

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](mailto: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	Concorde Resources Corporation
Well Name	RETA 2-27
Doc ID	1372666

All Electric Logs Run

Computer Processed Interpretation
Dual Comp Porosity
Microresistivity
Dual Induction

Form	ACO1 - Well Completion
Operator	Concorde Resources Corporation
Well Name	RETA 2-27
Doc ID	1372666

Tops

Name	Top	Datum
Anydrite	2337	+650
Base	2354	+633
Heebner	3847	-860
Lansing	3888	-901
Stark	4160	-1173
BCK	4266	-1279
Altamont A	4306	-1319
Pawnee	4390	-1403
Cherokee	4464	-1477
Johnson	4510	-1523
Mississippi	4648	-1661
RTD	4658	-1671
LTD	4657	-1670





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63860

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2017.07.29 @ 09:04:20

## GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:50

Time Test Ended: 15:50:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 3923.00 ft (KB) To 3948.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 3948.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 64.32 psig @ 3928.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.29

End Date:

2017.07.29

Last Calib.:

2017.07.29

Start Time: 09:04:25

End Time:

15:50:49

Time On Btm:

2017.07.29 @ 10:52:50

Time Off Btm:

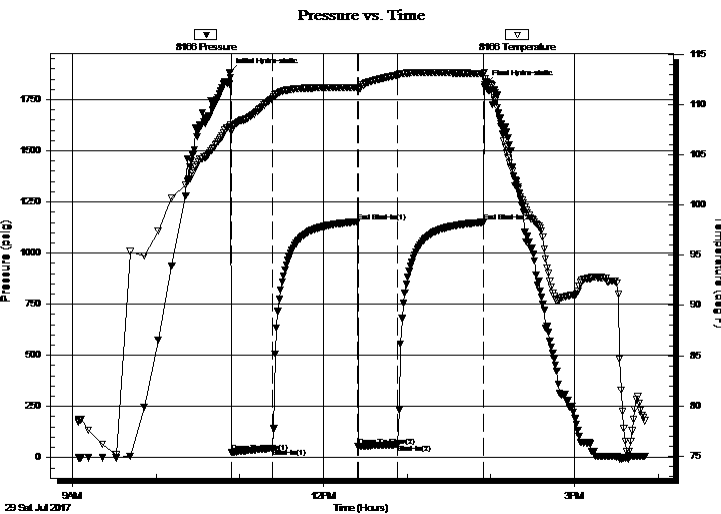
2017.07.29 @ 13:55:50

TEST COMMENT: IF: 1/4 blow built to 2.

IS: No return.

FF: Surface blow built to 2.

FS: No return.



## PRESSURE SUMMARY

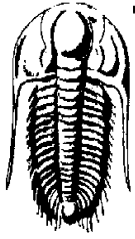
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.93	107.85	Initial Hydro-static
1	25.88	107.43	Open To Flow (1)
31	46.04	110.64	Shut-In(1)
92	1152.68	111.75	End Shut-In(1)
92	53.33	111.47	Open To Flow (2)
121	64.32	112.96	Shut-In(2)
182	1150.17	113.12	End Shut-In(2)
183	1822.00	112.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	ocmw 2%o 68%w 30%m	1.33
32.00	go 40%g 60%o	0.45

## Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63860

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2017.07.29 @ 09:04:20

## GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:50

Time Test Ended: 15:50:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 3923.00 ft (KB) To 3948.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 3948.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8875** Inside

Press@RunDepth: psig @ 3928.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.29

End Date: 2017.07.29

Last Calib.: 2017.07.29

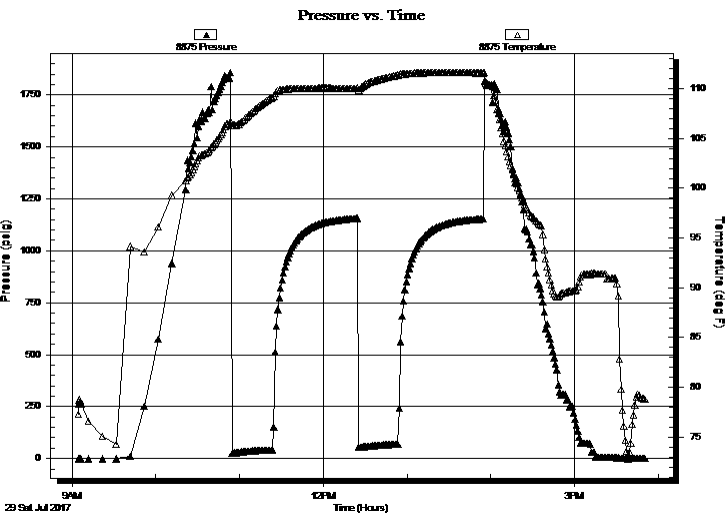
Start Time: 09:04:34

End Time: 15:50:58

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1/4 blow built to 2.  
IS: No return.  
FF: Surface blow built to 2.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	ocmw 2%o 68%w 30%m	1.33
32.00	go 40%g 60%o	0.45

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63860

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2017.07.29 @ 09:04:20

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	ocmw 2%o 68%w 30%m	1.333
32.00	go 40%g 60%o	0.449

Total Length: 127.00 ft      Total Volume: 1.782 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

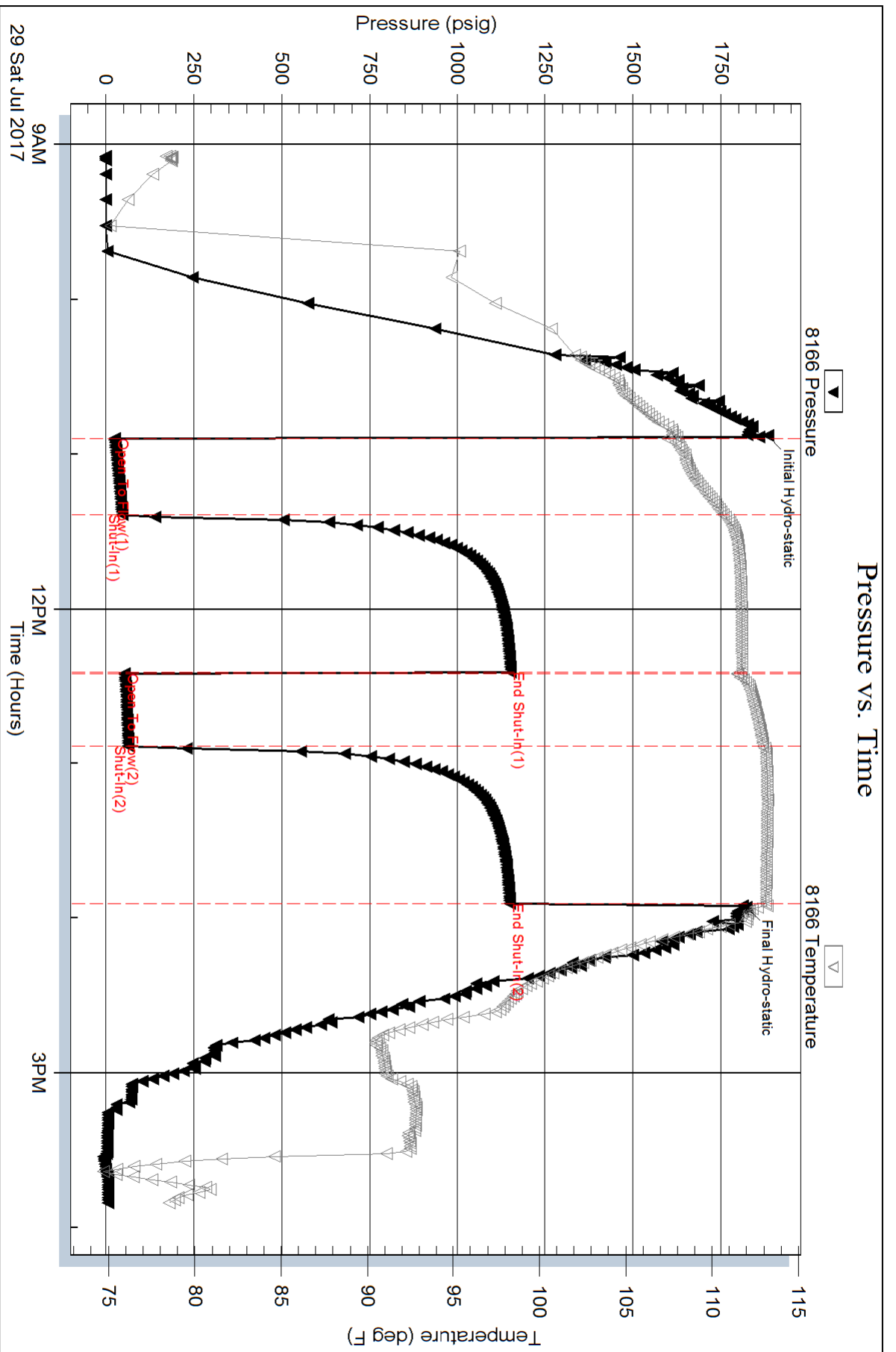
Laboratory Name:

