

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 Recompletion Date _____ 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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DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing**

213 W 7th
Russell KS 67665

ATTN: Larry Nicholson

Black4dirt #1

6-12s-17w Ellis,KS

Start Date: 2022.09.23 @ 17:20:00

End Date: 2022.09.23 @ 23:18:45

Job Ticket #: 69858 DST #: 1

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

Printed: 2022.09.27 @ 16:25:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69858

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.09.23 @ 17:20:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:34:45

Time Test Ended: 23:18:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Terrance

Unit No: 75

Interval: 3162.00 ft (KB) To 3180.00 ft (KB) (TVD)

Reference Elevations: 2178.00 ft (KB)

Total Depth: 3180.00 ft (KB) (TVD)

2170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 29.91 psig @ 3163.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.23 End Date: 2022.09.23

Last Calib.: 2022.09.24

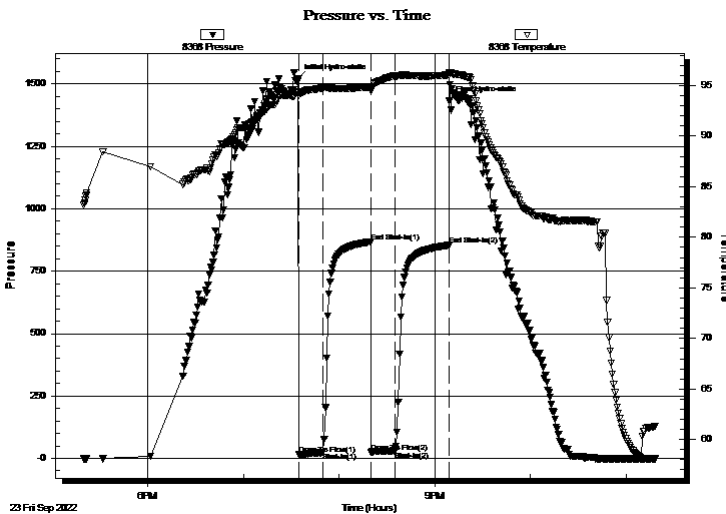
Start Time: 17:20:05 End Time: 23:18:44

Time On Btm: 2022.09.23 @ 19:34:30

Time Off Btm: 2022.09.23 @ 21:09:15

TEST COMMENT: IF-15-Surface blow
IS-30-No return
FF-15-No blow
FS-30-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1519.95	94.36	Initial Hydro-static
1	14.59	94.00	Open To Flow (1)
16	23.34	94.76	Shut-In(1)
46	867.42	94.82	End Shut-In(1)
46	25.34	94.45	Open To Flow (2)
61	29.91	95.95	Shut-In(2)
95	853.69	96.04	End Shut-In(2)
95	1432.23	96.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	osm	0.22

Gas Rates

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



DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis, KS

213 W 7th
Russell KS 67665

Black4dirt #1

ATTN: Larry Nicholson

Job Ticket: 69858

DST#: 1

Test Start: 2022.09.23 @ 17:20:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:34:45

Time Test Ended: 23:18:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Terrance

Unit No: 75

Interval: **3162.00 ft (KB) To 3180.00 ft (KB) (TVD)**

Total Depth: 3180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2178.00 ft (KB)

2170.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8320** **Outside**

Press@RunDepth: psig @ 3163.00 ft (KB)

Start Date: 2022.09.23

End Date: 2022.09.23

Capacity: 8000.00 psig

Last Calib.: 2022.09.23

Start Time: 17:20:05

End Time: 23:18:59

Time On Btm:

Time Off Btm:

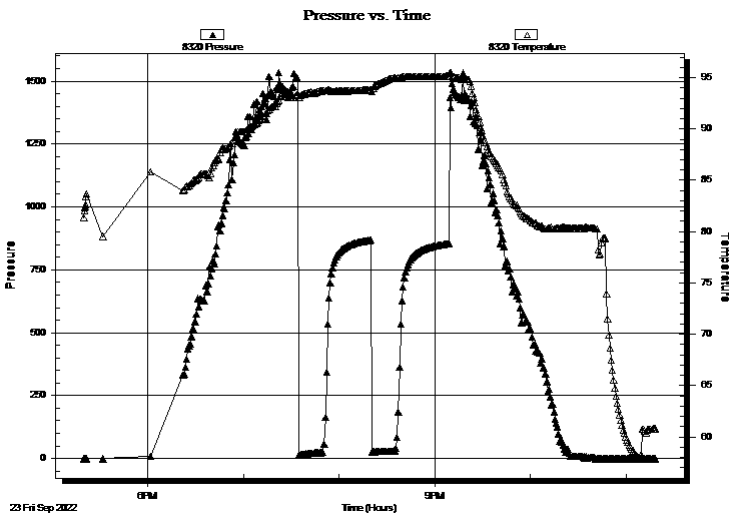
TEST COMMENT: IF-15-Surface blow

IS-30-No return

FF-15-No blow

FS-30-No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	osm	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69858

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.09.23 @ 17:20:00

Tool Information

Drill Pipe:	Length: 3127.00 ft	Diameter: 3.79 inches	Volume: 43.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3162.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3132.00	
Shut In Tool	5.00			3137.00	
Hydraulic tool	5.00			3142.00	
Jars	5.00			3147.00	
EM Tool	3.00			3150.00	
Safety Joint	3.00			3153.00	
Packer	5.00			3158.00	31.00 Bottom Of Top Packer
Packer	4.00			3162.00	
Stubb	1.00			3163.00	
Recorder	0.00	8368	Inside	3163.00	
Recorder	0.00	8320	Outside	3163.00	
Perforations	14.00			3177.00	
Bullnose	3.00			3180.00	18.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69858

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.09.23 @ 17:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	osm	0.217

Total Length: 35.00 ft Total Volume: 0.217 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

