



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Deutsch Oil Co  
8100 E 22nd St N Bldg 600  
Wichita KS 67226  
ATTN: Keith Reavis

**32 2s 35w Rawlins KS**  
**VPR Unit 1-32**  
Job Ticket: 64168      **DST#: 5**  
Test Start: 2018.01.19 @ 13:00:00

## GENERAL INFORMATION:

Formation: **LKC " J "**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Straddle (Reset)  
Time Tool Opened: 15:07:01      Tester: Jim Svaty  
Time Test Ended: 20:17:00      Unit No: 69  
**Interval: 4243.00 ft (KB) To 4310.00 ft (KB) (TVD)**      Reference Elevations: 3155.00 ft (KB)  
Total Depth: 4345.00 ft (KB) (TVD)      3150.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

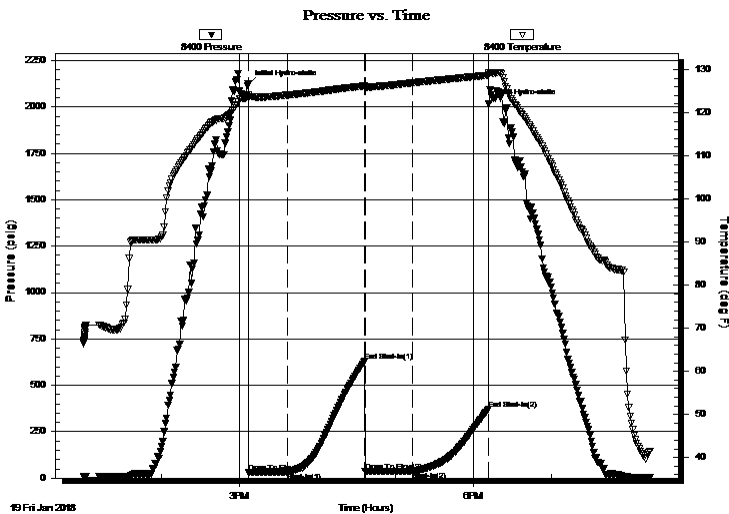
## Serial #: 8400

Inside

Press@RunDepth: 37.67 psig @ 4250.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.01.19      End Date: 2018.01.19      Last Calib.: 2018.01.19  
Start Time: 13:00:01      End Time: 20:16:46      Time On Btm: 2018.01.19 @ 15:06:46  
Time Off Btm: 2018.01.19 @ 18:12:01

TEST COMMENT: 30-IFP- 1/2in. Blow  
60-ISIP- No Blow  
30-FFP- No Blow  
60-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.44	124.09	Initial Hydro-static
1	31.78	123.51	Open To Flow (1)
30	33.84	124.04	Shut-In(1)
90	629.13	126.21	End Shut-In(1)
90	35.92	125.91	Open To Flow (2)
127	37.67	126.88	Shut-In(2)
185	372.06	128.66	End Shut-In(2)
186	2017.78	129.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil Speck Mud 100%	0.02

\* Recovery from multiple tests

## Gas Rates

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



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**32 2s 35w Rawlins KS**  
**VPR Unit 1-32**  
 Job Ticket: 64168 **DST#: 5**  
 Test Start: 2018.01.19 @ 13:00:00

