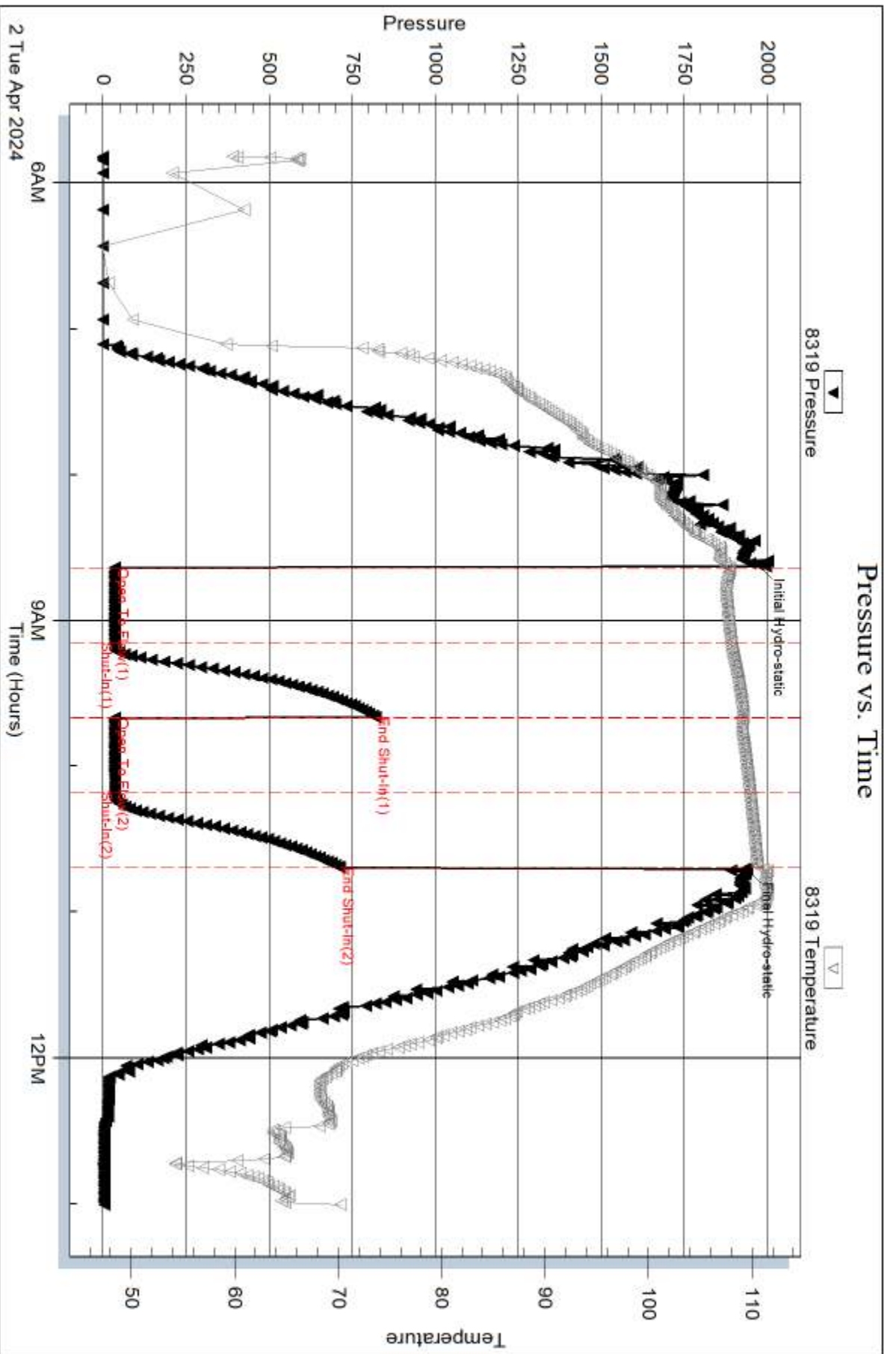
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