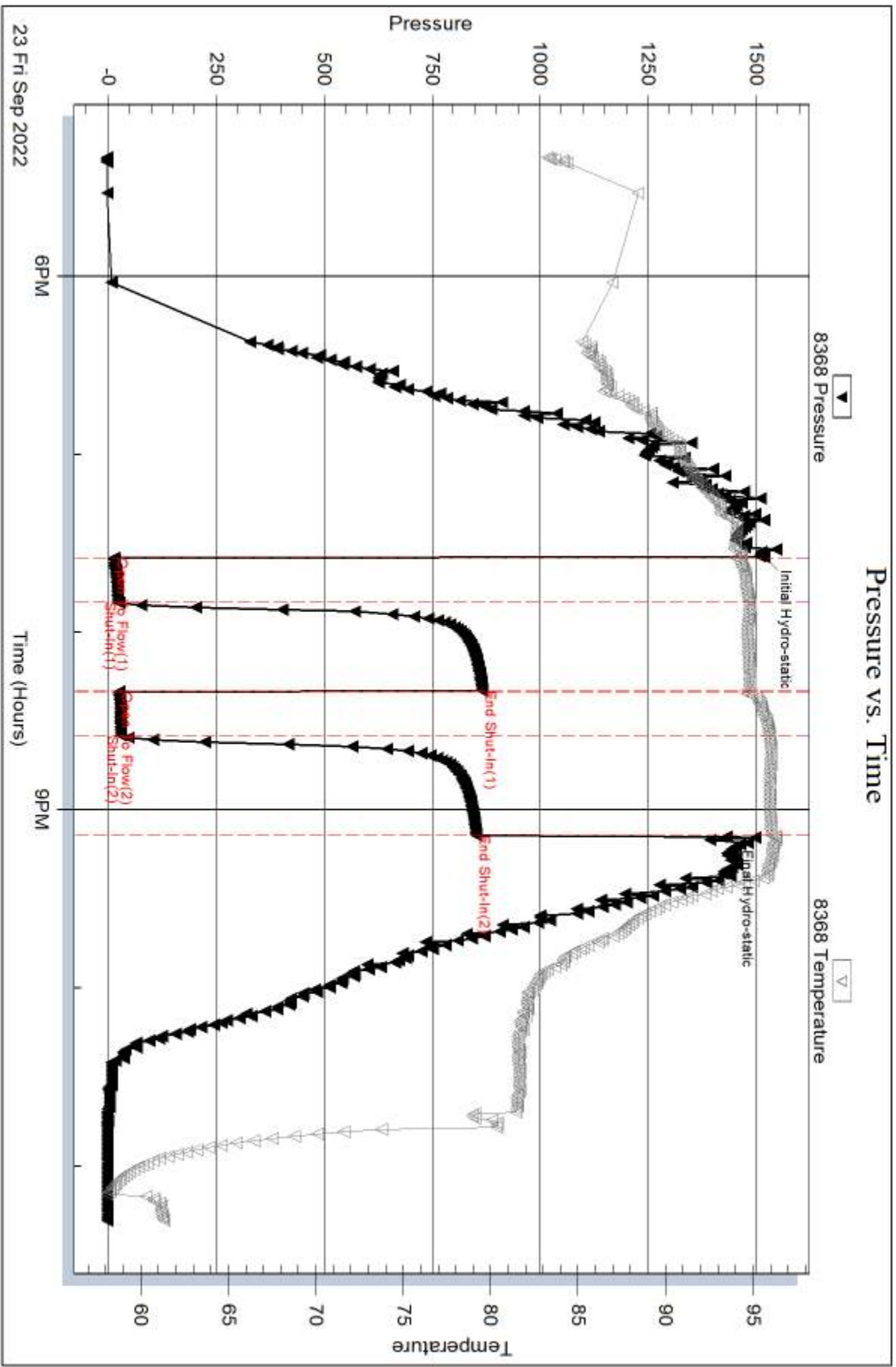
Serial #: 8368

Inside

Brungardt Oil & Leasing

Blackdirt #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 69858

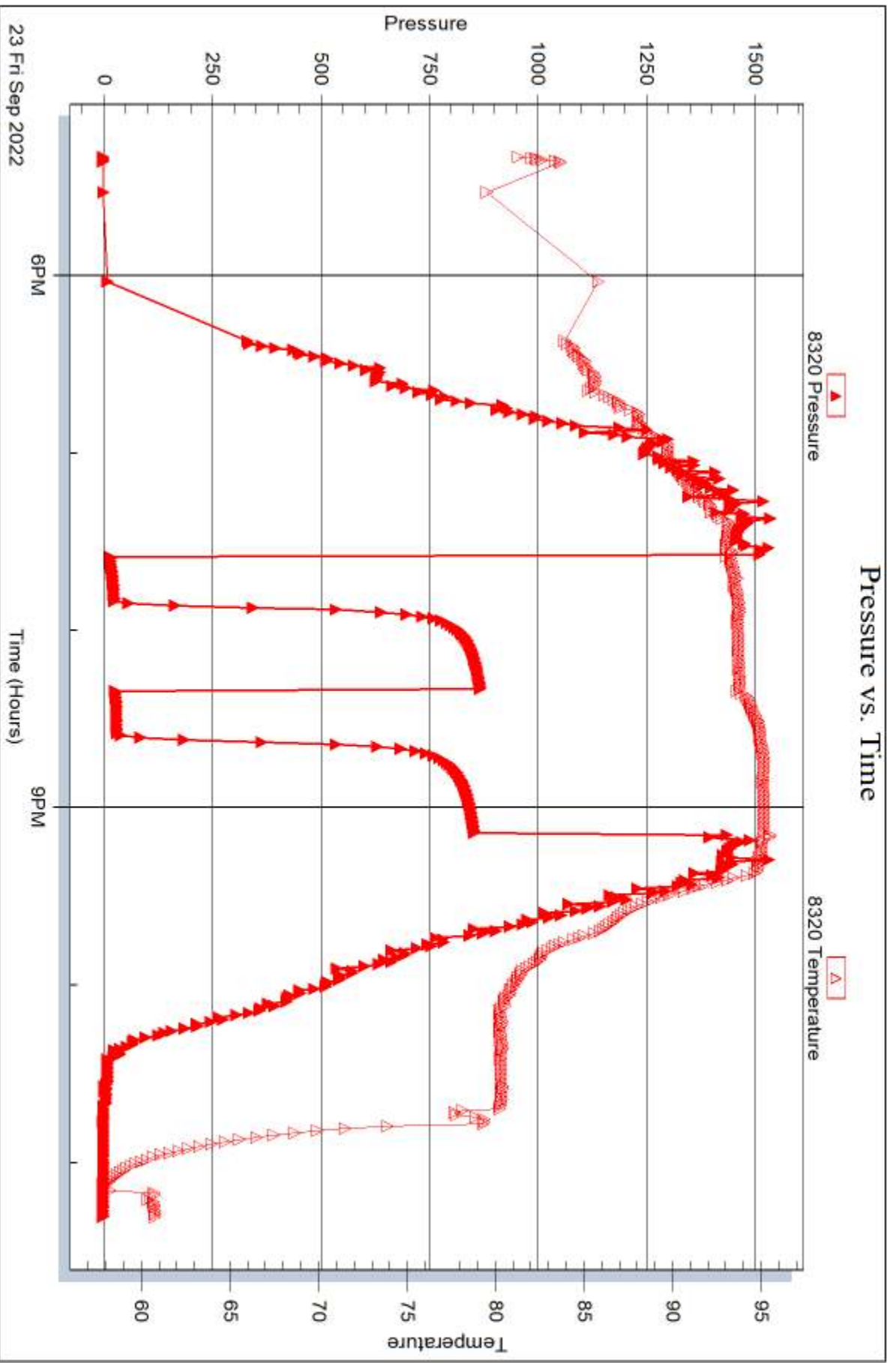
Printed: 2022.09.27 @ 16:25:20

Serial #: 8320

Outside Brungardt Oil & Leasing

Blackdirt #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69858

Printed: 2022.09.27 @ 16:25:20



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing**

213 W 7th
Russell KS 67665

ATTN: Larry Nicholson

Black4dirt #1

6-12s-17w Ellis,KS

Start Date: 2022.09.25 @ 00:17:00

End Date: 2022.09.25 @ 07:47:00

Job Ticket #: 69859 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.27 @ 16:19:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69859

