

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	EDWARDS TRUST E 26-1
Doc ID	1359679

All Electric Logs Run

MICRORESISTIVITY
SECTOR BOND
COMPENSATED DENSITY NEUTRON
DUAL INDUCTION

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	EDWARDS TRUST E 26-1
Doc ID	1359679

Tops

Name	Top	Datum
ANHYDRITE	2426	+686
BASE ANHYDRITE	2444	+668
TOPEKA	3670	-558
HEEBNER	3902	-790
TORONTO	3922	810
LANSING	3952	-840
C	3988	876
D	4006	-894
E	4038	-926
F	4053	-941
G	4072	-960
MUNCIE CREEK	4123	-1011
H	4132	-1020
I	4168	-1056
J	4194	-1082
STARK SHALE	4210	-1098
K	4222	-1100
HUSH SHALE	4261	-1149
L	4269	-1157
BASE KC	4298	-1186
PLEASONTON	4306	-1194
MARMATON	4345	-1233
ALTAMONT A	4350	-1238
ALTAMONT B	4382	-1270

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	EDWARDS TRUST E 26-1
Doc ID	1359679

Tops

Name	Top	Datum
ALTAMONT C	4402	-1290
PAWNEE	4438	-1326
MYRICK STATION	4467	-1355
FT SCOTT	4488	-1376
CHEROKEE SH	4515	-1403
JOHNSON	4570	-1458
MORROW	NC	NC
MISSISSIPPI	4678	-1566
RTD	4730	-1618

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	EDWARDS TRUST E 26-1
Doc ID	1359679

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	JOHNSON (4572'-4576')	500 GAL 2%NE/CS/DMO3%MS	
4	JOHNSON (4564'-4568')	500 GAL 2%NE/CS/DMO3%MS	
4	ALTAMONT B (4382'-4386')	1000 GAL 20%NE/CS/DMO 3%MS	





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**26/15s/35w Logan KS**  
**Edwards Trust E#26-1**  
Job Ticket: 65444      **DST#: 1**  
Test Start: 2017.04.28 @ 19:10:00

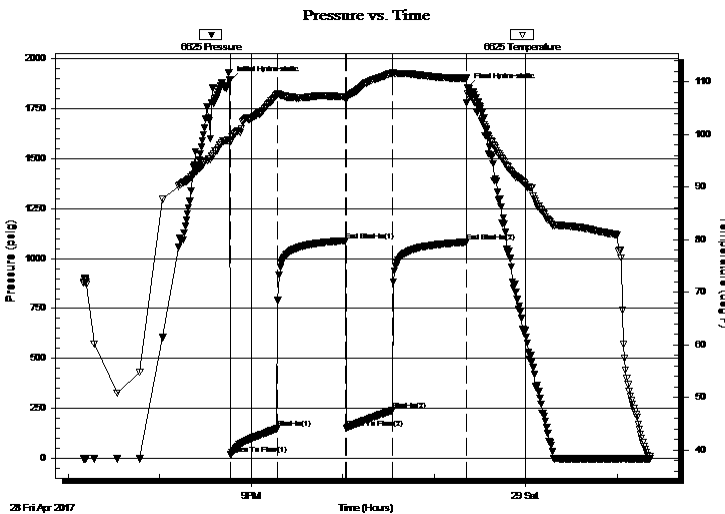
## GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:46:30  
Time Test Ended: 01:21:15  
Interval: **3890.00 ft (KB) To 3932.00 ft (KB) (TVD)**  
Total Depth: 3932.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Reference Elevations: 3112.00 ft (KB)  
3107.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6625      Inside**  
Press@RunDepth: 240.40 psig @ 3891.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.04.28      End Date: 2017.04.29      Last Calib.: 2017.04.29  
Start Time: 19:10:05      End Time: 01:21:14      Time On Btm: 2017.04.28 @ 20:46:15  
Time Off Btm: 2017.04.28 @ 23:22:00

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 13 3/4 min.  
45 - IS: No blow back  
30 - FF: Blow built to BOB at 15 3/4 min.  
45 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.25	99.00	Initial Hydro-static
1	18.94	98.70	Open To Flow (1)
31	149.13	107.63	Shut-In(1)
76	1089.41	107.13	End Shut-In(1)
76	150.96	106.99	Open To Flow (2)
107	240.40	111.70	Shut-In(2)
155	1082.08	110.61	End Shut-In(2)
156	1854.73	107.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
305.00	MCW 88%w, 12%m	3.20
190.00	WCM 61%m, 39%w	2.67
5.00	Mud 100%	0.07

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil, Inc.

**26/15s/35w Logan KS**

PO Box 8050  
Edmond, OK 73083

**Edwards Trust E#26-1**

Job Ticket: 65444

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2017.04.28 @ 19:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
305.00	MCW 88%w, 12%m	3.203
190.00	WCM 61%m, 39%w	2.665
5.00	Mud 100%	0.070

Total Length: 500.00 ft      Total Volume: 5.938 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

