

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	GNC UNIT 29-1
Doc ID	1703184

All Electric Logs Run

Microlog
Dual Induction
Dual Comp Porosity
Geological Strip Log

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	GNC UNIT 29-1
Doc ID	1703184

Tops

Name	Top	Datum
Anhydrite	2338	+585
Base Anhydrite	2359	+564
Topeka	3596	-673
Topeka 30'	3629	-706
Heebner	3824	-901
Toronto	3844	-921
Lansing	3869	-946
Muncie Creek	4034	-1111
Stark Shale	4129	-1206
Hushpuckney Sh	4168	-1245
Base KC	4198	-1275
Marmaton	4238	-1315
Pawnee	4340	-1417
Myrick Station	4370	-1447
Ft. Scott	4392	-1469
Cherokee Sh	4420	-1497
Johnson	4464	-1541
Morrow Sh	4516	-1593
Morrow Sd	4534	-1611
Mississippi	4564	-1641
LTD	4630	-1707
RTD	4630	-1707

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	GNC UNIT 29-1
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	349	80/20 poz	250	3% cc, 2% gel

[illegible]

1. HST's Cash in Advance versus Hardware Services Inc. (HSH) has approved credit prior to sale. Credit terms of sale for approved accounts are that 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 laws. In the event it is necessary to employ an agency under attorney's 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 HSH becomes delinquent, HSH has the right to revoke any discounts previously applied in writing at full 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 difficulty required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER/NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSH 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 HSH makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSH. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSH is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hardware has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE

flv: 15-2021/01/25
implv: 350-2023/01/16



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: 1/25/2023
Invoice #: 0366236
Lease Name: GNC Unit
Well #: 29-1
County: Logan, Ks
Job Number: WP3875
District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	255.000	14.000	3,570.00
Wooden plug 8 5/8"	1.000	175.000	175.00
Light Eq Mileage	45.000	2.000	90.00
Heavy Eq Mileage	90.000	4.000	360.00
Ton Mileage	540.000	1.500	810.00
Depth Charge 2001"-3000'	1.000	2,000.000	2,000.00
Cement Blending & Mixing	255.000	1.400	357.00
Service Supervisor	1.000	275.000	275.00

Net Invoice 7,637.00
Sales Tax: 473.14
Total 8,110.14

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!

Federal Tax I.D.# 20-2886107

No. 3243

Finish
8:00pm

Location	CAKLEY 225 SW 51 st
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.

Cellular and helper to assist owner of corporation to do work as listed.

Charge	To
	Russell 077

Street

City _____ State _____

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

Cement Amount Ordered 250Y 89/20-3-2

Displace 21

21

100

Fuz. Wilx 500

Gel. 1

Hulls

Salt

Flowseal

Koi-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling	269
----------	-----

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

1 atch Down

10

Business Change

70

Tax

Discount

Total Charge

Thanks



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

Date: 1/17/2023
Invoice # 3243
P.O.#:
Due Date: 2/16/2023
Division: Russell

Invoice

Contact:
Russell Oil Company
Address/Job Location:

P. O. Box 8050
Edmond, OK 73083

Reference:
GNC UNIT 29-1 SEC 29-14-33

Description of Work:
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 884.51	No	V			
Common Class A	200	\$ 4,084.48	Yes	GL			
Calcium Chloride	9	\$ 499.66	Yes	U			
POZ Mix Standard	50	\$ 346.98	Yes				
Bulk Truck Matl Material Service Charge	264	\$ 261.72	No				
Premium Gel (Bentonite)	5	\$ 143.75	Yes				
Pump Truck Mileage-Job to Nearest Camp	33	\$ 147.22	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	33	\$ 114.50	No				

Invoice Terms:
Net 30

SubTotal: \$ 6,482.83
Discount Available ONLY if Invoice is Paid & Received \$ (162.07)
within listed terms of invoice.

SubTotal for Taxable Items	\$ 4,948.00
SubTotal for Non-Taxable Items	\$ 1,372.76
Total	\$ 6,320.76
Tax	\$ 395.84

Applied Payments:
Amount Due: \$ 6,716.60
Balance Due: \$ 6,716.60

Thank You For Your Business!

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

GNC Unit #29-1 Drilling Report

Russell Oil, Inc.

GNC Unit #29-1

2550'FN & 825'FE

Section 29-14S-33W

Logan County, Kansas

#15-109-21,665

KB: 2923

GL: 2918

Reference Well A: *Russell Thomas Trust #28-1 1105'FN & 1450'FW Sec 28-14S-33W*

Reference Well B: *Raymond Doolin Farms #1 1066'FS & 2303'FE Sec 28-14S-33W*

Reference Well C: *Arcadian Ross #1-27 2400'FS & 1500'FW Sec 27-14S-33W*

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>SAMPLE TOPS</u>				
Anhydrite	2336 (+587)	+8	+15	-1
B/Anhydrite	2359 (+564)	+5	+12	+3
Topeka	3598 (-675)	+9	+32	+23
Topeka 30'	3633 (-710)	+8	+28	+21
Heebner	3823 (-900)	+12	+34	+23
Toronto	3843 (-920)	+11	+38	+21
Lansing	3869 (-946)	+11	+35	+33
Mun Creek	4033 (-1110)	+12	+37	+21
Stark*	4128 (-1205)	+5	+30	+24
Hushpuckney	4168 (-1245)	+6	+36	+25
B/KC	4194 (-1271)	+8	+37	+28
Marmaton	4234 (-1311)	+8	+37	+24
Pawnee	4336 (-1413)	+4	+35	+18
Myrick Sta	4366 (-1443)	+5	+39	+20
Fort Scott	4392 (-1469)	+1	+35	+18
Cherokee	4420 (-1497)	+5	+36	+18
Johnson Zn	4464 (-1541)	+2`	+35	+18
Morrow Sh	4519 (-1596)	-5	+40	+23
Morrow Sd	4532 (-1609)	NA	+57	+43
Mississippian	4564 (-1641)	-3	+53	+20
RTD	4630 (-1707)			

