

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	STEINLE 4-32
Doc ID	1657029

All Electric Logs Run

Spectral Density Dual Neutron
Dual Induction
Microresistivity
Radial Bond Log

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	STEINLE 4-32
Doc ID	1657029

Tops

Name	Top	Datum
Anhydrite	926	+1003
B/Anhydrite	957	+972
Topeka	2840	-911
Heebner	3070	-1141
Toronto	3086	-1157
Lansing	3132	-1203
Mun Creek	3275	-1346
Stark Shale	3341	-1412
B/KC	3376	-1447
Arbuckle	3382	-1453
RTD	3450	-1521
LTD	3450	-1521

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	STEINLE 4-32
Doc ID	1657029

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3382	3384			100 gal 10% mud acid, 250 gal 15% NE/CS
4	3384	3387			250 gal 10% mud acid
4	3398	3401			none
4	3303	3307			250 gal 20% MCA
4	3283	3286			250 gal 20% MCA
4	3219	3222			250 gal 20% MCA, SQUEEZE OFF 60 sx common 3% cc
4	3172	3178			500 gal 20% MCA
			CIBP Cast Iron Bridge Plug	3396	



DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

Steinle #4-32

32-15S-14W Russell,KS

Start Date: 2022.04.10 @ 00:32:40

End Date: 2022.04.10 @ 06:14:10

Job Ticket #: 68927 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.04.19 @ 10:24:53

Russell Oil Inc. 32-15S-14W Russell,KS Steinle #4-32 DST # 1 LKC B-C 2022.04.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.
PO Box 8050
Edmond, OK 73083
ATTN: Kitt Noah

32-15S-14W Russell,KS

Steinle #4-32

Job Ticket: 68927

DST#: 1

Test Start: 2022.04.10 @ 00:32:40

GENERAL INFORMATION:

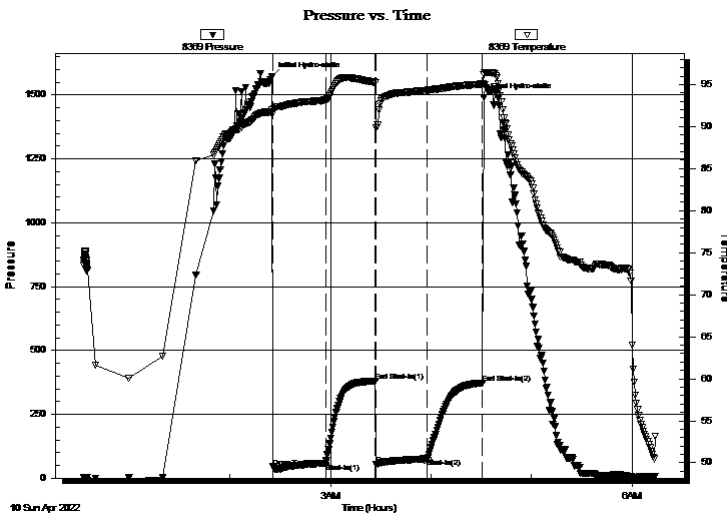
Formation: **LKC B-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:25:20
 Time Test Ended: 06:14:10
 Interval: **3144.00 ft (KB) To 3182.00 ft (KB) (TVD)**
 Total Depth: 3182.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Eric Burges
 Unit No: 80
 Reference Elevations: 1929.00 ft (KB)
 1919.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 76.61 psig @ 3145.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.10 End Date: 2022.04.10 Last Calib.: 2022.04.10
 Start Time: 00:32:41 End Time: 06:14:10 Time On Btm: 2022.04.10 @ 02:24:40
 Time Off Btm: 2022.04.10 @ 04:31:20

TEST COMMENT: IF:Strong Building Blow built to 189.55" (30)
 IS:No Blow Back (30)
 FF:Strong Building Blow built 193.21" (30)
 FS:No Blow Back (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.41	91.98	Initial Hydro-static
1	43.99	91.55	Open To Flow (1)
33	59.17	93.20	Shut-In(1)
62	380.62	95.26	End Shut-In(1)
63	52.83	89.88	Open To Flow (2)
93	76.61	94.31	Shut-In(2)
126	372.79	95.04	End Shut-In(2)
127	1490.34	96.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GWMCO 60%O 15%G 10%M 15%W	0.92
63.00	GVSOXM 25%G 5%O 70%M	0.92
25.00	GVSOXM 5%O 5%G 90%M	0.37
0.00	2079' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68927

DST#: 1

ATTN: Kitt Noah

Test Start: 2022.04.10 @ 00:32:40

Tool Information

Drill Pipe:	Length: 3142.00 ft	Diameter: 3.88 inches	Volume: 45.95 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	24000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3144.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	69.00 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			3114.00	
Shut In Tool	5.00			3119.00	
Hydraulic tool	5.00			3124.00	
EM tool	3.00			3127.00	
Jars	5.00			3132.00	
Safety Joint	3.00			3135.00	
Packer	4.00			3139.00	31.00 Bottom Of Top Packer
Packer	5.00			3144.00	
Stubb	1.00			3145.00	
Recorder	0.00	8369	Outside	3145.00	
Recorder	0.00	8846	Inside	3145.00	
Perforations	34.00			3179.00	
Bullnose	3.00			3182.00	38.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68927

DST#: 1

ATTN: Kitt Noah

Test Start: 2022.04.10 @ 00:32:40

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GWMCO 60%O 15%G 10%M 15%W	0.921
63.00	GVSOCCM 25%G 5%O 70%M	0.921
25.00	GVSOCCM 5%O 5%G 90%M	0.366
0.00	2079' GIP	0.000

Total Length: 151.00 ft

Total Volume: 2.208 bbl

Num Fluid Samples: 0

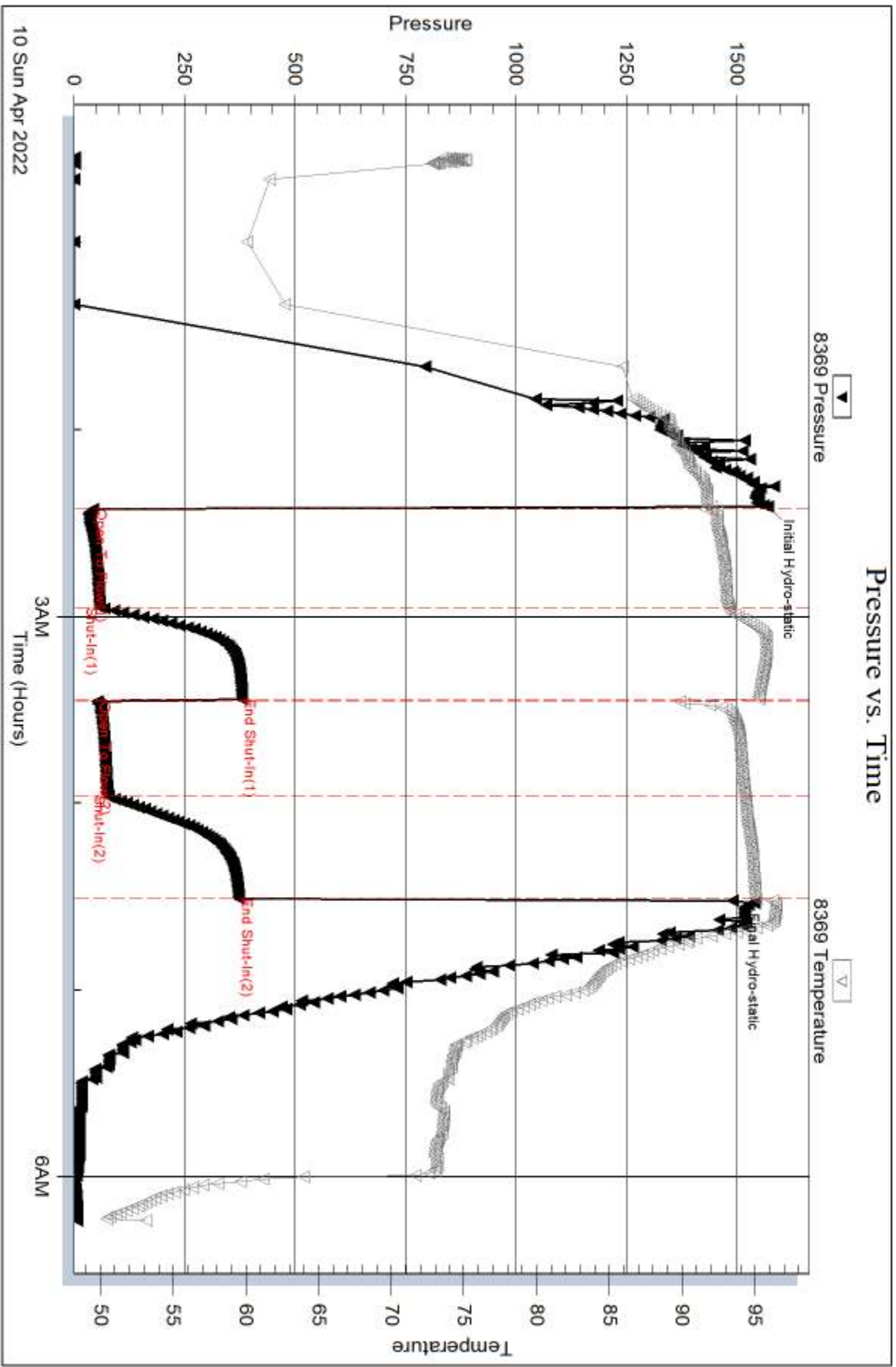
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



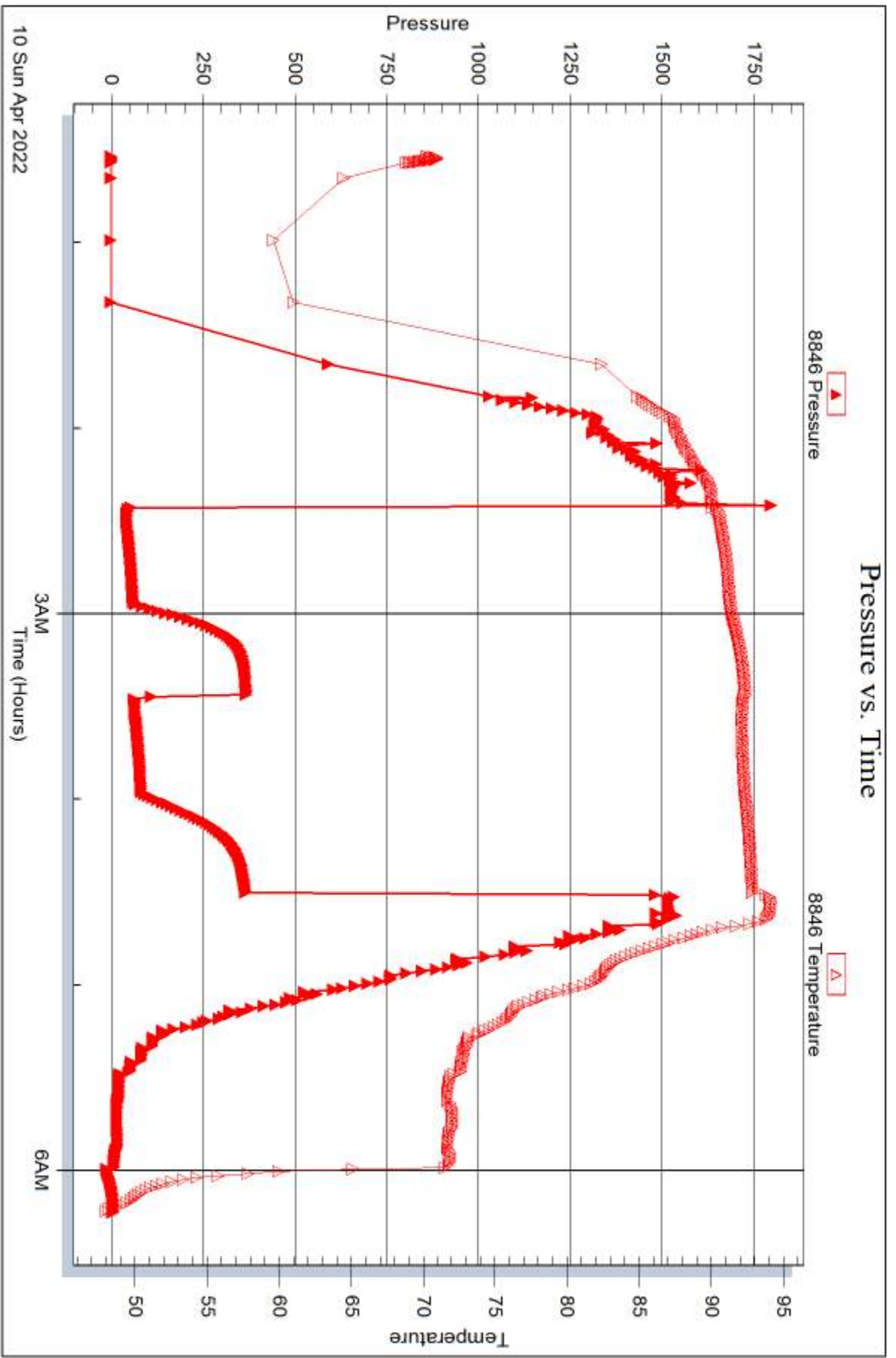
Serial #: 8846

Inside

Russell Oil Inc.

