



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary Jr. & Associates

**27-4S-24W - Norton, KS**

1515 Wynkoop STE #700  
Devver, CO 80202

**Joseph #1-27**

Job Ticket: 58240

**DST#: 1**

ATTN:

Test Start: 2014.07.14 @ 13:10:00

## GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:19:30

Time Test Ended: 20:41:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 3588.00 ft (KB) To 3626.00 ft (KB) (TVD)**

Reference Elevations: 2475.00 ft (KB)

Total Depth: 3626.00 ft (KB) (TVD)

2465.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8874**

**Inside**

Press @ Run Depth: 67.25 psig @ 3589.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.14

End Date:

2014.07.14

Last Calib.:

2014.07.14

Start Time: 13:11:00

End Time:

20:41:00

Time On Btm:

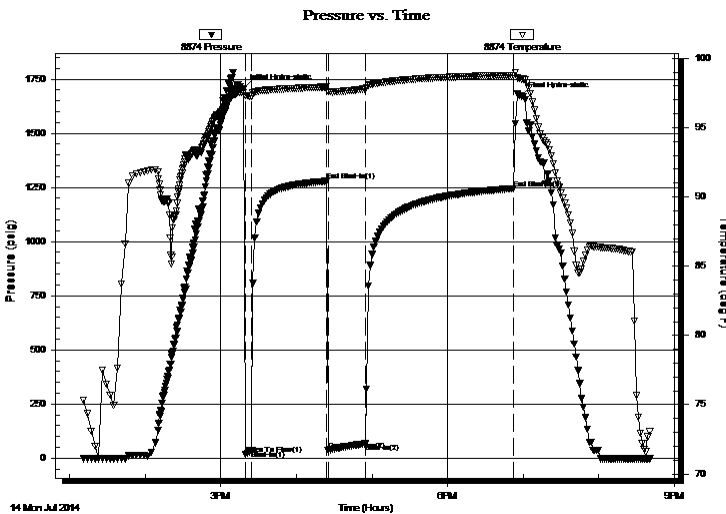
2014.07.14 @ 15:18:00

Time Off Btm:

2014.07.14 @ 18:58:30

**TEST COMMENT:** 5 - IF- Surface Blow built to 1 1/4"  
60 - IS- No Return  
30 - FF- Surface Blow started at 2 min. Built to 6 3/4"  
120 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.57	97.54	Initial Hydro-static
2	18.69	97.31	Open To Flow (1)
7	34.83	97.27	Shut-In(1)
66	1278.83	97.94	End Shut-In(1)
67	37.57	97.61	Open To Flow (2)
97	67.25	97.80	Shut-In(2)
215	1245.41	98.76	End Shut-In(2)
221	1671.58	98.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.57
50.00	MW 15M 85W	0.70

## Gas Rates

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



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## GENERAL INFORMATION:

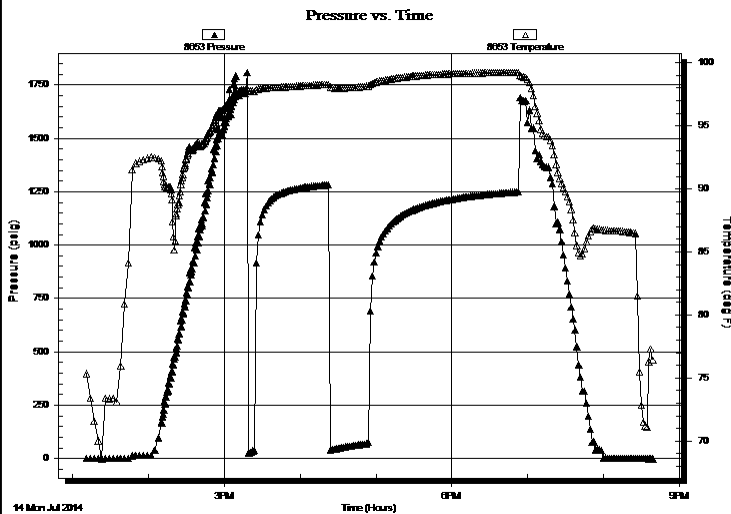
Formation: **LKC "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:19:30  
 Time Test Ended: 20:41:00  
 Interval: **3588.00 ft (KB) To 3626.00 ft (KB) (TVD)**  
 Total Depth: 3626.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 66  
 Reference Elevations: 2475.00 ft (KB)  
 2465.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8653**

**Outside**

Press @ Run Depth: psig @ 3589.00 ft (KB)  
 Start Date: 2014.07.14 End Date: 2014.07.14  
 Start Time: 13:11:00 End Time: 20:39:30  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.07.14  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 5 - IF- Surface Blow built to 1 1/4"  
 60 - IS- No Return  
 30 - FF- Surface Blow started at 2 min. Built to 6 3/4"  
 120 - FS- No Return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.57
50.00	MW 15M 85W	0.70

## Gas Rates

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





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**FLUID SUMMARY**

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**Joseph #1-27**

Job Ticket: 58240

**DST#: 1**

ATTN:

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## 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:

48000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MW 10M 90W	0.568
50.00	MW 15M 85W	0.701

Total Length: 110.00 ft      Total Volume: 1.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 @ 79 deg = 48000 ppm