*Lansing "J" zone thickened considerably

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>ELECTRIC LOG TOPS</u>				
Anhydrite	2338 (+585)	+6	+13	-3
B/Anhydrite	2359 (+564)	+5	+12	+3
Topeka	3596 (-673)	+11	+34	+25
Topeka 30'	3629 (-706)	+12	+32	+25
Heebner	3824 (-901)	+11	+33	+22
Toronto	3844 (-921)	+10	+37	+20
Lansing	3869 (-946)	+11	+35	+33
Mun Creek	4034 (-1111)	+11	+36	+20
Stark	4129 (-1206)	+4	+28	+23

Hushpuckney	4168 (-1245)	+6	+36	+25
B/KC	4198 (-1275)	+4	+33	+24
Marmaton	4238 (-1315)	+4	+33	+20
Pawnee	4340 (-1417)	flat	+31	+14
Myrick Sta	4370 (-1447)	+1	+35	+16
Fort Scott	4392 (-1469)	+1	+35	+18
Cherokee	4420 (-1497)	+5	+36	+18
Johnson Zn	4464 (-1541)	+2`	+35	+18
Morrow Sh	4516 (-1593)	-2	+43	+26
Morrow Sd	4534 (-1611)	NA	+55	+41
Mississippian	4564 (-1641)	-3	+53	+20
LTD	4630 (-1707)			

Bit Trip at 3472' to change from PDC to Conventional Bit; Strapped Pipe
Pipe Strap at 3472': 2.62 Short to Board (*Strap 3469.89 Board 3472.31*)

Sample Shows and Drill Stem Tests:

Toronto: *Circulate 3865'*

Limestone, cream-white; fossiliferous and oolitic; poor to fair interparticle porosity; barren; no show of free oil; no odor; scattered pieces white chalk; fair amount white angular chert.

Lansing: *Circulate 3890'*

Limestone, cream; fossiliferous and very oolitic; pelletoid – some dark oolites; poor to fair interparticle porosity; barren; no show of free oil; no odor; some pieces white chalk.

Lansing "C": *Circulate 3918'*

Limestone, cream-white; slightly fossiliferous; overall poor visible porosity; dense; barren; no show of oil; no odor; many pieces white fluffy chalk.

Lansing "D": *Circulate 3945'*

Limestone, white; slightly fossiliferous; overall poor visible porosity; dense; barren; no show of oil; no odor; some white chalk.

Lansing "E":

Limestone, cream-tan; slightly fossiliferous and oolitic; poor visible porosity; overall dense; no show of oil, no odor.

Lansing "F": *Circulate 3984'*

Limestone, tan; fossiliferous; poor interparticle porosity; overall blocky and dense; no show of oil; no odor; scattered pieces tan and clear chert.

Lansing "G": *Circulate 4000'*

Limestone, tan; oolitic and oolitic; oolitic porosity appears dolomitic; poor to fair oolitic porosity; barren; no show of oil; no odor; scattered pieces tan chert.

Wiper Trip at 4000'; 15 stands; circulate one hour and drill ahead....

Wiper Trip pulled tight....asked crews to put 1 cup poly every other connection until first drill stem test...

Lansing "H":

Circulate 4065'

Limestone, cream-gray; fossiliferous; few pieces with intact crinoid stem segments; overall poor interparticle porosity; no show of free oil; no odor.

Lansing "I":

Circulate 4095'

Limestone, cream-tan; slightly fossiliferous; isolated poor vugular porosity; predominantly poor interparticle porosity; no show of free oil; no odor.

Lansing "J":

Circulate 4124'

Limestone, cream; very fossiliferous and oolitic; subchalky; poor to rare fair interparticle porosity; barren; no show of free oil; no odor; few pieces pyritic. J zone appears to have thickened considerably...

Lansing "K":

Circulate 4144'

Limestone, tan-cream; fossiliferous; mealy; subchalky; poor interparticle porosity; barren; no show of free oil; no odor; abundant white and gray chert.

Lansing "L":

Circulate 4190'

Limestone, cream; fossiliferous and oolitic; subchalky; poor interparticle porosity; barren; no show of free oil; no odor; scattered gray chert.

No shows in Pleasanton...

Marmaton:

Circulate 4250'

Limestone, tan-pink-cream; fossiliferous; subchalky; poor interparticle porosity; very dense; no show of free oil; no odor; scattered white chert.

Will drill ahead to Altamont "A"...produces west and northwest...

Altamont "A":

Circulate 4275'

DST #1

Limestone, cream; some pink veining; fossiliferous; poor to fair interparticle porosity; rare minor vugular porosity; poor to fair interparticle porosity; no show of free oil; no odor; no apparent fracture porosity.

Altamont "B":

Circulate 4295'

DST #1

Limestone, cream-tan-brown; fossiliferous and oolitic; isolated pinpoint porosity; many pieces poor visible porosity with fracture porosity – breaks along fracture plane; one piece possible light to medium brown subsaturated edge stain; no show of free oil; fair odor in 20" circulation sample; 40" circulation sample odor disappears; very slight yellow fluorescence. 4' drilling break

Altamont "C":

Circulate 4323'

DST #1

Limestone, cream; fossiliferous and oolitic; few pieces appear dolomitic; poor to fair interparticle porosity; no show of free oil; no odor; tan translucent chert. 2' drilling break

Will short trip 15 stands; circulate one hour; come out of hole for drill stem test...