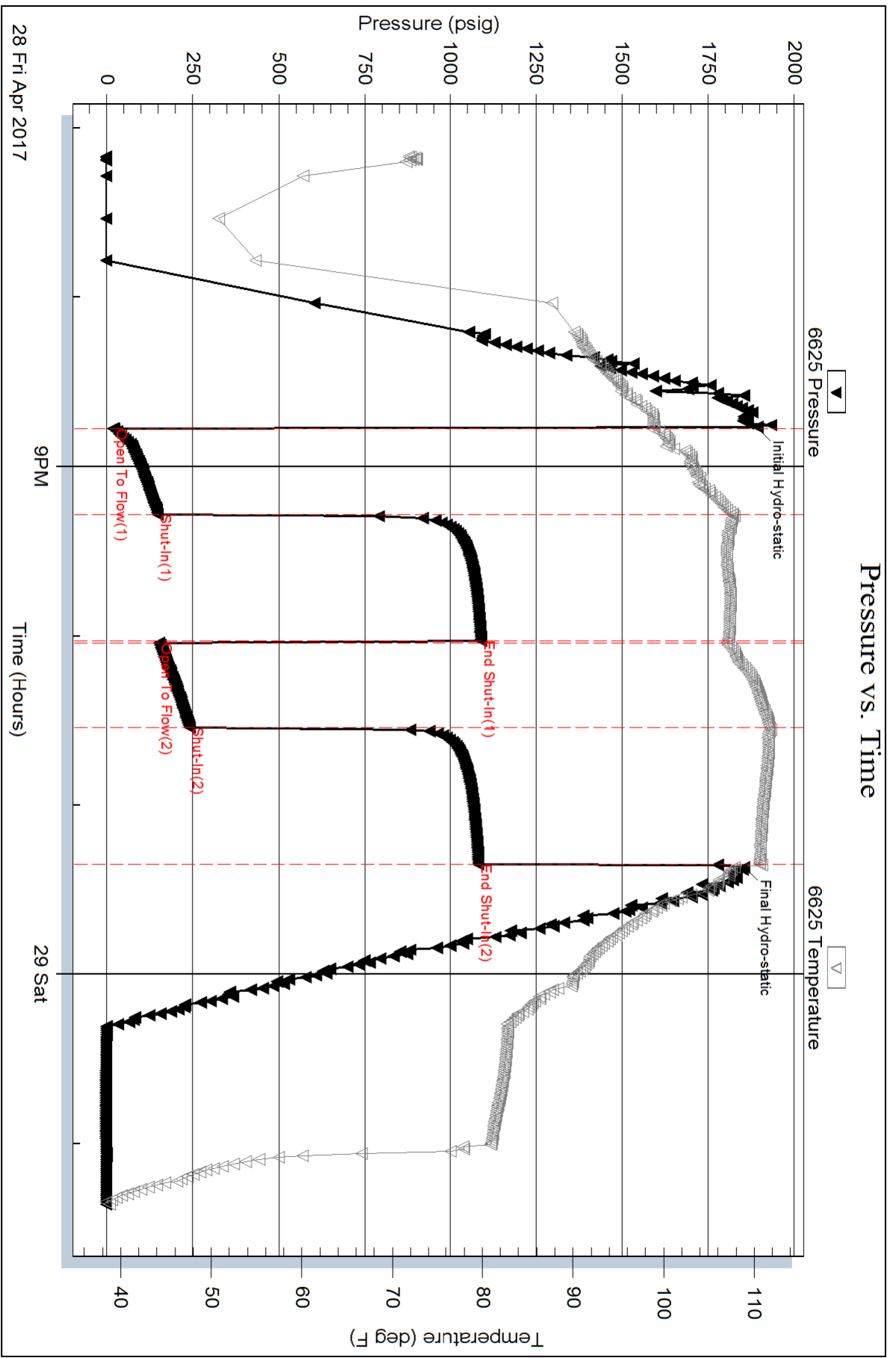
Serial #:

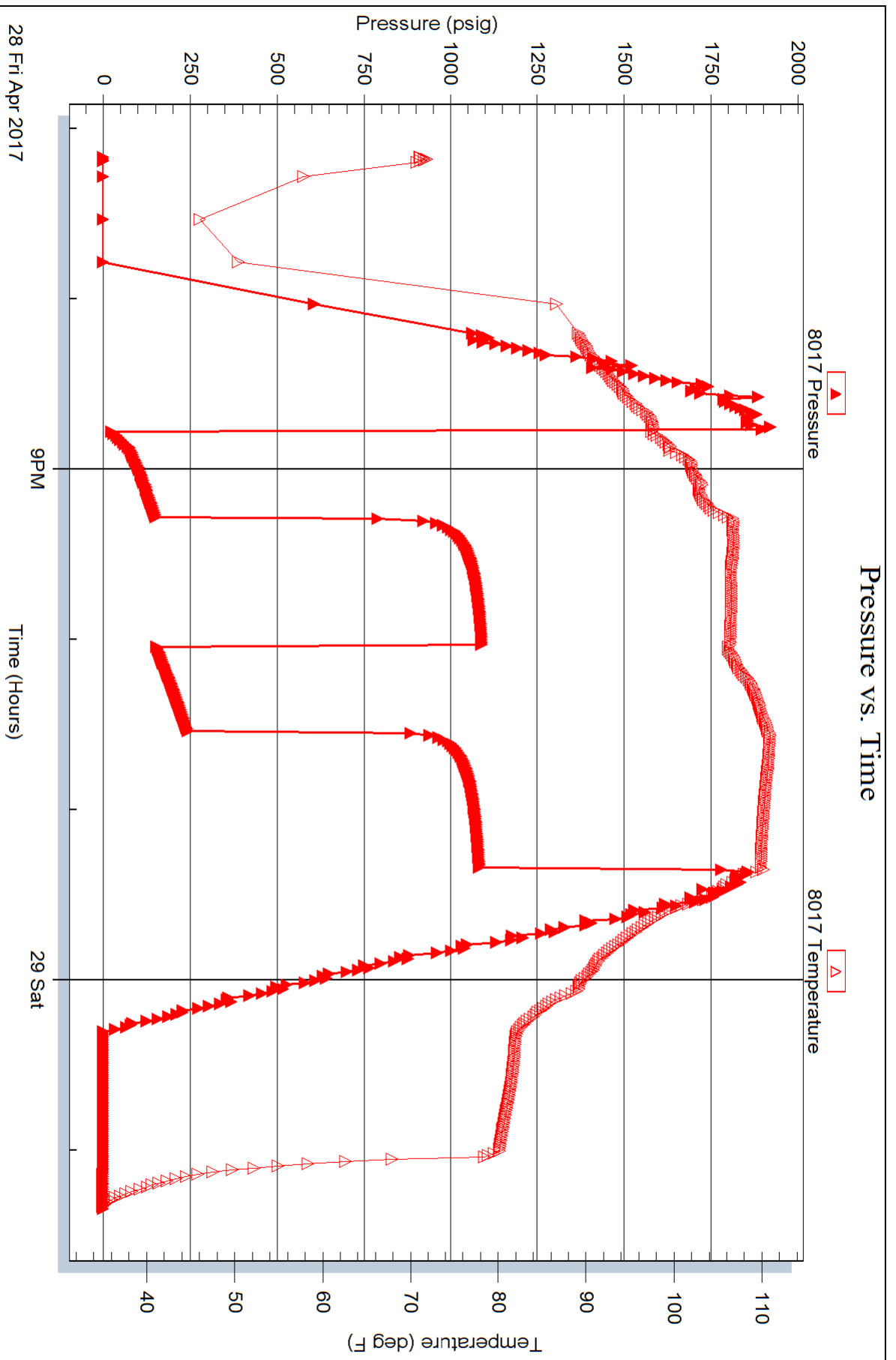
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .485 ohms @ 55.1 deg F