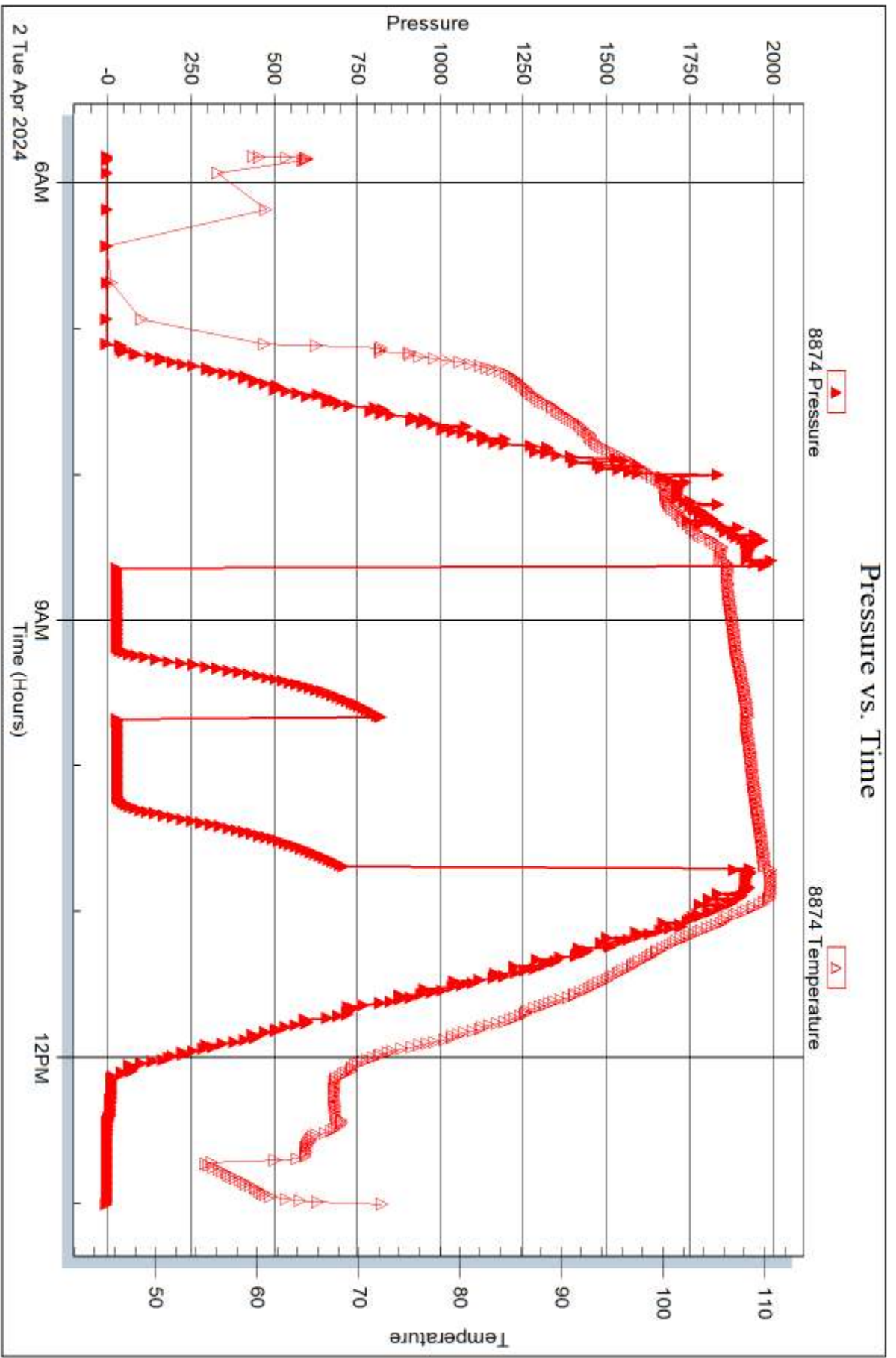


Serial #: 8874

Outside ARP Operating, LLC

Sharp #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **ARP Operating, LLC**

730 14th St Ste 715  
Denver, CO 80202

ATTN: Sean Deanihan

**Sharp #1**

**3 14s 31w Gove,KS**

Start Date: 2024.04.03 @ 01:10:00

End Date: 2024.04.03 @ 09:31:45

Job Ticket #: 70113                      DST #: 2

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

Printed: 2024.04.05 @ 09:23:53



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70113

**DST#: 2**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 01:10:00

## GENERAL INFORMATION:

Formation: **LKC B - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:30

Time Test Ended: 09:31:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 85

**Interval: 3982.00 ft (KB) To 4070.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4070.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 353.83 psig @ 3983.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.04.03

End Date:

2024.04.03

Last Calib.:

2024.04.03

Start Time: 01:10:05

End Time:

09:31:44

Time On Btm:

2024.04.03 @ 03:58:45

Time Off Btm:

2024.04.03 @ 06:34:00

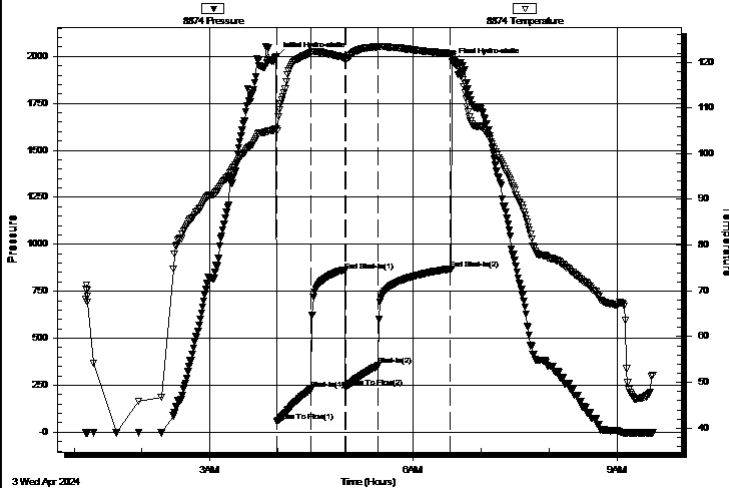
TEST COMMENT: IF BOB @ 4 min. 54"

IS: 1/2" return.