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.09.25 @ 00:17:00

GENERAL INFORMATION:

Formation: **LKC C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:48:30

Time Test Ended: 07:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: 3436.00 ft (KB) To 3486.00 ft (KB) (TVD)

Reference Elevations: 2178.00 ft (KB)

Total Depth: 3180.00 ft (KB) (TVD)

2170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press@RunDepth: 23.03 psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.25 End Date: 2022.09.25

Last Calib.: 2022.09.25

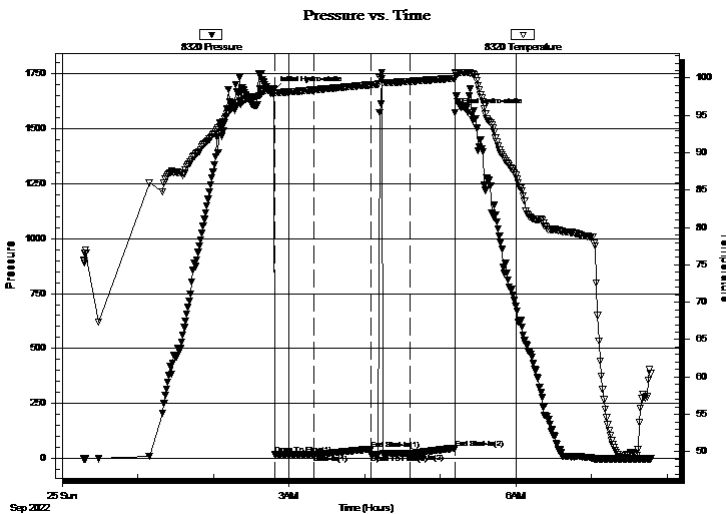
Start Time: 00:17:05 End Time: 07:46:59

Time On Btm: 2022.09.25 @ 02:48:00

Time Off Btm: 2022.09.25 @ 05:11:45

TEST COMMENT: IF-30-No blow
IS-45-No return
FF-30-No blow
FS-30-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.11	98.50	Initial Hydro-static
1	17.60	98.04	Open To Flow (1)
32	18.86	98.41	Shut-In(1)
77	43.04	99.09	End Shut-In(1)
77	17.93	99.08	Open To Flow (2)
109	23.03	99.55	Shut-In(2)
144	47.06	99.96	End Shut-In(2)
144	1573.42	100.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69859

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.09.25 @ 00:17:00

GENERAL INFORMATION:

Formation: **LKC C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:48:30

Time Test Ended: 07:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: 3436.00 ft (KB) To 3486.00 ft (KB) (TVD)

Reference Elevations: 2178.00 ft (KB)

Total Depth: 3180.00 ft (KB) (TVD)

2170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8368 Inside

Press@RunDepth: psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.25

End Date:

2022.09.25

Last Calib.:

1899.12.30

Start Time: 00:17:05

End Time:

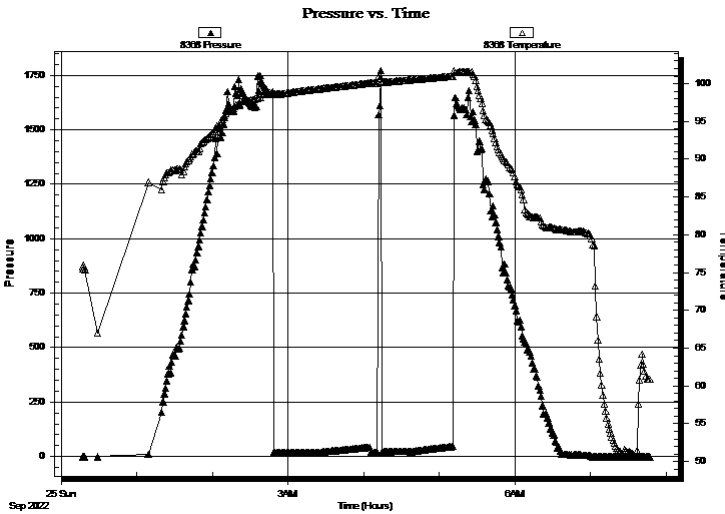
07:46:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30-No blow
IS-45-No return
FF-30-No blow
FS-30-No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69859

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.09.25 @ 00:17:00

Tool Information

Drill Pipe:	Length: 3410.00 ft	Diameter: 3.79 inches	Volume: 47.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 25.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3436.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3406.00	
Shut In Tool	5.00			3411.00	
Hydraulic tool	5.00			3416.00	
Jars	5.00			3421.00	
EM Tool	3.00			3424.00	
Safety Joint	3.00			3427.00	
Packer	5.00			3432.00	31.00 Bottom Of Top Packer
Packer	4.00			3436.00	
Stubb	1.00			3437.00	
Recorder	0.00	8368	Inside	3437.00	
Recorder	0.00	8320	Outside	3437.00	
Perforations	3.00			3440.00	
Change Over Sub	1.00			3441.00	
Drill Pipe	32.00			3473.00	
Change Over Sub	1.00			3474.00	
Perforations	9.00			3483.00	
Bullnose	3.00			3486.00	50.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69859

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.09.25 @ 00:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.49 in³