Chlorides = 17,000 ppm







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**26/15s/35w Logan KS**  
**Edwards Trust E#26-1**  
 Job Ticket: 65445 **DST#: 2**  
 Test Start: 2017.05.07 @ 05:50:00

## GENERAL INFORMATION:

Formation: **Marmaton A - B**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 07:41:30 Tester: James Winder  
 Time Test Ended: 12:56:15 Unit No: 83  
 Interval: **4313.00 ft (KB) To 4392.00 ft (KB) (TVD)** Reference Elevations: 3112.00 ft (KB)  
 Total Depth: 4392.00 ft (KB) (TVD) 3107.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

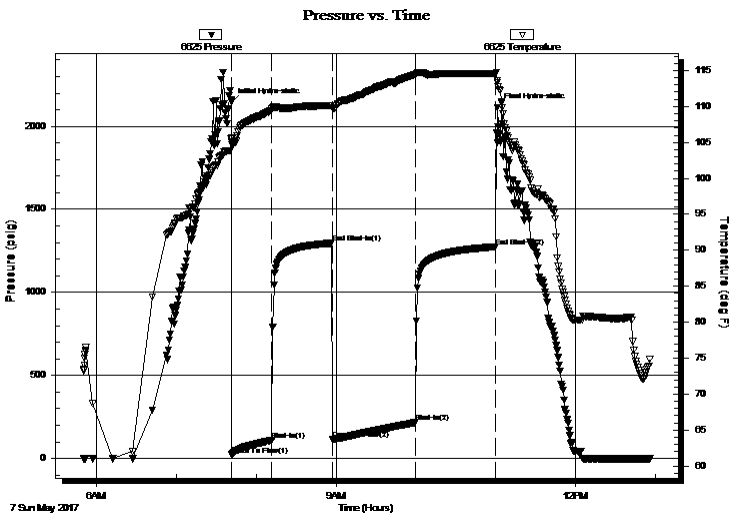
## Serial #: 6625

Inside

Press@RunDepth: 217.45 psig @ 4314.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.05.07 End Date: 2017.05.07 Last Calib.: 2017.05.07  
 Start Time: 05:50:05 End Time: 12:56:14 Time On Btm: 2017.05.07 @ 07:41:15  
 Time Off Btm: 2017.05.07 @ 11:01:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 22 1/4 min.  
 45 - IS: No blow back  
 60 - FF: Blow built to BOB at 26 1/2 min.  
 60 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.07	105.61	Initial Hydro-static
1	21.80	105.08	Open To Flow (1)
31	109.03	109.65	Shut-In(1)
76	1296.60	110.16	End Shut-In(1)
76	114.61	109.88	Open To Flow (2)
139	217.45	114.47	Shut-In(2)
199	1274.17	114.59	End Shut-In(2)
201	2114.45	113.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
118.00	GOMW 32%g, 25%w, 22%m, 21%o	0.58
312.00	GWOCM 46%m, 22%g, 21%o, 11%w	4.38
40.00	GOM 45%m, 45%o, 10%g	0.56

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil, Inc.

**26/15s/35w Logan KS**

PO Box 8050  
Edmond, OK 73083

**Edwards Trust E#26-1**

Job Ticket: 65445      **DST#: 2**

ATTN: Kitt Noah

Test Start: 2017.05.07 @ 05:50:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.49 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