## GENERAL INFORMATION:

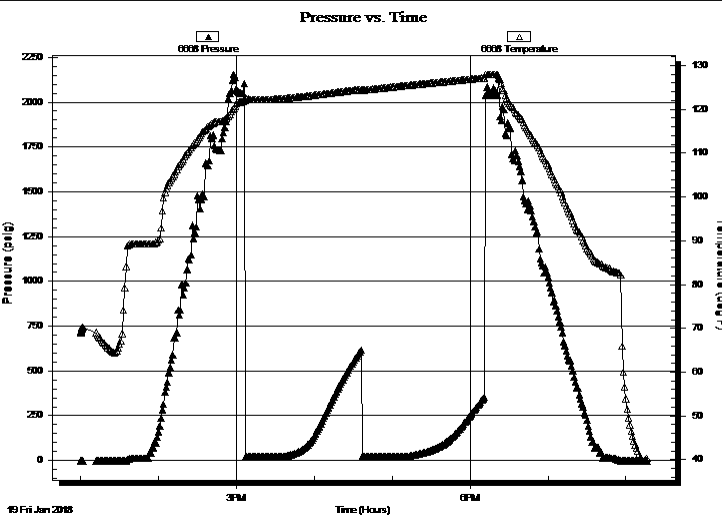
Formation: **LKC " J "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:07:01  
 Time Test Ended: 20:17:00  
**Interval: 4243.00 ft (KB) To 4310.00 ft (KB) (TVD)**  
 Total Depth: 4345.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)  
 Tester: Jim Svaty  
 Unit No: 69  
 Reference Elevations: 3155.00 ft (KB)  
 3150.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6668 Outside

Press@RunDepth: psig @ 4250.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.19 End Date: 2018.01.19 Last Calib.: 2018.01.19  
 Start Time: 13:00:01 End Time: 20:16:46 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IFP- 1/2in. Blow  
 60-ISIP- No Blow  
 30-FFP- No Blow  
 60-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil Speck Mud 100%	0.02

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

Deutsch Oil Co  
 8100 E 22nd St N Bldg 600  
 Wichita KS 67226  
 ATTN: Keith Reavis

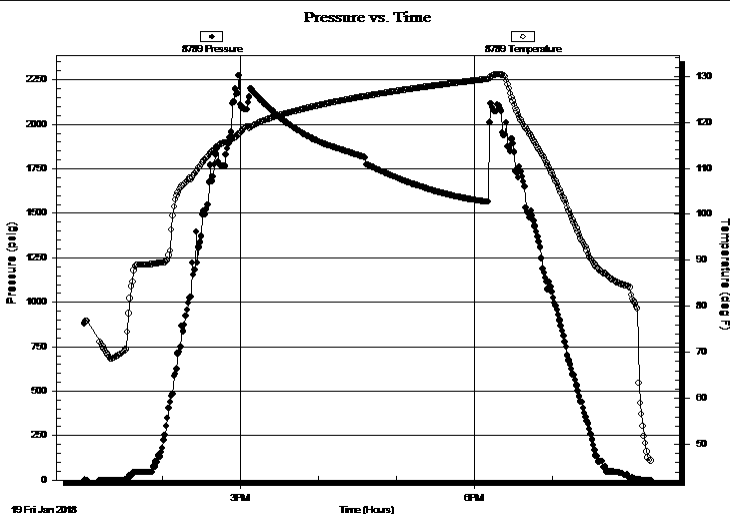
**32 2s 35w Rawlins KS**  
**VPR Unit 1-32**  
 Job Ticket: 64168 **DST#: 5**  
 Test Start: 2018.01.19 @ 13:00:00

## GENERAL INFORMATION:

Formation: **LKC " J "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:07:01  
 Time Test Ended: 20:17:00  
**Interval: 4243.00 ft (KB) To 4310.00 ft (KB) (TVD)**  
 Total Depth: 4345.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jim Svaty  
 Unit No: 69  
 Reference Elevations: 3155.00 ft (KB)  
 3150.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8789 Below (Straddle)**  
 Press@RunDepth: psig @ 4314.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.19 End Date: 2018.01.19 Last Calib.: 2018.01.19  
 Start Time: 13:00:01 End Time: 20:16:46 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IFP- 1/2in. Blow  
 60-ISIP- No Blow  
 30-FFP- No Blow  
 60-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil Speck Mud 100%	0.02

## Gas Rates

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

\* Recovery from multiple tests



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Deutsch Oil Co

**32 2s 35w Rawlins KS**

8100 E 22nd St N Bldg 600  
Wichita KS 67226

**VPR Unit 1-32**

Job Ticket: 64168

**DST#: 5**

ATTN: Keith Reavis

Test Start: 2018.01.19 @ 13:00:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 6.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 4.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil Speck Mud 100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