DST #1:

Altamont "A-C":

4244-4323

1st Op: Blow Bldg 2 ¾"; Decr to 1"

No Blowback

2nd Op: No Blow

No Blowback

Rec:

60' Mud

IFP: 57-54#/30"

ISIP: 368#/30"

FFP: 58-59#/30"

FSIP: 366#/30"

Note: Pushed through 5' fill; Tool slid 5'

Trilobite Testing Co., Inc.

Martine Salinas; Tester

Pawnee:

Circulate 4358'

Limestone, cream-gray; slightly fossiliferous; 1-2 coarse sandstone clusters near top; semi-friable; irregular sorting; no show of free oil; no odor; abundant tan translucent angular chert.

Myrick Station:

Circulate 4380'

Limestone, cream-tan-brown; fossiliferous; poor interparticle porosity; rare isolated vugular porosity; barren; no show of free oil; no odor; abundant tan and blue-gray translucent chert.

Fort Scott:

Circulate 4420'

Limestone, cream-tan-brown; fossiliferous and oolitic; poor interparticle porosity; predominantly dense; barren; no show of free oil; no odor; abundant tan and clear chert.

Johnson Zone:

Circulate 4490'

DST #2

Limestone, cream-tan; fossiliferous; isolated pinpoint porosity; poor to fair interparticle porosity; few pieces light brown spotty stain in dry sample only; no show of free oil; no odor; no fluorescence; no cut; tan and brown angular chert. 20" circulation sample: Limestone, tan-brown; fossiliferous; some appear dolomitic; very isolated vugular porosity; 1-2 pieces possible light edge stain around vugs; mostly dense; no show of free oil; no odor; no fluorescence.

DST #2:

Johnson Zone:

4437-4490

1st Op: Blow Bldg 1"; Decr to ¾"

No Blowback

2nd Op: No Blow

No Blowback

Trilobite Testing Co., Inc.

Martine Salinas; Tester

Rec:

80' Mud w/oil scum

IFP: 65-79#/45"
ISIP: 739#/45"
FFP: 86-89#/30"
FSIP: 666#/45"

No shows in Morrow Sand or Mississippian....

Drilling ahead to TD; will do a 5 stand short trip immediately; circulate one hour; come out for logs. Anticipate reaching TD approximately 1:00am...on the bank to log approximately 4:00-4:30am.

Due to poor electric log calculations and negative drill test results, the GNC Unit #29-1 will be plugged and abandoned.

FINAL REPORT



DRILL STEM TEST REPORT

Prepared For: **Russell Oil INC**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

GNC Unit #29-1

29-14S.-33W. Logan,KS

Start Date: 2023.01.22 @ 18:55:00

End Date: 2023.01.23 @ 01:38:20

Job Ticket #: 69435 DST #: 1

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

Printed: 2023.01.26 @ 10:08:44



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil INC

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

29-14S.-33W. Logan,KS

GNC Unit #29-1

Job Ticket: 69435

DST#: 1

Test Start: 2023.01.22 @ 18:55:00

GENERAL INFORMATION:

Formation: **Altamont " A - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:28:50

Time Test Ended: 01:38:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4244.00 ft (KB) To 4323.00 ft (KB) (TVD)

Total Depth: 4323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2923.00 ft (KB)

2918.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 59.07 psig @ 4245.00 ft (KB)

Start Date: 2023.01.22

End Date:

2023.01.23

Start Time: 18:55:01

End Time:

01:38:20

Capacity: 8000.00 psig

Last Calib.: 2023.01.23

Time On Btm: 2023.01.22 @ 21:28:30

Time Off Btm: 2023.01.22 @ 23:38:20

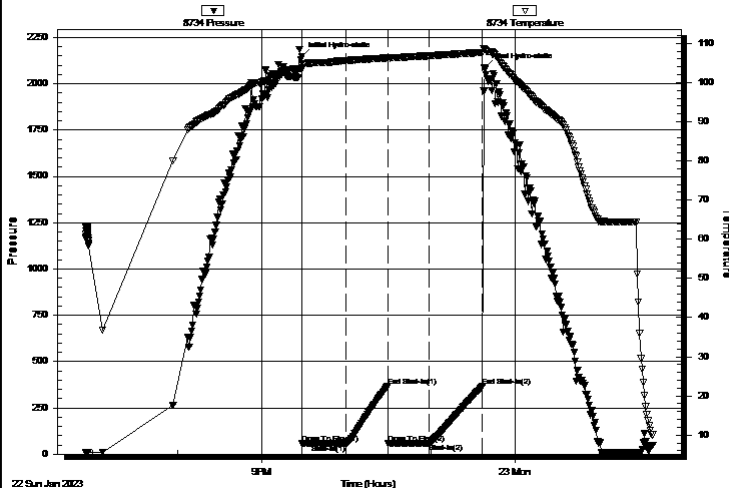
TEST COMMENT: 30-IF-Blow started @ 2 3/4" & decreased to 1"

30-ISI-No return

30-FF-No blow

30-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.23	103.87	Initial Hydro-static
1	56.50	103.72	Open To Flow (1)
32	53.98	105.61	Shut-In(1)
61	367.64	106.32	End Shut-In(1)
62	58.42	106.21	Open To Flow (2)
91	59.07	106.83	Shut-In(2)
129	365.68	107.68	End Shut-In(2)
130	2088.17	108.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Mud	0.30

Gas Rates

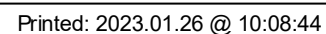
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Test Start: 2023.01.22 @ 18:55:00