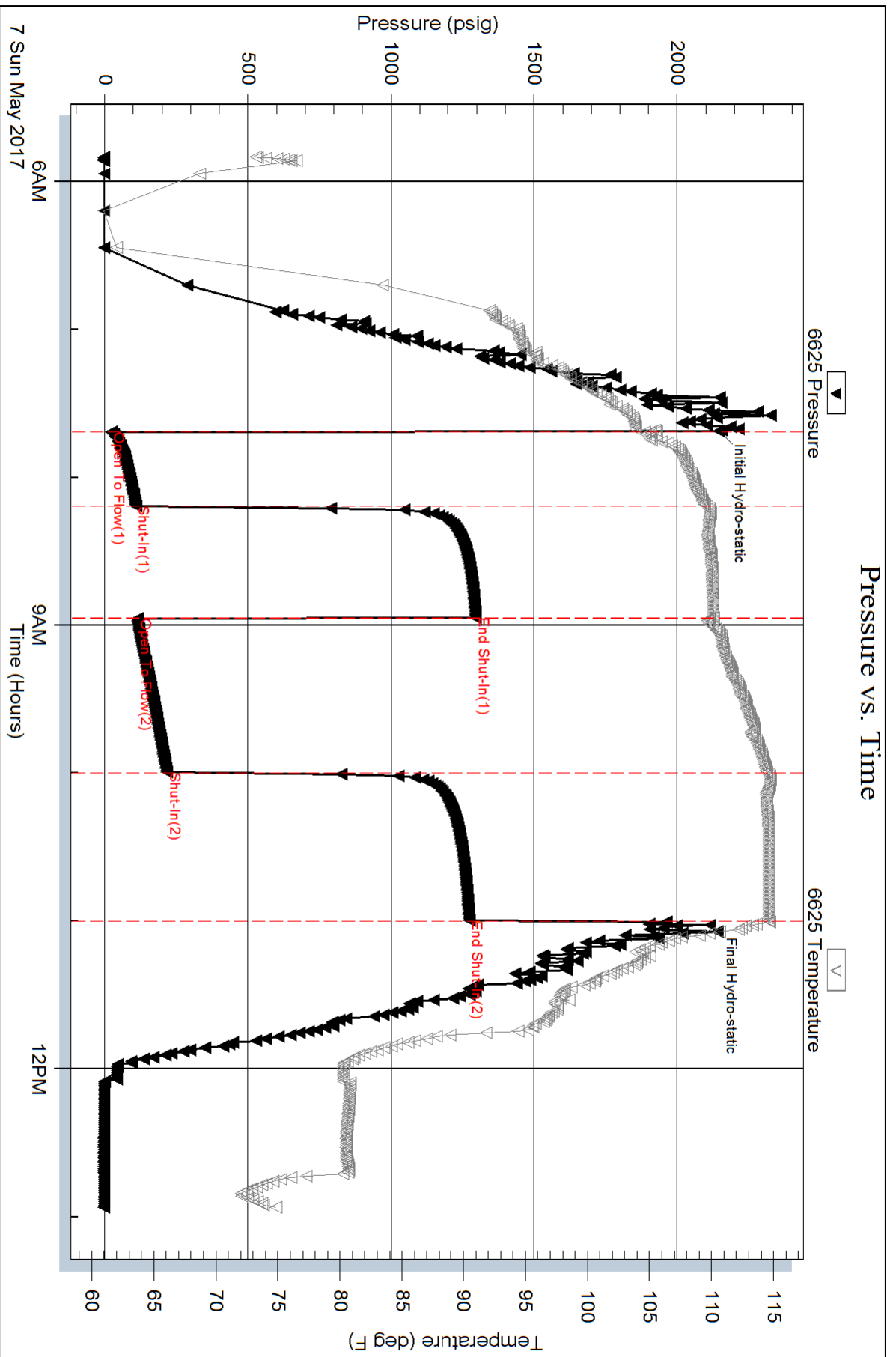
Length ft	Description	Volume bbl
118.00	GOMW 32%g, 25%w, 22%m, 21%o	0.580
312.00	GWOCM 46%m, 22%g, 21%o, 11%w	4.377
40.00	GOM 45%m, 45%o, 10%g	0.561

Total Length: 470.00 ft      Total Volume: 5.518 bbl

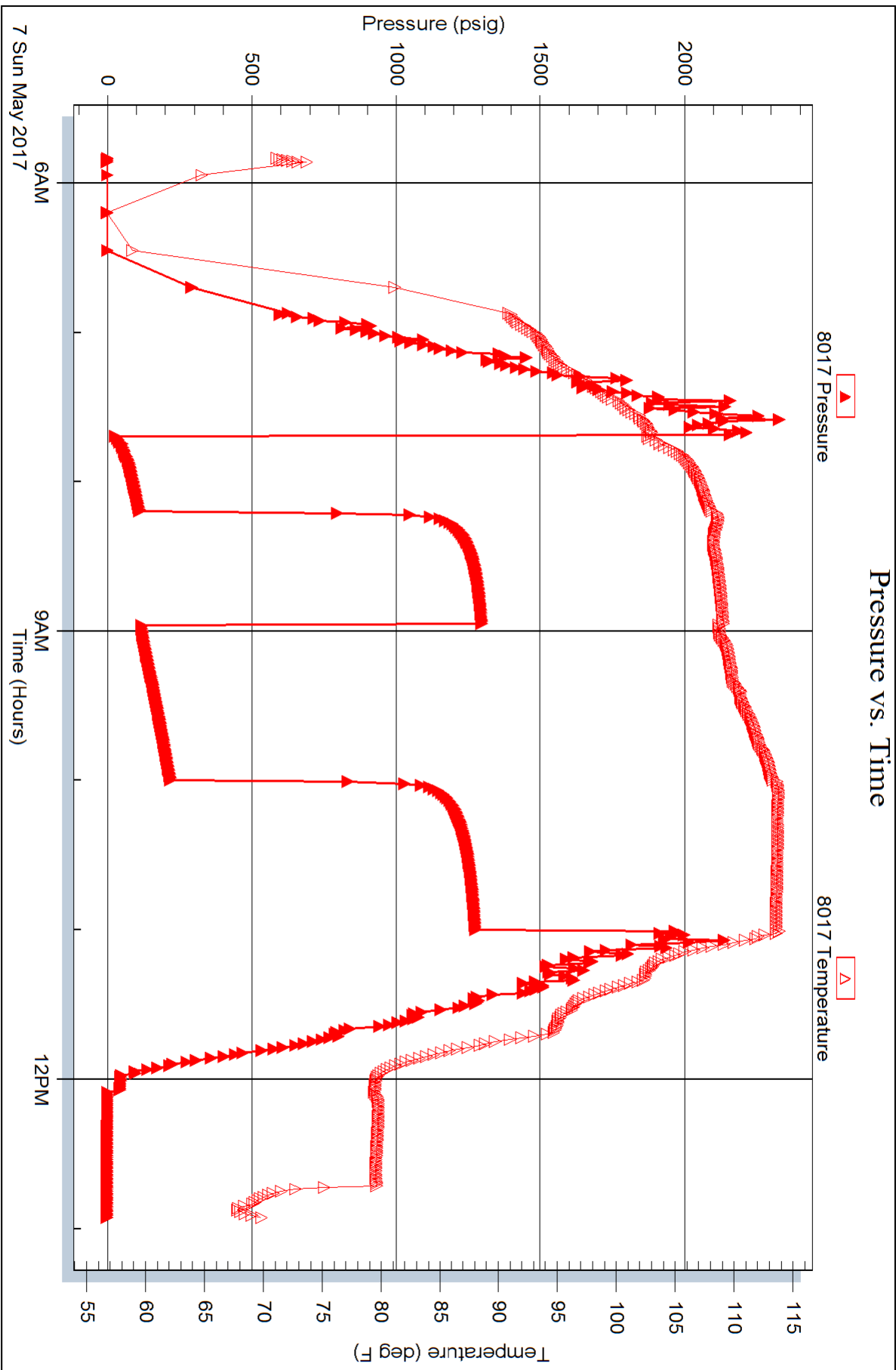
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**26/15s/35w Logan KS**  
**Edwards Trust E#26-1**  
 Job Ticket: 65446 **DST#: 3**  
 Test Start: 2017.05.08 @ 06:42:00