Steinle #4-32

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

Steinle #4-32

32-15S-14W Russell,KS

Start Date: 2022.04.10 @ 23:15:46

End Date: 2022.04.11 @ 05:17:06

Job Ticket #: 68928 DST #: 2

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

Printed: 2022.04.19 @ 10:23:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc.
PO Box 8050
Edmond, OK 73083
ATTN: Kitt Noah

32-15S-14W Russell,KS
Steinle #4-32
Job Ticket: 68928 **DST#: 2**
Test Start: 2022.04.10 @ 23:15:46

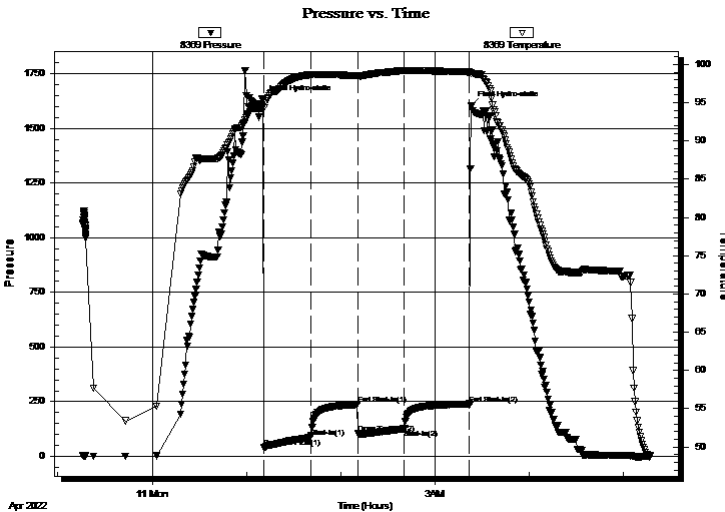
GENERAL INFORMATION:

Formation: **LKC H-1**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:11:16
Time Test Ended: 05:17:06
Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burges
Unit No: 80
Interval: **3276.00 ft (KB) To 3313.00 ft (KB) (TVD)**
Reference Elevations: 1929.00 ft (KB)
Total Depth: 3313.00 ft (KB) (TVD) 1919.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8369 Outside
Press@RunDepth: 125.56 psig @ 3277.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.10 End Date: 2022.04.11 Last Calib.: 2022.04.11
Start Time: 23:15:47 End Time: 05:17:06 Time On Btm: 2022.04.11 @ 01:10:36
Time Off Btm: 2022.04.11 @ 03:23:16

TEST COMMENT: IF:Strong Building Blow built 52.44" (30)
IS:Weak Blow Back .75" in bucket (30)
FF:Strong Building Blow built 24.44" (30)
FS:Weak Blow Back 1" in bucket (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.62	94.31	Initial Hydro-static
1	42.45	94.33	Open To Flow (1)
31	86.59	98.64	Shut-In(1)
61	237.45	98.54	End Shut-In(1)
61	104.48	98.48	Open To Flow (2)
90	125.56	99.20	Shut-In(2)
132	239.97	99.01	End Shut-In(2)
133	1602.15	98.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GV SOMCW 5%O 10%G 45%W 40%M	0.92
63.00	GV SOMCW 10%G 5%O 60%W 25%M	0.92
63.00	OWMCG 40%G 30%O 20%W 10%M	0.92
32.00	GMWCO 25%G 35%O 15%W 25%M	0.47
0.00	819' 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

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68928

DST#: 2

ATTN: Kitt Noah

Test Start: 2022.04.10 @ 23:15:46

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.88 inches	Volume: 47.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 47.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3276.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	68.00 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			3246.00	
Shut In Tool	5.00			3251.00	
Hydraulic tool	5.00			3256.00	
EM tool	3.00			3259.00	
Jars	5.00			3264.00	
Safety Joint	3.00			3267.00	
Packer	4.00			3271.00	31.00 Bottom Of Top Packer
Packer	5.00			3276.00	
Stubb	1.00			3277.00	
Recorder	0.00	8369	Outside	3277.00	
Recorder	0.00	8846	Inside	3277.00	
Perforations	33.00			3310.00	
Bullnose	3.00			3313.00	37.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68928

DST#: 2

ATTN: Kitt Noah

Test Start: 2022.04.10 @ 23:15:46

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:

13000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	GVSOMCW 5%O 10%G 45%W 40%M	0.921
63.00	GVSOMCW 10%G 5%O 60%W 25%M	0.921
63.00	OWMCG 40%G 30%O 20%W 10%M	0.921
32.00	GMWCO25%G 35%O 15%W 25%M	0.468
0.00	819' GIP	0.000

Total Length: 221.00 ft

Total Volume: 3.231 bbl

Num Fluid Samples: 0

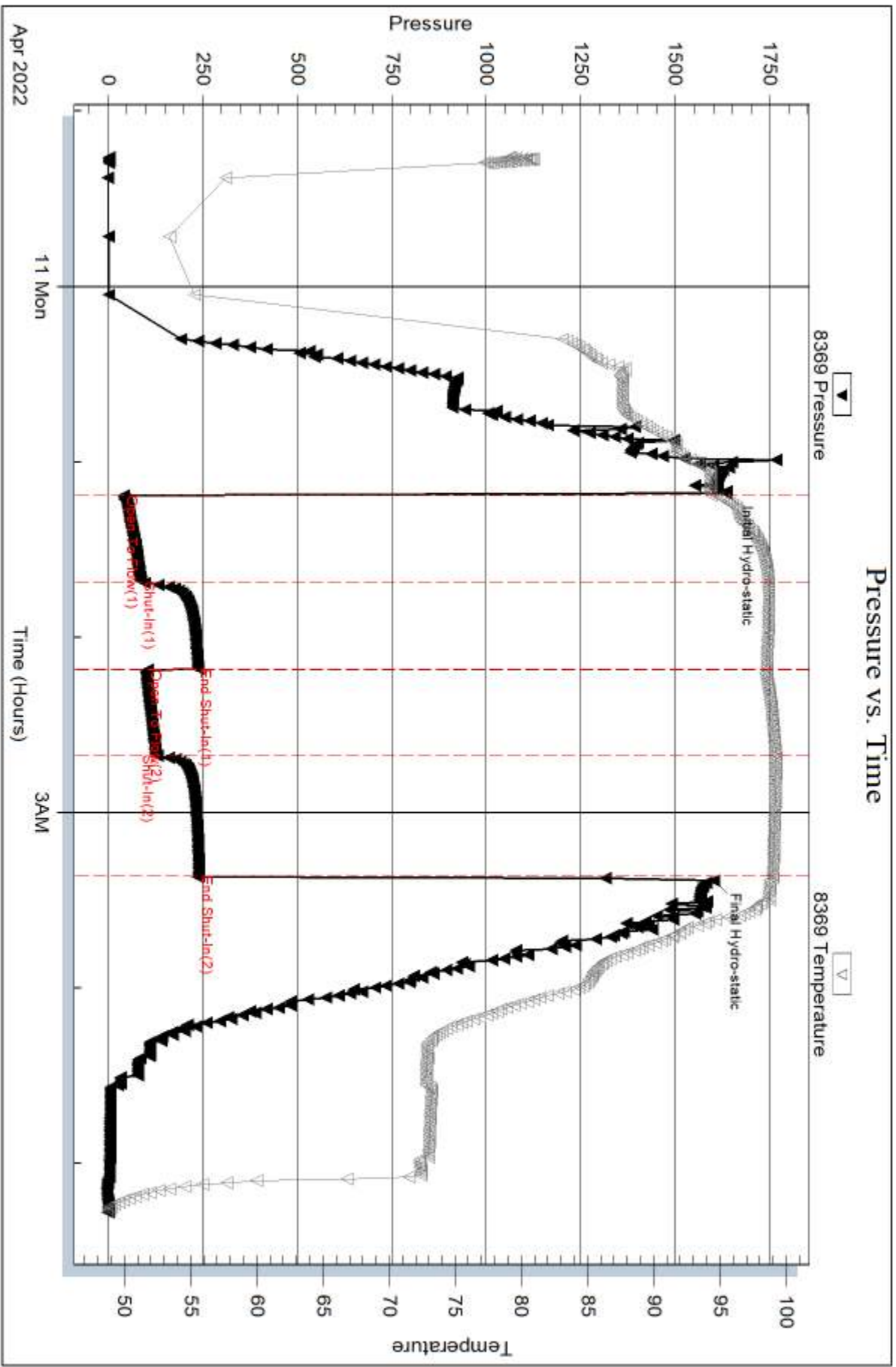
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



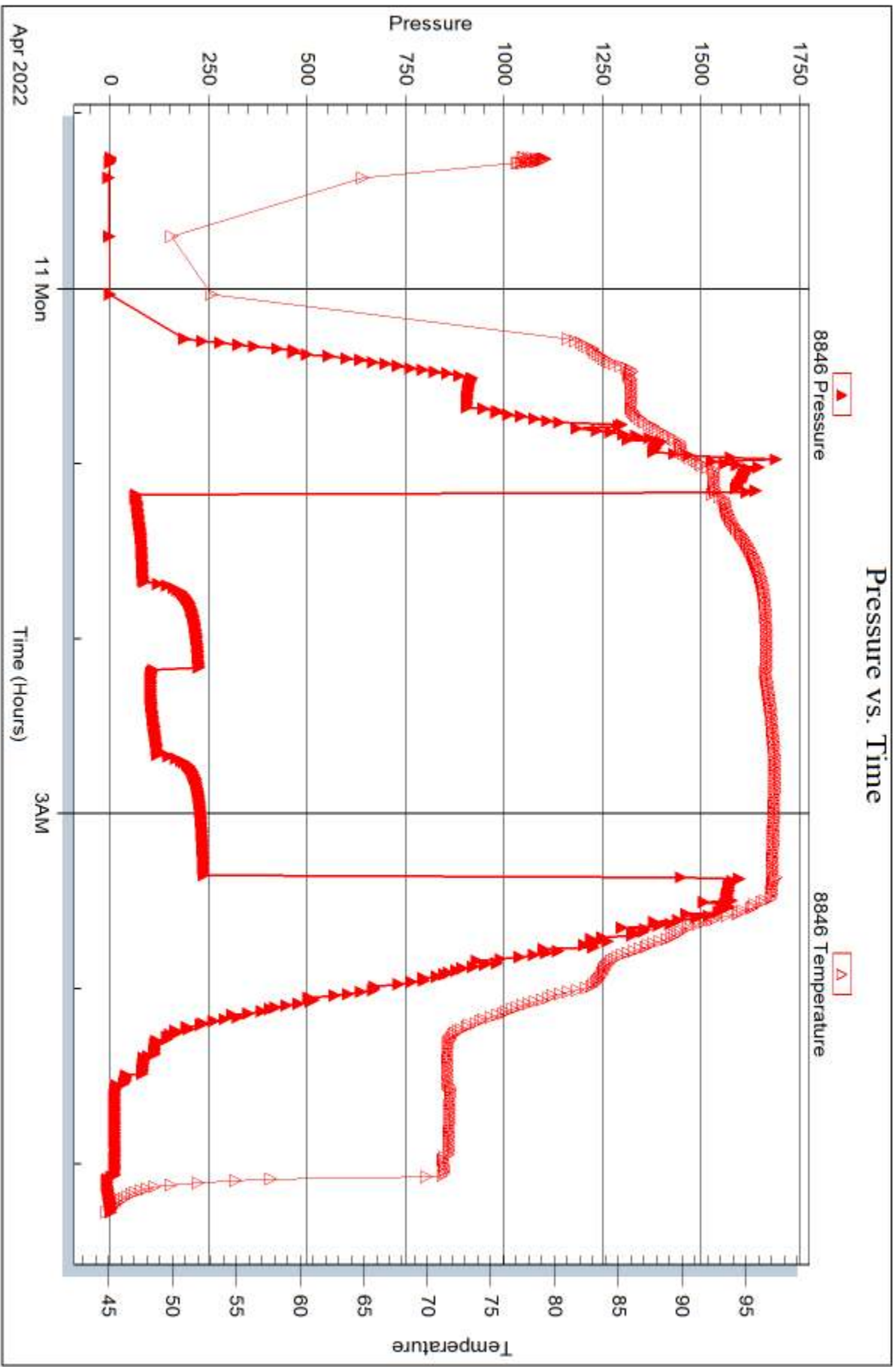
Serial #: 8846

Inside

Russell Oil Inc.