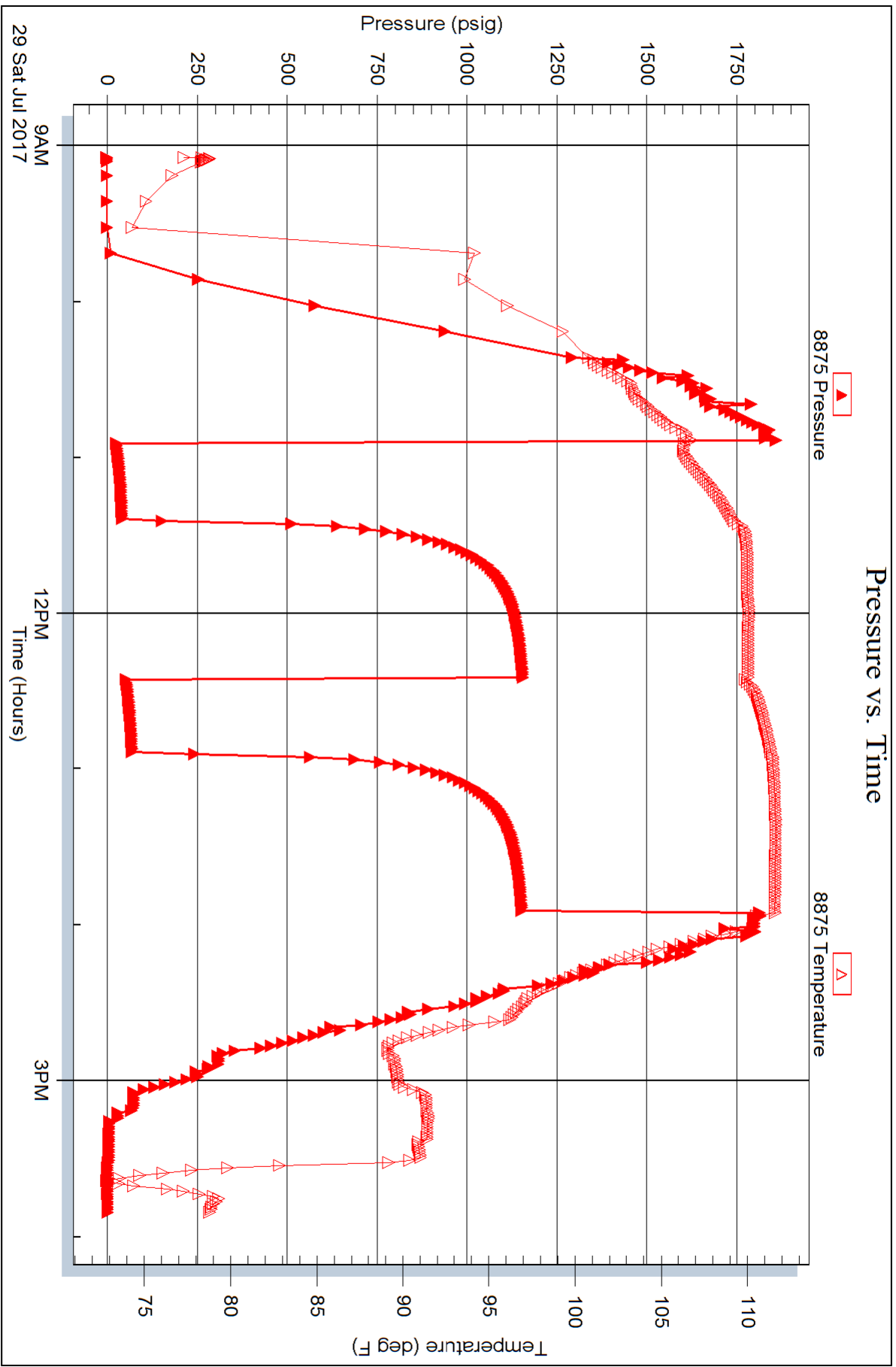
Laboratory Location:

Recovery Comments: 24@90=21

.21@86=26000









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

ATTN: Larry Nicholson

Job Ticket: 63861

**DST#: 2**

Test Start: 2017.07.30 @ 20:35:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:14:00

Time Test Ended: 04:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4161.00 ft (KB) To 4226.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 877.81 psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.30

End Date:

2017.07.31

Last Calib.: 2017.07.31

Start Time: 20:35:05

End Time:

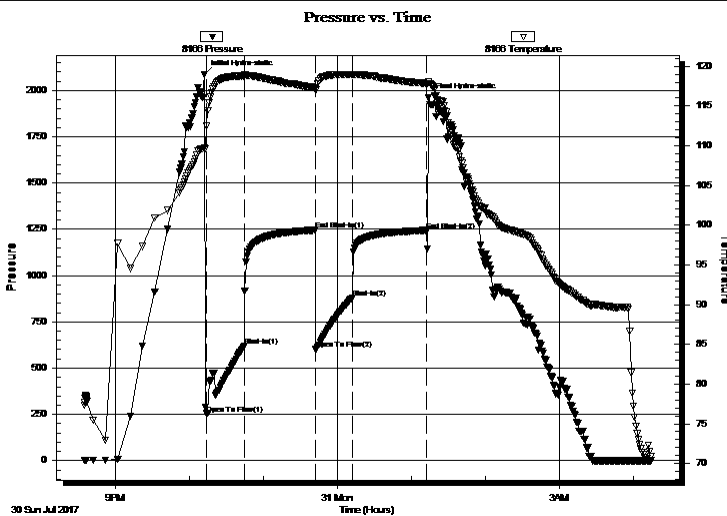
04:14:29

Time On Btm: 2017.07.30 @ 22:12:00

Time Off Btm: 2017.07.31 @ 01:14:00

**TEST COMMENT:** IF: BOB in 2 min.  
IS: No return.  
FF: BOB in 2 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.88	109.74	Initial Hydro-static
2	253.66	112.46	Open To Flow (1)
33	619.07	118.76	Shut-In(1)
90	1245.76	117.31	End Shut-In(1)
91	602.17	117.05	Open To Flow (2)
120	877.81	118.92	Shut-In(2)
181	1244.28	117.85	End Shut-In(2)
182	1962.63	118.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1575.00	water 100%w	22.09
630.00	mcw 90%w 10%m	8.84
320.00	w cm 40%w 60%m	4.49

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63861

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2017.07.30 @ 20:35:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:14:00

Time Test Ended: 04:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4161.00 ft (KB) To 4226.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8875**

**Inside**

Press@RunDepth: psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.30

End Date: 2017.07.31

Last Calib.: 2017.07.31

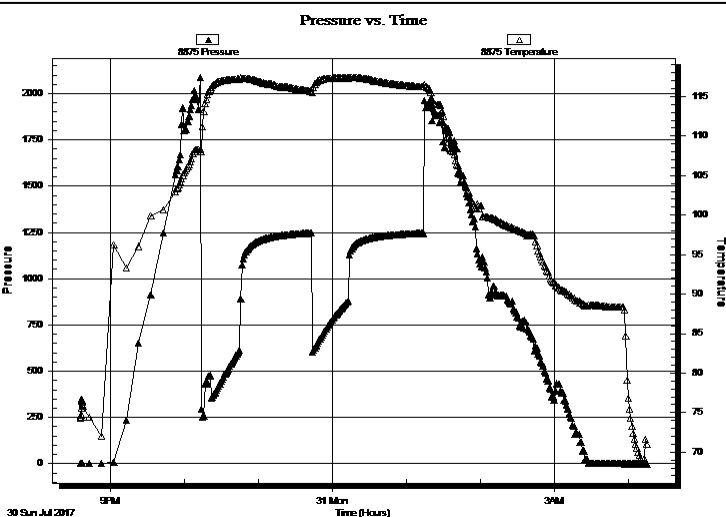
Start Time: 20:35:42

End Time: 04:15:06

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB in 2 min.  
IS: No return.  
FF: BOB in 2 min.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1575.00	water 100%w	22.09
630.00	mcw 90%w 10%m	8.84
320.00	w cm 40%w 60%m	4.49

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63861

**DST#: 2**

ATTN: Larry Nicholson

Test Start: 2017.07.30 @ 20:35:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1575.00	water 100%w	22.093
630.00	mcw 90%w 10%m	8.837
320.00	w cm 40%w 60%m	4.489