FF: BOB @ 6 min. 30"

FS: 7" return. 30-30-30-60

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.63	105.51	Initial Hydro-static
1	57.13	105.08	Open To Flow (1)
31	231.02	122.17	Shut-In(1)
61	860.44	120.96	End Shut-In(1)
61	238.74	120.62	Open To Flow (2)
90	353.83	123.36	Shut-In(2)
154	869.55	121.90	End Shut-In(2)
156	1969.24	121.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 10m 90w	6.31
180.00	gomcw 15g 20o 25m 40w	2.52
220.00	go 25g 75o	3.09
0.00	330' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70113

**DST#: 2**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 01:10:00

## Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 55.56 bbl</u>	Tool Chased	4.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3982.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	88.00 ft				
Tool Length:	118.00 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			3953.00	
Shut In Tool	5.00			3958.00	
Hydraulic tool	5.00			3963.00	
Jars	5.00			3968.00	
EM Tool	3.00			3971.00	
Safety Joint	2.00			3973.00	
Packer	5.00			3978.00	30.00 Bottom Of Top Packer
Packer	4.00			3982.00	
Stubb	1.00			3983.00	
Recorder	0.00	8319	Inside	3983.00	
Recorder	0.00	8874	Outside	3983.00	
Perforations	19.00			4002.00	
Change Over Sub	1.00			4003.00	
Drill Pipe	63.00			4066.00	
Change Over Sub	1.00			4067.00	
Bullnose	3.00			4070.00	88.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>118.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70113

**DST#: 2**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 01:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	mcw 10m 90w	6.312
180.00	gomcw 15g 20o 25m 40w	2.525
220.00	go 25g 75o	3.086
0.00	330' GIP	0.000

Total Length: 850.00 ft      Total Volume: 11.923 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

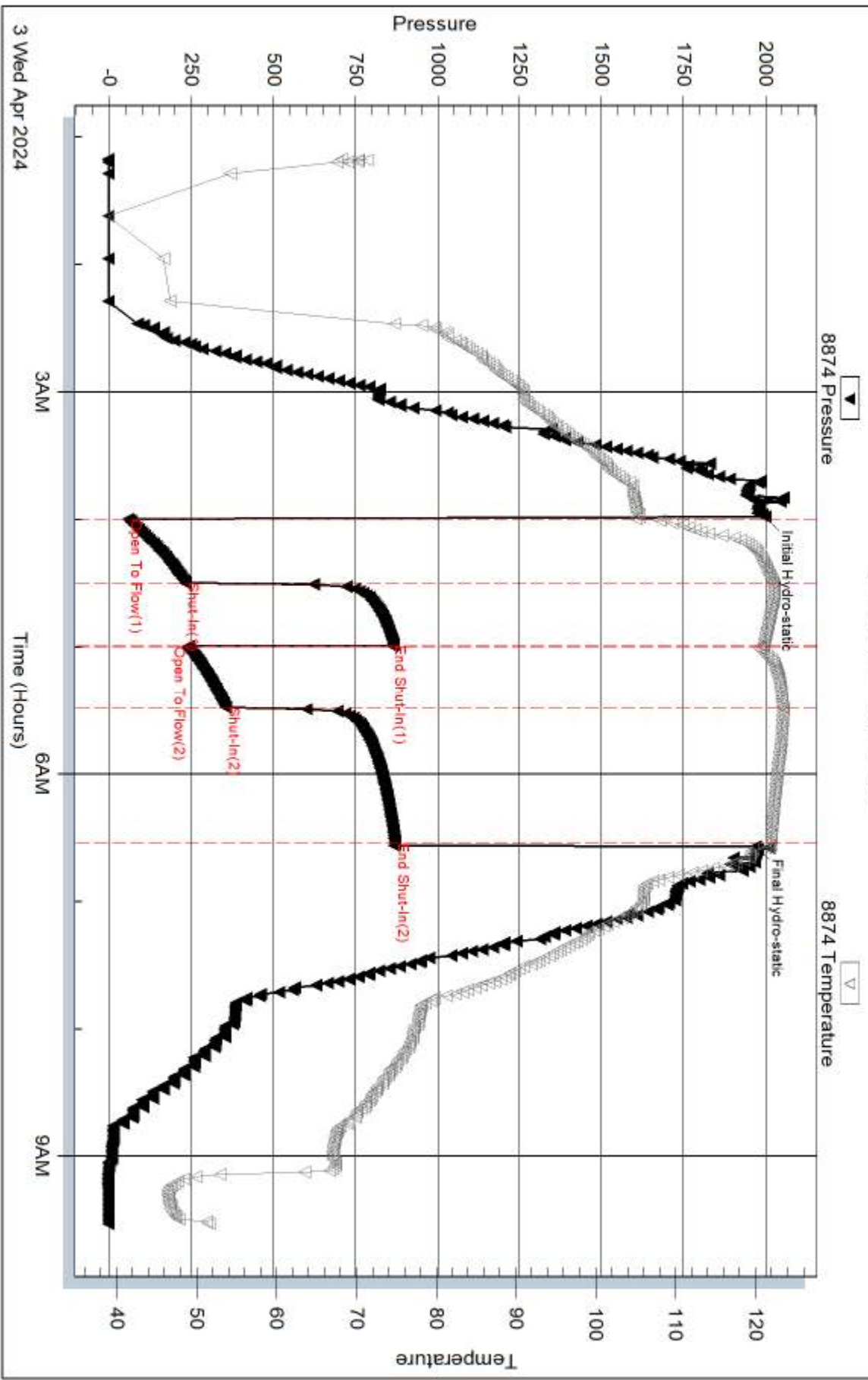
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .150 @ 64F = 55000ppm