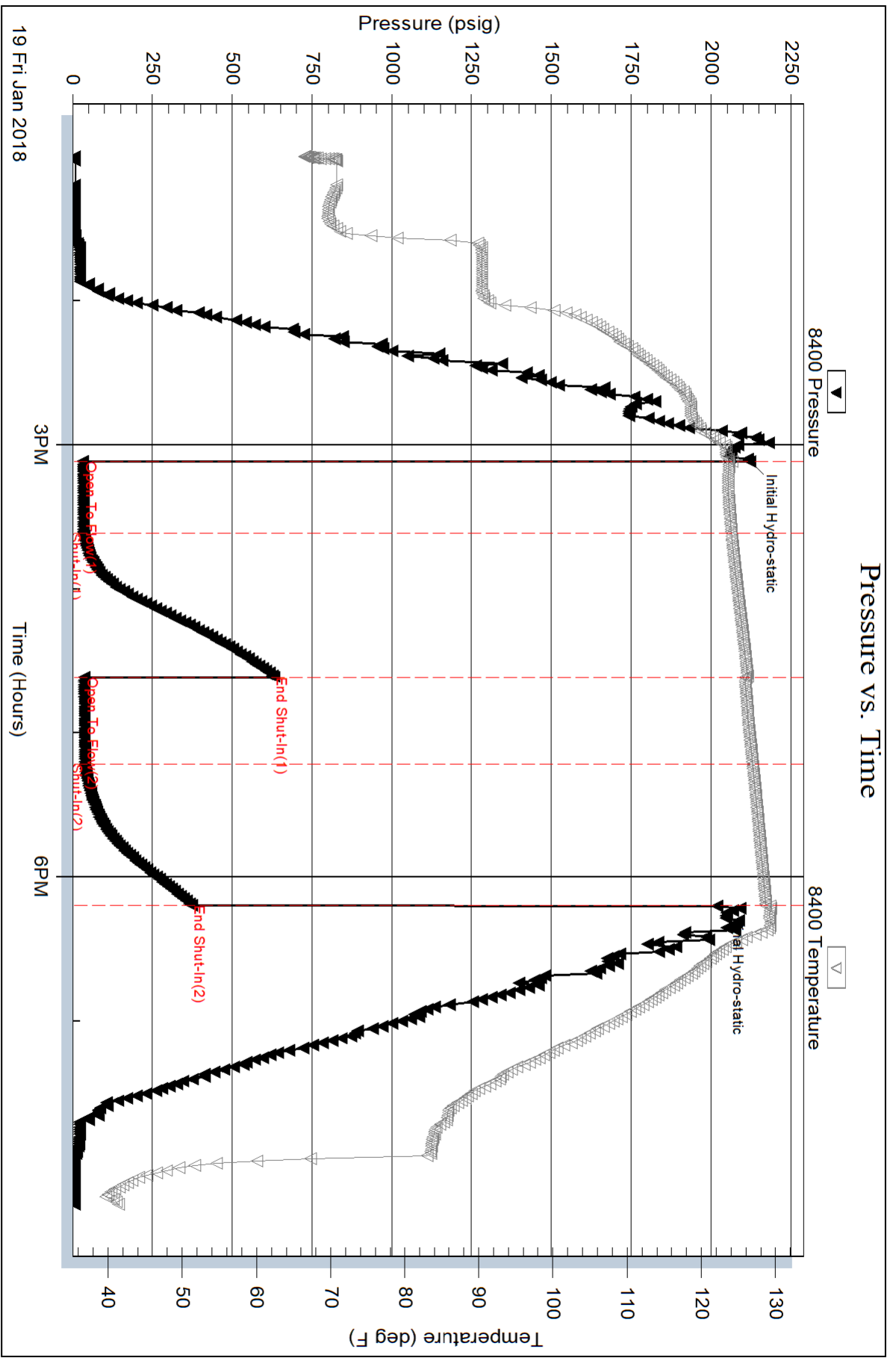
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6668

Outside Deutsch Oil Co

VPR Unit 1-32

DST Test Number: 5