Total Length: 2525.00 ft      Total Volume: 35.419 bbl

Num Fluid Samples: 0

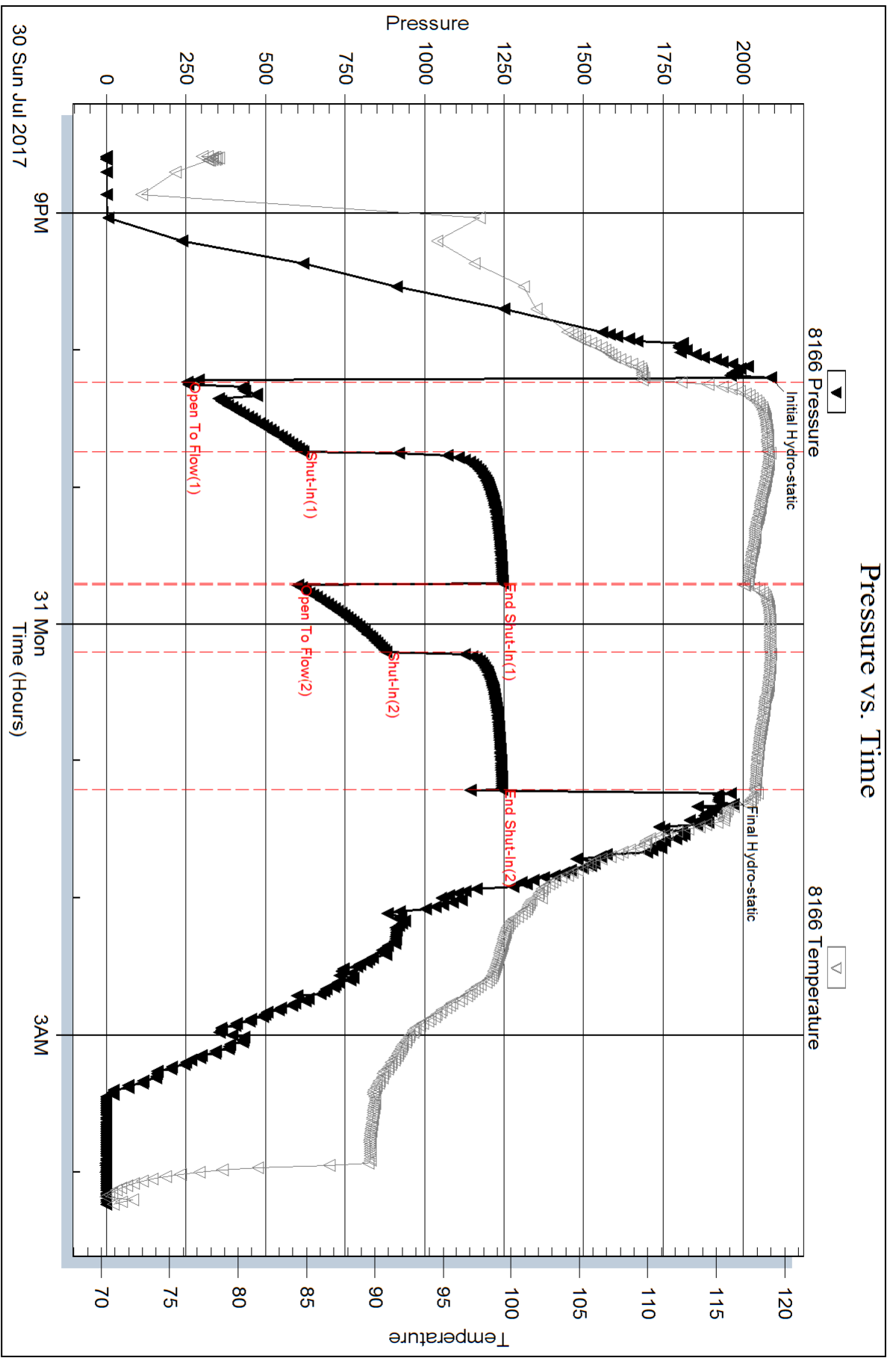
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .23@68=32000



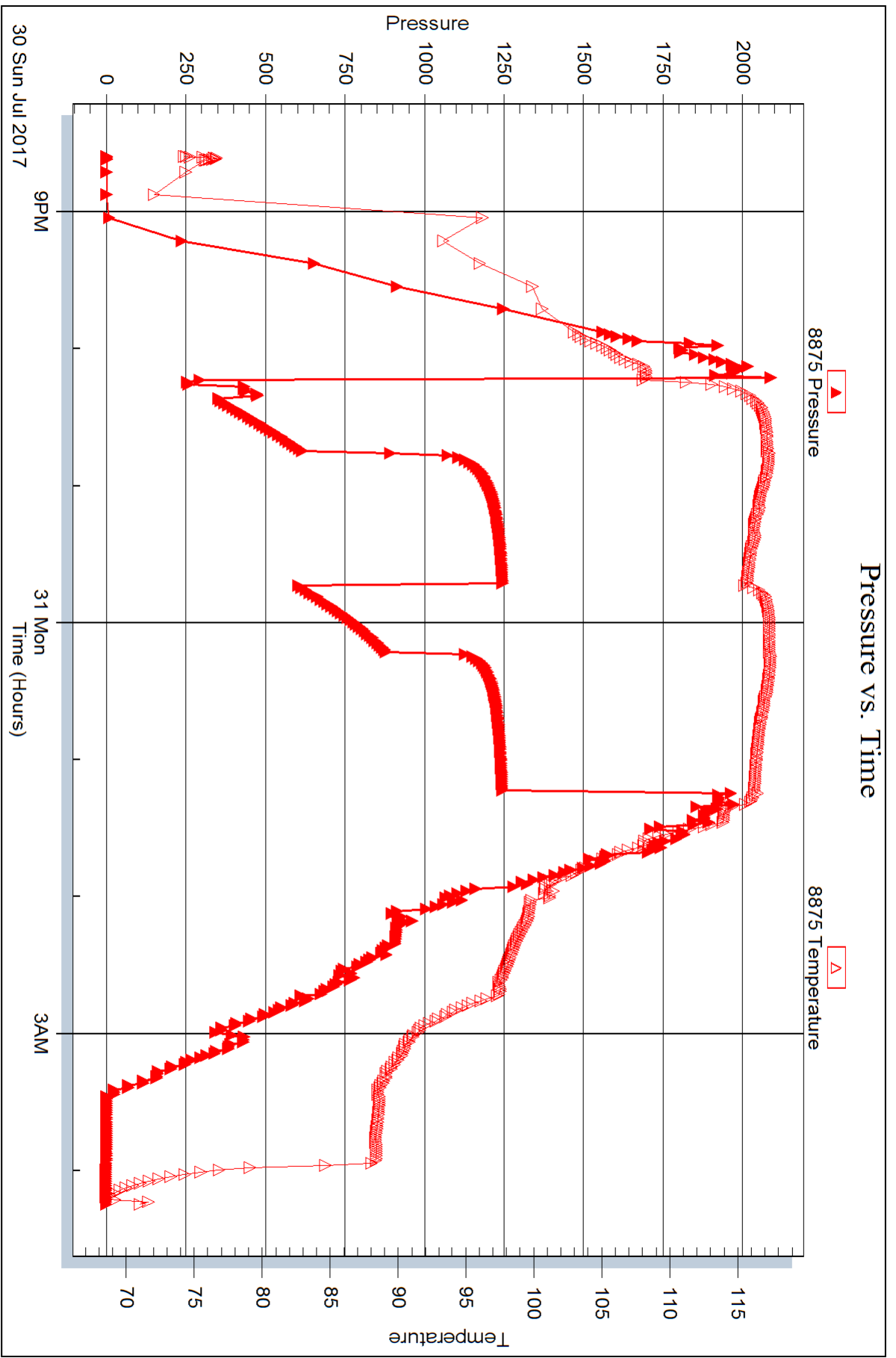
Serial #: 8875

Inside

Concorde Resources Corp

Reta 2-27

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63862

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2017.07.31 @ 18:44:44

## GENERAL INFORMATION:

Formation: **Pleas/ Alt- A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:44

Time Test Ended: 00:12:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4288.00 ft (KB) To 4333.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4333.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 21.36 psig @ 4293.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.31

End Date:

2017.08.01

Last Calib.: 2017.08.01

Start Time: 18:44:49

End Time:

00:12:43

Time On Btm: 2017.07.31 @ 20:40:14

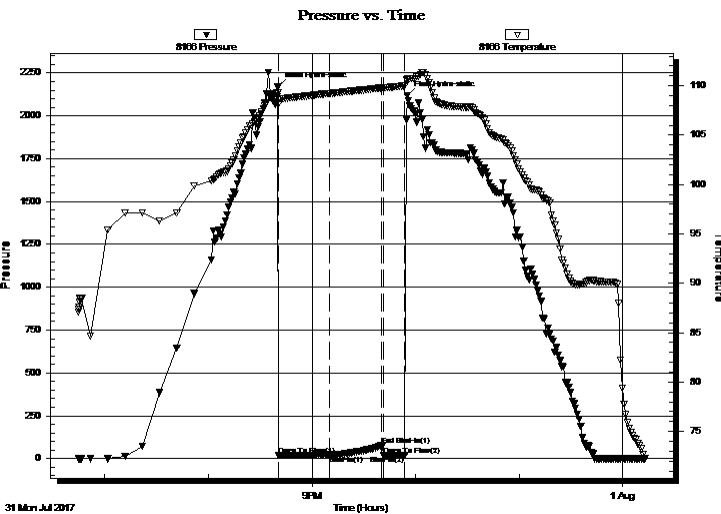
Time Off Btm: 2017.07.31 @ 21:55:14

**TEST COMMENT:** IF: Surface blow died in 6 min.

IS: No return.

FF: No blow.

Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.96	109.26	Initial Hydro-static
1	20.81	108.18	Open To Flow (1)
30	21.36	109.22	Shut-In(1)
60	75.90	109.77	End Shut-In(1)
61	21.09	109.77	Open To Flow (2)
74	20.63	109.99	Shut-In(2)
75	2116.54	110.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud oil spots 100%m	0.06

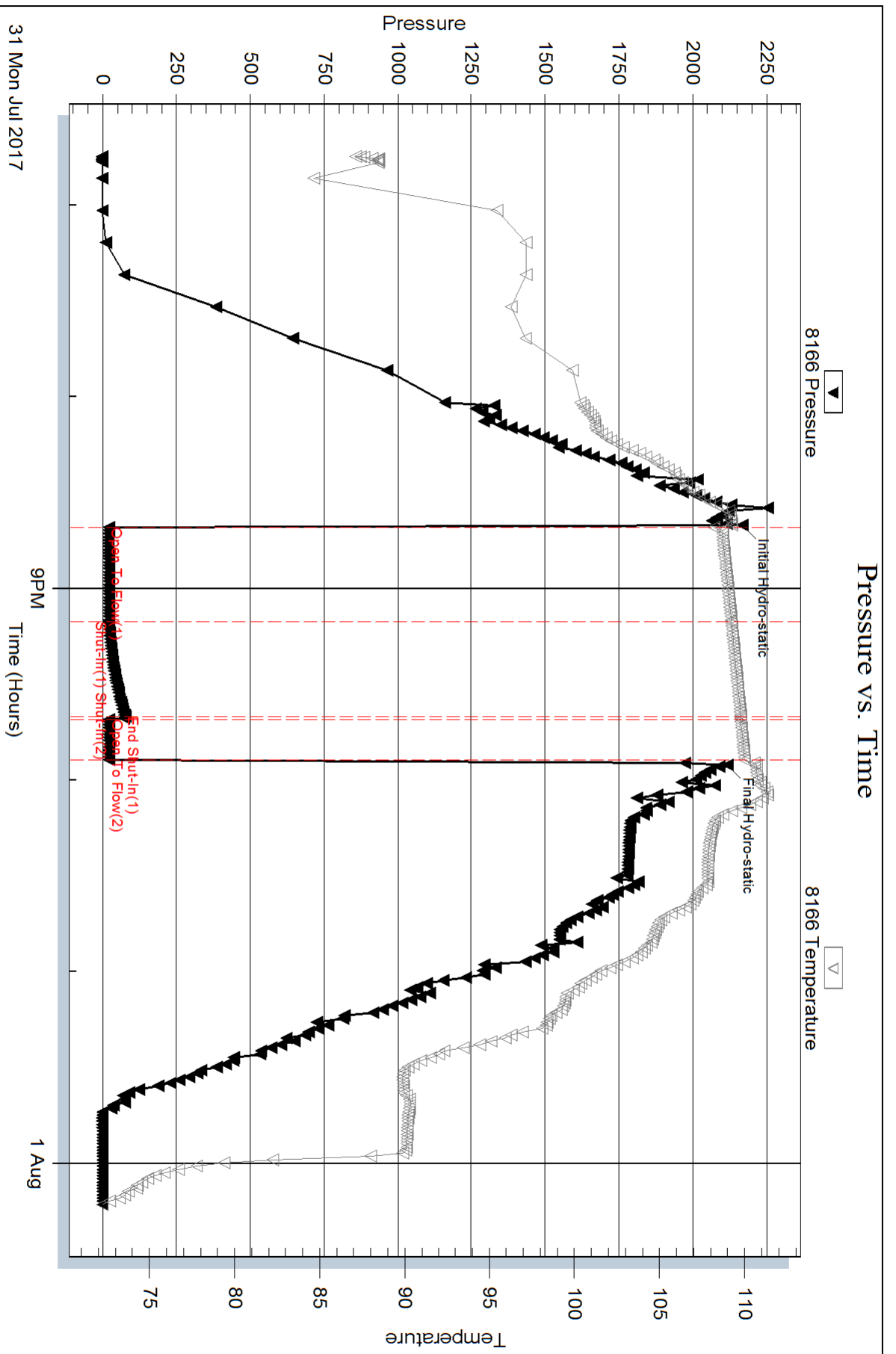
\* Recovery from multiple tests

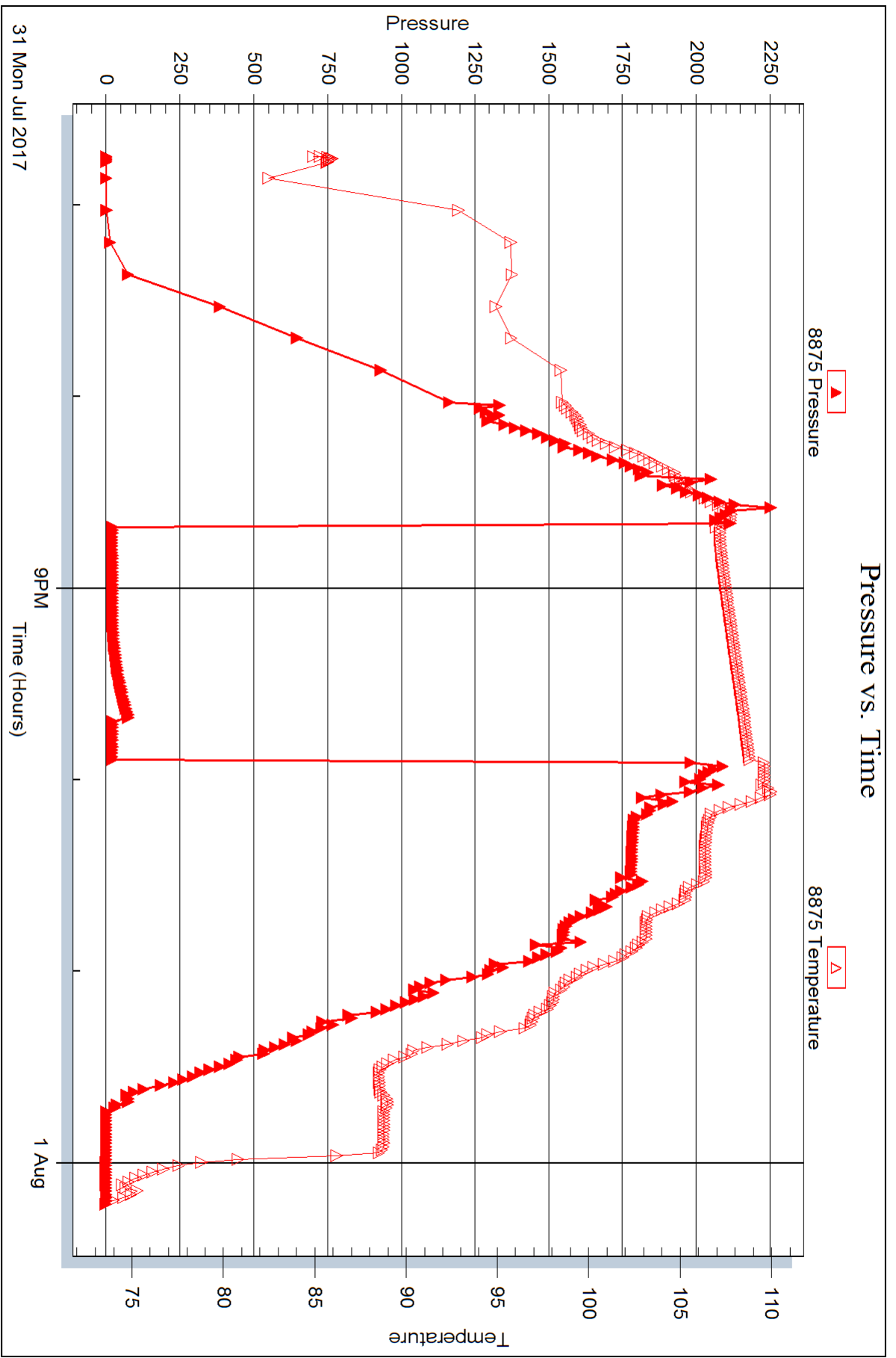
## Gas Rates

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











**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63863

**DST#: 4**

ATTN: Larry Nicholson

Test Start: 2017.08.01 @ 14:00:29

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:06:59

Time Test Ended: 19:22:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4376.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 17.20 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.01

End Date:

2017.08.01

Last Calib.: 2017.08.01

Start Time: 14:00:34

End Time:

19:22:28

Time On Btm: 2017.08.01 @ 16:05:29

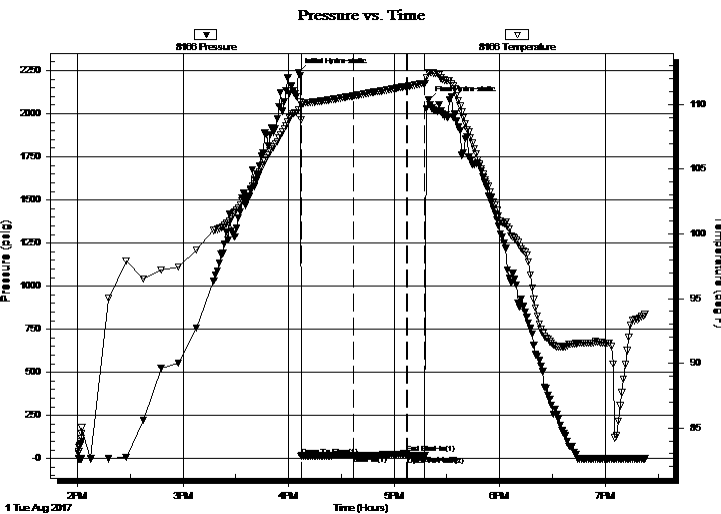
Time Off Btm: 2017.08.01 @ 17:19:29

**TEST COMMENT:** IF: Surface blow died in 5 min.

IS: No return.

FF: No blow.

Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.56	109.60	Initial Hydro-static
2	14.41	108.85	Open To Flow (1)
32	17.20	110.67	Shut-In(1)
62	28.16	111.39	End Shut-In(1)
62	16.32	111.40	Open To Flow (2)
72	17.30	111.63	Shut-In(2)
74	2078.69	112.48	Final Hydro-static

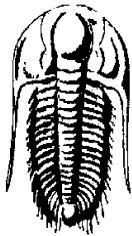
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud oil spots 100%m	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63863 **DST#: 4**

ATTN: Larry Nicholson

Test Start: 2017.08.01 @ 14:00:29

**GENERAL INFORMATION:**

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:06:59

Time Test Ended: 19:22:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4376.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8875**

**Inside**

Press@RunDepth: psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.01

End Date:

2017.08.01

Last Calib.:

2017.08.01

Start Time: 14:00:19

End Time:

19:22:13

Time On Btm:

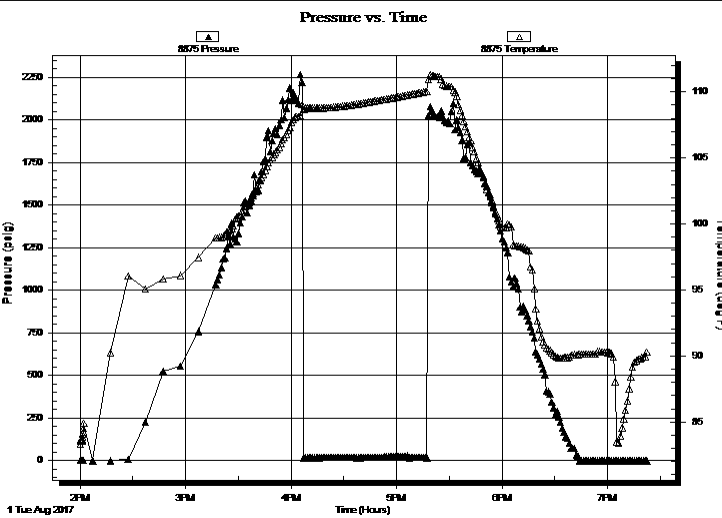
Time Off Btm:

**TEST COMMENT:** IF: Surface blow died in 5 min.

IS: No return.

FF: No blow.

Pulled tool



**PRESSURE SUMMARY**

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

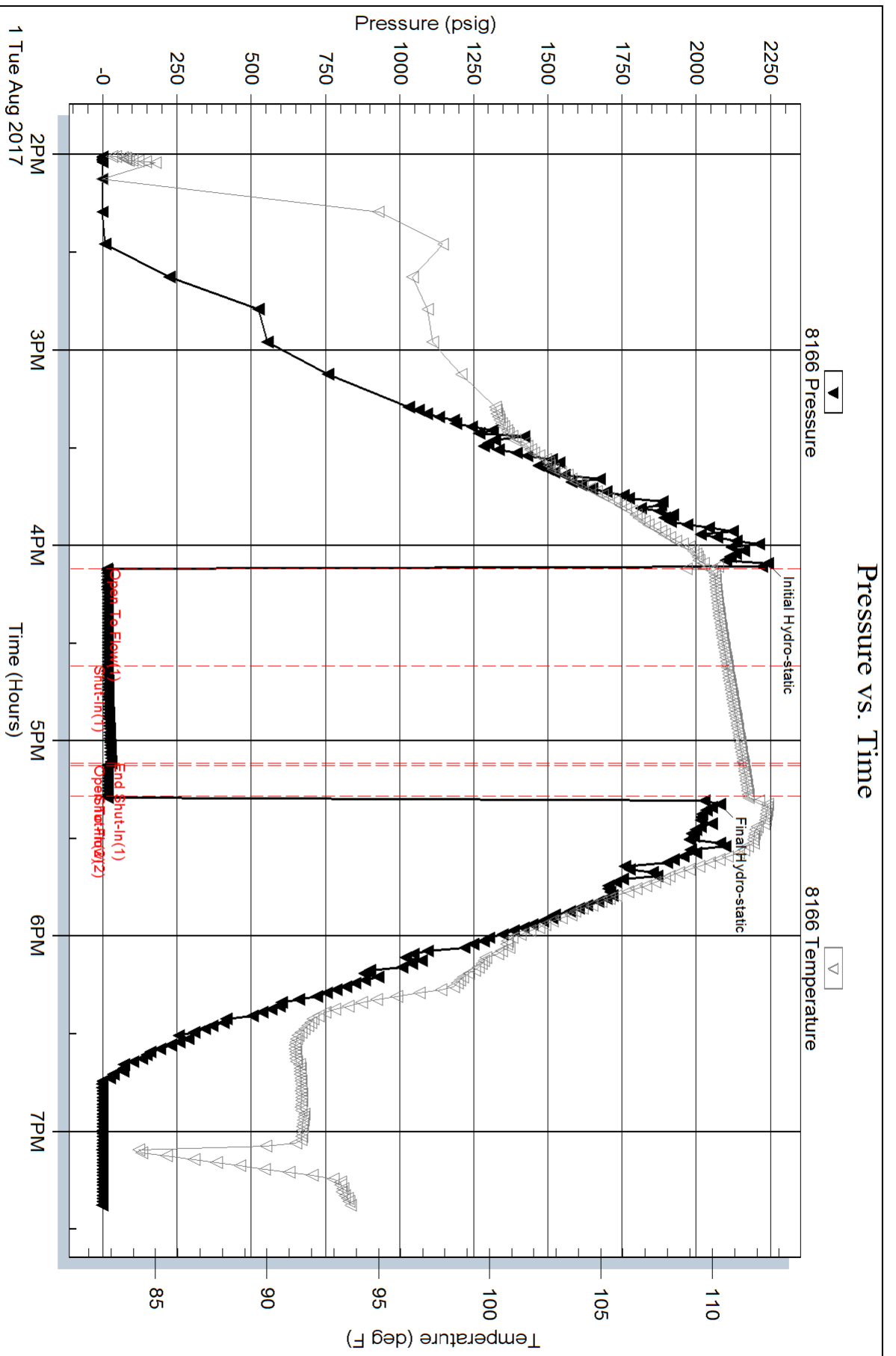
**Recovery**

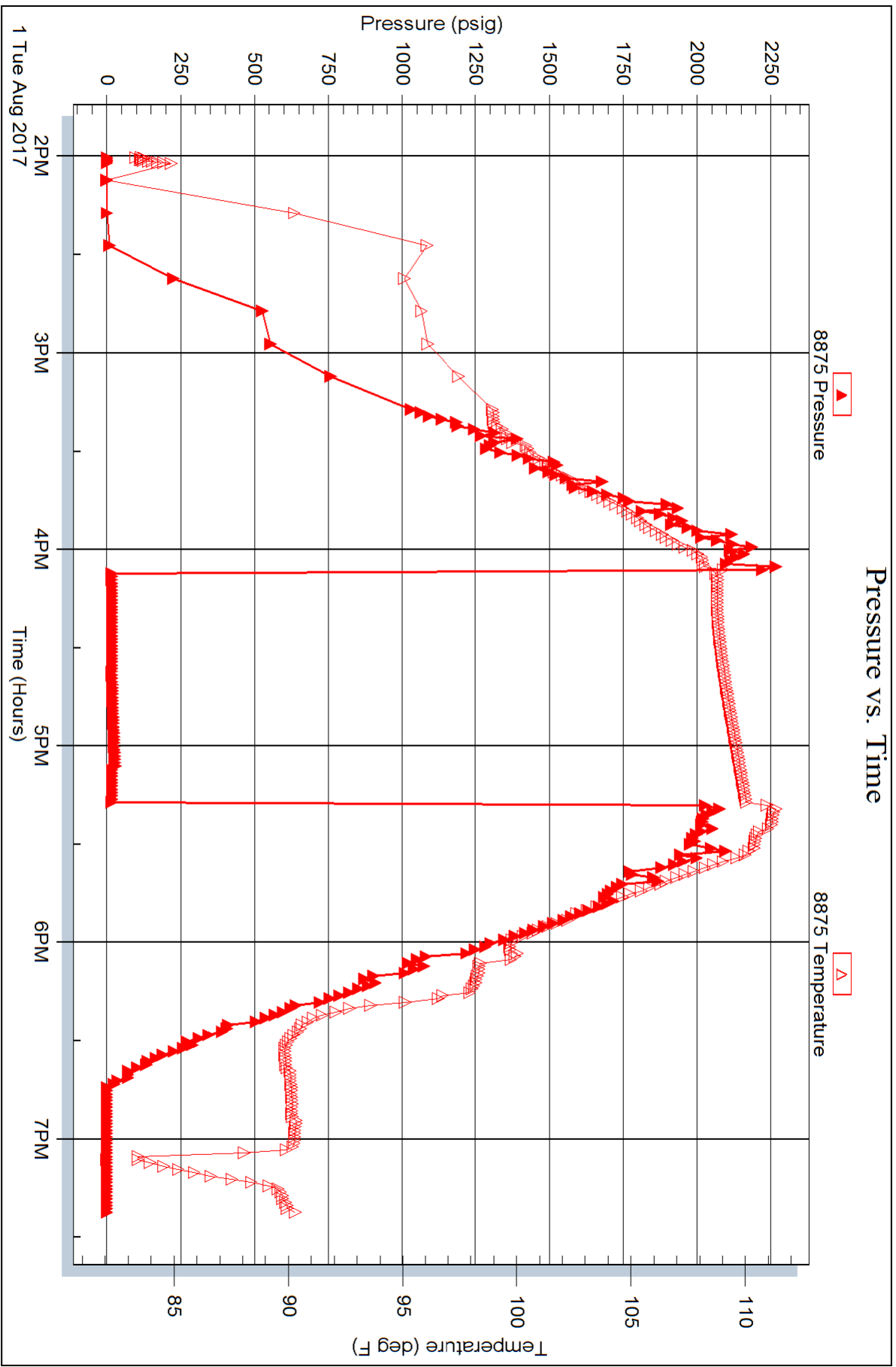
Length (ft)	Description	Volume (bbl)
1.00	mud oil spots 100%m	0.01