Steinle #4-32

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68928

Printed: 2022.04.19 @ 10:23:39



DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

Steinle #4-32

32-15S-14W Russell,KS

Start Date: 2022.04.11 @ 16:23:45

End Date: 2022.04.11 @ 21:46:05

Job Ticket #: 68929 DST #: 3

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

Printed: 2022.04.19 @ 10:21:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc.
 PO Box 8050
 Edmond, OK 73083
 ATTN: Kitt Noah

32-15S-14W Russell,KS

Steinle #4-32

Job Ticket: 68929

DST#: 3

Test Start: 2022.04.11 @ 16:23:45

GENERAL INFORMATION:

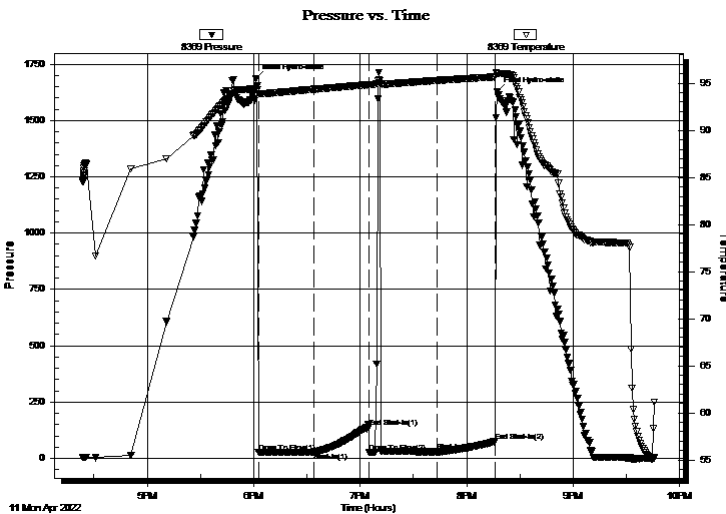
Formation: **LKC J - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:02:35
 Time Test Ended: 21:46:05
 Interval: **3309.00 ft (KB) To 3371.00 ft (KB) (TVD)**
 Total Depth: 3371.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burges
 Unit No: 80
 Reference Elevations: 1929.00 ft (KB)
 1919.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 29.75 psig @ 3316.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.11 End Date: 2022.04.11 Last Calib.: 2022.04.11
 Start Time: 16:23:46 End Time: 21:46:05 Time On Btm: 2022.04.11 @ 18:01:15
 Time Off Btm: 2022.04.11 @ 20:17:15

TEST COMMENT: IF:Surface Blow Died Off (30)
 IS:No Blow Back (30)
 FF:No Blow (30)
 FS: No Blow Back (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.72	94.33	Initial Hydro-static
2	28.15	93.91	Open To Flow (1)
33	28.27	94.37	Shut-In(1)
64	139.79	94.85	End Shut-In(1)
64	28.62	94.83	Open To Flow (2)
103	29.75	95.30	Shut-In(2)
135	75.07	95.68	End Shut-In(2)
136	1626.13	96.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68929

DST#: 3

ATTN: Kitt Noah

Test Start: 2022.04.11 @ 16:23:45

Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.88 inches	Volume: 48.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 48.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3309.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	93.00 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			3279.00	
Shut In Tool	5.00			3284.00	
Hydraulic tool	5.00			3289.00	
EM tool	3.00			3292.00	
Jars	5.00			3297.00	
Safety Joint	3.00			3300.00	
Packer	4.00			3304.00	31.00 Bottom Of Top Packer
Packer	5.00			3309.00	
Stubb	1.00			3310.00	
Perforations	5.00			3315.00	
Change Over Sub	1.00			3316.00	
Recorder	0.00	8369	Outside	3316.00	
Recorder	0.00	8846	Outside	3316.00	
Blank Spacing	31.00			3347.00	
Change Over Sub	1.00			3348.00	
Perforations	20.00			3368.00	
Bullnose	3.00			3371.00	62.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68929

DST#: 3

ATTN: Kitt Noah

Test Start: 2022.04.11 @ 16:23:45

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100%M	0.292

Total Length: 20.00 ft Total Volume: 0.292 bbl

Num Fluid Samples: 0

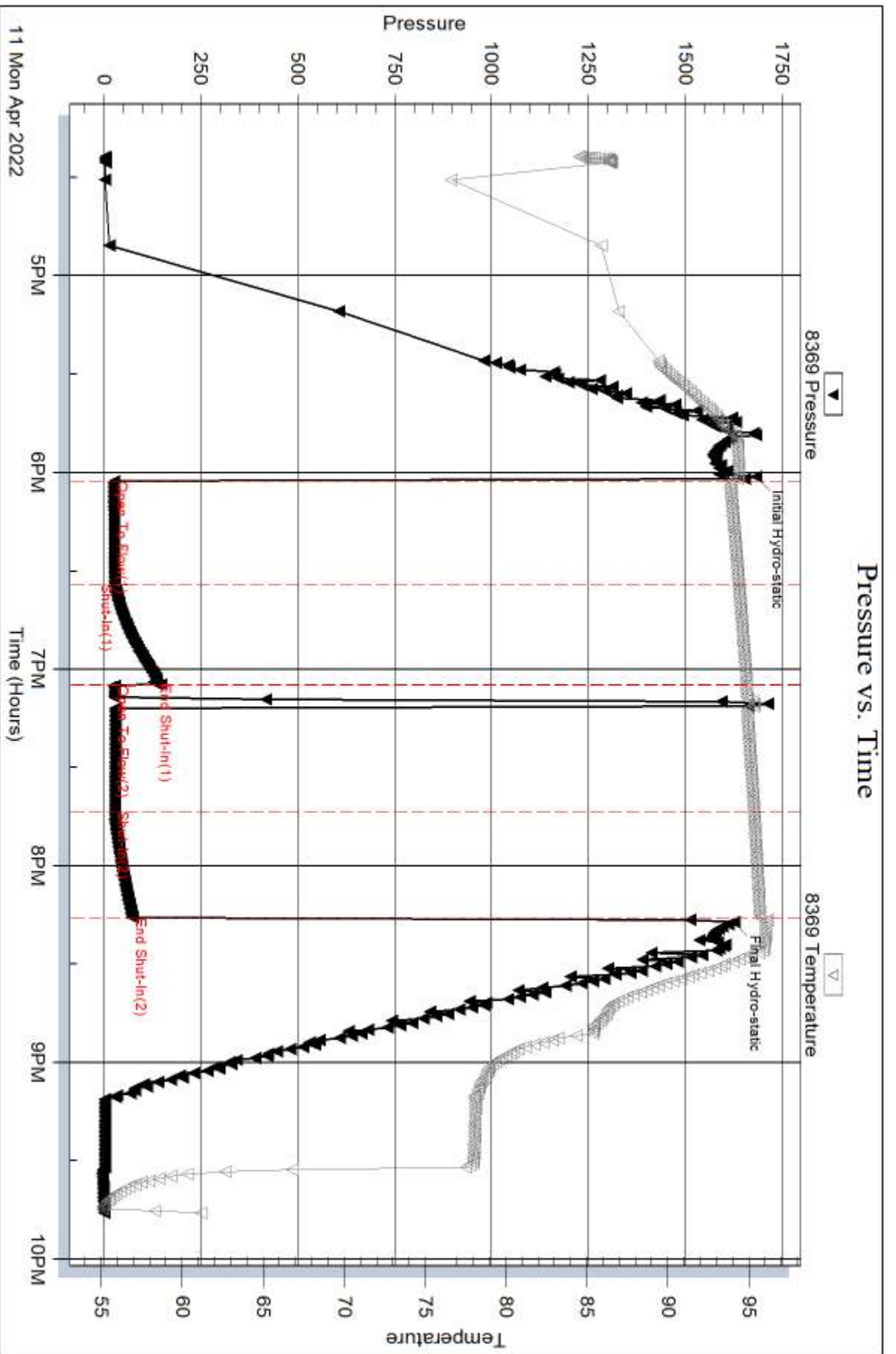
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

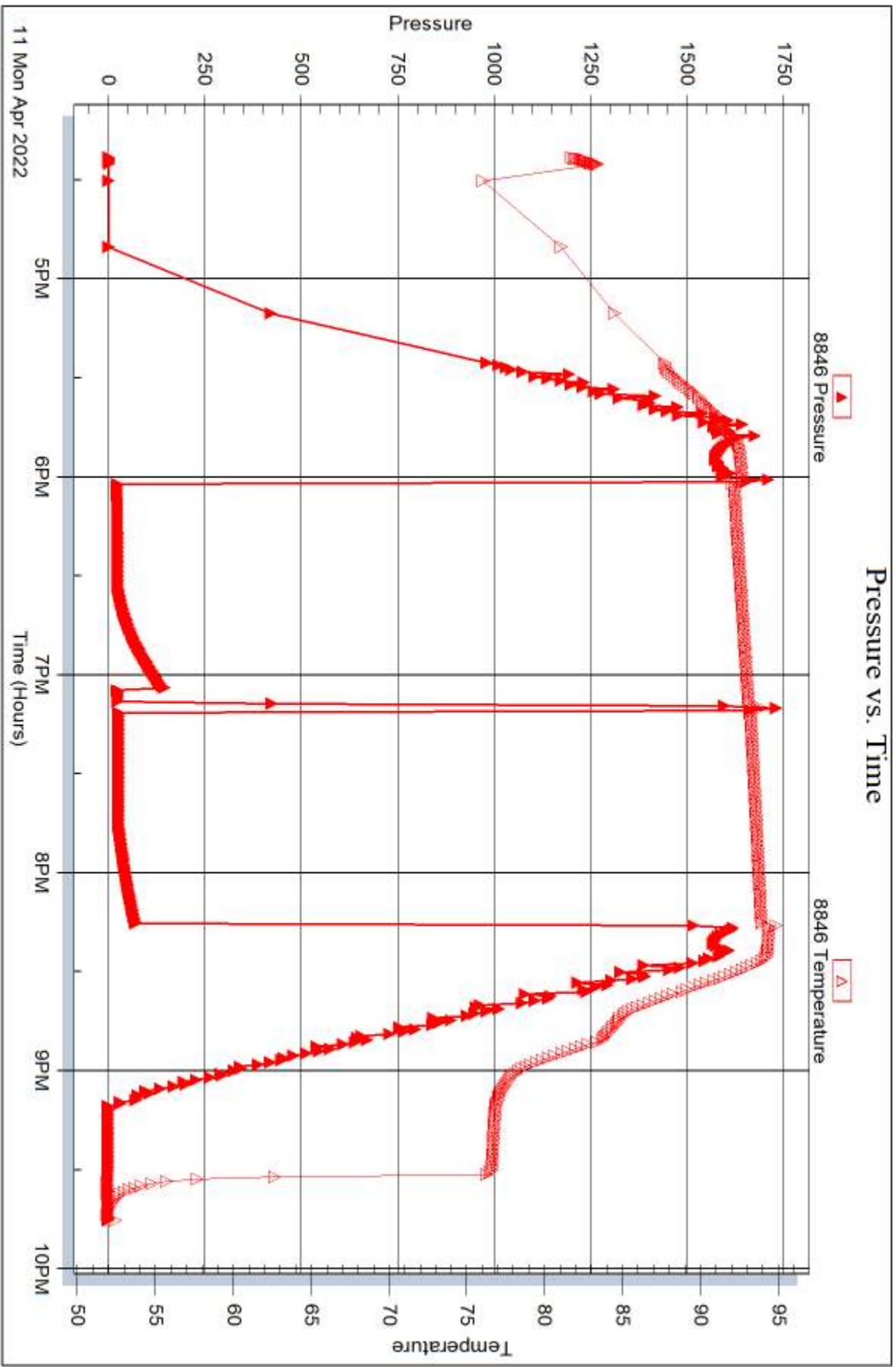


Serial #: 8846

Outside Russell Oil Inc.

Steinle #4-32

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

Steinle #4-32

32-15S-14W Russell,KS

Start Date: 2022.04.12 @ 05:54:07

End Date: 2022.04.12 @ 13:09:07

Job Ticket #: 68930 DST #: 4

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

Printed: 2022.04.19 @ 10:21:17

Russell Oil Inc.
32-15S-14W Russell,KS
Steinle #4-32
DST # 4
Arbuckle
2022.04.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68930

DST#: 4

ATTN: Kitt Noah

Test Start: 2022.04.12 @ 05:54:07

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.88 inches	Volume: 49.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 49.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3361.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	58.00 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			3331.00	
Shut In Tool	5.00			3336.00	
Hydraulic tool	5.00			3341.00	
EM tool	3.00			3344.00	
Jars	5.00			3349.00	
Safety Joint	3.00			3352.00	
Packer	4.00			3356.00	31.00 Bottom Of Top Packer
Packer	5.00			3361.00	
Stubb	1.00			3362.00	
Recorder	0.00	8369	Outside	3362.00	
Recorder	0.00	8846	Inside	3362.00	
Perforations	23.00			3385.00	
Bullnose	3.00			3388.00	27.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68930

DST#: 4

ATTN: Kitt Noah

Test Start: 2022.04.12 @ 05:54:07

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	OWCM 10%O 40%W 50%M	0.921
63.00	VSOMCW 5%O 62%W 30%M	0.921
63.00	MCO 95%O 5%M	0.921
20.00	OIL 100%O	0.292