Resistivity: ohm.m

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

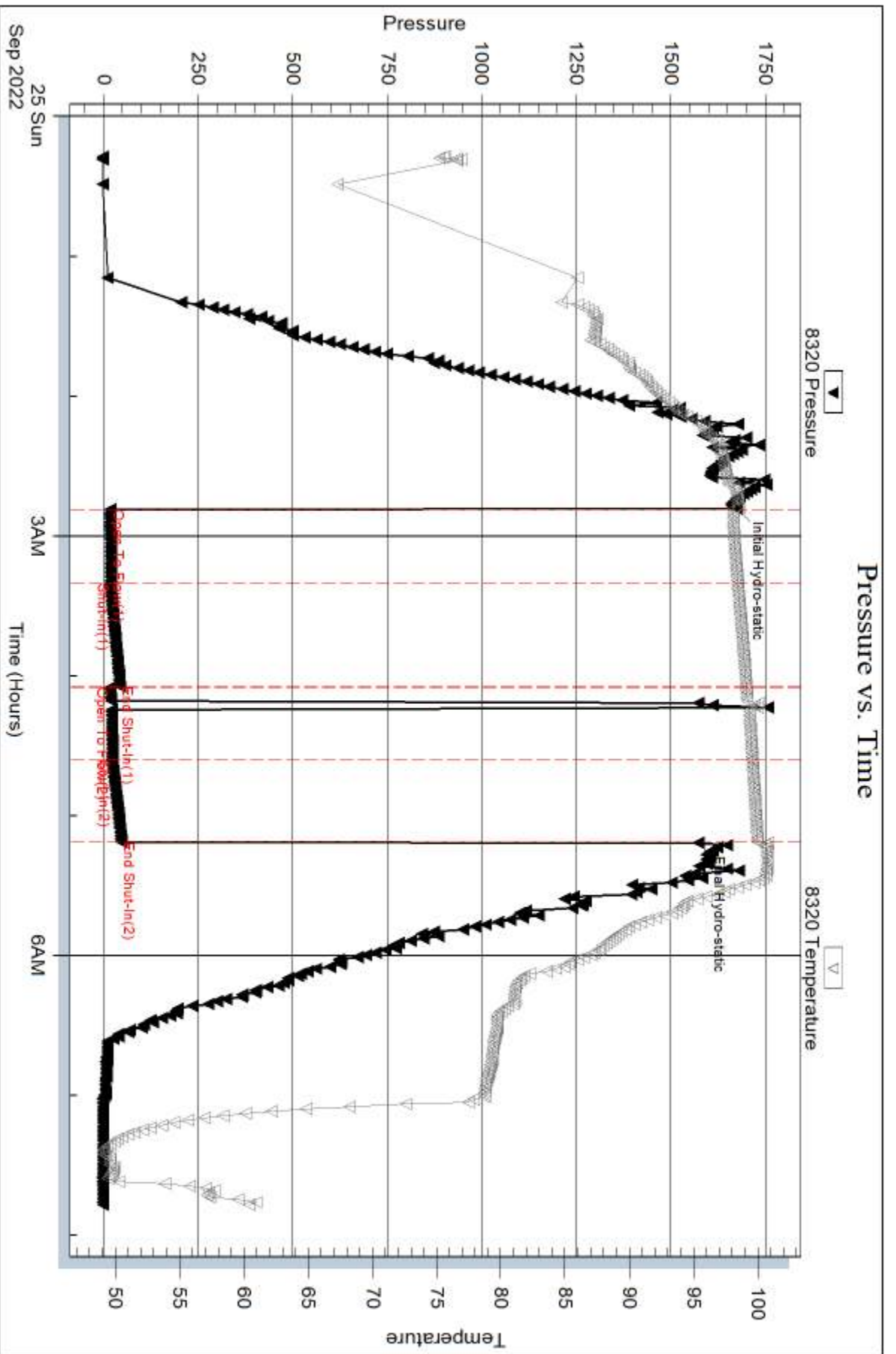
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



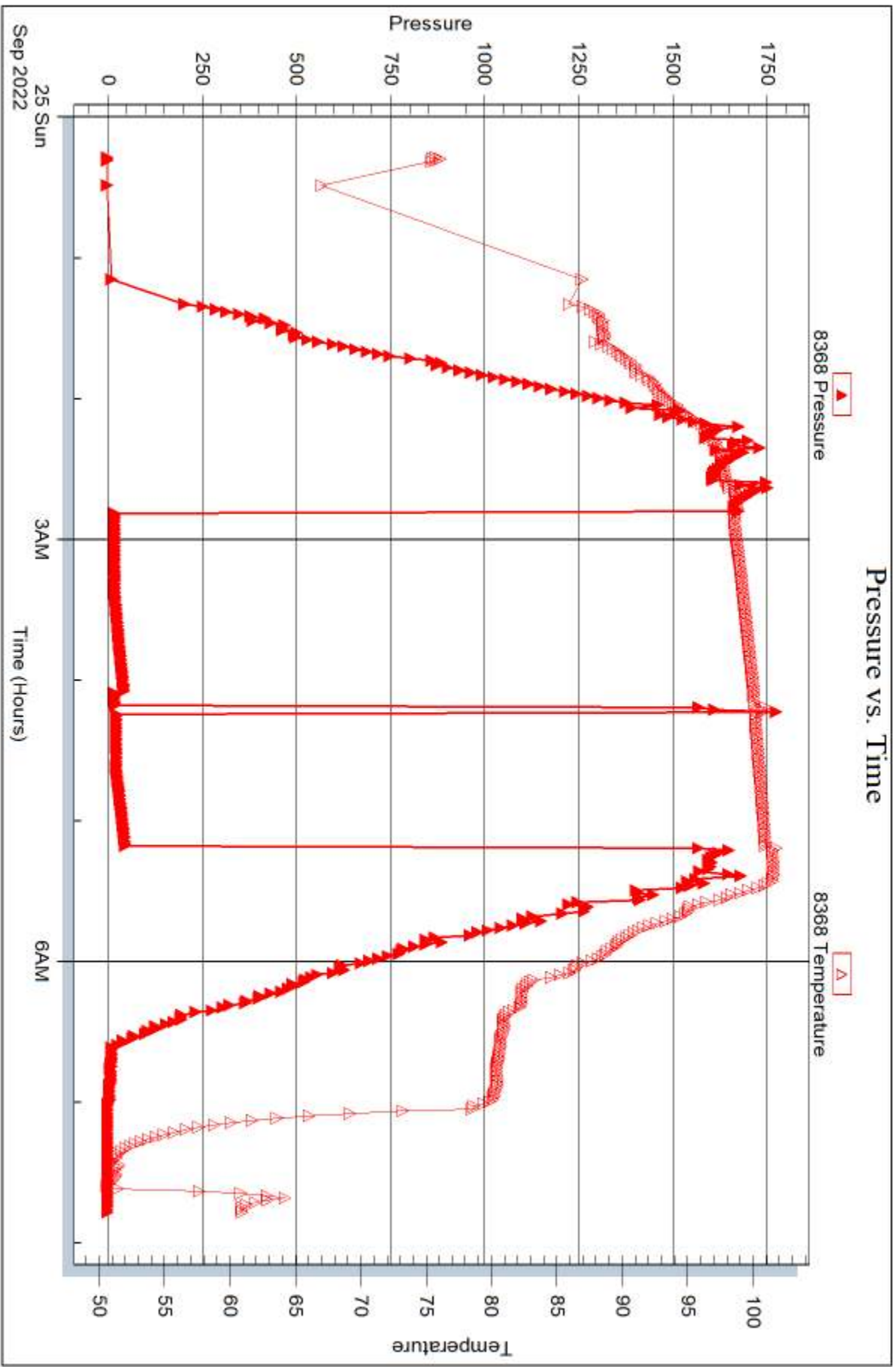
Serial #: 8368

Inside

Brungardt Oil & Leasing

Blackdirt #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69859

Printed: 2022.09.27 @ 16:19:14



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing**

213 W 7th
Russell KS 67665

ATTN: Larry Nicholson

Black4dirt #1

6-12s-17w Ellis,KS

Start Date: 2022.09.26 @ 09:45:00

End Date: 2022.09.26 @ 18:41:30

Job Ticket #: 69860 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.27 @ 16:14:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69860

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.09.26 @ 09:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:52:15

Time Test Ended: 18:41:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: 3654.00 ft (KB) To 3705.00 ft (KB) (TVD)

Reference Elevations: 2178.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

2170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 506.33 psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.26

End Date:

2022.09.26

Last Calib.:

2022.09.26

Start Time: 09:45:05

End Time:

18:41:30

Time On Btm:

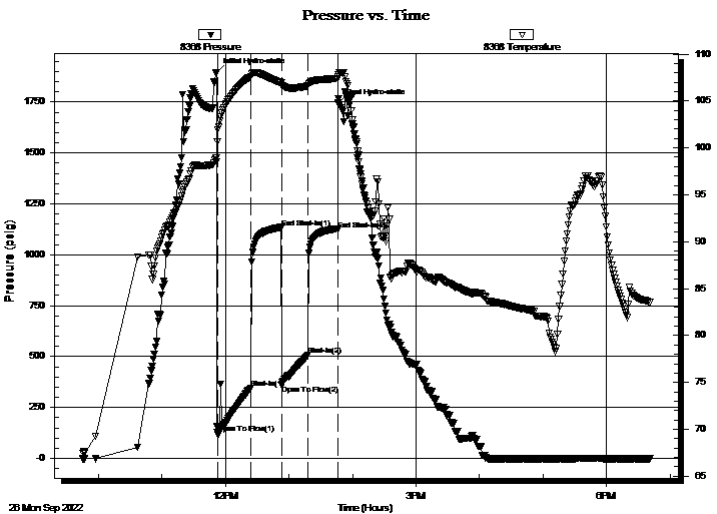
2022.09.26 @ 11:51:30

Time Off Btm:

2022.09.26 @ 13:46:15

TEST COMMENT: IF-30-BOB-7 min [101 inches on IPRO]
IS-30-6 inches return
FF-30-BOB 7 min [81 Inches On IPRO]
FS-30-1 Inch return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.86	98.98	Initial Hydro-static
1	124.82	100.64	Open To Flow (1)
33	346.30	107.61	Shut-In(1)
62	1133.89	106.92	End Shut-In(1)
62	358.57	106.60	Open To Flow (2)
87	506.33	106.61	Shut-In(2)
115	1124.35	107.37	End Shut-In(2)
115	1744.28	107.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1350.00	GO 80%Oil 20% Gas	18.57

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69860

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.09.26 @ 09:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:52:15

Time Test Ended: 18:41:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: 3654.00 ft (KB) To 3705.00 ft (KB) (TVD)

Reference Elevations: 2178.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

2170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.26

End Date:

2022.09.26

Last Calib.:

1899.12.30

Start Time: 09:45:05

End Time:

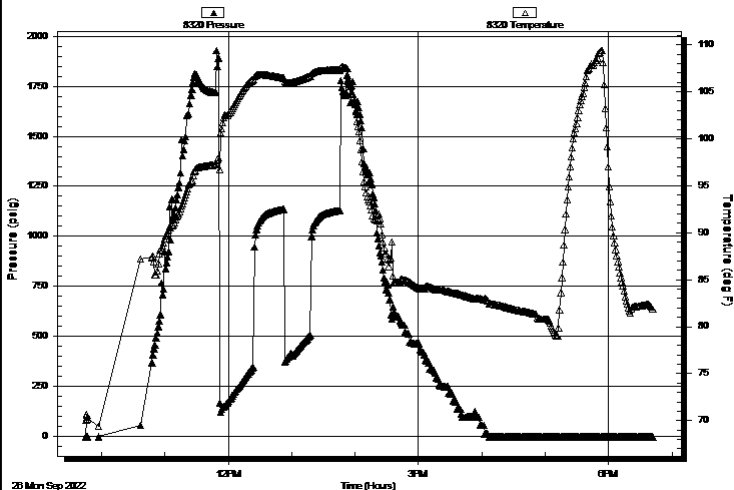
18:41:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30-BOB-7 min [101 inches on IPRO]
IS-30-6 inches return
FF-30-BOB 7 min [81 Inches On IPRO]
FS-30-1 Inch return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1350.00	GO 80%Oil 20% Gas	18.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69860

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.09.26 @ 09:45:00

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.79 inches	Volume: 50.65 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	37.00 ft			Final	58000.00 lb
Depth to Top Packer:	3654.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3624.00	
Shut In Tool	5.00			3629.00	
Hydraulic tool	5.00			3634.00	
Jars	5.00			3639.00	
EM Tool	3.00			3642.00	
Safety Joint	3.00			3645.00	
Packer	5.00			3650.00	31.00 Bottom Of Top Packer
Packer	4.00			3654.00	
Stubb	1.00			3655.00	
Recorder	0.00	8368	Inside	3655.00	
Recorder	0.00	8320	Outside	3655.00	
Perforations	4.00			3659.00	
Change Over Sub	1.00			3660.00	
Drill Pipe	32.00			3692.00	
Change Over Sub	1.00			3693.00	
Perforations	9.00			3702.00	
Bullnose	3.00			3705.00	51.00 Bottom Packers & Anchor
Total Tool Length:	82.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing

6-12s-17w Ellis,KS

213 W 7th
Russell KS 67665

Black4dirt #1

Job Ticket: 69860

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.09.26 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1350.00	GO 80%Oil 20% Gas	18.566

Total Length: 1350.00 ft Total Volume: 18.566 bbl

Num Fluid Samples: 0

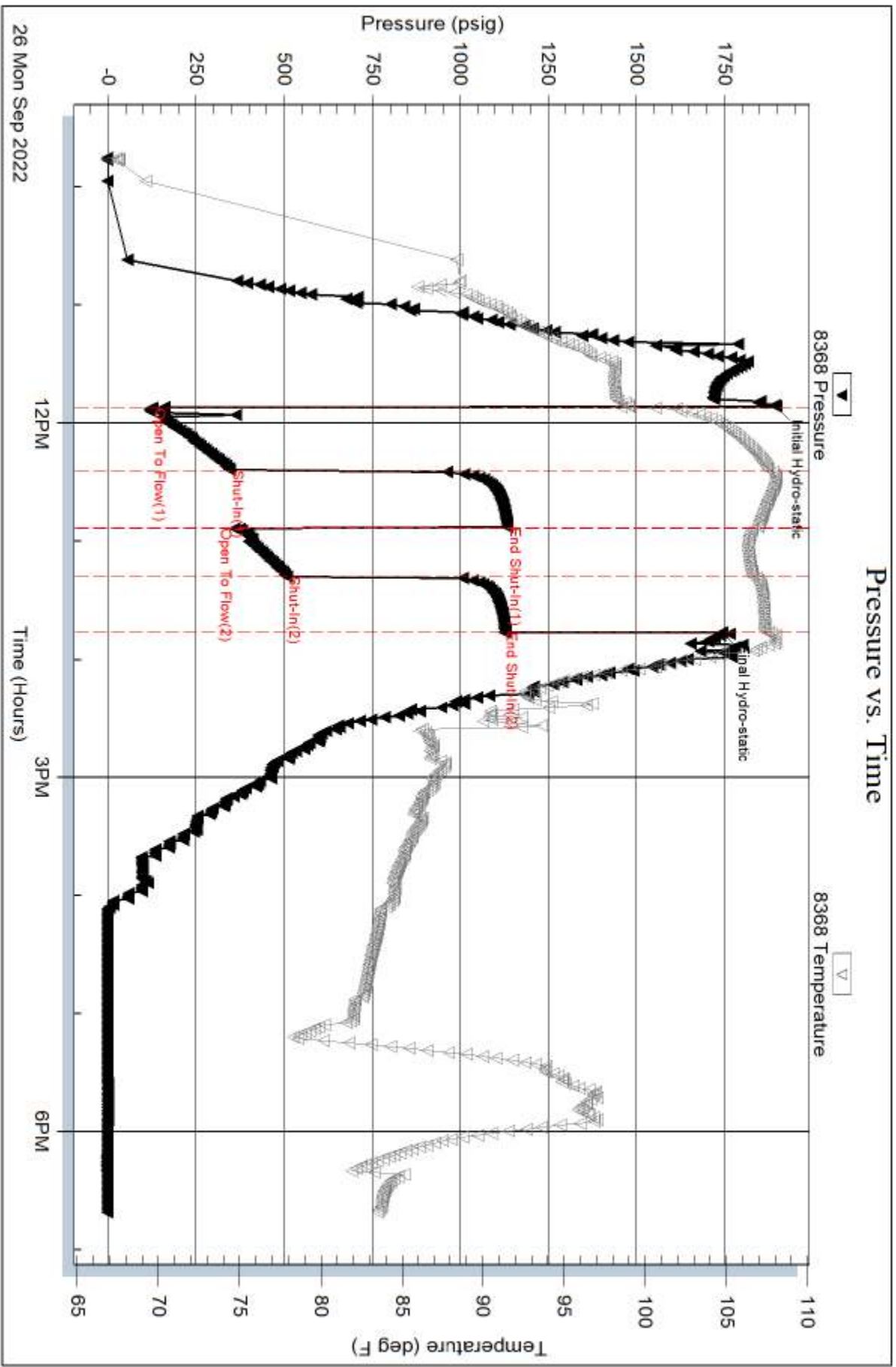
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