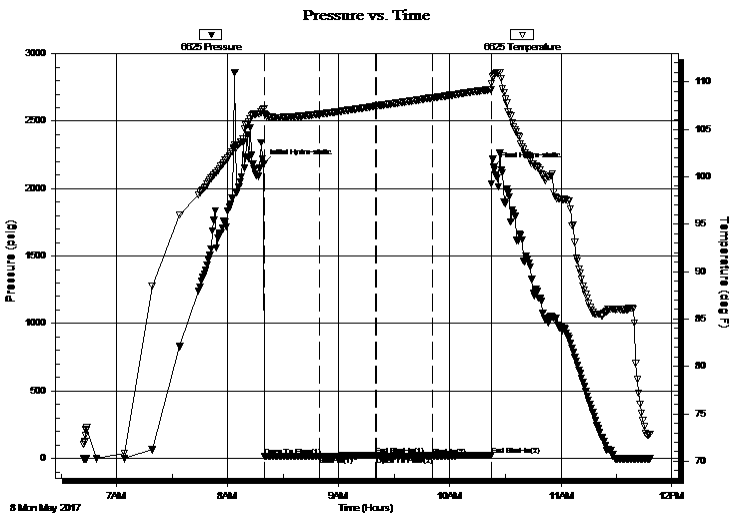
## GENERAL INFORMATION:

Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:19:45  
 Time Test Ended: 11:48:30  
 Interval: **4476.00 ft (KB) To 4512.00 ft (KB) (TVD)**  
 Total Depth: 4512.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 3112.00 ft (KB)  
 3107.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6625 Inside**  
 Press@RunDepth: 19.16 psig @ 4477.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.05.08 End Date: 2017.05.08 Last Calib.: 2017.05.08  
 Start Time: 06:42:05 End Time: 11:48:29 Time On Btm: 2017.05.08 @ 08:19:30  
 Time Off Btm: 2017.05.08 @ 10:23:45

**TEST COMMENT:** 30 - IF: Surface blow, dead at 15 min.  
 30 - IS: No blow  
 30 - FF: No blow  
 30 - FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.50	107.16	Initial Hydro-static
1	15.52	106.67	Open To Flow (1)
30	16.92	106.60	Shut-In(1)
61	23.66	107.45	End Shut-In(1)
61	15.52	107.44	Open To Flow (2)
91	19.16	108.33	Shut-In(2)
123	25.69	109.20	End Shut-In(2)
125	2159.19	110.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /trace oil 100%m	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil, Inc.

**26/15s/35w Logan KS**

PO Box 8050  
Edmond, OK 73083

**Edwards Trust E#26-1**

Job Ticket: 65446

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2017.05.08 @ 06:42:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /trace oil 100%m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