Total Length: 209.00 ft

Total Volume: 3.055 bbl

Num Fluid Samples: 0

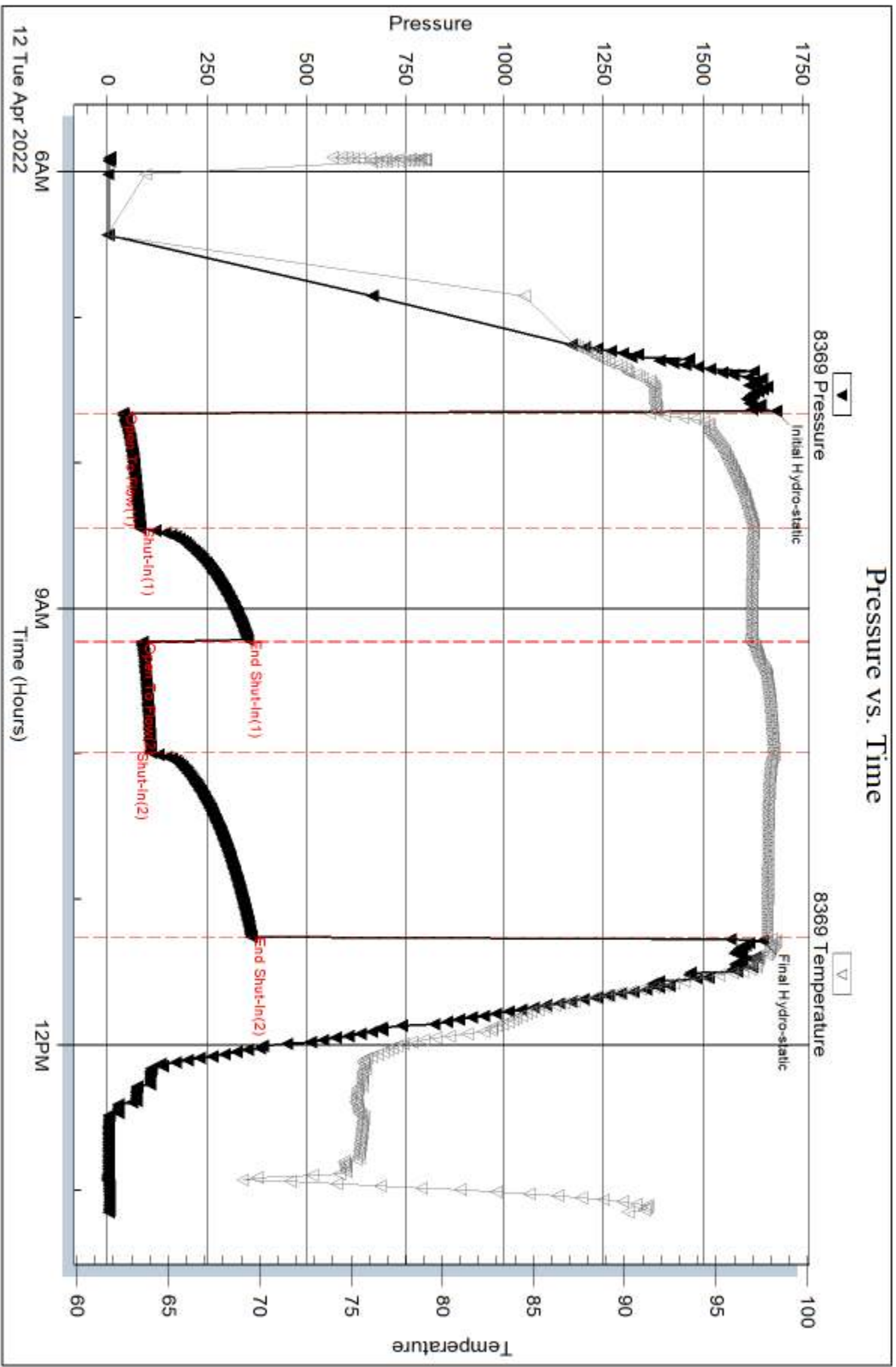
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



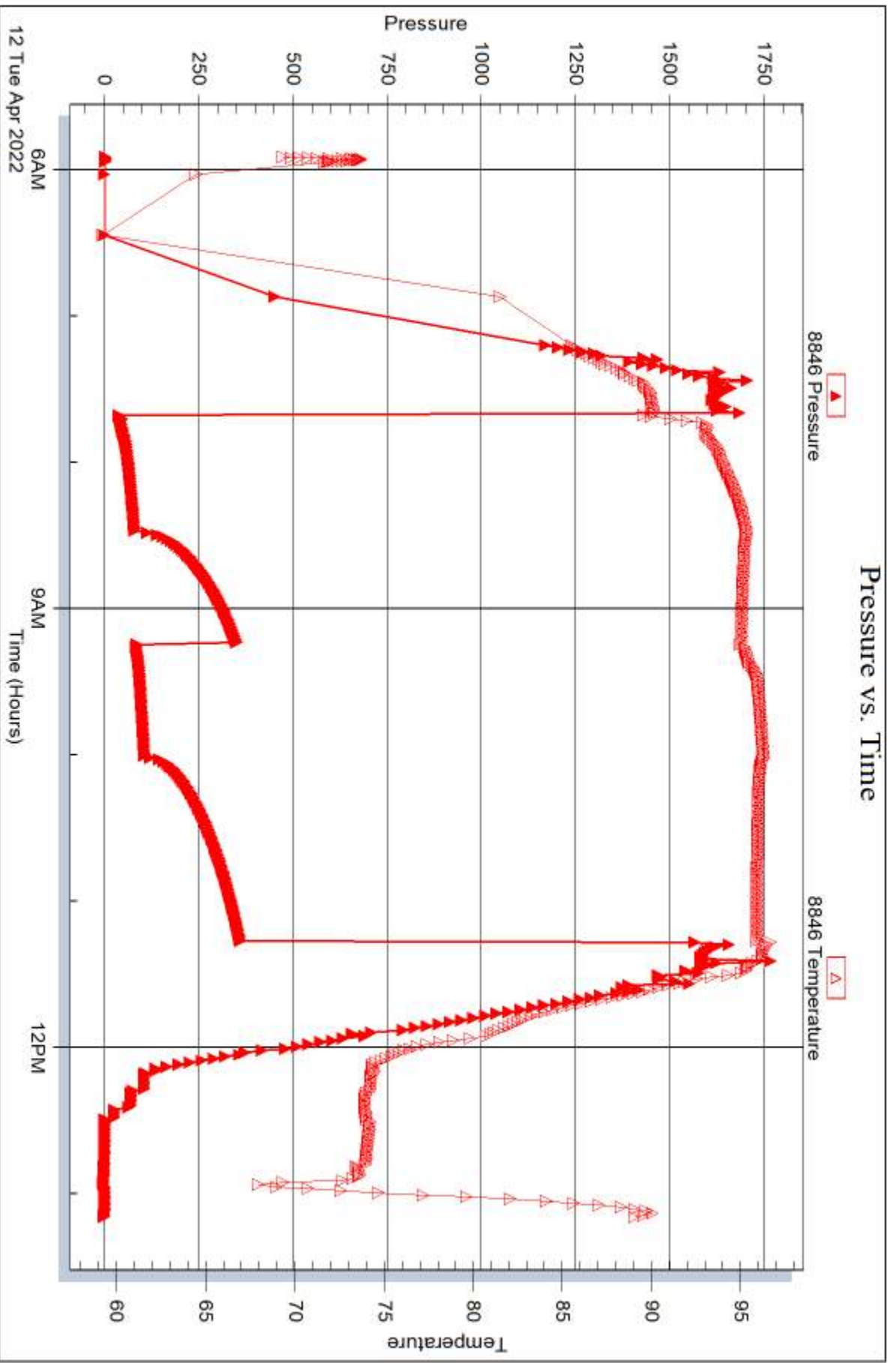
Serial #: 8846

Inside

Russell Oil Inc.

Steinle #4-32

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68930

Printed: 2022.04.19 @ 10:21:18



DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

Steinle #4-32

32-15S-14W Russell,KS

Start Date: 2022.04.12 @ 21:55:04

End Date: 2022.04.13 @ 06:57:04

Job Ticket #: 68931 DST #: 5

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

Printed: 2022.04.19 @ 10:18:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc.
 PO Box 8050
 Edmond, OK 73083
 ATTN: Kitt Noah

32-15S-14W Russell,KS

Steinle #4-32

Job Ticket: 68931

DST#: 5

Test Start: 2022.04.12 @ 21:55:04

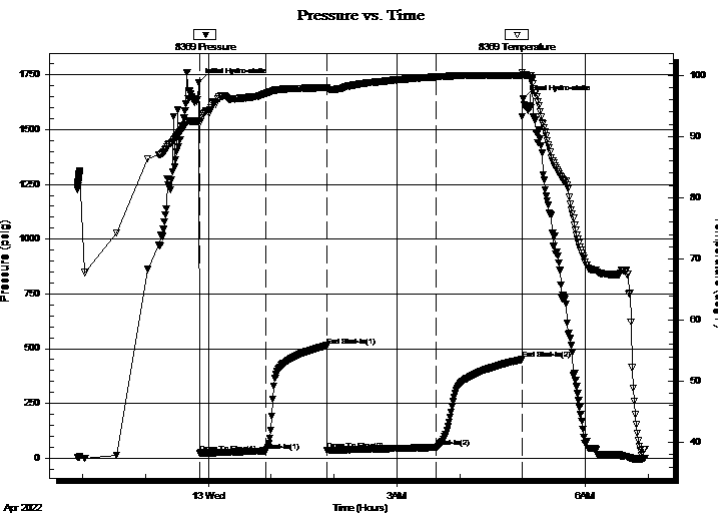
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:51:44
 Time Test Ended: 06:57:04
 Interval: **3393.00 ft (KB) To 3404.00 ft (KB) (TVD)**
 Total Depth: 3404.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burges
 Unit No: 80
 Reference Elevations: 1929.00 ft (KB)
 1919.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8369 Outside

Press@RunDepth: 48.64 psig @ 3394.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.12 End Date: 2022.04.13 Last Calib.: 2022.04.13
 Start Time: 21:55:05 End Time: 06:57:04 Time On Btm: 2022.04.12 @ 23:50:44
 Time Off Btm: 2022.04.13 @ 05:00:43

TEST COMMENT: IF:Weak Building Blow built 2" in bucket (60)
 IS:No Blow Back (60)
 FF:Weak Building Blow built to .25" in bucket (105)
 FS:No Blow Back (75)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.25	92.57	Initial Hydro-static
1	22.69	92.17	Open To Flow (1)
64	33.04	97.04	Shut-In(1)
122	512.85	97.99	End Shut-In(1)
123	36.52	97.79	Open To Flow (2)
227	48.64	99.76	Shut-In(2)
309	450.25	99.99	End Shut-In(2)
310	1639.28	100.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	V SOMCW 15%O 55%W 30%M	0.92
8.00	Oil 100%O	0.12

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68931

DST#: 5

ATTN: Kitt Noah

Test Start: 2022.04.12 @ 21:55:04

Tool Information

Drill Pipe:	Length: 3391.00 ft	Diameter: 3.88 inches	Volume: 49.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3393.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	42.00 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			3363.00	
Shut In Tool	5.00			3368.00	
Hydraulic tool	5.00			3373.00	
EM tool	3.00			3376.00	
Jars	5.00			3381.00	
Safety Joint	3.00			3384.00	
Packer	4.00			3388.00	31.00 Bottom Of Top Packer
Packer	5.00			3393.00	
Stubb	1.00			3394.00	
Recorder	0.00	8369	Outside	3394.00	
Recorder	0.00	8846	Inside	3394.00	
Perforations	7.00			3401.00	
Bullnose	3.00			3404.00	11.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

32-15S-14W Russell,KS

PO Box 8050
Edmond, OK 73083

Steinle #4-32

Job Ticket: 68931

DST#: 5

ATTN: Kitt Noah

Test Start: 2022.04.12 @ 21:55:04

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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
63.00	VSOMCW 15%O 55%W 30%M	0.921
8.00	Oil 100%O	0.117

Total Length: 71.00 ft Total Volume: 1.038 bbf

Num Fluid Samples: 0

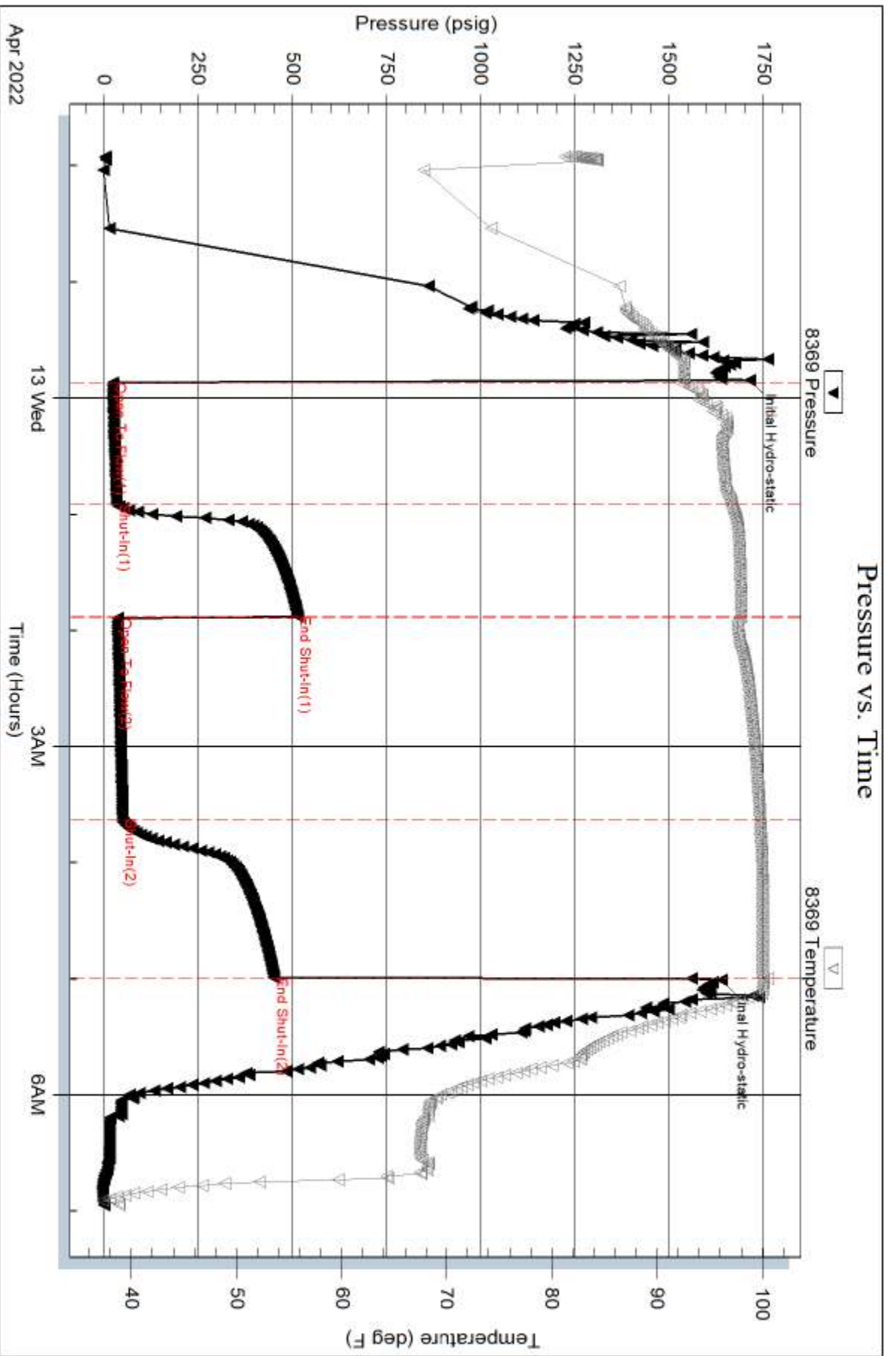
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