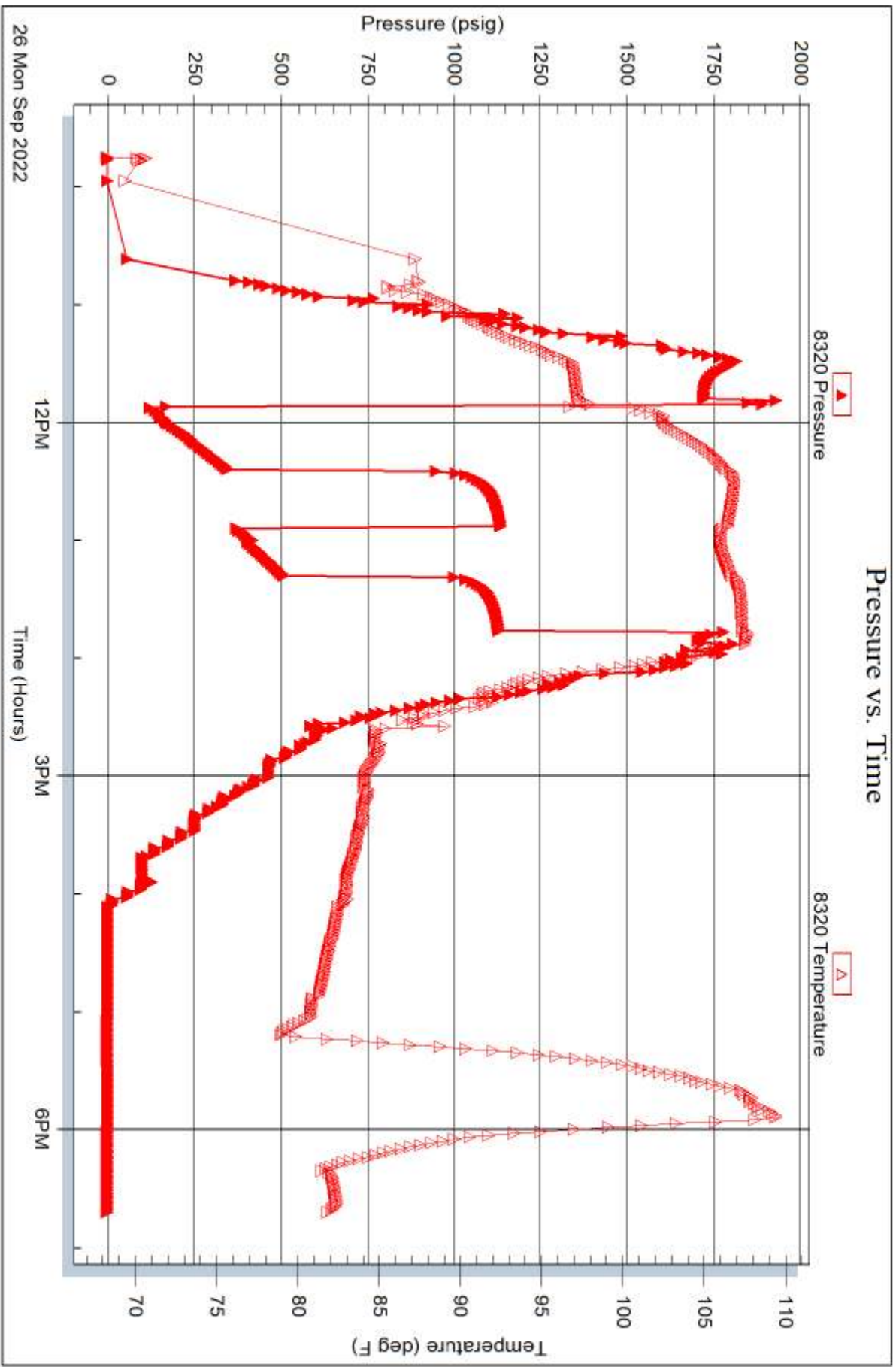


Serial #: 8320

Outside Brungardt Oil & Leasing

Blackdirt #1

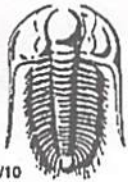
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69860

Printed: 2022.09.27 @ 16:14:57



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69858

Well Name & No. Black #4 Dirt Test No. 1 Date 9-23-22
 Company Brungardt Oil and Leasing Elevation 2178 KB 2170 GL
 Address 213 W 7th Russell, KS. 67105
 Co. Rep / Geo. Larry Nicholson Rig Discovery Drilling #2
 Location: Sec. 4 Twp 12 Rge. 17 W Co. 511.5 State KS

Interval Tested 3162-3180 Zone Tested Topeka
 Anchor Length 18 Drill Pipe Run 3127 Mud Wt. 8.8
 Top Packer Depth 3157 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3162 Wt. Pipe Run _____ WL 5.5
 Total Depth 3180 Chlorides 3600 ppm System LCM 2#

Blow Description IS - 15 - Surface blow
ISI - 30 - No Return
FS - 15 - No Blow
FIS - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>0.5M</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 35 BHT 910 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1520 Test 1800 T-On Location 15:30
 (B) First Initial Flow 15 Jars _____ T-Started 17:20
 (C) First Final Flow 23 Safety Joint _____ T-Open 19:42
 (D) Initial Shut-In 867 Circ Sub _____ T-Pulled 21:12
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 23:27
 (F) Second Final Flow 30 Mileage 16 X 2 48 Comments _____
 (G) Final Shut-In 854 Sampler _____
 (H) Final Hydrostatic 1432 Straddle _____ EM Tool _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Sub Total 1848 Accessibility _____ Total 1848
 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. 69859