KB to GR/CF: 5.00 ft

30-FSI-No return





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil INC

29-14S.-33W. Logan,KS

PO Box 8050
Edmond, OK 73083

GNC Unit #29-1

Job Ticket: 69435

DST#: 1

ATTN: Kitt Noah

Test Start: 2023.01.22 @ 18:55:00

Tool Information

Drill Pipe:	Length:	4066.00 ft	Diameter:	3.80 inches	Volume:	57.04 bbl	Tool Weight:	2500.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb		
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	100000.0 lb		
						Total Volume:	57.93 bbl	Tool Chased	5.00 ft	
Drill Pipe Above KB:	35.00 ft								String Weight: Initial	90000.00 lb
Depth to Top Packer:	4244.00 ft								Final	90000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	79.00 ft									
Tool Length:	112.00 ft									
Number of Packers:	2		Diameter:	6.75 inches						
Tool Comments: Pushed through 5' of fill, Opened tool and slid 5' to bottom										

Tool Description

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

Change Over Sub	1.00			4212.00		
Shut In Tool	5.00			4217.00		
Hydraulic tool	5.00	1113		4222.00		
Jars	5.00	01-07		4227.00		
EM Tool	5.00			4232.00		
Safety Joint	3.00	-001		4235.00		
Packer - Shale	5.00			4240.00		
Packer	4.00			4244.00	33.00	Bottom Of Top Packer
Stubb	1.00			4245.00		
Recorder	0.00	8959	Inside	4245.00		
Recorder	0.00	8734	Outside	4245.00		
Perforations	8.00			4253.00		
Change Over Sub	1.00			4254.00		
Drill Pipe	63.00			4317.00		
Change Over Sub	1.00			4318.00		
Bullnose	5.00			4323.00	79.00	Anchor Tool
Total Tool Length:	112.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil INC

29-14S.-33W. Logan,KS

PO Box 8050
Edmond, OK 73083

GNC Unit #29-1

Job Ticket: 69435

DST#: 1

ATTN: Kitt Noah

Test Start: 2023.01.22 @ 18:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	100% Mud	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

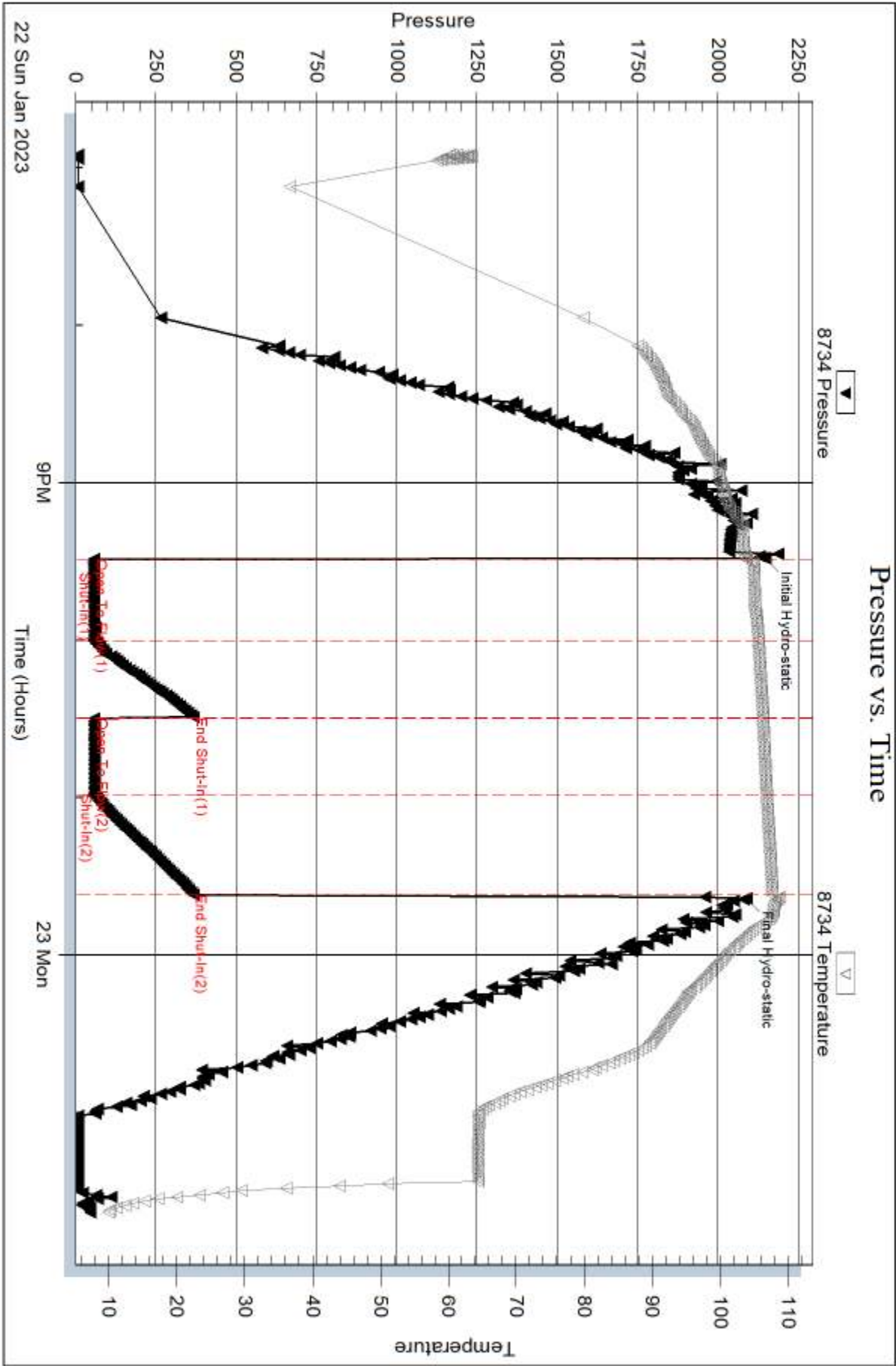
Recovery Comments:

Serial #: 8734

Outside Russell Oil INC

GNC Unit #29-1

DST Test Number: 1



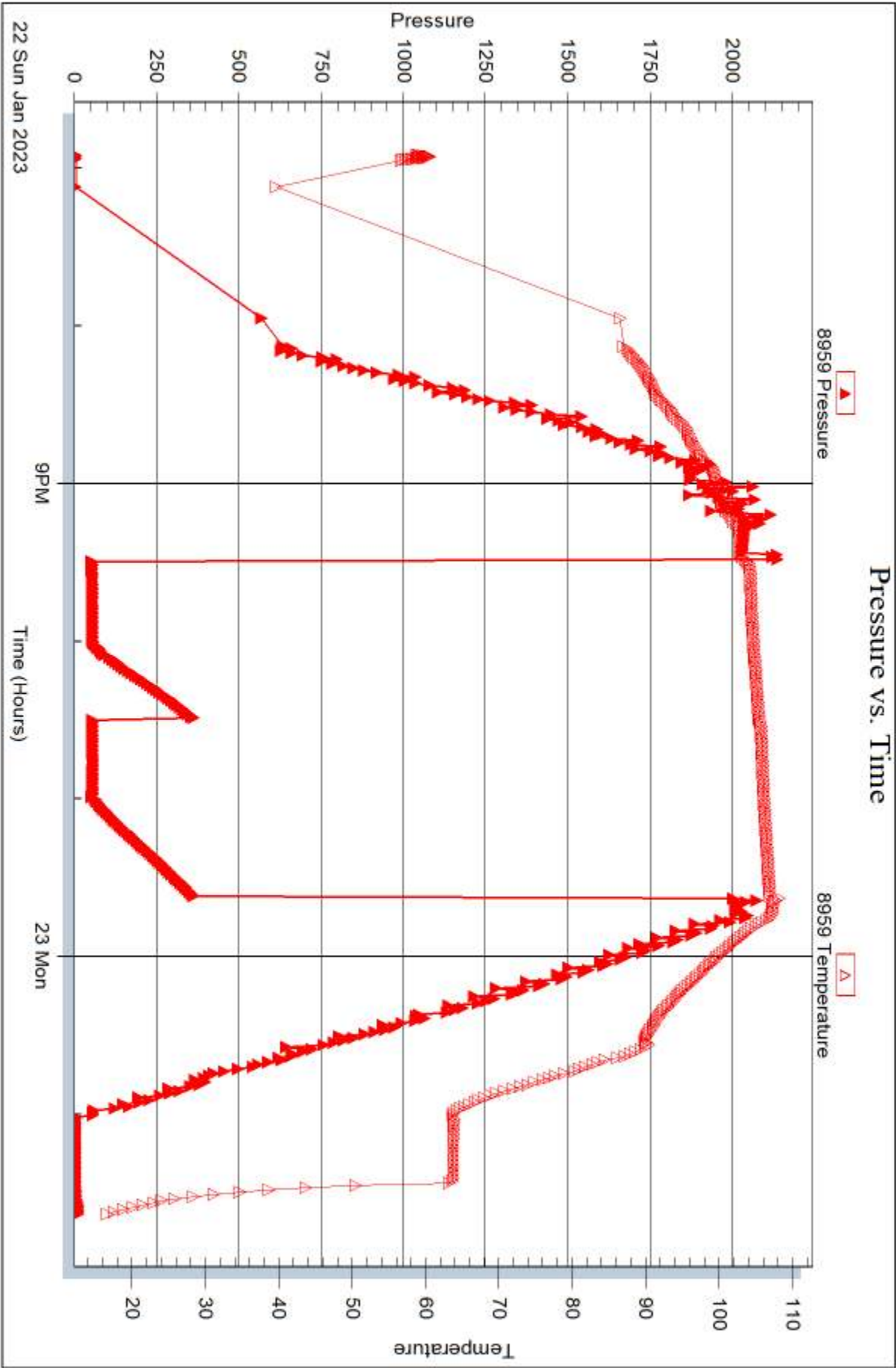
Serial #: 8959

Inside

Russell Oil INC

GNC Unit #29-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Russell Oil INC**

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

GNC Unit #29-1

29-14S.-33W. Logan,KS

Start Date: 2023.01.24 @ 03:35:00

End Date: 2023.01.24 @ 10:32:09

Job Ticket #: 69436 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.01.26 @ 10:02:02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil INC

PO Box 8050
Edmond, OK 73083

ATTN: Kitt Noah

29-14S.-33W. Logan,KS

GNC Unit #29-1

Job Ticket: 69436

DST#: 2

Test Start: 2023.01.24 @ 03:35:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:29:20

Time Test Ended: 10:32:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4437.00 ft (KB) To 4490.00 ft (KB) (TVD)

Total Depth: 4490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2923.00 ft (KB)

2918.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 88.50 psig @ 4438.00 ft (KB)

Start Date: 2023.01.24

End Date:

2023.01.24

Start Time: 03:35:01

End Time:

10:32:10

Capacity: 8000.00 psig

Last Calib.: 2023.01.24

Time On Btm: 2023.01.24 @ 05:28:40

Time Off Btm: 2023.01.24 @ 08:17:50

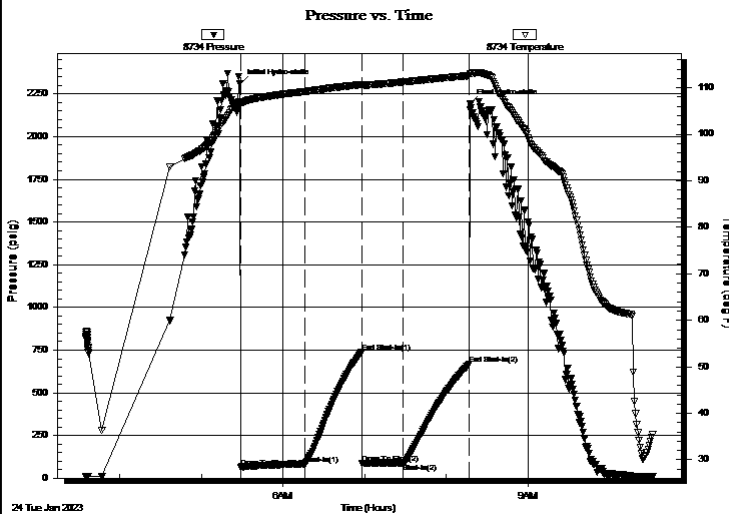
TEST COMMENT: 45-IF-Blow built to 1" & decreased to 3/4"

45-ISI-No return

30-FF-No blow

45-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.98	107.10	Initial Hydro-static
1	65.10	106.61	Open To Flow (1)
48	79.47	109.15	Shut-In(1)
90	739.17	110.66	End Shut-In(1)
90	85.78	110.41	Open To Flow (2)
120	88.50	111.21	Shut-In(2)
169	666.31	112.57	End Shut-In(2)
170	2194.15	113.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	100% Mud w / Oil Scum	0.39

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

29-14S.-33W. Logan,KS

GNC Unit #29-1

Job Ticket: 69436

DST#: 2

Test Start: 2023.01.24 @ 03:35:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:29:20

Time Test Ended: 10:32:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4437.00 ft (KB) To 4490.00 ft (KB) (TVD)

Total Depth: 4490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2923.00 ft (KB)

2918.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4438.00 ft (KB)

Start Date: 2023.01.24

End Date:

2023.01.24

Start Time: 03:35:01

End Time:

10:32:10

Capacity: 8000.00 psig

Last Calib.: 2023.01.24

Time On Btm:

Time Off Btm:

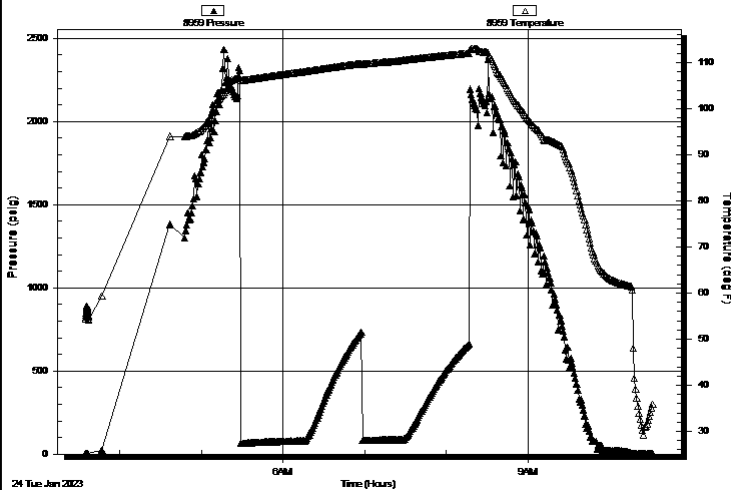
TEST COMMENT: 45-IF-Blow built to 1" & decreased to 3/4"

45-ISI-No return

30-FF-No blow

45-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
80.00	100% Mud w / Oil Scum	0.39

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil INC

29-14S.-33W. Logan,KS

PO Box 8050
Edmond, OK 73083

GNC Unit #29-1

Job Ticket: 69436

DST#: 2

ATTN: Kitt Noah

Test Start: 2023.01.24 @ 03:35:00

Tool Information

Drill Pipe:	Length:	4256.00 ft	Diameter:	3.80 inches	Volume:	59.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:	98000.00 lb
					Total Volume:	60.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	95000.00 lb
Depth to Top Packer:		4437.00 ft					Final	95000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		53.00 ft						
Tool Length:		86.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Change Over Sub	1.00			4405.00		
Shut In Tool	5.00			4410.00		
Hydraulic tool	5.00	1113		4415.00		
Jars	5.00	01-07		4420.00		
EM Tool	5.00			4425.00		
Safety Joint	3.00	-001		4428.00		
Packer - Shale	5.00			4433.00		
Packer	4.00			4437.00	33.00	Bottom Of Top Packer
Stubb	1.00			4438.00		
Recorder	0.00	8959	Inside	4438.00		
Recorder	0.00	8734	Outside	4438.00		
Perforations	13.00			4451.00		
Change Over Sub	1.00			4452.00		
Drill Pipe	32.00			4484.00		
Change Over Sub	1.00			4485.00		
Bullnose	5.00			4490.00	53.00	Anchor Tool
Total Tool Length:	86.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil INC

29-14S.-33W. Logan,KS

PO Box 8050
Edmond, OK 73083

GNC Unit #29-1

Job Ticket: 69436

DST#: 2

ATTN: Kitt Noah

Test Start: 2023.01.24 @ 03:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 8.18 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	100% Mud w / Oil Scum	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