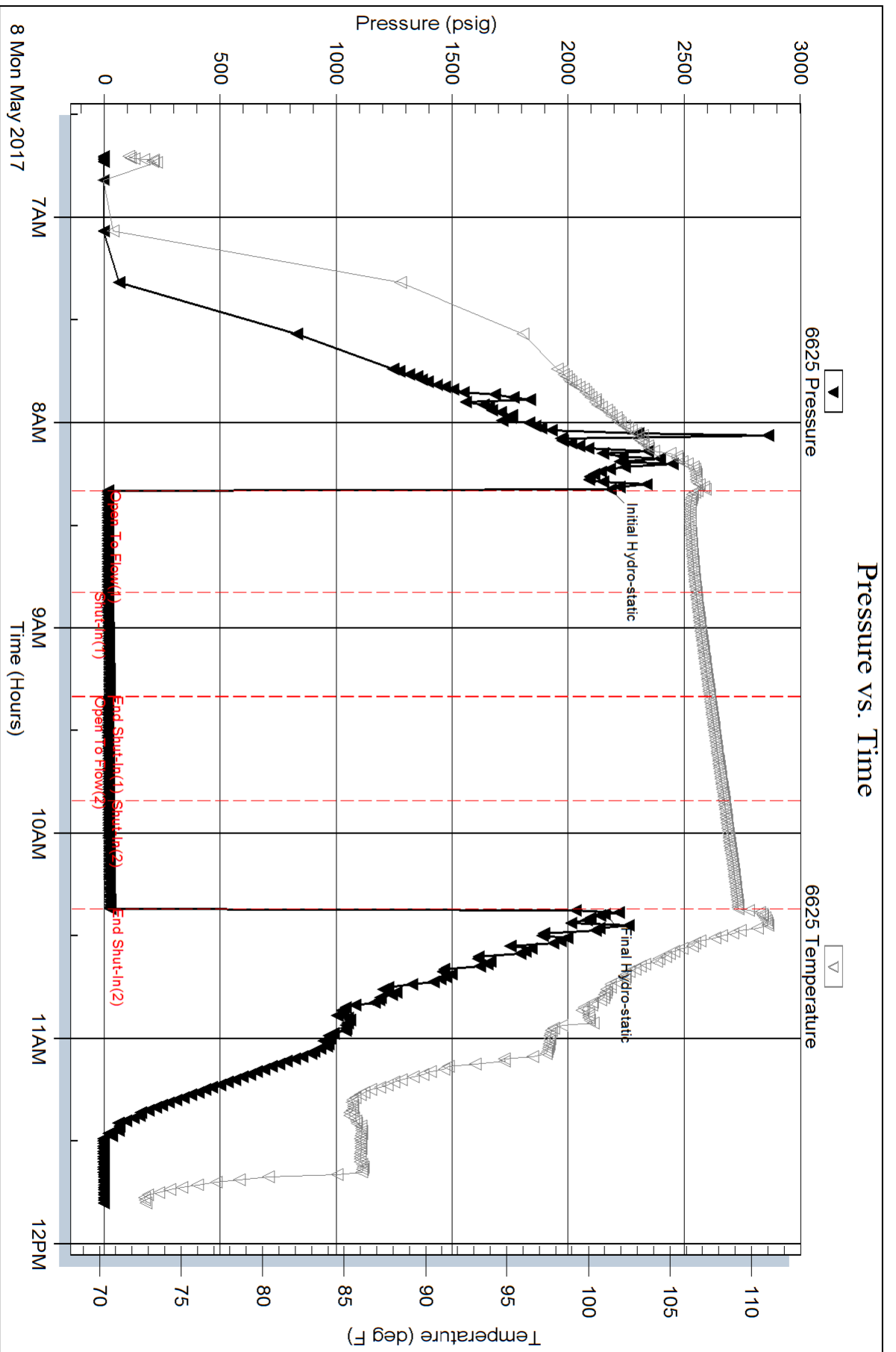
Num Gas Bombs: 0

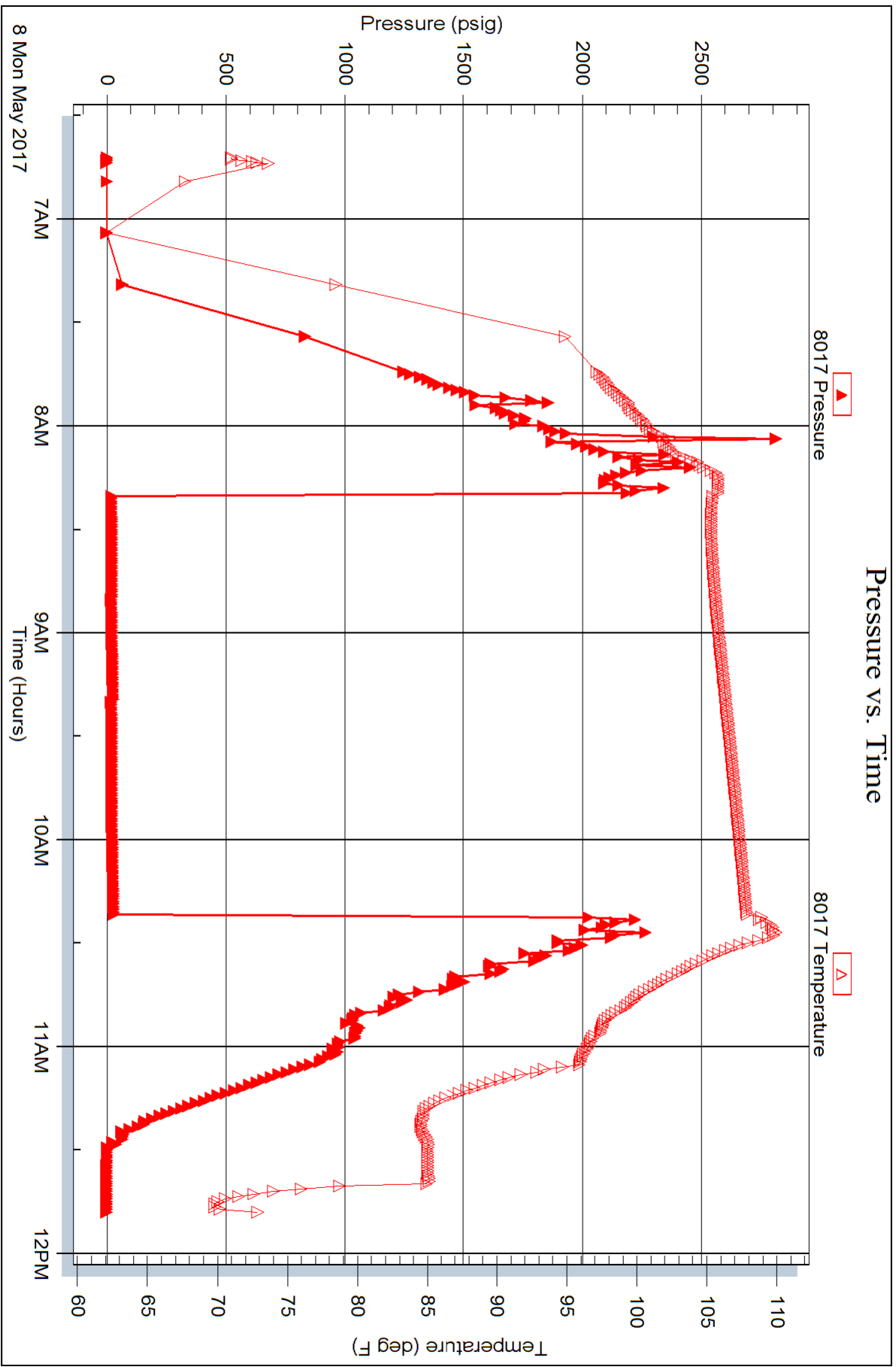
Serial #:

Laboratory Name:

Laboratory Location:

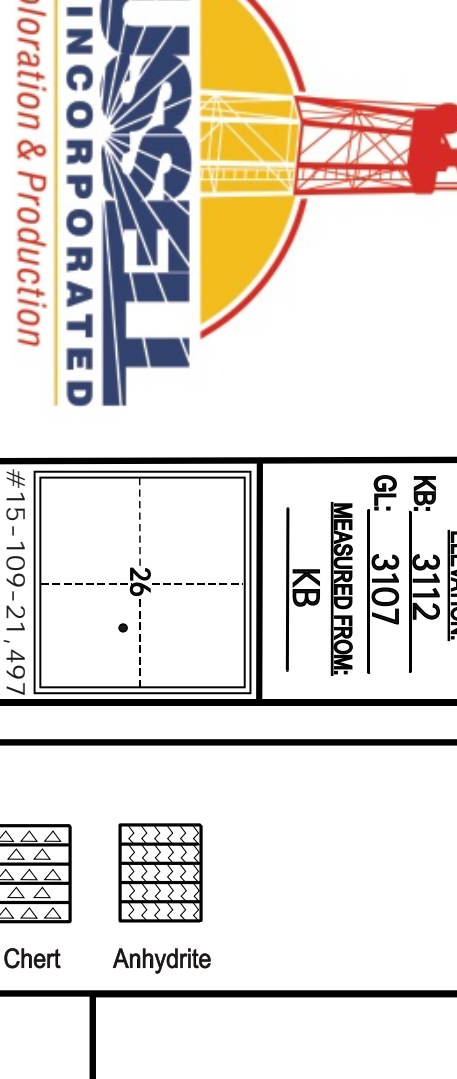
Recovery Comments:





# KITT NOAH

PETROLEUM GEOLOGIST  
Kansas License #229



## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

CASING RECORD:

SURFACE: 8.5/8" set at 338 w/250.0 sk

PRODUCTION: 4 1/2" set at 4722' w/200.0 sk

DU TOOLS: 2445' w/412.2 sk

OPERATOR: Russell Oil, Inc.

LEASE: Edwards Trust "E" WELL NO: #26-1

LOCATION: 2310FS & 1358FE

SEC: 26 TWP: 15S RNG: 35W

SRC: 26

COUNTY: Logan STATE: Kansas

CONTRACTOR: MW Drilling Bar #10

FORM: 4-25-2017 CORP#: 6-10-2017

DATE: 4/30

RD: 4736

SHALES SAVED FROM: 3400 TO TD

HEEBNER: 3922 (-790)

DRILLING TIME SAVED FROM: 3600 TO TD

LANSING: 3922 (-810)

DRILLING TIME SAVED FROM: 3600 TO TD

STARK: 4210 (-1098)

GEOLOGICAL SUPERVISION FROM: 3600 TO TD

B/KC: 4298 (-1186)

MUD UP: 3422 MUD TYPE: CHEMICAL

MARMATON: 4345 (-1233)

DRILL STEM TESTS TAKEN: 3

TRIBOITE - James Winder

PAWNEE: 4438 (-1326)

SERVERS: Gemini Wireline, LLC

CHEROKEE: 4515 (-1403)

MISSISSIPPIAN: 4678 (-1566)

CONVERTED DENSITY NEUTRON MICROSENSITIVITY

RD: 4736

TD: 4736 (-1624)

FORM: 4-25-2017 CORP#: 6-10-2017

DATE: 4/30

RD: 4736

SHALES SAVED FROM: 3400 TO TD

HEEBNER: 3922 (-790)

DRILLING TIME SAVED FROM: 3600 TO TD

LANSING: 3922 (-810)

DRILLING TIME SAVED FROM: 3600 TO TD

STARK: 4210 (-1098)

GEOLOGICAL SUPERVISION FROM: 3600 TO TD

B/KC: 4298 (-1186)

MUD UP: 3422 MUD TYPE: CHEMICAL

MARMATON: 4345 (-1233)

DRILL STEM TESTS TAKEN: 3

TRIBOITE - James Winder

PAWNEE: 4438 (-1326)

SERVERS: Gemini Wireline, LLC

CHEROKEE: 4515 (-1403)

MISSISSIPPIAN: 4678 (-1566)

CONVERTED DENSITY NEUTRON MICROSENSITIVITY

RD: 4736

TD: 4736 (-1624)

FORM: 4-25-2017 CORP#: 6-10-2017

DATE: 4/30

RD: 4736

SHALES SAVED FROM: 3400 TO TD

HEEBNER: 3922 (-790)

DRILLING TIME SAVED FROM: 3600 TO TD

LANSING: 3922 (-810)

DRILLING TIME SAVED FROM: 3600 TO TD

STARK: 4210 (-1098)

GEOLOGICAL SUPERVISION FROM: 3600 TO TD

B/KC: 4298 (-1186)

MUD UP: 3422 MUD TYPE: CHEMICAL

MARMATON: 4345 (-1233)

DRILL STEM TESTS TAKEN: 3

TRIBOITE - James Winder

PAWNEE: 4438 (-1326)

SERVERS: Gemini Wireline, LLC

CHEROKEE: 4515 (-1403)

MISSISSIPPIAN: 4678 (-1566)

CONVERTED DENSITY NEUTRON MICROSENSITIVITY

RD: 4736

TD: 4736 (-1624)

FORM: 4-25-2017 CORP#: 6-10-2017

DATE: 4/30

RD: 4736

SHALES SAVED FROM: 3400 TO TD

HEEBNER: 3922 (-790)

DRILLING TIME SAVED FROM: 3600 TO TD

LANSING: 3922 (-810)

DRILLING TIME SAVED FROM: 3600 TO TD

STARK: 4210 (-1098)

GEOLOGICAL SUPERVISION FROM: 3600 TO TD

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8055  
7949

TICKET NUMBER 51742  
LOCATION Dahly 45  
FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 810143 VS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-25-17	7043	Edwards Trust 26-1	26	15S	35W	Logan
CUSTOMER Russell Oil			Pence 65 W. Rd 22W Road 23 200 4 1/2 N			
MAILING ADDRESS P.O. Box 8050			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Edmond			753	Miles		
STATE OK			460			
ZIP CODE 73013			777F-100	TRANS W		