Well Name & No. Black 4 Dirt #1 Test No. 2 Date 9-25-22
 Company Bronard Oil and Leasing Elevation 2178 KB 2170 GL
 Address 213 W 7th Russell, KS 67665
 Co. Rep / Geo. Larry Nicholson Rig Discovery Drilling #2
 Location: Sec. 6 Twp 12 Rge. 17w Co. Ellis State K3

Interval Tested 3436 - 3486 Zone Tested LKC C-D
 Anchor Length 50 Drill Pipe Run 3410 Mud Wt. 8.8
 Top Packer Depth 3431 Drill Collars Run _____ Vis 54
 Bottom Packer Depth 3436 Wt. Pipe Run 30 WL 5.5
 Total Depth 3486 Chlorides 3600 ppm System LCM 1#
 Blow Description IF - 30 - No Blow
ISB - 45 - No Return
FF - 30 - No Blow
ISB - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>				<u>100</u>	

Rec Total 2 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1674</u>	<input checked="" type="checkbox"/> Test 1800	T-On Location <u>23:15</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:17</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>2:50</u>
(D) Initial Shut-In <u>43</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:05</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:45</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>16x2</u> 48	Comments _____
(G) Final Shut-In <u>47</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1573</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</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>-350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1498</u>
	Sub Total <u>1848</u>	MP/DST Disc't _____

Approved By _____ Our Representative Terry Wickham

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. **69860**

Well Name & No. Black 4Dort #1 Test No. 03 Date 9-26-22
 Company Brunyardt Oil and Leasing Elevation 2178 KB 2170 GL
 Address 213 W 7th Russell, KS 67165
 Co. Rep / Geo. Larry Nicholson Rig Discovery Drilling #2
 Location: Sec. 6 Twp 12 Rge. 17 W Co. Ellis State KS

Interval Tested 3654-3705 Zone Tested Arbuckle
 Anchor Length ~~3654~~ 51 Drill Pipe Run 3630 Mud Wt. 9.1
 Top Packer Depth 3649 Drill Collars Run _____ Vis 63
 Bottom Packer Depth 3654 Wt. Pipe Run 30 WL 8.8
 Total Depth 3705 Chlorides 5,000 ppm System LCM 1#

Blow Description IF-30-BOB in 7 min (101 inches on IPRD)
ISI-30-6 inches Return
FF-30-BOB in 7 min (81 inches on IPRD)
FSI-30-1 inch Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1350</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>60</u>		<u>100</u>			

Rec Total 1410 BHT 107 Gravity 34 API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1896 Test 1800 T-On Location 9:00
 (B) First Initial Flow 125 Jars _____ T-Started 9:45
 (C) First Final Flow 346 Safety Joint _____ T-Open 11:47
 (D) Initial Shut-In 1134 Circ Sub _____ T-Pulled 13:48
 (E) Second Initial Flow 359 Hourly Standby _____ T-Out 18:40
 (F) Second Final Flow 506 Mileage 16x2 48 Comments _____
 (G) Final Shut-In 1124 Sampler _____
 (H) Final Hydrostatic 1744 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 1848 Accessibility _____ Sub Total 0
 Sub Total 1848 MP/DST Disc't _____

Approved By _____ Our Representative Terrance Wickham

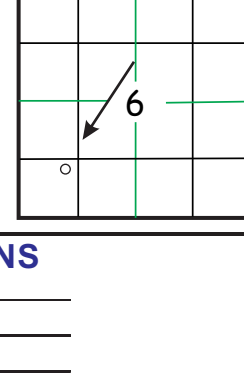
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GEOLOGICAL REPORT FINAL

Larry A. Nicholson

NAD 27
 39.986531
 -101.494931

COMPANY **Brungardt Oil and Leasing Inc.**
 API # **15-051-27046** FIELD **Bemis-Shurts**
 LEASE **Black4dirt** WELL # **#1**
 LOCATION **NE NE SW SW**
 SURVEY **1156 FSL 1077 FWL**
 SECTION **6** TWP **12S** RGE **17W**
 COUNTY **Ellis** STATE **Kansas**



CONTRACTOR **Discovery Drilling - Schmidt Rig #1**
 SPUD **09/20/2022 7:00AM** COMP
 RTD **3:05 4:56am 09/26/22** LTD **3:06**
 MUD UP AT **2899**
 MUD TYPE **MudCo Gary S**

ELEVATIONS
 K.B. **2178**
 D.F.
 G.L. **2170**
 All measurements from K.B. 2178

SAMPLES SAVED FROM **2900** TO **RTD**
 DRILLING TIME FROM **2800** TO **RTD**
 SAMPLES EXAMINED FROM **2900** TO **RTD**
 GEOLOGICAL SUPERVISION FROM **2900** TO **RTD**
 WELL SITE GEOLOGIST **LARRY A. NICHOLSON**

CASING RECORD
 Conductor of _____ w/ _____ sx
 Surface **221** of **8 5/8 23#** **150**
 Production of _____ w/ _____ sx

ELECTRICAL SURVEYS **DUAL COMP NEUT/DEN MICRO BTM Micro/Gamma**

FORMATION TOPS & STRUCTURAL POSITION					
FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL
					A B
Anhydrite			1416	+762	
B/Anhydrite			1452	+726	
Topeka			3143	-965	
Heebner Sh			3374	-1196	
Toronto			3394	-1216	
LANS			3420	-1242	
BKC			3656	-1478	
Simpson Dol			3665	-1487	
Arbuckle			3700	-1522	
RTD			3705	-1527	
LTD			3706	-1528	

REFERENCE WELLS
 A: _____
 B: _____

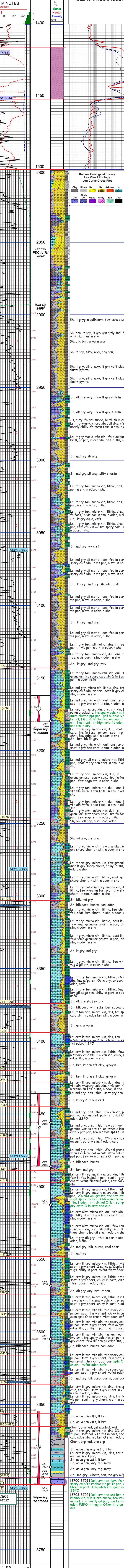
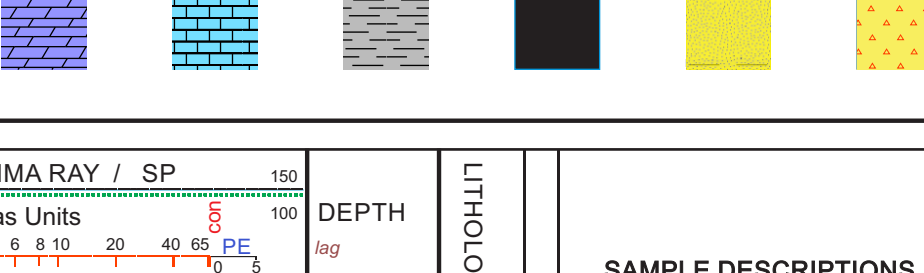
LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 8.5 x 97.5 mem TL 5/05/21 last well