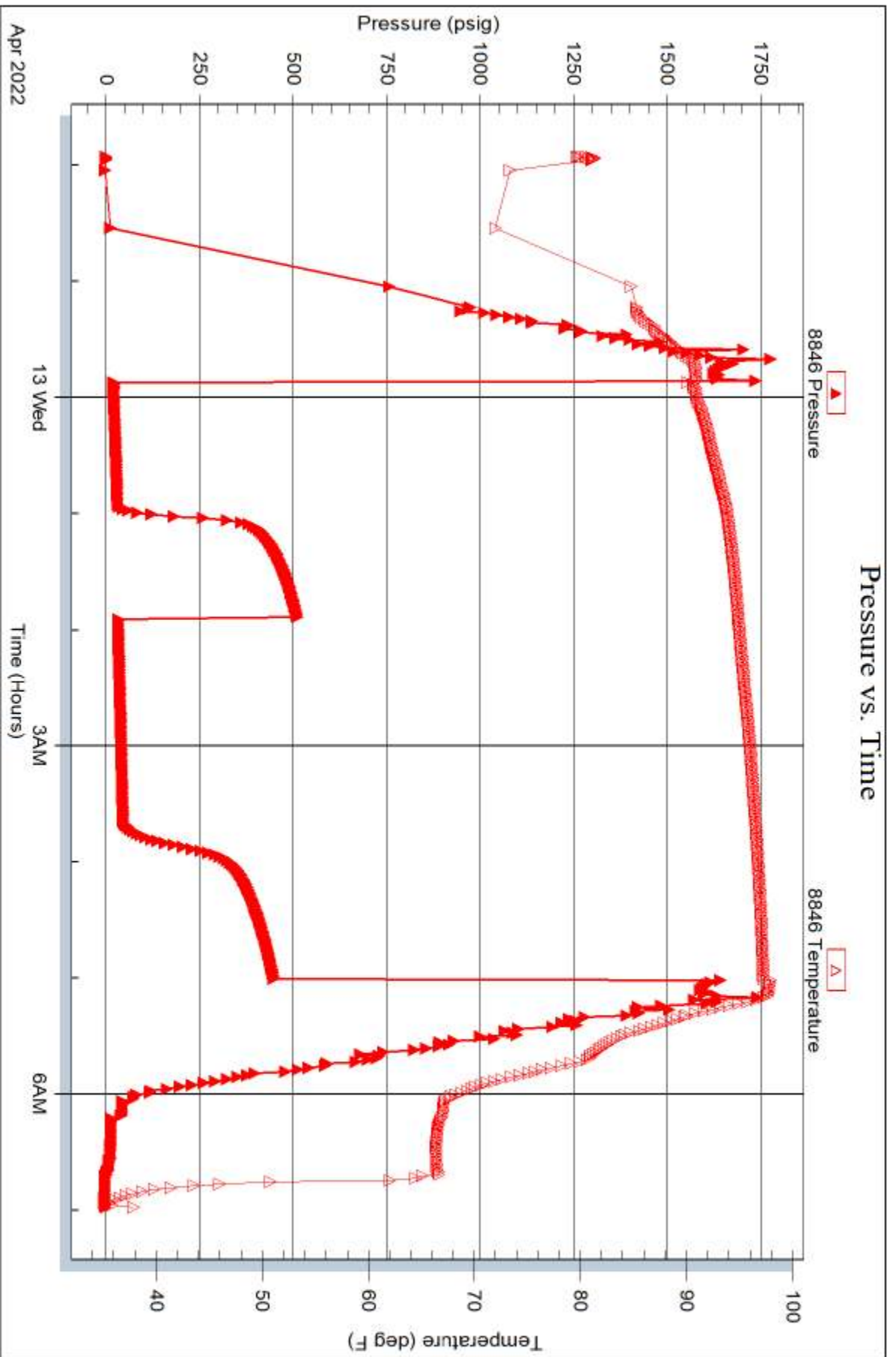
Serial #: 8846

Inside

Russell Oil Inc.

Steinle #4-32

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68931

Printed: 2022.04.19 @ 10:18:38



TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68927**

Well Name & No. Strinle 4-32 Test No. 1 Date 4/9/22
 Company RUSSELL OIL INC. Elevation 1929 KB 1919 GL
 Address PO Box 8050 Edmond, OK 73053
 Co. Rep / Geo. KITT Noun Rig Sourwind 1
 Location: Sec. 32 Twp 15S Rge. 14W Co. RUSSELL State KS

Interval Tested 3144-3182 Zone Tested LKC B-C
 Anchor Length 38' Drill Pipe Run 3142 Mud Wt. 8.9
 Top Packer Depth ~~3140~~ 3186 Drill Collars Run 0 Vis 61
 Bottom Packer Depth 3140 Wt. Pipe Run 0 WL 5.8
 Total Depth 3182 Chlorides 3200 ppm System LCM 1
 Blow Description IF: Strong building Blow built 189.55" (30)
IF: No Blow Back (30)
FF: Strong Building Blow built 193.21" (30)
FST: NO BLOW BACK (30)

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>2079' GIP</u>	<u>100</u>			
<u>25</u>	<u>GV50CM</u>	<u>5</u>	<u>5</u>		<u>90</u>
<u>63</u>	<u>GUS0CM</u>	<u>25</u>	<u>5</u>		<u>70</u>
<u>63</u>	<u>GW100</u>	<u>15</u>	<u>60</u>	<u>15</u>	<u>10</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 151 BHT 96.21 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1570 Test 1800 T-On Location 2235
 (B) First Initial Flow 44 Jars 300 T-Started 0032
 (C) First Final Flow 59 Safety Joint _____ T-Open 0230
 (D) Initial Shut-In 381 Circ Sub _____ T-Pulled 0430
 (E) Second Initial Flow 53 Hourly Standby _____ T-Out 0614
 (F) Second Final Flow 77 Mileage 150 64rt 96 Comments _____
 (G) Final Shut-In 373 Sampler _____
 (H) Final Hydrostatic 1490 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 EM Tool _____
 Initial Shut-In 30 Ruined Shale Packer _____
 Final Flow 30 Ruined Packer _____
 Final Shut-In 30 Extra Copies _____

Sub Total 2196 Total 2196 MP/DST Disc't _____

Approved By _____ Our Representative ES
 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.



OBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68928

Well Name & No. Steinle #4-32 Test No. 2 Date 4/10/22
 Company Russell Oil, Inc. Elevation 1929 KB 199 GL
 Address Box 8050 Edmond, OK, 73083
 Co. Rep / Geo. Kitt Noah Rig Southwind 1
 Location: Sec. 32 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3276-3213 Zone Tested LKC H-I
 Anchor Length 37' Drill Pipe Run 3264 Mud Wt. 9
 Top Packer Depth 3268 Drill Collars Run 0 Vls 52
 Bottom Packer Depth 3272 Wt. Pipe Run 0 WL 5.4
 Total Depth 3313 Chlorides 3700 ppm System LCM 1

Blow Description IF: Strong Building Blow built 52.44" (30)
ISI: Weak Blow Back .75" in Bucket (30)
FF: Strong Building Blow built 24.44" (30)
FSF: Weak Blow Back 1" in Bucket (30)

Rec <u>0</u>	Feet of <u>819' GIP</u>	<u>25</u> %gas	<u>35</u> %oil	<u>15</u> %water	<u>25</u> %mud
Rec <u>32</u>	Feet of <u>GMWCO</u>	<u>25</u> %gas	<u>35</u> %oil	<u>15</u> %water	<u>25</u> %mud
Rec <u>63</u>	Feet of <u>OWMCG</u>	<u>40</u> %gas	<u>30</u> %oil	<u>20</u> %water	<u>10</u> %mud
Rec <u>63</u>	Feet of <u>GVSOMCW</u>	<u>10</u> %gas	<u>5</u> %oil	<u>60</u> %water	<u>25</u> %mud
Rec <u>63</u>	Feet of <u>GVSOMCW</u>	<u>10</u> %gas	<u>5</u> %oil	<u>45</u> %water	<u>40</u> %mud
Rec Total <u>221</u>	BHT _____	Gravity _____	API RW <u>.82</u>	@ <u>44</u> °F	Chlorides <u>13,000</u> ppm

- (A) Initial Hydrostatic 1634
- (B) First Initial Flow 42
- (C) First Final Flow 87
- (D) Initial Shut-In 237
- (E) Second Initial Flow 104
- (F) Second Final Flow 126
- (G) Final Shut-In 240
- (H) Final Hydrostatic 1602

- Test 1800
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 150 96
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 2205
 T-Started 2205 2315
 T-Open 0117
 T-Pulled 0330
 T-Out 0517

Comments _____

 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2196

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

Sub Total 2196 MP/DST Disc't _____
 Our Representative RS

Obite 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.



Russell Oil Inc.
410
4100 S. Lawrence Parkway • Hays, Kansas 67601

Test Ticket

NO. 68929

Well Name & No. SL 12 4-32 Test No. 3 Date 4/11/22
 Company Russell Oil Inc Elevation 1929 KB 1919 GL
 Address PO Box 8050 Edward OK 73083
 Co. Rep / Geo. KIT NASH Rig South Wind 1
 Location: Sec. 32 Twp 15 S Rge. 14 W Co. Russell State KS

Interval Tested 3309-3371 Zone Tested LKC J-K
 Anchor Length 62' Drill Pipe Run 3294 Mud Wt. 9
 Top Packer Depth 3301 Drill Collars Run Ø Vis 52
 Bottom Packer Depth 3305 Wt. Pipe Run Ø WL 5.4
 Total Depth 3371 Chlorides 3700 ppm System LCM 1

Blow Description IF: SURFACE Blow bired OFF (30)
ISI: NO Blow Back
FE: NO Blow (30)
FSI: NO Blow Back (30)

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OSM</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 20 BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

A) Initial Hydrostatic 1684
 B) First Initial Flow 28
 C) First Final Flow 28
 Initial Shut-In 140
 Second Initial Flow 29
 Second Final Flow 30
 Final Shut-In 75
 Final Hydrostatic 1626

- Test 1800
- Jars 300
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 150 96
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

T-On Location 1552
 T-Started 6423
 T-Open 1820
 T-Pulled 2030
 T-Out 0146

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2196

Open 30
 Shut-In 30
 Flow 30
 Shut-In 30

Sub Total 2196 MP/DST Disc't _____

By _____ Our Representative [Signature]
 Russell Oil 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 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.

Test Ticket

NO. 68930



INC.
Parkway • Hays, Kansas 67601

Well Name & No. SIL VLE #4-32 Test No. 4 Date 4/12/22
 Company Russell Oil, Inc Elevation 1929 KB 1919 GL
 Address PO Box 8650 Fort. Edward, OK 73083
 Co. Rep / Gen. KIT Noah Rig South Wind 1
 Location: Sec. 32 Twp 15S Rge. 14W Co. RUSSELL State KS

Interval Tested 3361-3388 Zone Tested ARBuckle
 Anchor Length 27' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3353 Drill Collars Run Ø Vis 58
 Bottom Packer Depth 3357 Wt. Pipe Run Ø WL 5.8
 Total Depth 3388 Chlorides 5400 ppm System LCM 2

Blow Description IF: Fair Building Blow built 15.31" (45)
ISI: NO Blow Back (45)
FF: Fair Building Blow built 6.78" (45)
FSI: NO Blow Back (75)

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>	<u>100</u>			
<u>63</u>	<u>MCO</u>	<u>95</u>		<u>5</u>	
<u>63</u>	<u>VSOMCW</u>	<u>5</u>	<u>65</u>	<u>30</u>	
<u>63</u>	<u>OVCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>209'</u>	BHT <u>98.27</u>	Gravity <u>31@60</u>	API RW <u>.34 @ 81</u>	F Chlorides <u>17000</u>	ppm

- (A) Initial Hydrostatic 1684
- (B) First Initial Flow 40
- (C) First Final Flow 82
- (D) Initial Shut-In 353
- (E) Second Initial Flow 88
- (F) Second Final Flow 109
- (G) Final Shut-In 363
- (H) Final Hydrostatic 1650

- Test 1800
- Jars 300
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 150 96
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 2196

T-On Location 0525
 T-Started 0554
 T-Open 0745 0732
 T-Pulled 1120
 T-Out 1309
 Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2196

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 75

Approved By _____ Our Representative [Signature]

Rilobite 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.