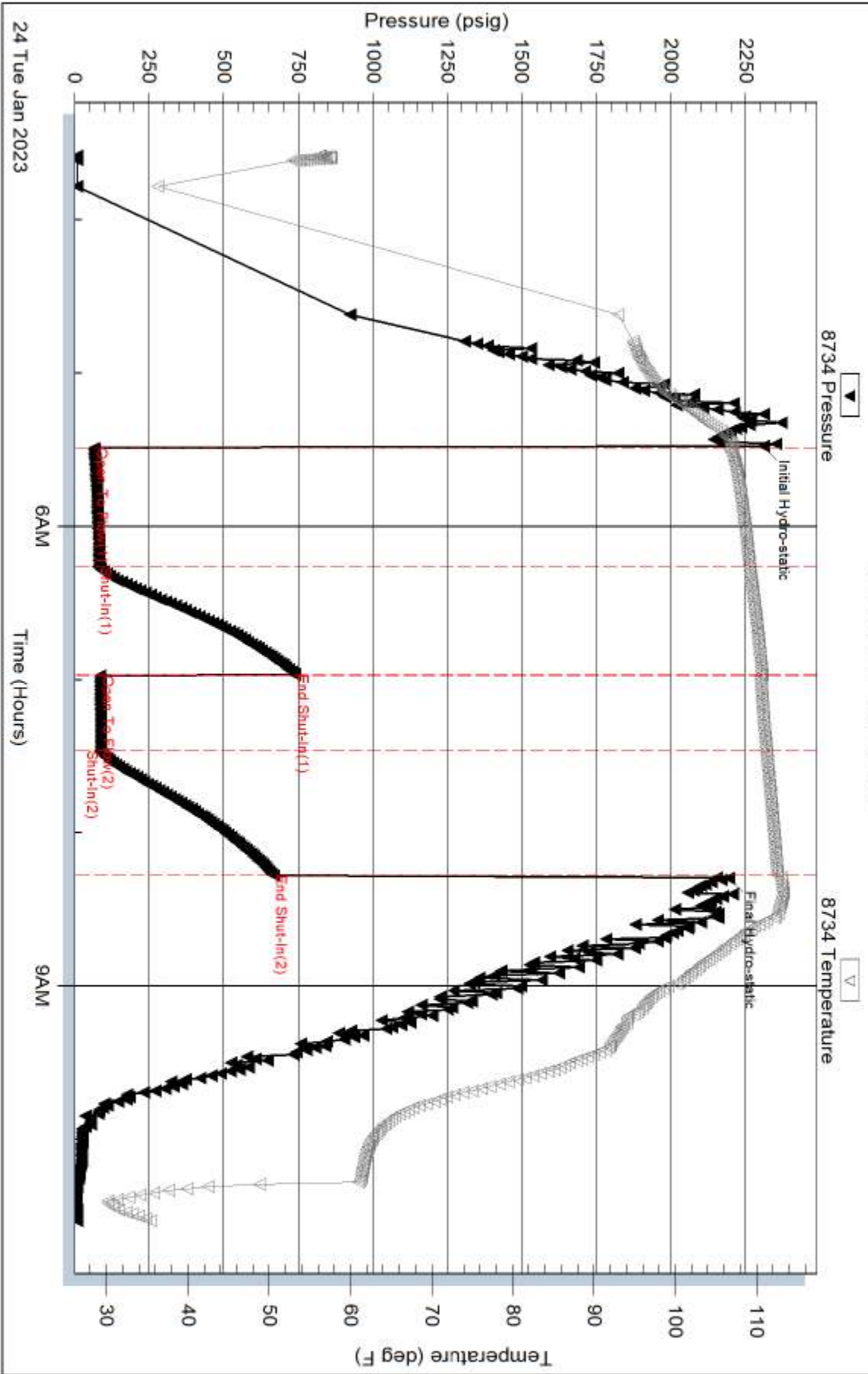
Serial #: 8734

Outside Russell Oil INC

GNC Unit #29-1

DST Test Number: 2

Pressure vs. Time



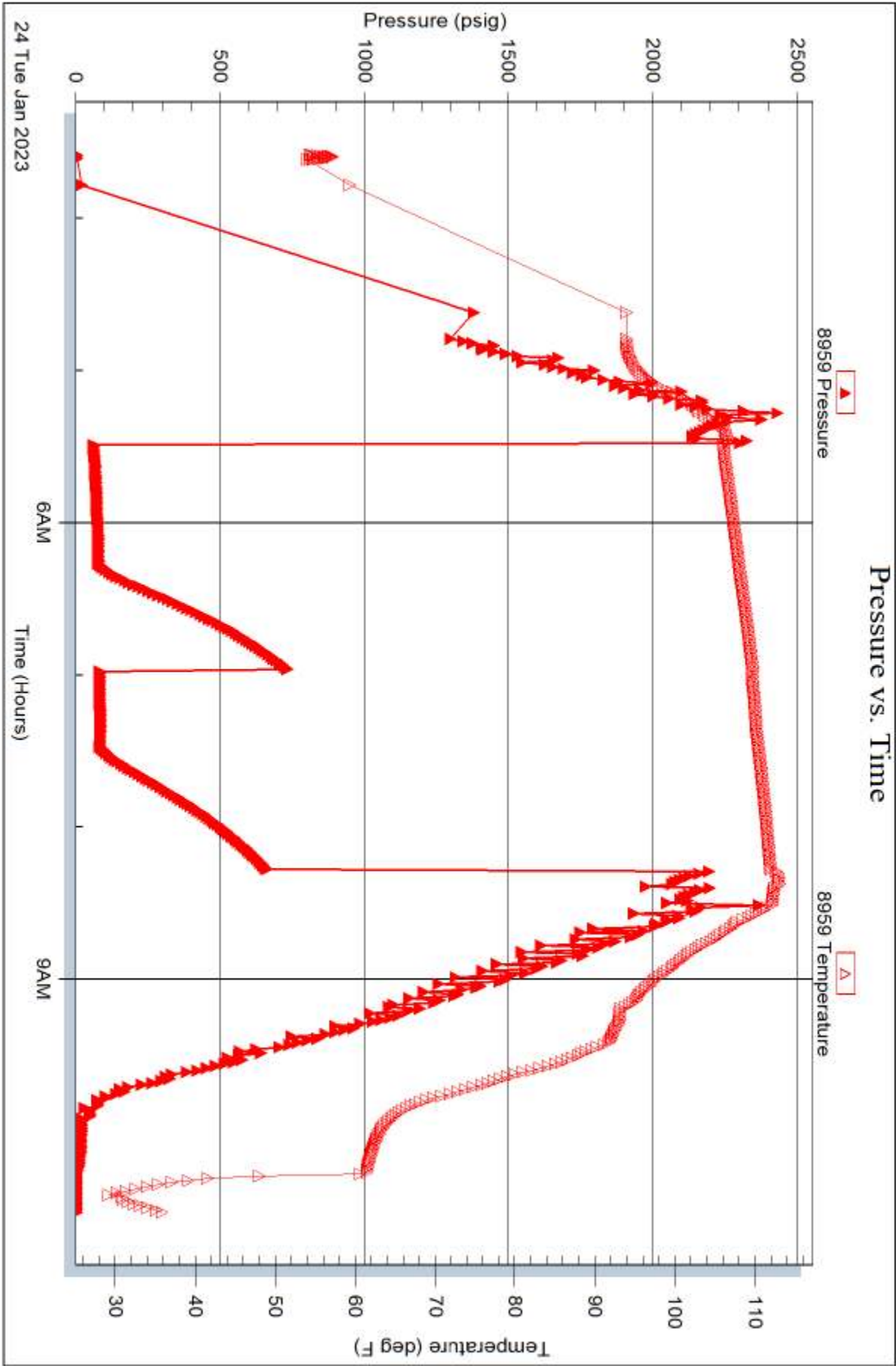
Serial #: 8959

Inside

Russell Oil INC

GNC Unit #29-1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69435**

Well Name & No. GNC Unit #29-1 Test No. 1 Date 1-22-23
 Company Russell Oil Inc. Elevation 2923 KB 2918 GL
 Address P.O. Box 8050 Edmond, OK 73083
 Co. Rep / Geo. Kitt Noch Rig Murfin #8
 Location: Sec. 29 Twp 14S. Rge. 33W. Co. Logan State KS.

Interval Tested 4244-4323 Zone Tested Altamont A-C
 Anchor Length 79' Drill Pipe Run 4066. Mud Wt. 9.3
 Top Packer Depth 4239 + (Shale) Drill Collars Run 180 Vls 61
 Bottom Packer Depth 4244 Wt. Pipe Run — WL 8.0
 Total Depth 4323 Chlorides 3000 ppm System LCM 3#

Blow Description IF - Blow started @ 234" & decreased to 1"

ISI - No return.

FF - No blow

FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2146

(B) First Initial Flow 57

(C) First Final Flow 54

(D) Initial Shut-In 368

(E) Second Initial Flow 58

(F) Second Final Flow 59

(G) Final Shut-In 366

(H) Final Hydrostatic 2088

Initial Open 30

Initial Shut-In 30

Final Flow 30

Final Shut-In 30

☒ Test 1950

☒ Jars 300

☒ Safety Joint —

☐ Circ Sub —

☐ Hourly Standby —

☒ Mileage 68 RT 119

☐ Sampler —

☐ Straddle —

☒ Shale Packer 250

☐ Extra Packer —

☐ Extra Recorder —

☐ Day Standby —

☐ Accessibility —

Sub Total 2619

T-On Location 17:45

T-Started 18:55

T-Open 21:28

T-Pulled 23:28

T-Out 01:38

Comments Pushed through 5' of fill opened tool + slid 5' to bottom.

☒ EM Tool —

☐ Ruined Shale Packer —

☐ Ruined Packer —

☐ Extra Copies —

Sub Total 0

Total 2619

MP/DST Disc't —