DRILLSTEM TEST SUMMARY :
 Det #1 3162-3180 (Topeka) 15 30 15 30 IF:15-23 FF:25-30 SI:867-854
 Rec 35' OSM IF surf blow, nr FF n blow, nr BHT 96F
 Det #2 3436-3486 (LKC C-D) 30 45 30 45 IF:18-19 FF:18-23 SI:43-47
 Rec 2' M (100M) IF n blow, nr FF n blow, nr BHT 100F FF BOB 9 min, Ret 5', Grav 27
 Det #3 3654-3705 (Arbuckle) 30 30 30 30 IF:175-346 FF:359-506 SI:1124-1124
 Rec 1350' GO (203 800) 60' GIP IF BOB 7min (101'), Ret 6" FF BOB 7 min (81'), Ret 1" BHT 107F

REMARKS & RECOMMENDATIONS:
Based on Sample Shows and Dst Results
5 1/2" casing was run.
Sincerely Submitted
Larry Nicholson Geologist

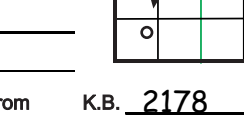
In Memory of Geologist Tom Lawer

LEGEND



COMPANY **Brungardt Oil and Leasing Inc.**
 LEASE **Black4dirt #1 NENE SW SW**
 LOCATION **1156 FSL 1077 FWL SEC 6 TWP 12S RGE 17W**
 COUNTY **Ellis** STATE **Ks**

ELEVATIONS
 K.B. **2178**
 D.F.
 G.L. **2170**
 All measurements from K.B. 2178



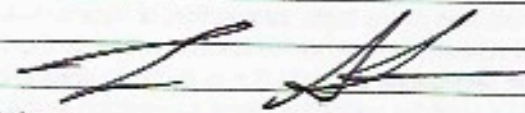
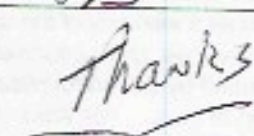
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 3162

Date	9-20-22	Sec.	6	Twp.	12	Range	17	County	Ellis	State	Ks	On Location		Finish	1:15 PM	
Lease	Black 4 Dirt							Location	Hay's N to Severin Rd, 3E							
Contractor	Discovery #2							Well No.	#1							
Type Job	Surface							Owner	1/2 N, E Into							
Hole Size	12 1/4"							T.D.	221'							
Csg.	8 3/8"							Depth	221'							
Tbg. Size								Depth								
Tool								Depth								
Cement Left in Csg.	15'							Shoe Joint	15'							
Meas Line								Displace	13 BLS							
EQUIPMENT								Common	120							
Pumptrk	16	No.		Cementer	Jordan							Poz. Mix	30			
Bulktrk	14	No.		Driver	ROSS							Gal.	3			
Bulktrk	pu.	No.		Driver	Rick							Calcium	6			
JOB SERVICES & REMARKS								Hulls								
Remarks:	Cement did Circulate							Salt								
Rat Hole								Flowseal								
Mouse Hole								Kol-Seal								
Centralizers								Mud CLR 48								
Baskets								CFL-117 or CD110 CAF 38								
D/V or Port Collar								Sand								
								Handling	159							
								Mileage								
								FLOAT EQUIPMENT								
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Pumptrk Charge	Surface							
								Mileage	15							
																
X Signature								Tax								
								Discount								
								Total Charge								

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. 3146

Date	10-7-22	Sec.	6	Twp.	12	Range	17 W	County	ELLIS	State	KS	On Location	Finish
Location <u>HAYS 8N 36 E 12W</u>													

Lease <u>BLACKY DIRT</u>	Well No. <u>1</u>	Owner	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.
Contractor <u>C-B</u>		Charge To	<u>B Rundgardt Oil</u>
Type Job <u>PORT COLLAR</u>		Street	
Hole Size	T.D.	City	State
Csg. <u>5 1/2</u>	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size <u>2 3/8</u>	Depth	Cement Amount Ordered <u>300# QMDC 1/4 # FLO</u>	
Tool	Depth		
Cement Left in Csg.	Shoe Joint		
Meas Line	Displace		

EQUIPMENT					
Pumptrk	No.	Cementier		Common	<u>250 QMDC</u>
		Helper	<u>Bill</u>	Poz. Mix	
Bulktrk	No.	Driver	<u>NICK</u>	Gel.	<u>4</u>
		Driver		Calcium	
Bulktrk	No.	Driver	<u>ROSS</u>	Hulls	
		Driver		Salt	

JOB SERVICES & REMARKS			
Remarks:		Flowseal	<u>75#</u>
Rat Hole		Kol-Seal	
Mouse Hole		Mud CLR 48	
Centralizers		CFL-117 or CD110 CAF 38	
Baskets		Sand	
D/V or Port Collar		Handling	<u>300</u>
<u>P.C. e 1406 Test 800 #</u>		Mileage	
<u>pump 400# Gel</u>			
<u>Cemt w/ 250#</u>			
<u>Cemt did CIR. Close to 1</u>			
<u>RUN 5 JTS Wash Clean</u>			

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

	Pumptrk Charge	<u>port collar Job</u>	
	Mileage	<u>15</u>	
Signature <u>Kerry W. Rescher</u> Thanks			Tax _____ Discount _____ Total Charge _____

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. 3134

Date	9-27-22	Sec.	6	Twp.	12	Range	17	County	Ellis	State	KS	On Location	Finish	8:00 Am	
Location								HAYS PN 3 1/2 E 1 1/2							

Lease	BLACK 4 DIRT		Well No.	1		Owner	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.			
Contractor	Discovery Y				Charge To		BRUNGARDT Oil & Leasing			
Type Job	Long String				Street					
Hole Size	7 7/8		T.D.		City		State			
Csg.	5 1/2 14"		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		Cement Amount Ordered 17.54 Com 1090 Salt			
Tbg. Size			Depth		Cement Left in Csg.		Shoe Joint 43			
Tool			Depth		Meas Line		Displace 89			

EQUIPMENT

Pumptrk	17	No.	Cementor Helper	BIW	Poz. Mix				
Bulktrk		No.	Driver	NICK	Gel.				
Bulktrk		No.	Driver		Calcium				

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 18 30	Salt 15
Mouse Hole 30 15	Flowseal
Centralizers	Kol-Seal 800#
Baskets	Mud CLR 48 500 gal
D/V or Port Collar 1445 5t 54	CFL-117 or CD110 CAF 38
pipe set at 3600' Pipe set at	Sand
Shoe Jt 43 3701'	Handling 198
Insert - 3650	Mileage

FLOAT EQUIPMENT

pump 500 gal Mud Flush	Guide Shoe
Cent w/ 130A	Centralizer 6 6
pump plus w/ 89 bbls	Baskets 3 3
LAND plug c 1200'	AFU Inserts
FLOAT held	Float Shoe 1
	Latch Down 1
	P.C. - 1

	Pumptrk Charge prod string Mileage 15 <div style="text-align: center; font-size: 2em; font-family: cursive;">Thanks</div>
X Signature	Tax Discount Total Charge