Highway • Hays, Kansas 67601

Test Ticket

NO. **68931**

Well Name & No. le #4-32 Test No. 5 Date 4/10/22
 Company Russell Oil Inc Elevation 1929 KB 1919 GL
 Address PO Box 8050 Edward, OK 73083
 Co. Rep / Geo. Kitt Nash Rig Southwind 1
 Location: Sec. 32 Twp 15S Rge. 14W Co. Russell State KS

Interval Tested 3393-3404 Zone Tested Arbuckle
 Anchor Length 11' Drill Pipe Run 3391 Mud Wt. 9.2
 Top Packer Depth 3385 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3389 Wt. Pipe Run 0 WL 5.8
 Total Depth 3404 Chlorides 5400 ppm System LCM 2

Blow Description IF: Weak Building Blow built 2" in bucket (60)
ISI: NO Blow Back (60)
FF: Weak Blow built .25" in bucket (105)
FSI: NO Blow Back (75)

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>DIL</u>	<u>100</u>			
<u>03</u>	<u>VSO.MCW</u>	<u>15</u>	<u>55</u>	<u>30</u>	

Rec Total 71 BHT 100 Gravity 32 @ 60 API RW 104 @ 33 °F Chlorides 23000 ppm

- (A) Initial Hydrostatic 1714
- (B) First Initial Flow 23
- (C) First Final Flow 33
- (D) Initial Shut-In 513
- (E) Second Initial Flow 37
- (F) Second Final Flow 49
- (G) Final Shut-In 450
- (H) Final Hydrostatic 1639

- Test 1800
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 150 96
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2196

- T-On Location 2110
- T-Started 2155
- T-Open 2358
- T-Pulled 0500
- T-Out 0657
- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2196
- MP/DST Disc't

Initial Open 60
 Initial Shut-In 60
 Final Flow 105
 Final Shut-In 75

Approved By _____ Our Representative 225

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 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.

FRANKS Oilfield Service

TICKET NUMBER 0595

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7266
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

LOCATION Victoria
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-19-22		57ENLY 4-32				
CUSTOMER	Russell O:1		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			101	Tom W		
CITY	STATE	ZIP CODE	102	Williams		

JOB TYPE 57ENLY HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2"
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8" OTHER 12 7/8" - 3214-22
 SLURRY WEIGHT 14-5" SLURRY VOL 1,41 WATER gal/sk _____ CEMENT LEFT IN CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on well. Load tubing 18.5 Bbl & test tools to 1500 psi. Release & scale - crew to fluid 3125' - spot sand with 1 Bbl. set size 45 min. Pull pipe to 3155' bit. Loaded back side 48.5 Bbl say Pump 20 Bbl down tubing & no pass. bit 50 ft 30 sec & 50 on plain. Pressuring to 1000 psi. Wash up. Put 1500 psi on tubing. Release pressure & crew finished cement out wash clean. Ran 3 joints - washed then 30 Bbl. Backup more OK

Thanks Tom Dave

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	PUMP CHARGE	UNIT PRICE	TOTAL
PL002	1	MILEAGE		\$1150.00	\$1150.00
PL001	32			\$6.50	\$208.00
MP002	4.77 tons	Tan Mixture delivery		\$600.00	\$100.00
CR002	5054	Class A 396 CL		\$23.55	\$1177.50
CP001	5054	Class A		\$20.00	\$1000.00
				Subtotal	\$4135.50
				10% disc.	\$413.55
				SW - disc 1	\$5721.95
				SALES TAX	146.58
				ESTIMATED TOTAL	3888.53

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
RUSSELL OIL, INC.
PO BOX 8050
EDMOND, OK 73083

Invoice Date: 4/14/2022
Invoice #: 0360111
Lease Name: Steinle
Well #: 4-32 (New)
County: Russell, Ks
Job Number: WP2674
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring			
H-Long	0.000	0.000	0.00
H-Plug	125.000	32.200	4,025.00
Cello Flake	55.000	12.880	708.40
5 1/2" Floatshoe-Flapper AFU	31.000	1.610	49.91
5 1/2" LD Plug & Baffle	1.000	345.000	345.00
5 1/2" Turbolizers	1.000	322.000	322.00
Mud flush	10.000	115.000	1,150.00
Liquid KCL Substitute 2	500.000	0.920	460.00
Light Eq Mileage	4.000	18.400	73.60
Heavy Eq Mileage	75.000	1.840	138.00
Ton Mileage	150.000	3.680	552.00
Cement Blending & Mixing	619.000	1.380	854.22
Depth Charge 300'x4000'	180.000	1.288	231.84
Cement Plug Container	1.000	2,070.000	2,070.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	230.000	230.00
	1.000	275.000	275.00

Total 11,714.97

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
260 N. Water St., Suite #200
Wichita, KS 67202



Customer:	RUSSELL OIL	Lease & Well #:	STEINIE 4-32	Date:	4/14/2022
Service Project:	PRATT, KS.	Geology & Strat:	RUSSELL, KS.	Log #s SITE:	32-165-14W
Job Type:	LONGSTRING	Flow Well?	YES	Job #:	WP 2674
Equipment #:	826	PROD	<input type="checkbox"/> NI	TRAIL #:	
	LESLEY	<input type="checkbox"/> SWD	<input type="checkbox"/> SWD		
178-422	OSBORN	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
626-286	TRAVNO R.H.	<input type="checkbox"/> Hand hat <input type="checkbox"/> H2S Monitor <input type="checkbox"/> Safety Footwear <input type="checkbox"/> PRC/Protective Clothing <input type="checkbox"/> Hearing Protection			
		<input type="checkbox"/> Gloves <input type="checkbox"/> Eye Protection <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Additional Chemical/Acid PPE <input type="checkbox"/> Fire Extinguisher			
		<input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Required Permits <input type="checkbox"/> Slip/Trip/Fall Hazards <input type="checkbox"/> Overhead Hazards <input type="checkbox"/> Additional concerns or issues noted below			
		<input type="checkbox"/> Warning Signs & Tagging <input type="checkbox"/> Fall Protection <input type="checkbox"/> Specific Job Sequence/Expectations <input type="checkbox"/> Muster Point/Medical locations			
		Comments 5 1/2" LONGSTRING			

Product System Code	Description	Unit of Measure	Quantity	Unit Amount
CP030	H-Long	sack	125.00	\$4,025.00
CP055	H-Plug	sack	55.00	\$708.40
CP120	Cello-Bale	lb	31.00	\$49.81
FE145	5 1/2" Float Sino - AFU Flipper Type	ea	1.00	\$345.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$322.00
FE135	5 1/2" Tubularizer	ea	10.00	\$1,150.00
CP170	Mud Plug	gal	600.00	\$460.00
AP056	Liquid KCL Substitute 2	gal	4.00	\$73.60
MO16	Lynn Equipment Mixture	mt	75.00	\$138.00
MO10	Heavy Equipment Mixture	mt	150.00	\$652.00
MO20	Ton Mixture	tn	619.00	\$984.22
CP060	Cement Blending & Molding Service	sack	180.00	\$231.84
DO14	Depth Change: 3001'-4000'	job	1.00	\$2,070.00
CO30	Cement Plug Container	job	1.00	\$200.00
CO15	Cement Data Acquisition	job	1.00	\$200.00
RO061	Service Supervisor	day	1.00	\$275.00
Customer Estimate for this assignment: 5000 yards of gravel from Hurricane Services, Inc.				Net: \$11,714.97
Based on this job, how likely is it you would recommend HSI to a colleague?				Tax Rate: 0.00
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <i>Extremely Likely</i>				Sale Tax: \$ -
Total Taxable \$ -				Total: \$ 11,714.97
HSI Representative: <i>Reese Lealey</i>				

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts and total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1.5% per month or the maximum allowable by applicable state or federal law. In the event it is necessary to employ an agency and/or attorney to effect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in writing at any invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **EXCLUSION NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational state of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining barite services.

X _____

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer:	RUSSELL OIL	Well:	STEINIE 4-32	Ticket:	WP 2874
City, State:		County:	RUSSELL, KS.	Date:	4/14/2022
Field Rep:	TODD BROWN	S-T-R:	32-15S-14W	Service:	LONGSTRING

Downhole Information

Hole Size:	7 7/8 in
Hole Depth:	ft
Casing Size:	5 1/2 in
Casing Depth:	3445 ft
Tubing / Liner:	in
plug Depth:	3424 ft
Tool / Packer:	
Total Depth:	ft
Displacement:	81.5 bbls

Calculated Slurry - Lead

Blend:	H-PLUG
Weight:	13.8 ppg
Water / Sk:	6.9 gal / sk
Yield:	1.43 ft ³ / sk
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	6.4 bbls
Total Sacks:	25 sk

Calculated Slurry - Tail

Blend:	H-LONG
Weight:	15 ppg
Water / Sk:	6.0 gal / sk
Yield:	1.42 ft ³ / sk
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	31.6 bbls
Total Sacks:	125 sk

TIME	RATE	PSI	STAGE DBLs	TOTAL DBLs	REMARKS
10:48PM			-	-	ON LOCATOR- SPOT EQUIPMENT
11:08PM			-	-	RUN 84 JTS 5 1/2" X 16.5# CASING
			-	-	TURBOIZERS- 2.5, 2.11, 1.4, 16.64, 7.78, 6.2
12:24AM			-	-	CASING ON BOTTOM
12:30AM			-	-	HOOK UP TO CASING- BREAK CIRCULATION WITH RIG PUMP AND MUD
1:30 AM 6.0	400.0	6.0	6.0	6.0	H2O AHEAD
1:31 AM 6.0	400.0	12.0	17.0	17.0	MUD FLUSH
1:33 AM 6.0	400.0	6.0	22.0	22.0	H2O SPACER - CLOSE IN VALVES ON MANIFOLD
1:40 AM 3.0	-	6.4	28.4	28.4	PLUG RATHOLE- 30 SKS H-PLUG CEMENT
1:43 AM			28.4	28.4	HOOK BACK UP TO MANIFOLD- OPEN VALVE ON MANIFOLD
1:44 AM 6.0	400.0	10.0	38.4	38.4	MIX 28 SKS SCAVENGER @ 13.8 PPG
1:46 AM 6.0	200.0	31.8			MIX 125 SKS H - LONG CEMENT @ 16 PPG
1:52 AM					SHUT DOWN- CLEAR PUMP AND LINES- DROP LATCHDOWN PLUG
2:02 AM 6.0	-	-			START DISPLACEMENT
2:10 AM 6.0	250.0	65.0			LEFT PRESSURE
2:14AM 4.0	650.0	70.0			SLOW RATE
2:17AM 3.0	1,500.0	81.8			PLUG DOWN- HELD
					CIRCULATION THRU JOB

CREW		UNIT		SUMMARY		
Operator:	LESLEY	925		Average Rate	Average Pressure	Total Fluid
Partner:	OSBORN	178-522		5.1 bpm	410 psi	287 bbls
Bulk #1:	TRAVINO R.H.	528-256				
Bulk #2:						

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. 2992

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-6-22	32	15	14	Russell	KS		12:30 PM

Location Millbeers ~~State~~ Road + 281 - 2314 W

Well No. 4-32

Owner S Hays

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.

Charge To Russell oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Tool	Depth	Shoe Joint	Displace
Cement Left in Csg.	40'		56 3/4 BLS

Meas Line EQUIPMENT

Pumptrk	No.	Cementer	Helper	Driver	Driver
17		Jordan			
21		Guyton		David	
p.u.		Rick			

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

DV or Port Collar

Common	280
Poz. Mix	80 70
Gel.	5
Calcium	12
Hulls	
Salt	
Flowseal	
Koi-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	369
Mileage	

FLOAT EQUIPMENT

Guide Shoe Rubber plug

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge 15 long surface

Tax

Discount

Total Charge

X Signature *John Brown*

Thanks

KITT NOAH

PETROLEUM GEOLOGIST

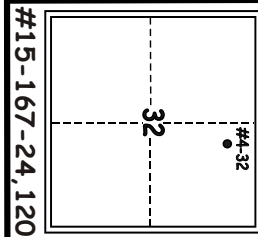
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELEVATION: KB: **1929**
GL: **1919**
MEASURED FROM: **KB**



OPERATOR: **Russell Oil, Inc.**
LEASE: **Steinle** WELL NO: **#4-32**
LOCATION: **630FN & 2016FE**
SEC: **32** TWP: **15S** RNG: **14W**
COUNTY: **Russell** STATE: **Kansas**

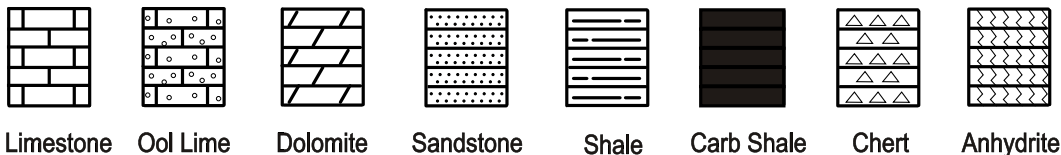
CASING RECORD:
SURFACE: **8 5/8" set at 932' w/350 sx.**
PRODUCTION: **5 1/2" set at 3445' w/150 sx.**
DV TOOL: _____

FORMATION	TOP	LOG	DATUM
Anhydrite	926 (+1003)		
B/Anhydrite	957 (+972)		
Topeka	2840 (-911)		
Heebner	3070 (-1141)		
Toronto	3086 (-1157)		
Lansing	3132 (-1203)		
Mun Creek	3275 (-1346)		
Stark	3341 (-1412)		
B/KC	3376 (-1447)		
Arbuckle	3382 (-1453)		
RTD	3450 (-1521)		
LTD	3450 (-1521)		