JOB TYPE Surface HOLE SIZE 12 1/2" HOLE DEPTH 338' CASING SIZE & WEIGHT 8 5/8" 29.4  
 CASING DEPTH 338' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL. 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 20'  
 DISPLACEMENT 20 1/4 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meetings and cleanup on WW drilling R#10 Circulate casing  
Mix 250sx Surface blend TC Class A cement with 38 calcium 28 gal displaced 20 bbls  
Shut in cement did Circulate 35 bbls to pit

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0771	1	PUMP CHARGE	1150.00	1150.00
CE00078	45	MILEAGE	7.15	321.75
CE07109	11.75 Tons	Ton Mileage delivery	1.75	205.31
CC5871	250 2x	Surface blend TC	23.00	5750.00
			Subtotal	8147.06
			less 35% discount	2851.47
			Subtotal	5295.59
			SALES TAX	299.00
			ESTIMATED TOTAL	5594.59

Revis 3/37

AUTHORIZATION Rich Shaw 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.





**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

TTMH (105)

FIELD SERVICE TICKET  
1718 15107 A

1 of 2

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 5-10-17 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Russell Oil, Inc		LEASE EDWARDS trust WELL NO. 26-1							
ADDRESS		COUNTY Logan STATE KS							
CITY STATE		SERVICE CREW MATTHEW MCGRAW, CLYMER, COBB							
AUTHORIZED BY		JOB TYPE: 2-42 4 1/2 2 stage long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	5-9-17 DATE	AM PM	TIME
19843	2.5							AM	10:00
						ARRIVED AT JOB		AM	3:43
19860	.5					START OPERATION	5:10	AM	12:01
19918	.5					FINISH OPERATION		AM	2:30
19959	.5					RELEASED		AM	4:00
						MILES FROM STATION TO WELL	200		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA-2 cmt	sq	200		3,400.00
CP101	A-con Blend	sq	420		7,560.00
CP101	A-con Blend	sq	30		540.00
CC 109	CAL. chloride	lb	1185		1,244.25
CC 102	Cellulose	lb	169		625.30
CC 201	Silicone	lb	999		669.33
CC 111	SALT	lb	920		460.00
CC 113	Gypsum	lb	940		705.00
CC 105	C-41P	lb	47		188.00
CC 129	F19 322	lb	151		1,132.50
CC 116	MAY Chem	lb	564		1,522.80
CF 1250	Autokill FLOAT Sho	ea	1		330.00
CF 450	Two stage cmt collar	ea	1		3,500.00
CF 1650	741111200	ea	7		595.00
CF 1900	BASER	ea	2		540.00
CC 155	Superflush #	gal	1000		1,500.00

SUB TOTAL  
DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE Mike Muttal

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer Kycsell oil, inc	Lease No.	Date 5-10-17
Lease EDWARDS TRUST E	Well # 26-1	
Field Order # 15107	Station PIUFF	Casing 4 1/2
Type Job Z-42 4 1/2 25945-1049 string	Depth RTD 4730	County LOGAN
	Formation LTD 4736	State KI
		Legal Description 26-155-35W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid 200 SKS AA-2	Shoe 21.33	RATE	PRESS	ISIP
Depth 4722	Depth	From	To	Pre Pad 420 SKS AA-2	Max 200			5 Min.
Volume 734	Volume	From	To	Pad	Min			10 Min.
Max Press 2,000	Max Press	From	To	Frac	Avg			15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 4710	Packer Depth	From	To	Flush 73	Gas Volume			Total Load

Customer Representative TODD BROWN	Station Manager J. WESTERMAN	Treater M. MATHIAS
Service Units 83353	19843	19903 19860
Driver Names M. BROWN	M. BROWN	C. BROWN

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:45					ON LOCATION / safety meeting
9:10					Ran 4 1/2 1.6" string 21.33' shoe 200 SKS AA-2
					DV tool @ 2445' ST# 57
					BAV on 57+13 (max 2.5' / 207) SK
11:00					CASING ON GEAR
11:10					hook to casing / Break out well (casing)
12:05	200		24	5	Pump down 300' water
12:10	200		5	5	Pump @ 300' water
12:12	200		48	5	Mix 200 SKS AA-2
12:28			4	7	Wash pump + line / pump plug
12:33	200		25	4.5	START displacement (water)
12:37	200		335	5	START mud displacement
12:40	250		52	5	LINE PRESSURE
12:42	300		63	7	slow rate, cool string
12:46	1500		73		Plug down, releases + hold
12:50					Block opening tool
1:07	1400				OP on 700', Pump with 0.5' water
1:25					Mix 420 SKS AA-2 @ 110'

Customer: Russell Oil Inc Lease No. \_\_\_\_\_ Date: 5-10-17  
 Lease: EDWARDS TASTE Well #: 26-1  
 Field Order #: 15107 Station \_\_\_\_\_ Casing \_\_\_\_\_ Depth \_\_\_\_\_ County: LOGAN State: WV  
 Type Job \_\_\_\_\_ Formation \_\_\_\_\_ Legal Description \_\_\_\_\_

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative \_\_\_\_\_ Station Manager \_\_\_\_\_ Treater \_\_\_\_\_

Service Units	Driver Names								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:05		/	4	3	WASH PUMP + LINE, DWP 1 WY
2:07	300	(		5	START DIS.
2:13	400	/	28	3	SLOW RATE
2:16	1500	)			PLUG DOWN, D.D. NOT HOLD
	2000	/			D.D. NOT HOLD
	1,000	)			PUMPING INTO @ 1,000 PSI
		/			SHUT IN WELL
					26H1 CNT TO PIT
					THANK YOU!
					MIKE MATTU
					MIKE MICH 1, CULT