Approved By —

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or 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. **69436**

Well Name & No. GNC Unit #29-1 Test No. 2 Date 1-24-23
 Company Russell Oil INC Elevation 2723 KB 2918 GL
 Address P.O. Box 8050 Edmond, OK 73083
 Co. Rep / Geo. Kitt Noah Rig Murfin#8
 Location: Sec. 29 Twp 14S. Rge. 33W. Co. Logan State KS.

Interval Tested 4437-4490 Zone Tested Johnson.
 Anchor Length 53' Drill Pipe Run 4256 Mud Wt. 9.2
 Top Packer Depth 4432. (Shale) Drill Collars Run 180 Vis 59
 Bottom Packer Depth 4437 Wt. Pipe Run — WL 8.2
 Total Depth 4490 Chlorides 4000 ppm System LCM 2#

Blow Description IF - Blow built to 1" + decreased to 3/4"

ISI - No return

FF - No blow

ESI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>Feet of Mud w/oil seum</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 80 BHT — Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2308
 (B) First Initial Flow 65
 (C) First Final Flow 79
 (D) Initial Shut-In 739
 (E) Second Initial Flow 86
 (F) Second Final Flow 89
 (G) Final Shut-In 666
 (H) Final Hydrostatic 2194

☒ Test 1950
☒ Jars 300
☒ Safety Joint —
☐ Circ Sub —
☐ Hourly Standby —
☒ Mileage 68 RTX2 238
☐ Sampler —
☐ Straddle —
☒ Shale Packer 250
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
 Sub Total 2738

T-On Location 03:30
 T-Started 03:35
 T-Open 05:28
 T-Pulled 08:13
 T-Out 10:33
 Comments Tools loaded @
19:15.
☒ EM Tool —
☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies —
 Sub Total 0
 Total 2738
 MP/DST Disc't —

Initial Open 45
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Approved By —

Our Representative [Signature]

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