CONTRACTOR: **Southwind Drilling Rig #1**
COMMI: **4-6-2022** COMPL: **4-13-2022**
RTD: **3450** LTD: **3450**
SAMPLES SAVED FROM: **2750 to TD**
DRILLING TIME SAVED FROM: **2750 to TD**
SAMPLES EXAMINED FROM: **2750 to TD**
GEOLOGICAL SUPERVISION FROM: **2800 to TD**
MUD UP: **2580** MUD TYPE: **chemical**
Mudco - Gary Schmidberger
DRILL STEM TESTS TAKEN: **5**
Trilobite - Eric Burgess

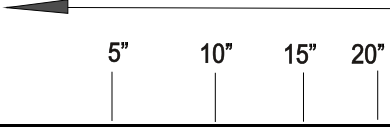
SURVEYS: **Midwest Wireline, LLC**
Spectral Density Dual Neutron
Dual Induction
Microresistivity

LEGEND



DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of penetration increases	SAMPLE DESCRIPTIONS	REMARKS
			EL 926 (+1003)

Rate of penetration increases



SAMPLE DESCRIPTIONS

REMARKS

950

Anhydrite

EL 926 (+1003)

B/Anhydrite

EL 957 (+972)

Sh, gry & green; gummy

conn

Sh, gry & green

LS,crm-tan fn xln fossil pr
interpart poro iso vugular poro;
NSNO

LS,crm fn xln fossil pr-fr
interpart poro NSNO

Sh, dk gry, green, maroon

conn

2800

LS,gry fn xln fossil pr visible
poro NSNO

LS,gry AA

Sh, gry & green

conn

Sh, gry & green

Topeka

LS,crm fn xln slj fossil pr
interpart poro dense NSNO

EL 2840 (-911)

Topeka

EL 2840 (-911)

2900

3000

conn

Sh, gry & green

LS,crm fn xln sli fossil pr interpart poro dense NSNO

LS,crm-tan fn xln sli fossil pr interpart poro; dense NSNO

conn

LS,crm-tan fn xln fossil pr-fr interpart poro NSNO; few pieces gry & tan chert

LS,crm fn xln sli fossil pr visible poro NSNO; sc pieces sharp tan chert

LS,crm-tan fn xln sli fossil pr visible poro NSNO; fr amt sharp tan chert

conn

LS,crm-tan fn xln fossil pr interpart poro; chalky NSNO

LS,crm fn xln fossil pr interpart poro NSNO

LS,crm-gry fn xln fossil pr poro NSNO

conn

Sh, blk carbonaceous

Sh, gry, green, maroon

LS,crm-tan fn xln sli fossil pr visible poro; blocky NSNO

Sh, gry & green

LS,crm fn xln fossil pr-fr interpart poro; dense NSNO

conn

LS,AA

LS,wht fn xln fossil pr interpart poro chalky NSNO

Sh, gry, green, maroon

LS,tan fn xln fossil pr visible poro NSNO

conn

Sh, blk carbonaceous

Sh, gry, green, maroon

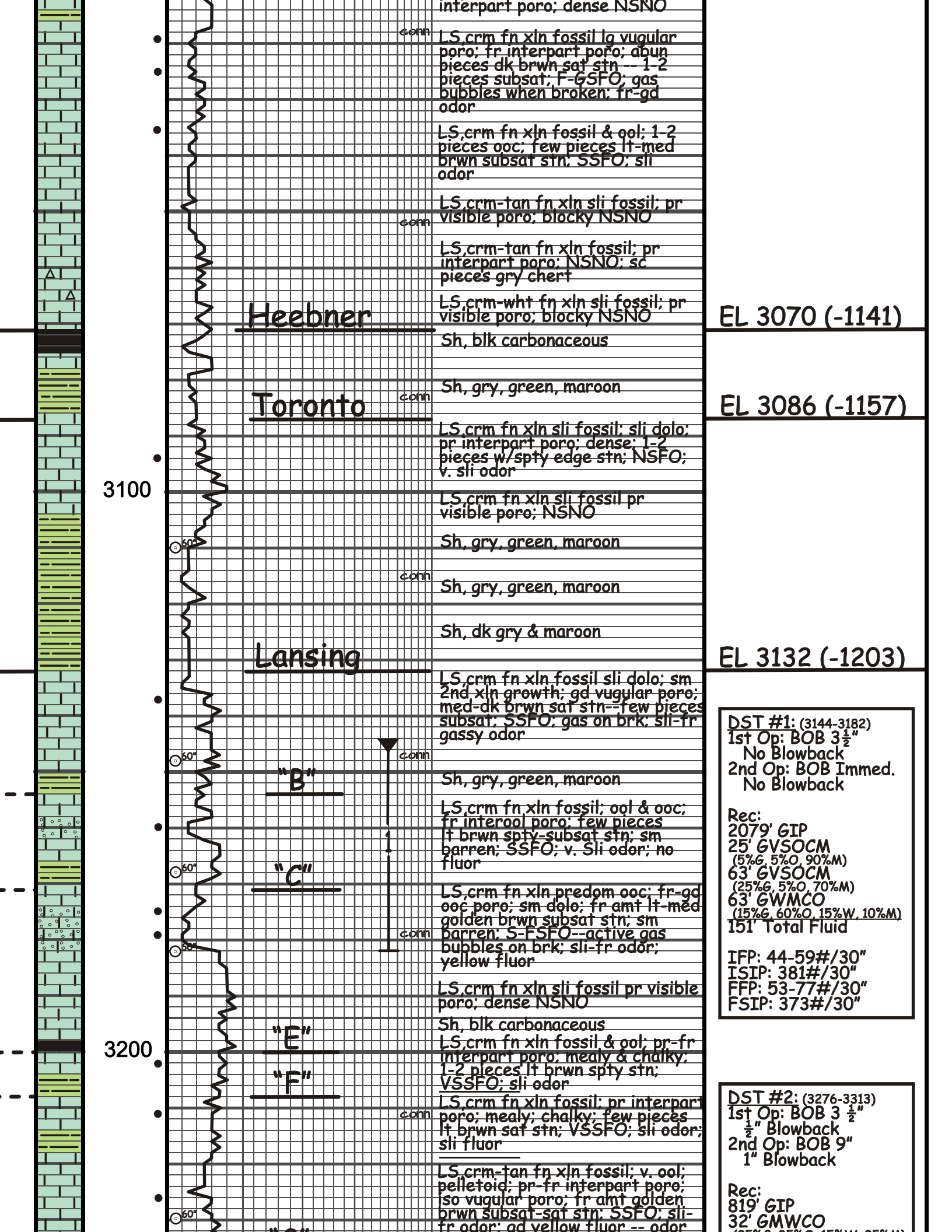
LS,crm-gry fn xln fossil & ool pr interpart poro iso fr vugular poro NSNO

LS,crm fn xln fossil & ool pr-fr interpart poro; dense NSNO

conn

LS,crm fn xln fossil lg vugular poro; fr interpart poro; abun pieces dk brwn sat stn -- 1-2 pieces subsat; F-GSFO; gas bubbles when broken; fr-gd odor

LS,crm fn xln fossil & ool; 1-2 pieces ooc; few pieces lt-med brwn subsat stn; SSFO; sli odor



interpart poro; dense NSNO
 LS, crm fn xln fossil lg vugular poro; fr interpart poro; abun pieces dk brwn sat stn-- 1-2 pieces subsat; F-GSFO; gas bubbles when broken; fr-gd odor
 LS, crm fn xln fossil & ool; 1-2 pieces ooc; few pieces lt-med brwn subsat stn; SSFO; sli odor

Heebner

EL 3070 (-1141)

LS, crm-tan fn xln sli fossil; pr visible poro; blocky NSNO
 LS, crm-tan fn xln fossil; pr interpart poro; NSNO; sc pieces gry chert
 LS, crm-wht fn xln sli fossil; pr visible poro; blocky NSNO
 Sh, blk carbonaceous

Toronto

EL 3086 (-1157)

Sh, gry, green, maroon
 LS, crm fn xln sli fossil; sli dolo; pr interpart poro; dense; 1-2 pieces w/spty edge stn; NSFO; v. sli odor
 LS, crm fn xln sli fossil pr visible poro; NSNO
 Sh, gry, green, maroon

Lansing

EL 3132 (-1203)

Sh, gry, green, maroon
 Sh, gry, green, maroon
 Sh, dk gry & maroon
 LS, crm fn xln fossil sli dolo; sm 2nd xln growth; gd vugular poro; med-dk brwn sat stn-- few pieces subsat; SSFO; gas on brk; sli-fr gassy odor

DST #1: (3144-3182)
 1st Op: BOB 3 1/2"
 No Blowback
 2nd Op: BOB Immed.
 No Blowback

"B"

Sh, gry, green, maroon
 LS, crm fn xln fossil; ool & ooc; fr interool poro; few pieces lt brwn spty-subsat stn; sm barren; SSFO; v. Sli odor; no fluor

Rec:
 2079' GIP
 25' GVSOCM (5%G, 5%O, 90%M)
 63' GVSOCM (25%G, 5%O, 70%M)
 63' GVMCO (15%G, 60%O, 15%W, 10%M)
 151' Total Fluid

"C"

LS, crm fn xln predom ooc; fr-gd ooc poro; sm dolo; fr amt lt-med golden brwn subsat stn; sm barren; S-FSFO--active gas bubbles on brk; sli-fr odor; yellow fluor

IFP: 44-59#/30"
 ISIP: 381#/30"
 FFP: 53-77#/30"
 FSIP: 373#/30"

"E"

LS, crm fn xln sli fossil pr visible poro; dense NSNO
 Sh, blk carbonaceous

"F"

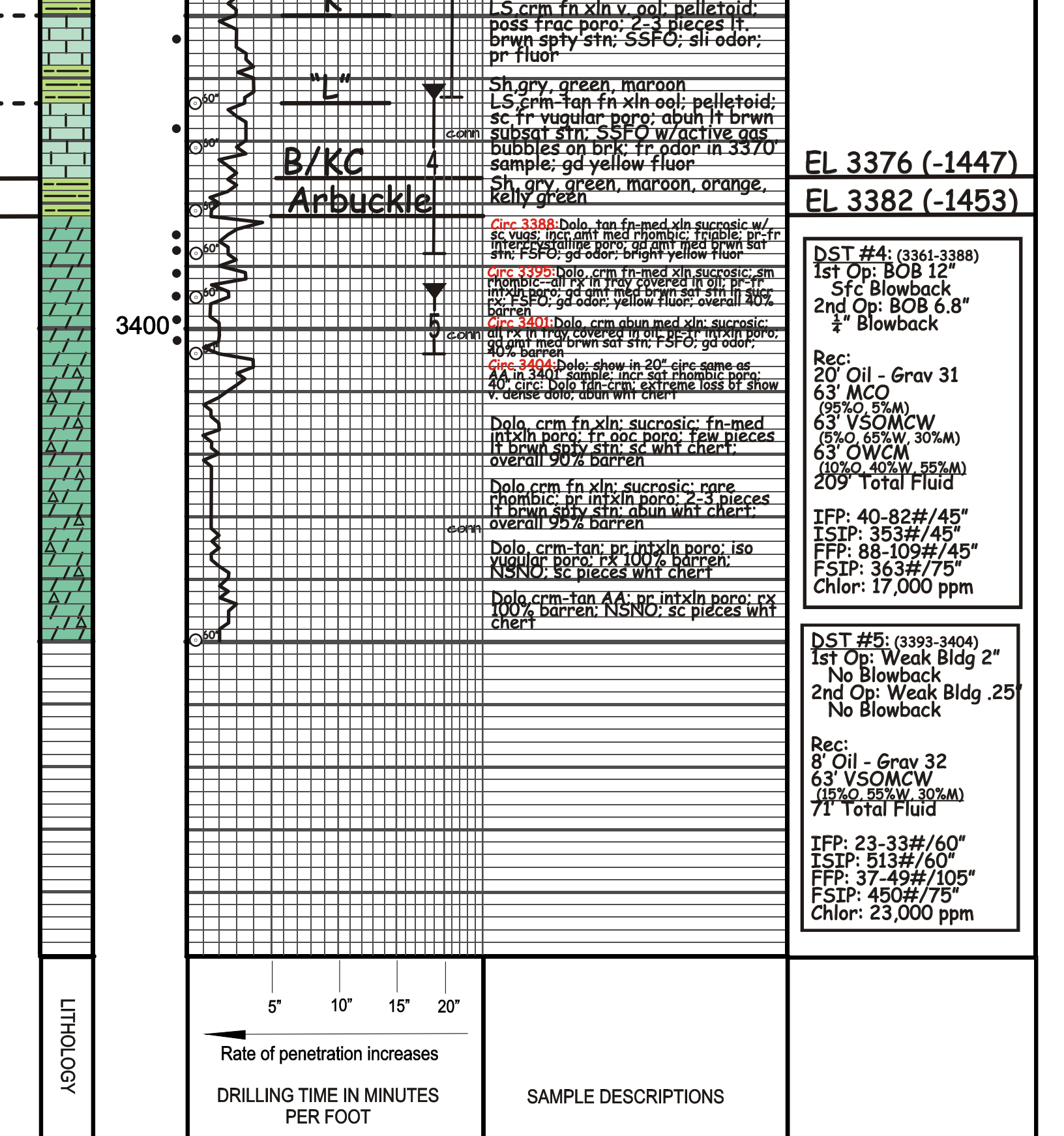
LS, crm fn xln fossil & ool; pr-fr interpart poro; mealy & chalky; 1-2 pieces lt brwn spty stn; VSSFO; sli odor