\* Recovery from multiple tests

**Gas Rates**

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







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63864

**DST#: 5**

ATTN: Larry Nicholson

Test Start: 2017.08.03 @ 01:07:47

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:24:47  
 Time Test Ended: 06:40:47  
 Interval: **4170.00 ft (KB) To 4204.00 ft (KB) (TVD)**  
 Total Depth: 4657.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2987.00 ft (KB)  
 2977.00 ft (CF)  
 KB to GR/CF: 10.00 ft

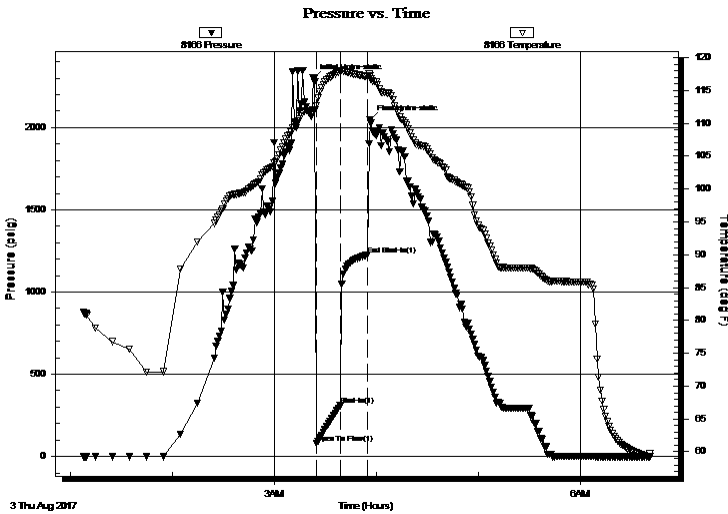
## Serial #: 8166

Outside

Press@RunDepth: 309.22 psig @ 4175.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.03 End Date: 2017.08.03 Last Calib.: 2017.08.03  
 Start Time: 01:07:52 End Time: 06:40:46 Time On Btm: 2017.08.03 @ 03:23:17  
 Time Off Btm: 2017.08.03 @ 03:56:17

TEST COMMENT: IF: BOB in 2 min.  
 IS: No return.  
 FF: Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.33	112.04	Initial Hydro-static
2	81.91	112.70	Open To Flow (1)
16	309.22	117.90	Shut-In(1)
32	1225.49	117.15	End Shut-In(1)
33	2046.36	117.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 90%w 10%m	5.30
302.00	w cm 30%w 70%m	4.24

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63864

**DST#: 5**

ATTN: Larry Nicholson

Test Start: 2017.08.03 @ 01:07:47

### GENERAL INFORMATION:

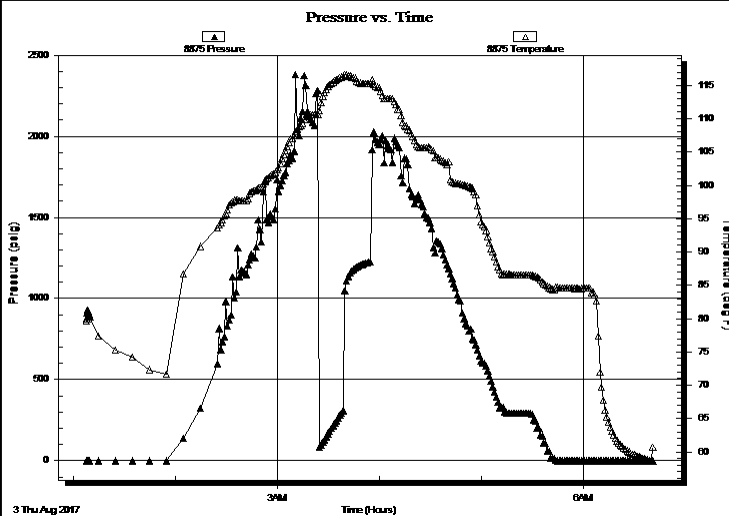
Formation: <b>K</b>			
Deviated: No	Whipstock:	ft (KB)	Test Type: Conventional Straddle (Reset)
Time Tool Opened: 03:24:47			Tester: Brandon Turley
Time Test Ended: 06:40:47			Unit No: 79
<b>Interval: 4170.00 ft (KB) To 4204.00 ft (KB) (TVD)</b>			Reference Elevations: 2987.00 ft (KB)
Total Depth: 4657.00 ft (KB) (TVD)			2977.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good		KB to GR/CF: 10.00 ft

**Serial #: 8875**

**Inside**

Press@RunDepth: psig @ 4175.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2017.08.03	End Date: 2017.08.03
Start Time: 01:07:56	End Time: 06:40:50
	Last Calib.: 2017.08.03
	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF: BOB in 2 min.  
IS: No return.  
FF: Pulled



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 90%w 10%m	5.30
302.00	w cm 30%w 70%m	4.24

### Gas Rates

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

\* Recovery from multiple tests



**TRILLOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63864

**DST#: 5**

ATTN: Larry Nicholson

Test Start: 2017.08.03 @ 01:07:47

### GENERAL INFORMATION:

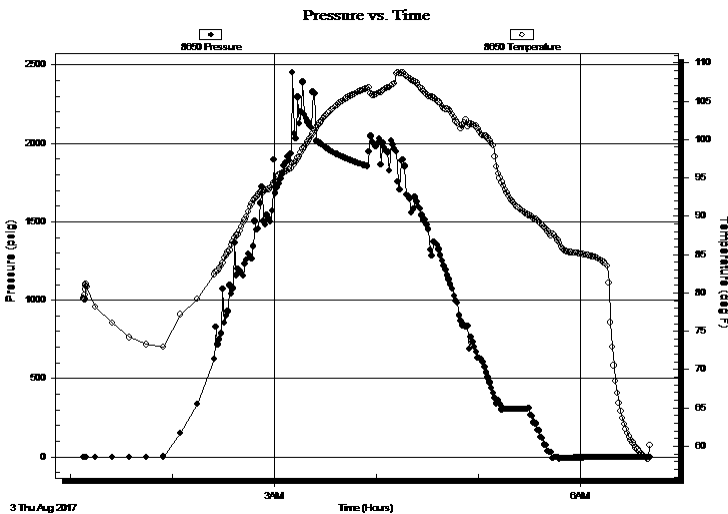
Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:24:47  
 Time Test Ended: 06:40:47  
**Interval: 4170.00 ft (KB) To 4204.00 ft (KB) (TVD)**  
 Total Depth: 4657.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2987.00 ft (KB)  
 2977.00 ft (CF)  
 KB to GR/CF: 10.00 ft

### Serial #: 8650

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.03 End Date: 2017.08.03 Last Calib.: 2017.08.03  
 Start Time: 01:08:00 End Time: 06:40:54 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB in 2 min.  
 IS: No return.  
 FF: Pulled

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 90%w 10%m	5.30
302.00	w cm 30%w 70%m	4.24

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Concorde Resources Corp

**27-15-34 Logan Ks**

111 S. Main St.  
Eufaula, Ok 74432

**Reta 2-27**

Job Ticket: 63864

**DST#: 5**

ATTN: Larry Nicholson

Test Start: 2017.08.03 @ 01:07:47

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	mcw 90%w 10%m	5.302
302.00	w cm 30%w 70%m	4.236

Total Length: 680.00 ft      Total Volume: 9.538 bbl

Num Fluid Samples: 0

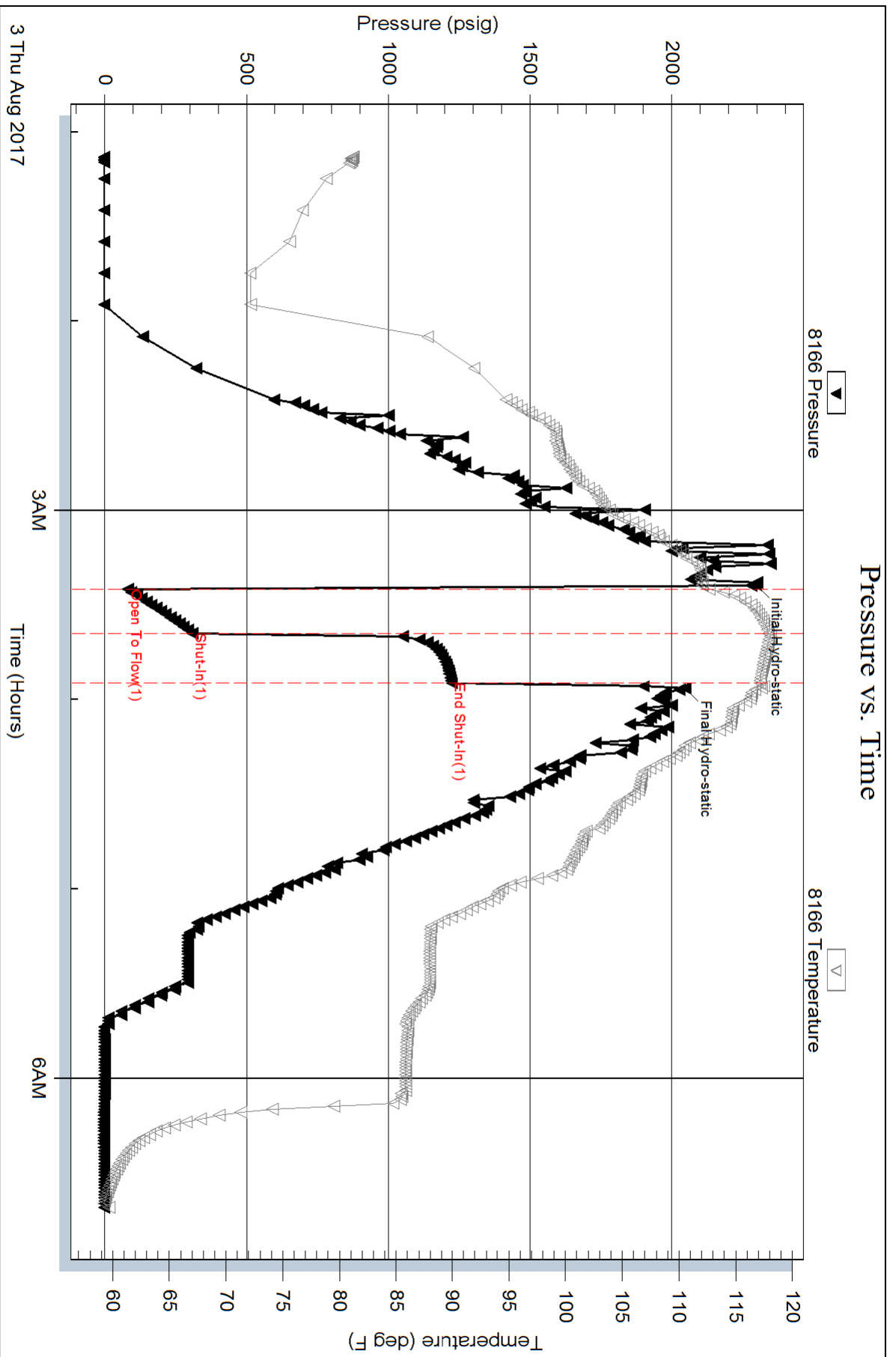
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .26@60=32000