### Pressure vs. Time



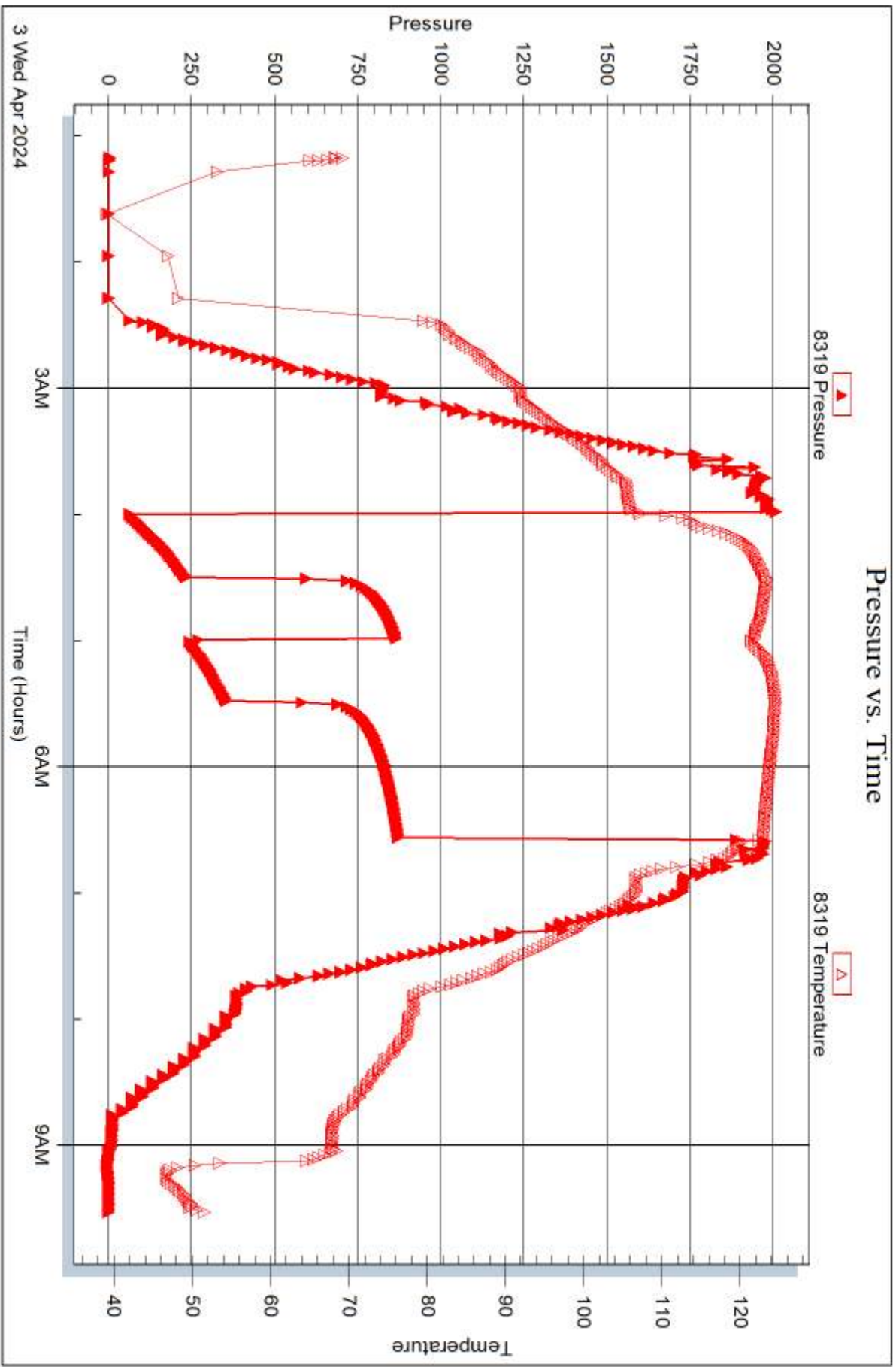
Serial #: 8319

Inside

ARP Operating, LLC

Sharp #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 70113

Printed: 2024.04.05 @ 09:23:54



## DRILL STEM TEST REPORT

Prepared For: **ARP Operating, LLC**

730 14th St Ste 715  
Denver, CO 80202

ATTN: Sean Deanihan

### **Sharp #1**

### **3 14s 31w Gove,KS**

Start Date: 2024.04.03 @ 22:20:00

End Date: 2024.04.04 @ 05:34:45

Job Ticket #: 70114                      DST #: 3

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

Printed: 2024.04.05 @ 09:20:23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

ARP Operating, LLC

**3 14s 31w Gove, KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70114

**DST#: 3**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 22:20:00

## GENERAL INFORMATION:

Formation: **LKC- H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:30

Time Test Ended: 05:34:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 85

**Interval: 4104.00 ft (KB) To 4196.00 ft (KB) (TVD)**

Reference Elevations: 2901.00 ft (KB)

Total Depth: 4196.00 ft (KB) (TVD)

2892.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 156.14 psig @ 4105.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.04.03

End Date:

2024.04.04

Last Calib.:

2024.04.04

Start Time: 22:35:05

End Time:

05:49:44

Time On Btm:

2024.04.04 @ 00:46:15

Time Off Btm:

2024.04.04 @ 03:02:45

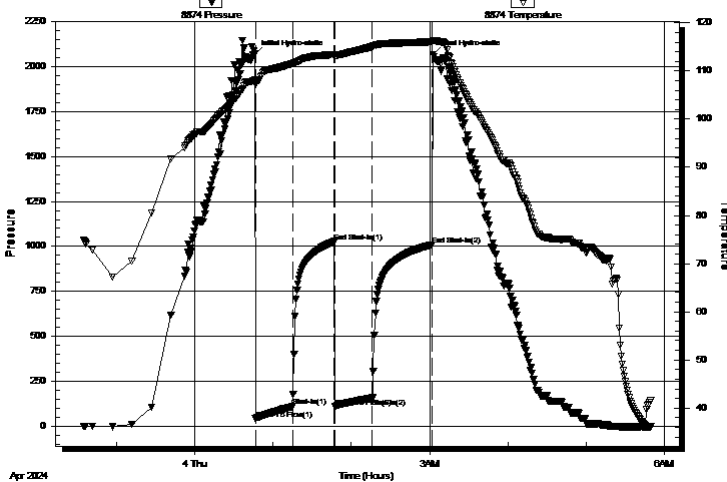
TEST COMMENT: IF: BOB @ 12 min, - 21"

IS: 1/4" return.

FF: BOB @ 15 min. 19"

FS: 3/4" return 30-30-30-45

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.92	108.08	Initial Hydro-static
1	40.47	107.19	Open To Flow (1)
29	107.85	111.50	Shut-In(1)
61	1026.57	113.42	End Shut-In(1)
62	107.15	113.15	Open To Flow (2)
90	156.14	115.01	Shut-In(2)
136	1007.89	116.05	End Shut-In(2)
137	2065.56	116.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	gocm 10g 40o 50m	1.68
180.00	gmco 15g 25m 60o	2.52
50.00	oil 100o	0.70
0.00	350' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

ARP Operating, LLC

**3 14s 31w Gove,KS**

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Denver, CO 80202

**Sharp #1**

Job Ticket: 70114

**DST#: 3**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 22:20:00

## Tool Information

Drill Pipe:	Length: 4086.00 ft	Diameter: 3.80 inches	Volume: 57.32 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4104.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	122.00 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			4075.00	
Shut In Tool	5.00			4080.00	
Hydraulic tool	5.00			4085.00	
Jars	5.00			4090.00	
EM Tool	3.00			4093.00	
Safety Joint	2.00			4095.00	
Packer	5.00			4100.00	30.00 Bottom Of Top Packer
Packer	4.00			4104.00	
Stubb	1.00			4105.00	
Recorder	0.00	8319	Inside	4105.00	
Recorder	0.00	8874	Outside	4105.00	
Perforations	23.00			4128.00	
Change Over Sub	1.00			4129.00	
Drill Pipe	63.00			4192.00	
Change Over Sub	1.00			4193.00	
Bullnose	3.00			4196.00	92.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>122.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

ARP Operating, LLC

**3 14s 31w Gove,KS**

730 14th St Ste 715  
Denver, CO 80202

**Sharp #1**

Job Ticket: 70114

**DST#: 3**

ATTN: Sean Deanihan

Test Start: 2024.04.03 @ 22:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gocm 10g 40o 50m	1.683
180.00	gmco 15g 25m 60o	2.525
50.00	oil 100o	0.701
0.00	350' GIP	0.000

Total Length: 350.00 ft

Total Volume: 4.909 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

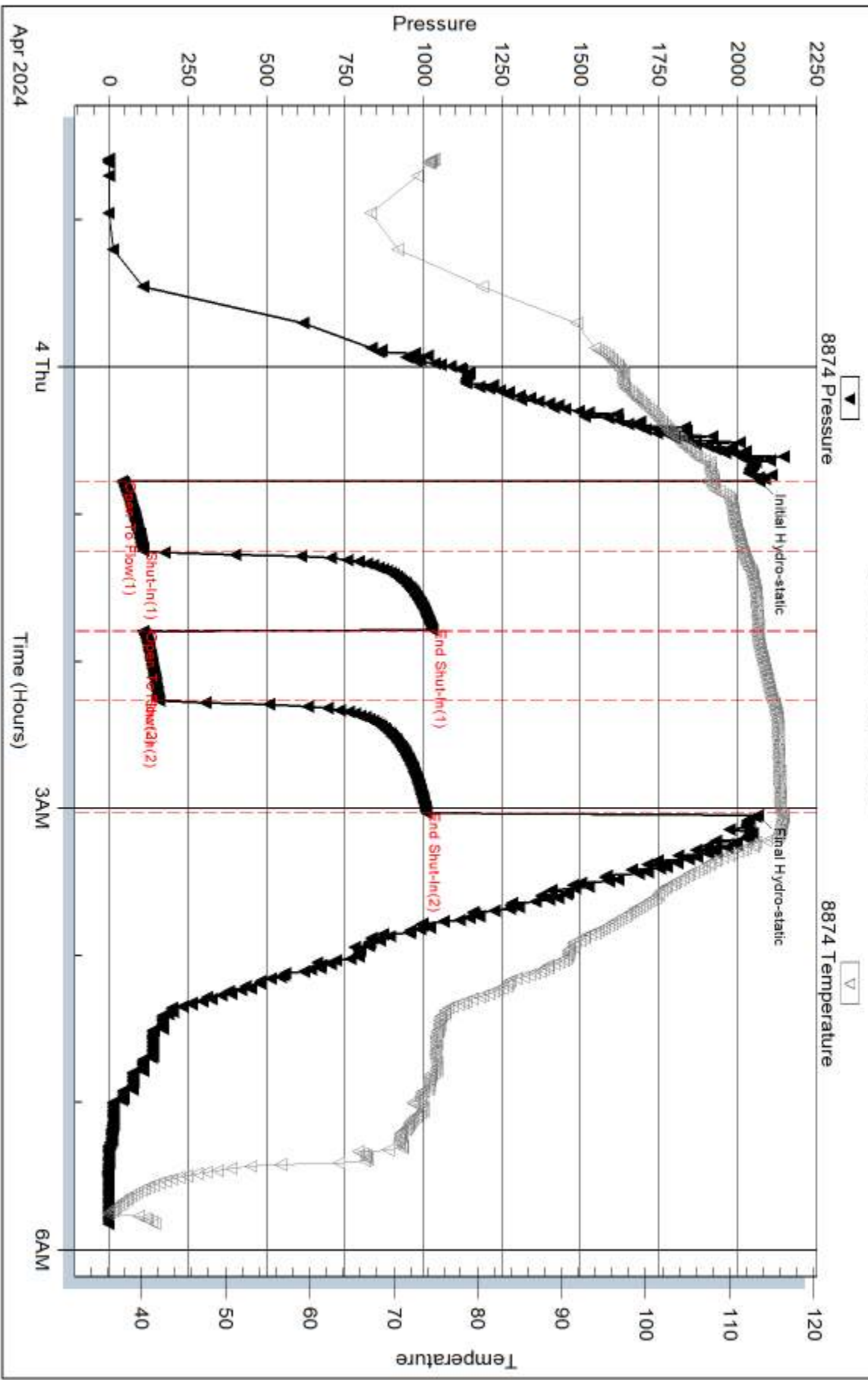
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