DST #2: (3276-3313)
 1st Op: BOB 3 1/2"
 1/2" Blowback
 2nd Op: BOB 9"
 1" Blowback

LS, crm fn xln fossil; pr interpart poro; mealy; chalky; few pieces lt brwn sat stn; VSSFO; sli odor; sli fluor

Rec:
 819' GIP
 32' GMWCO

LS, crm-tan fn xln fossil; v. ool; pelletoid; pr-fr interpart poro; iso vugular poro; fr amt golden brwn subsat-sat stn; SSFO; sli-fr odor; od yellow fluor -- odor



EL 3376 (-1447)
EL 3382 (-1453)

DST #4: (3361-3388)
1st Op: BOB 12"
Sfc Blowback
2nd Op: BOB 6.8"
1/4" Blowback

Rec:
20' Oil - Grav 31
63' MCO
(95%O, 5%M)
63' VSOMCW
(5%O, 65%W, 30%M)
63' OWCM
(10%O, 40%W, 55%M)
209' Total Fluid

IFFP: 40-82#/45"
ISIP: 353#/45"
FFP: 88-109#/45"
FSIP: 363#/75"
Chlor: 17,000 ppm

DST #5: (3393-3404)
1st Op: Weak Bldg 2"
No Blowback
2nd Op: Weak Bldg .25"
No Blowback

Rec:
8' Oil - Grav 32
63' VSOMCW
(15%O, 55%W, 30%M)
71' Total Fluid

IFFP: 23-33#/60"
ISIP: 513#/60"
FFP: 37-49#/105"
FSIP: 450#/75"
Chlor: 23,000 ppm

OPERATOR: Russell Oil, Inc. LOCATION: 630'FN & 2016'FE ELEVATION: KB 1929

LEASE: Steinle WELL NO: #4-32 SEC: 32 TWP: 15S RNG: 14W

API: 15-167-24,120 FIELD: Wildcat COUNTY: Russell STATE: Kansas

Steinle #4-32 Drilling Report

Russell Oil, Inc.
Steinle #4-32
 630'FN & 2016'FE
 Section 32-15S-14W
 Russell County, Kansas
 #15-167-24,120

KB: 1929
 GL: 1919

Reference Well A: *Russell Steinle #2-32 330'FN & 1815'FE 32-15S-14W*

Reference Well B: *Russell Steinle #1-32 900'FN & 1730'FE 32-15S-14W*

<u>SAMPLE TOPS</u>				<u>ELECTRIC LOG TOPS</u>			
		<u>A:</u>	<u>B:</u>			<u>A:</u>	<u>B:</u>
Anhydrite	928 (+1001)	flat	+3	Anhydrite	926 (+1003)	+2	+5
B/Anhydrite	959 (+970)	-10	+4	B/Anhydrite	957 (+972)	-8	+6
Topeka	2842 (-913)	+4	-3	Topeka	2840 (-911)	+6	-1
Heebner	3070 (-1141)	+5	+5	Heebner	3070 (-1141)	+5	+5
Toronto	3087 (-1158)	+4	+5	Toronto	3086 (-1157)	+5	+6
Lansing	3132 (-1203)	+5	+2	Lansing	3132 (-1203)	+5	+2
Mun Creek	3278 (-1349)	+2	-1	Mun Creek	3275 (-1346)	+5	+4
B/KC	3376 (-1447)	+1	-4	B/KC	3376 (-1447)	+1	-4
Arbuckle	3382 (-1453)	-2	+29	Arbuckle	3382 (-1453)	-2	+29
RTD	3450 (-1521)			LTD	3450 (-1521)		

Sample Shows and Drill Stem Tests:

4-8-2022: 7 am Depth 2355'

4-9-2022: 7 am Depth 2957'

Topeka Plattsmouth 50' zone:

Limestone, cream; fossiliferous; large vugular porosity, fair interparticle porosity; abundant pieces dark brown saturated stain – 1-2 pieces subsaturated; fair to good show of free oil; gas bubbles when broken; fair to good odor.

Topeka Plattsmouth 35' zone:

Limestone, cream; fossiliferous and oolitic; 1-2 pieces oolitic, few pieces light to medium subsaturated stain; slight show of free oil; slight odor.

Toronto:

Circulate 3110'

Limestone, cream; slightly fossiliferous; slightly dolomitic; poor interparticle porosity; dense; blocky; 1-2 pieces w/spotty edge stain; no show of free oil; very slight odor.

Lansing "A":

Circulate 3148'

Limestone, cream; fossiliferous; some dolomitic; some secondary crystalline growth; good vugular porosity; medium to dark brown saturated stain – few pieces subsaturated; slight show of free oil – gas on break; slight to fair gassy odor.

Lansing "B":

Circulate 3168'

DST #1

Limestone, cream; oolitic and oolitic; fair interoolitic porosity; few pieces light brown spotty to subsaturated stain – many pieces barren; slight show of free oil; very slight odor; no fluorescence. *3' drilling break*

Lansing "C":

Circulate 3182'

DST #1

Limestone, cream; predominantly oolitic; fair to good oolitic porosity; some dolomitic; fair amount light to medium golden brown subsaturated stain – many pieces barren; slight to fair show of free oil – active gas bubbles on break; slight to fair odor; yellow fluorescence. *6' drilling break*

Will short trip 25 stands; circulate one hour; drop straight hole survey and come out of hole for drill stem test strapping pipe....estimate on bottom with test approximately 2:30 am...

DST #1:

Trilobite Testing Co.-Hays

Lansing "B-C"

Eric Burgess; Tester

3144-3182

1st Op: BOB 3 1/2"

No Blowback

2nd Op: BOB Immediately

No Blowback

Rec:

2079' GIP

25' GVSOCM (5%G, 5%O, 90%M)

63' GVSOCM (25%G, 5%O, 70%M)

63' GWMCO (15%G, 60%O, 15%W, 10%M)

151' Total Fluid

IFP: 44-59#/30"

ISIP: 381#/30"

FFP: 53-77#/30"

FSIP: 373#/30"

Pipe Strap at 3182': *Not Taken – High Winds*

Survey: 1 1/4 degrees

4-10-2022: 7 am Depth 3182'; Tripping In After DST #1

Lansing "E":

Limestone, cream; fossiliferous and oolitic; poor to fair interparticle porosity; very mealy and chalky; 1-2 pieces light brown spotty stain; very slight show of free oil; slight odor.

Lansing "F":

Limestone, cream; fossiliferous; poor interparticle porosity; very mealy and chalky; few pieces light brown subsaturated stain; very slight show of free oil; slight odor; slight fluorescence.

Lansing Lower "F":

Circulate 3230'

Limestone, cream-tan; fossiliferous; very oolitic; pelletoid; poor to fair interparticle porosity; isolated vugular porosity; fair amount golden brown subsaturated to saturated stain; slight show of free oil; slight to fair odor; good yellow fluorescence – odor decreasing in 40' circulation sample.

No shows in Lansing "G"....

Lansing "H":

Circulate 3293'

DST #2

Limestone, cream; fossiliferous; very oolitic; pelletoid; poor to scattered fair pinpoint porosity; fair amount light brown saturated stain; slight show of free oil; fair odor per SB. 3300' sample had several pelletoid; fair interparticle porosity; fair odor.

Lansing "I":

Circulate 3313'

DST #2

Limestone, cream; fossiliferous; very oolitic; pelletoid; fair to good oolitic porosity; abundant light to medium brown saturated stain; fair show of free oil on break with active gas bubbles; fair odor; yellow fluorescence.

DST #2:

Trilobite Testing Co.-Hays

Lansing "H-I"

Eric Burgess; Tester

3276-3313

1st Op: BOB 3 1/2"

1/2" Blowback

2nd Op: BOB 9"

1" Blowback

Rec:

819' GIP

32' GMWCO (25%G, 35%O, 15%W, 25%M)

63' OWMCG (40%G, 30%O, 20%W, 10%M)

63' GVSOMCW (10%G, 5%O, 60%W, 25%M)

63' GVSOMCW (10%G, 5%O, 45%W, 40%M)

221' Total Fluid

IFP: 42-87#/30"

ISIP: 237#/30"

FFP: 104-126#/30"

FSIP: 240#/30"

Chlor: 13,000 ppm

Pipe Strap at 3313': .06 Short to Board

4-11-2022: 7 am Depth 3313'; Tripping In After DST #2

Lansing "J": *Circulate 3337'* **DST #3**
Limestone, cream; extreme amount of mushy shales; fossiliferous; oolitic; finely oolitic; 10-12 pieces medium brown subsaturated to rare saturated stain; slight show of free oil on break with active gas bubbles; slight odor; good yellow fluorescence. *Tank of mud going in mud system just prior to drilling "J" porosity break; extreme amount of shales flushed through system; 3340' drilling sample best represents true "J" zone description. 4-5' drilling break*

Lansing "K": *Circulate 3364'* **DST #3**
Limestone, cream; very oolitic; pelletoid; possible fracture porosity; 2-3 pieces light brown spotty stain; slight show of free oil; slight odor; poor fluorescence.

Lansing "L": *Circulate 3371'* **DST #3**
Limestone, cream-tan; oolitic; pelletoid; scattered fair vugular porosity; abundant light brown subsaturated stain; slight show of free oil with active gas bubbles on break; fair odor in 3370' sample; good yellow fluorescence.

DST #3: *Trilobite Testing Co.- Hays*
Lansing "J-L" *Eric Burgess; Tester*

3309-3371
1st Op: Surface Blow; Died
No Blowback
2nd Op: No Blow
No Blowback

Rec:
20' Oil Spotted Mud

IFP: 28-28#/30"
ISIP: 140#/30"
FFP: 29-30#/30"
FSIP: 75#/30"

Arbuckle 0-6' in (-1459): *Circulate 3388'* **DST #4**
20" circulation sample: Dolomite, tan; fine to medium crystalline; sucrosic; some pieces medium rhombic; poor to fair intercrystalline porosity; good amount medium brown saturated stain; slight show of free oil; fair odor; bright yellow fluorescence.
40" circulation sample: Dolomite, tan; fine to medium crystalline; sucrosic with scattered vugs; increasing amount medium rhombic; friable; poor to fair intercrystalline porosity; good amount medium brown saturated stain; fair show of free oil; good odor; bright yellow fluorescence.

High winds 50+ mph are expected during test. Trip times may be slower...on bottom with test approximately 8:30-9:00 am...

4-12-2022: 7 am Depth 3388'; Tripping Out For DST #4

DST #4:

Arbuckle 0-6'in (-1459)

3361-3388

1st Op: BOB 12"

Surface Blowback

2nd Op: BOB 6.8"

1/4" Blowback

Trilobite Testing Co.-Hays

Eric Burgess; Tester

Rec:

20' Oil – Grav 31

63' MCO (95%O, 5%M)

63' VSOMCW (5%O, 65%W, 30%M)

63' OWCM (10%O, 40%W, 55%M)

209' Total Fluid

IFP: 40-82#/45"

ISIP: 353#/45"

FFP: 88-109#/45"

FSIP: 363#/75"

Chlor: 17,000 ppm

Arbuckle 6-13' in (-1466):

Circulate 3395'

DST #5

20" & 40" circulation sample: Dolomite, cream; fine to medium crystalline; sucrosic; some rhombic – all rocks in tray covered with oil; poor to fair intercrystalline porosity; abundant amount medium brown saturated stain in sucrosic rocks; rhombic porosity 40% barren; fair show of free oil; good odor; bright yellow fluorescence.

Arbuckle 13-19' in (-1472):

Circulate 3401'

DST #5

20" & 40" circulation sample: Dolomite, cream; abundant medium crystalline; sucrosic with fair vugular porosity; all rocks in tray covered with oil; poor to fair intercrystalline porosity; good amount medium brown saturated stain in sucrosic rocks; several pieces appear tite -- 40% barren; fair show of free oil; good odor; bright yellow fluorescence.

Arbuckle 19-22' in (-1475):

Circulate 3404'

DST #5

20" circulation sample: Dolomite, cream; abundant medium crystalline; sucrosic porosity; poor to fair intercrystalline porosity; some medium brown saturated stain in sucrosic rocks; several pieces appear tite -- 40% barren; increasing saturated stain in rhombic porosity; fair show of free oil; slight to fair odor; bright yellow fluorescence.

40" circulation sample: Dolomite, cream; abundant medium crystalline; extreme change in show; 40% barren hard, very tite pieces; abundant white angular chert.

Note: Geolograph unresponsive; from 3397'-3404' footages measured with tape measure; undetermined cause for geolograph failure.

DST #5:

Arbuckle 11-22'in (-1475)

3393-3404

1st Op: Weak Building 2"

No Blowback

2nd Op: Weak Building .25"

No Blowback

Trilobite Testing Co.-Hays

Eric Burgess; Tester

Rec:

8' Oil – Grav 32

63' VSOMCW (15%O, 55%W, 30%M)

71' Total Fluid

IFP: 23-33#/60"

ISIP: 513#/60"

FFP: 37-49#/105" *(flow time extended due to technical problems with test equipment)*

FSIP: 450#/75"

Chlor: 23,000 ppm

4-13-2022: 7 am Depth 3404'; Preparing To Trip In After DST #5

Based on sample shows, drill stem test results and positive log calculations, the decision was made to run 5 1/2" casing to further test the Lansing-Kansas City and Arbuckle.

FINAL REPORT