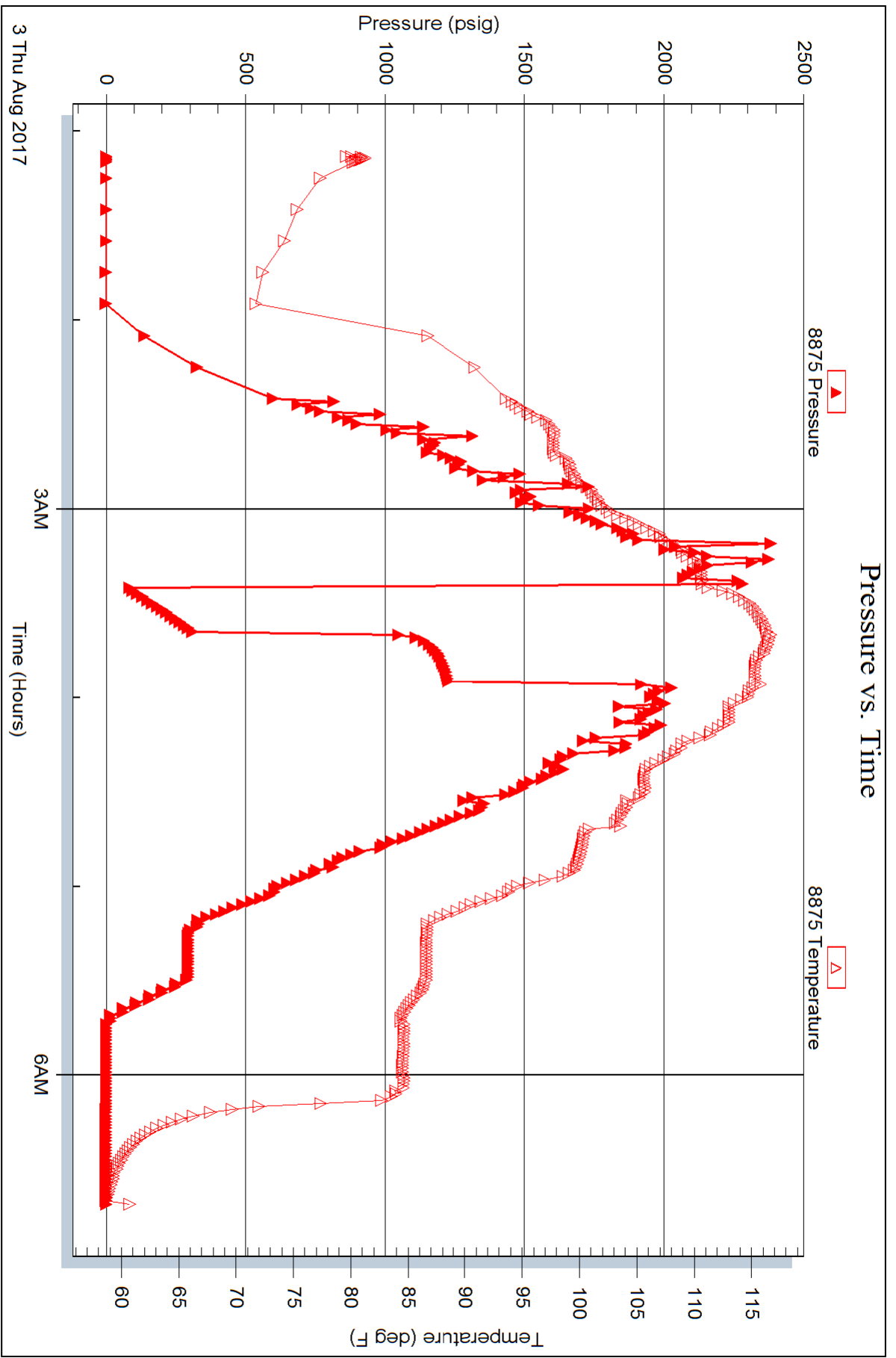
Serial #: 8875

Inside

Concorde Resources Corp

Reta 2-27

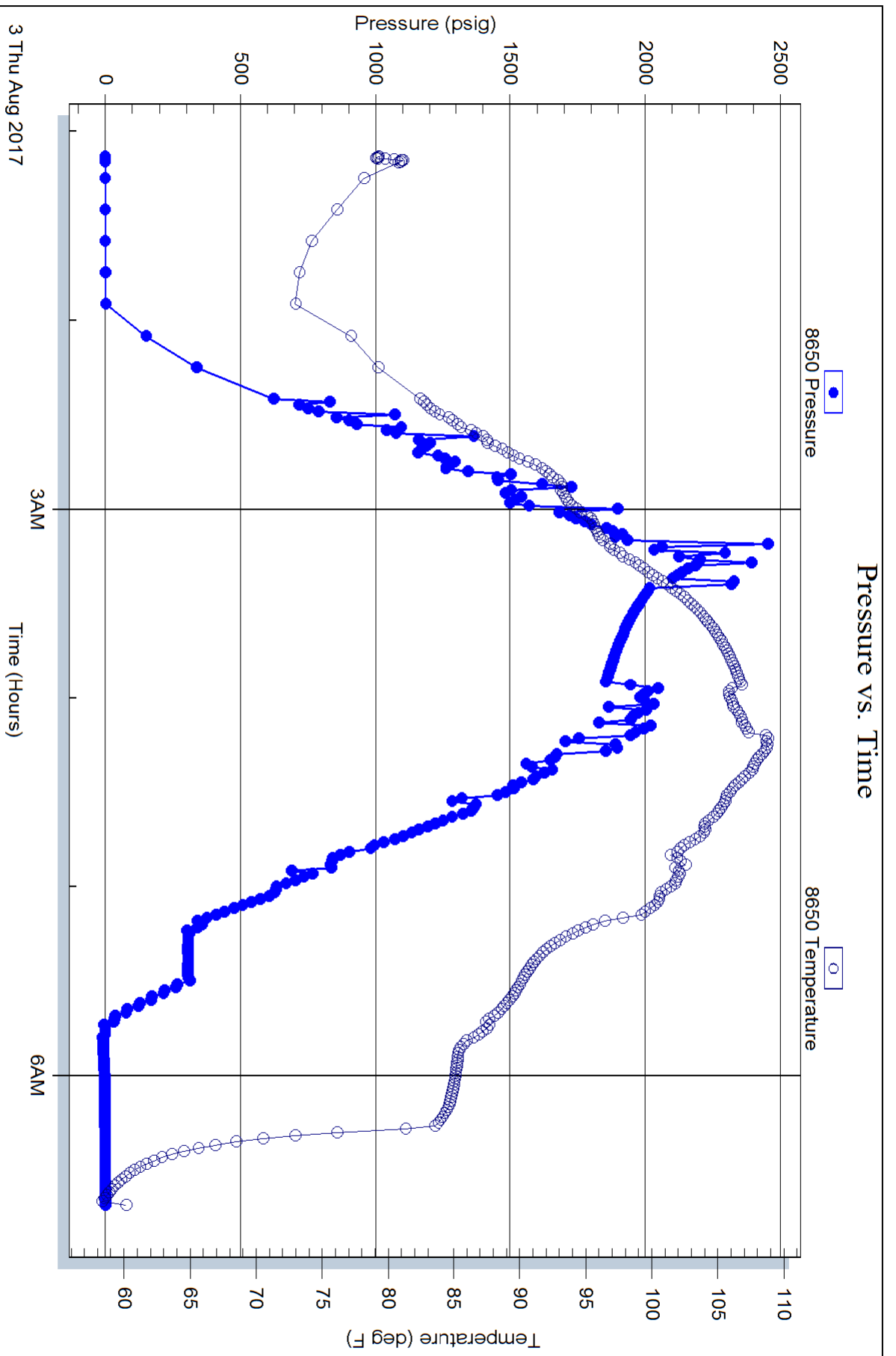
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63864