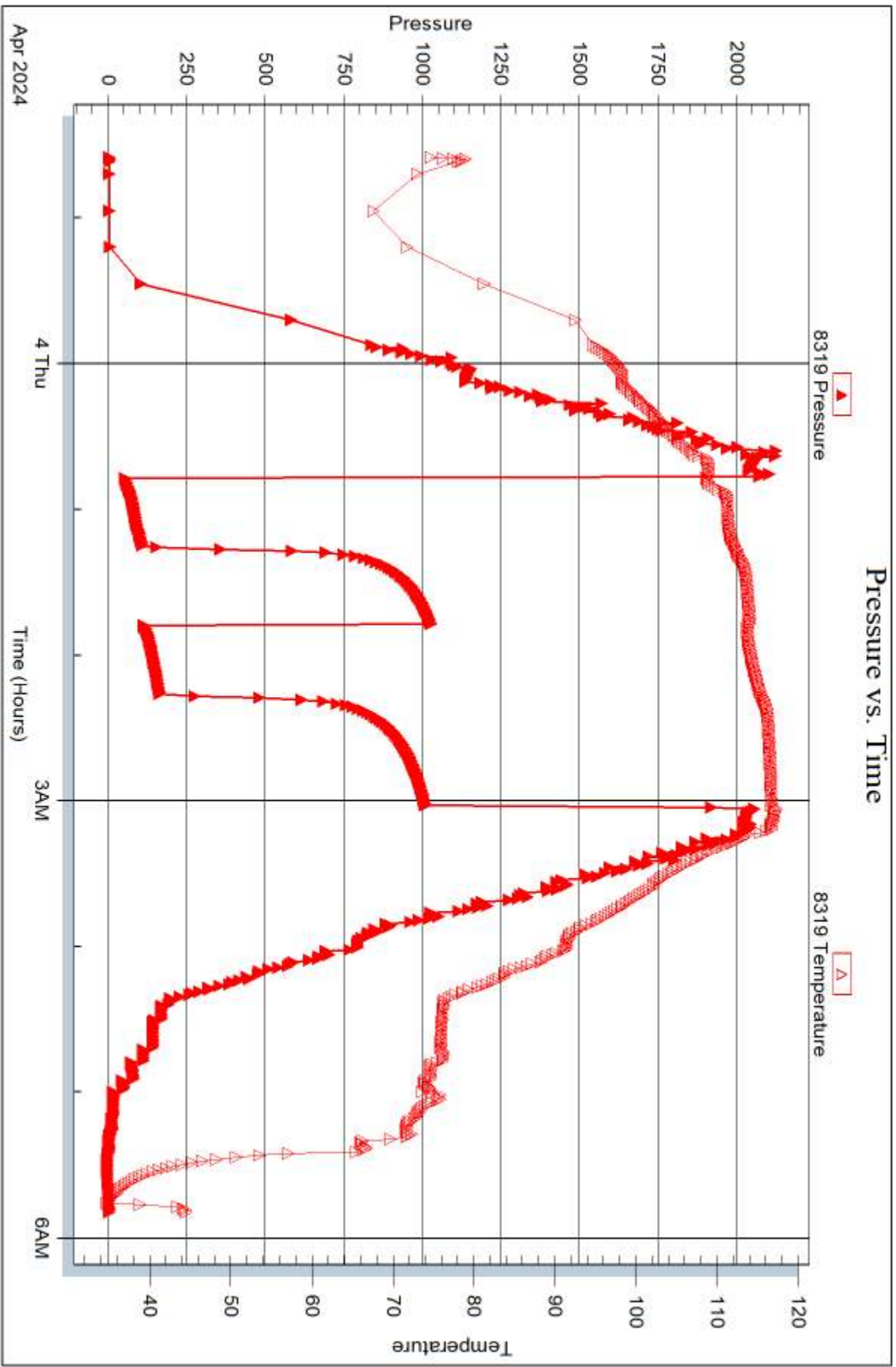
Serial #: 8319

Inside

ARP Operating, LLC

Sharp #1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70112

Well Name & No. Sharp #1 Test No. 1 Date 04/02/2024  
 Company ARP Operator, LLC Elevation 2901 KB 2892 GL  
 Address Penner, Co  
 Co. Rep / Geo Sean Deenihan Rig Duke 4  
 Location: Sec. 3 Twp 14e Rge. 3W Co. Gove State Ks

Interval Tested 3920 - 3972 Zone Tested Taranta  
 Anchor Length 52' Drill Pipe Run 3899 Mud Wt. 8.8  
 Top Packer Depth 3915 Drill Collars Run — Vis 57  
 Bottom Packer Depth 3920 Wt. Pipe Run — WL 8.0  
 Total Depth 3972 Chlorides 4800 ppm System LCM 3#

Blow Description IF 2" blow receded to 3/4" Tool slid 7' @ open took on small out of mud  
IGI No return,  
FF Surface blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>Mud</u>			<u>100</u>	
	<u>Oil spots on bottom</u>				
	<u>and in tool</u>				

Rec Total 55 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm  
 Initial Hydrostatic 1972  Test 1800  Ruined Shale Packer  
 Initial Flow 35 to 36  Jars 300  Ruined Packer  
 Initial Shut-In 919  Circ Sub  Hotel  
 Final Flow 35 to 36  Hourly Standby  EM Tool Successful yes  
 Final Shut-In 711  Mileage 70mi 122.50  Accessibility  
 Final Hydrostatic 1938  Sampler  Gas Sample  
 T- On Location 0500  Straddle  Sub Total 0  
 Initial Flow 30 T-Started 0549  Shale Packer  Total 2222.50  
 Initial Shut-In 30 T-Open 0838  Extra Packer  Tool Loaded @  
 Final Flow 30 T-Pulled 1040  Extra Recorder  MP/DST Disc't  
 Final Shut-In 30 T-Out 1300  Day Standby

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 70113

Well Name & No. Sharp #1 Test No. 2 Date 07/03/2024  
 Company ARP Operating, LLC Elevation 2901 KB 2892 GL  
 Address Denver Co  
 Co. Rep / Geo Sean Deenihan Rig Duke 4  
 Location: Sec. 3 Twp 14S Rge. 3W Co. Gove State Ks

Interval Tested 3982-4070 Zone Tested LKC B-F  
 Anchor Length 88 Drill Pipe Run 3961 Mud Wt. 9.2  
 Top Packer Depth 3977 Drill Collars Run — Vis 51  
 Bottom Packer Depth 3982 Wt. Pipe Run — WL 8.8  
 Total Depth 4070 Chlorides 4000 ppm System LCM 2 #

Blow Description IF Bob@ 4 min - 54"  
ISI 1/2" return.  
FF Bob@ 6 min 30"  
FSL 3" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>220</u>	<u>60</u>	<u>25</u>	<u>75</u>		
<u>180</u>	<u>GOMCW</u>	<u>15</u>	<u>20</u>	<u>40</u>	<u>25</u>
<u>450</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
	<u>330' GIP</u>				

Rec Total 850 BHT 122 Gravity 35 API RW 150 @ 64 \*F Chlorides 55,000 ppm  
 Initial Hydrostatic 1999  Test 1950  Ruined Shale Packer  
 Initial Flow 57 to 231  Jars 300  Ruined Packer  
 Initial Shut-In 860  Circ Sub  Hotel  
 Final Flow 238 to 353  Hourly Standby  EM Tool Successful yes  
 Final Shut-In 869  Mileage 70 Lt 122.50  Accessibility  
 Final Hydrostatic 1969  Sampler  Gas Sample  
 T- On Location 0030  Straddle  Sub Total 0  
 Initial Flow 36 T-Started 0110  Shale Packer  Total 2372.50  
 Initial Shut-In 30 T-Open 0358  Extra Packer  Tool Loaded @  
 Final Flow 30 T-Pulled 0629  Extra Recorder  MP/DST Disc't  
 Final Shut-In 60 T-Out 0932  Day Standby

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70114

Well Name & No. Sharp #1 Test No. 3 Date 04/04/2024  
 Company ARP Operating, LLC Elevation 2901 KB 2892 GL  
 Address Denver Co  
 Co. Rep / Geo Sean Doenihan Rig Duke 4  
 Location: Sec. 3 Twp 14s Rge. 31w Co. Gove State Ks