Printed: 2017.08.03 @ 07:09:05

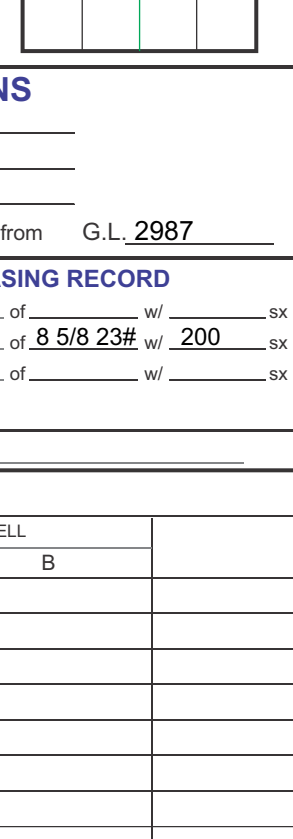


# GEOLOGICAL REPORT

## Larry A. Nicholson

NAD 83  
KS 37238899  
4510778692

COMPANY **Concorde Resources Corporation**  
API # **15-109-2157** FIELD **Wildcat**  
LEASE **Reta #2-27 SW NE SE NE** WELL # **#2-27**  
LOCATION **1924 FNL 335' FEL**  
SURVEY **27 TWP 15S R34W**  
SECTION **27** TWP **15S** ROE **34W**  
COUNTY **Logan** STATE **Kansas**



CONTRACTOR **Southwind** FIG # **8** ELEVATIONS  
SPUD **07-28-17 5:00 pm** COMP. **K.B. 2987**  
RTD **4658 2:50pm 08-02-17** LTD **4657** D.F. \_\_\_\_\_  
MUD UP AT **3462-3494** G.L. **2977**  
MUD TYPE **Chemical Mud/CoReid** All measurements from G.L. **2987**

SAMPLES SAVED FROM **3800** TO **RTD** CASING RECORD \_\_\_\_\_  
SAMPLER EXAMINED FROM **3800** TO **RTD** Conductor \_\_\_\_\_  
GEOLOGICAL SUPERVISION FROM **3800** TO **RTD** Surface **306** of **3,523** **200** \_\_\_\_\_  
WELLSITE GEOLOGIST LARRY A. NICHOLSON Production \_\_\_\_\_  
G.L. \_\_\_\_\_

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL
Anhydrite	2337	+650	2358	+648	+2
Base	2354	+633	2376	+630	+3
Heabner	3847	-860	3864	-858	-2
Lansing	3888	-901	3909	-903	+2
Stark	4160	-1173	4184	-1178	+5
BKC	4266	-1279	4291	-1285	+6
Altamont A	4306	-1319	4330	-1324	+5
Cherokee	4390	-1403	4408	-1402	+1
Pawnee	4464	-1477	4484	-1478	-1
Miss	4510	-1523	4527	-1521	-2
Johnson	4648	-1661	4645	-1639	-22
RTD	4658	-1671	4707	-1701	
LTD	4657	-1670	4708	-1702	

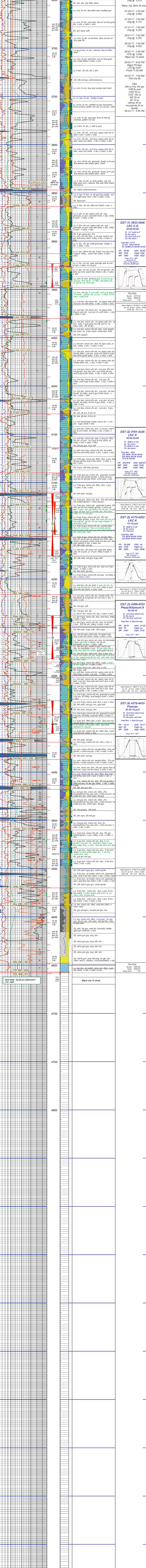
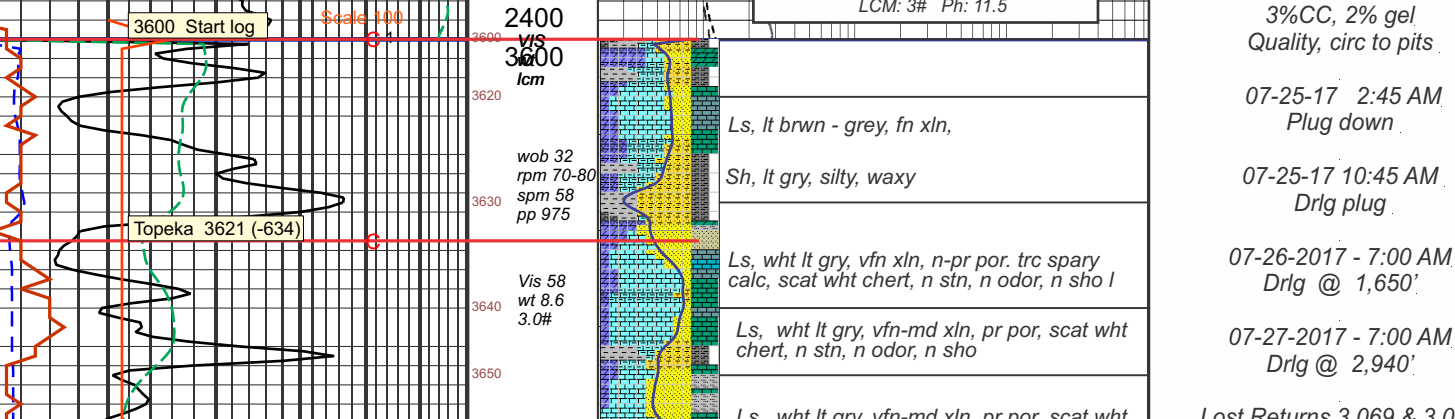
REFERENCE WELLS: **A: Concorde Resources McDaniel #1-27, 2360 FSL 152' FWL Sec 27 T15S R34W KB 3006**

REMARKS & RECOMMENDATIONS:  
**Based on Sample shows, the Dst in the Altamont, and other DST results, the well was P&A**

**\*Note Rig ROP correlates 1 ft deep to the Loggers.**  
**The ROP was moved up 1 ft.**  
**Lag on the Gas detector was accurate and reflected by black shale gas kicks.**

LAN 792, Modified 505, 1111, 412, Hanover, KS 66645 1inch = 25mm 8.5 x 97.5 2.16 mm x 2460 mm

### LEGEND



COMPANY **Concorde Resources Corporation** ELEVATIONS  
LEASE **Reta #2-27 SW NE SE NE** K.B. **2987**  
LOCATION **1924 FNL 335' FEL** SEC. **27** TWP **15S** ROE **34W** D.F. \_\_\_\_\_  
COUNTY **Logan** STATE **Ks** G.L. **2977**  
All measurements from G.L. **2987**



Southwind Drilling, Inc.  
Plugging Orders & Reports

Lease: Beta #2-27

Plugging Received from KCC Representative:

Name: Case Morris Date: 8-1-17 Time: 4:45 PM

1 <sup>st</sup> plug @ <u>2350</u> feet, <u>50</u> sacks	Stands <u>37</u>
2 <sup>nd</sup> plug @ <u>1225</u> feet, <u>100</u> sacks	Stands <u>19</u>
3 <sup>rd</sup> plug @ <u>350</u> feet, <u>50</u> sacks	Stands <u>5½</u>
4 <sup>th</sup> plug @ <u>40</u> feet, <u>10 + Plug</u> sacks	Stands <u>Kelly</u>
5 <sup>th</sup> plug @ <u>—</u> feet, <u>—</u> sacks	Stands <u>—</u>

Mousehole: 20 sacks

Rathole: 30 sacks

Total Cement Used: 260 sacks

Type of cement: 60/40 4% gel ¼" Flo Seal

Plug Down @ 6:45 P.M 8-3-17

Call KCC When Completed:

Name: Jennifer Hawthorne Date: 8-4-17 Time: 8:10 A.M



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 355

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-25-17	27	15	34	Logan	Ks		2:45 AM
				Location <i>Price 40 Winto</i>			

Lease	Well No.	Owner	
<i>Reta</i>	<i>227</i>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Charge To		
<i>Southwest #8</i>	<i>Concord Resources Corporation</i>		
Type Job	T.D.	Street	
<i>Surface</i>	<i>307</i>		
Hole Size	Depth	City	
<i>12 1/4</i>	<i>306</i>	State	
Csg.	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
<i>8 5/8</i>		Cement Amount Ordered <i>200 com 3/11 2/62</i>	
Tbg. Size	Shoe Joint	Cement Left in Csg. <i>10'</i>	
		Meas Line Displace <i>18 1/2 BCL</i>	

EQUIPMENT			
Pumptrk	No.	Cementer	Common
<i>20</i>		<i>Greg</i>	<i>200</i>
		Helper	Poz. Mix
		<i>Brett</i>	
Bulktrk	No.	Driver	Gel.
		<i>Jordan</i>	<i>4</i>
Bulktrk	No.	Driver	Calcium
<i>9</i>		<i>Jordan</i>	<i>8</i>

JOB SERVICES & REMARKS	
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>8 5/8 on bottom Est. Circulation</i>	Sand
<i>Mix 200 com D5plac</i>	Handling <i>212</i>
<i>Cement Circulated</i>	Mileage

FLOAT EQUIPMENT	
Guide Shoe	<i>8 5/8 Swage</i>
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	<i>Full Face</i>
Mileage	<i>49</i>

Signature	Tax
	Discount
	Total Charge