Interval Tested 4104-4196 Zone Tested LKC H-J  
 Anchor Length 92' Drill Pipe Run 4084 Mud Wt. 9.2  
 Top Packer Depth 4099 Drill Collars Run — Vis 61  
 Bottom Packer Depth 4104 Wt. Pipe Run — WL 6.8  
 Total Depth 4196 Chlorides 4,000 ppm System LCM 2#  
 Blow Description IF BOB@ 12 in 21"  
IST BOB@ 15 min 1/4" return.  
FF BOB@ 15 min - 19"  
F&I 3/4" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Free Oil</u>	<u>100</u>			
<u>180</u>	<u>GMC</u>	<u>15</u>	<u>60</u>	<u>25</u>	
<u>120</u>	<u>GOCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
	<u>350 GTP</u>				

Rec Total 350 BHT 116 Gravity 35 API RW — @ — °F Chlorides — ppm  
 Initial Hydrostatic 2068  Test 1950  Ruined Shale Packer  
 Initial Flow 40 to 107  Jars 300  Ruined Packer  
 Initial Shut-In 1026  Circ Sub  Hotel  
 Final Flow 107 to 156  Hourly Standby  EM Tool Successful yes  
 Final Shut-In 1007  Mileage 72 122.50 + 122.50  Accessibility  
 Final Hydrostatic 2065  Sampler  Gas Sample  
 T- On Location 2130  Straddle  Sub Total 0  
 Initial Flow 30 T-Started 2220  Shale Packer  Total 2495  
 Initial Shut-In 30 T-Open 0045  Extra Packer  Tool Loaded 6405 @ 0200  
 Final Flow 30 T-Pulled 0300  Extra Recorder  MP/DST Disc't  
 Final Shut-In 45 T-Out 0550  Day Standby

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1199  
 LOCATION Hoxie  
 FOREMAN Jack

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-29-24	35695	Sharp #1	3	14	31	Gove

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
APP Operating, LLC	103	CD		
	201	ST		

MAILING ADDRESS	CITY	STATE	ZIP CODE
730 17th ST STE 715	Denver	CO	80202

JOB TYPE Surface HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 23# 8 3/4"  
 CASING DEPTH 22' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15165 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 1388L DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting i sat up on Duke 9. Circulated mud hooked up mixed & displaced. Had cement to pit.

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE <u>Surface</u>	\$1150.00	\$1150.00
M101	54	MILEAGE	\$6.50	\$351.00
M102	9 tons	TMD	\$729.00	\$729.00
CB004	185 sv	Class A 3800 2% gell	\$25.00	\$4717.50
			sub total	\$6,947.50
			less 5% disc.	\$347.37
			sub total	\$6,600.13
			SALES TAX	380.94
			ESTIMATED TOTAL	6981.07

AUTHORIZATION Hector Torres 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.

# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1206  
 LOCATION Hoxie KS  
 FOREMAN Jack T

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-1-24		Sharp # 1	3	14	31	Cove
CUSTOMER ARP Operating			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

JOB TYPE D.U. Tool HOLE SIZE 7 7/8" HOLE DEPTH 4664 CASING SIZE & WEIGHT 5 1/2" 15.5"  
 CASING DEPTH 4661' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8°/ft SLURRY VOL 151/221 WATER gal/sk 658/12.4 CEMENT LEFT in CASING 39.14'  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig upon Duke # 4. Run 5 1/2" casing. Circulate to thin mud. Pump mud flush + KCL. mix 75 sacks 10/40 8% gel. 1/2" flo-seal at 13'. Tail in 1/1 175 sacks. Over. Displace w/ water to mud. Land plug - held - release - held. Open DU tool. Circulate. Plug w/ hole w/ 30 sacks mix 425 sacks down hole. Displace plug. Land plug - held. Release held.

circulate cement. Thank you! Jack & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC004	1	PUMP CHARGE	\$2500 <sup>00</sup>	\$2500 <sup>00</sup>
M001	50	MILEAGE	\$6 <sup>50</sup>	\$325 <sup>00</sup>
M002	35.55 tons	Ten mileage delivery	\$2,166 <sup>25</sup>	\$2,166 <sup>25</sup>
CB021	530 sacks	10/40 8% gel. 1/2" flo-seal	\$17 <sup>95</sup>	\$9,513 <sup>50</sup>
CB031	175 sacks	class A 10% salt 5" gilsonite, 6" plaster 20% gel	\$29 <sup>55</sup>	\$5,171 <sup>25</sup>
CP013	1000 gal.	mud flush	\$1 <sup>00</sup>	\$1000 <sup>00</sup>
CP014	2 gal.	KCL	\$30 <sup>00</sup>	\$60 <sup>00</sup>
FE014	11	5 1/2" turbolizer	\$108 <sup>00</sup>	\$1188 <sup>00</sup>
FE027	3	5 1/2" basket	\$385 <sup>00</sup>	\$1155 <sup>00</sup>
FE102	3	5 1/2" limit clamp	\$35 <sup>00</sup>	\$105 <sup>00</sup>
FE033	1	5 1/2" AFU guide stem	\$600 <sup>00</sup>	\$600 <sup>00</sup>
FE032	1	5 1/2" flex latch down plug assembly	\$695 <sup>00</sup>	\$695 <sup>00</sup>
FC089	1	5 1/2" D.U. Tool	\$4200 <sup>00</sup>	\$4200 <sup>00</sup>
		sub total		\$29,179 <sup>00</sup>
		less 5% disc.		\$1,458 <sup>95</sup>
		sub total		\$27,720 <sup>05</sup>
		SALES TAX		1912.79
		ESTIMATED TOTAL		29632.84

AUTHORIZATION [Signature] 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.