



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-9s-16w-Rooks Co

1515 Wynkoop st STE 700
Denver CO 80202

Thomas Casey #1-32

ATTN: Chris Mitchell

Job Ticket: 57544

DST#: 3

Test Start: 2014.05.03 @ 23:53:00

GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:23:50

Time Test Ended: 08:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 49

Interval: 3349.00 ft (KB) To 3415.00 ft (KB) (TVD)

Total Depth: 3191.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2038.00 ft (KB)

2030.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8897

Press @ Run Depth: 28.81 psig @ ft (KB)

Start Date: 2014.05.03

End Date:

2014.05.04

Start Time: 23:53:01

End Time:

08:30:19

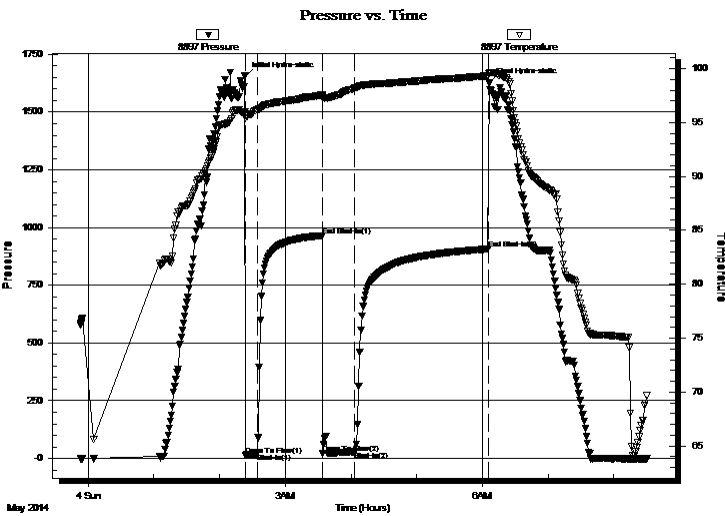
Capacity: 8000.00 psig

Last Calib.: 2014.05.04

Time On Btm: 2014.05.04 @ 02:23:20

Time Off Btm: 2014.05.04 @ 06:06:00

TEST COMMENT: IFP- Weak blow built to 1.25in
ISI- Dead no blow back
FF- Weak blow built to 1 in
FSI- Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.48	95.99	Initial Hydro-static
1	12.48	95.41	Open To Flow (1)
11	19.92	96.16	Shut-In(1)
71	965.33	97.54	End Shut-In(1)
71	20.77	97.25	Open To Flow (2)
101	28.81	98.19	Shut-In(2)
222	907.06	99.32	End Shut-In(2)
223	1625.83	99.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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

* Recovery from multiple tests



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DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.05.03 @ 23:53:00

GENERAL INFORMATION:

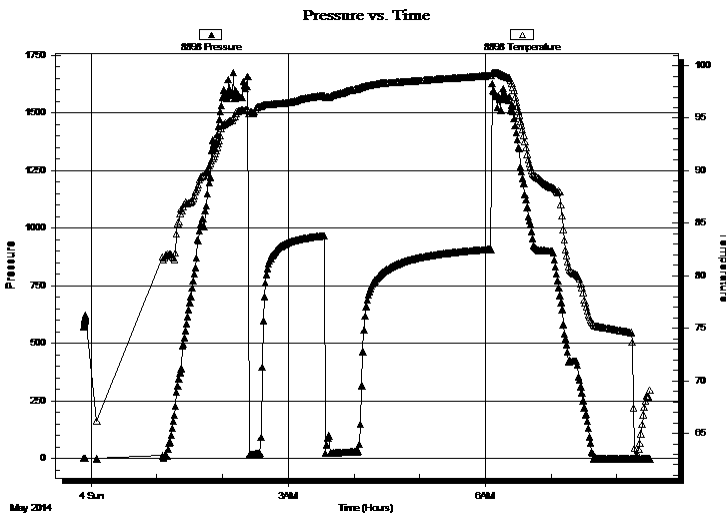
Formation: LKC J-K
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:23:50 Tester: Tim Phillips
 Time Test Ended: 08:42:00 Unit No: 49

Interval: 3349.00 ft (KB) To 3415.00 ft (KB) (TVD) Reference Elevations: 2038.00 ft (KB)
 Total Depth: 3191.00 ft (KB) (TVD) 2030.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8898

Press @ Run Depth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.03 End Date: 2014.05.04 Last Calib.: 2014.05.04
 Start Time: 23:53:01 End Time: 08:30:19 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP- Weak blow built to 1.25in
 ISI- Dead no blow back
 FF- Weak blow built to 1 in
 FSI- Dead no blow back



PRESSURE SUMMARY

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

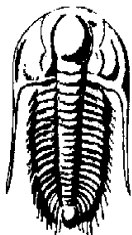
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

* Recovery from multiple tests

Gas Rates

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



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Thomas Casey #1-32

Job Ticket: 57544

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.05.03 @ 23:53:00

GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:23:50

Time Test Ended: 08:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 49

Interval: **3349.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: 3191.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2038.00 ft (KB)

2030.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Press @ Run Depth: psig @ ft (KB)

Start Date: 2014.05.03

End Date:

2014.05.04

Start Time: 23:53:01

End Time:

08:29:00

Capacity: 8000.00 psig

Last Calib.:

2014.05.04

Time On Btm:

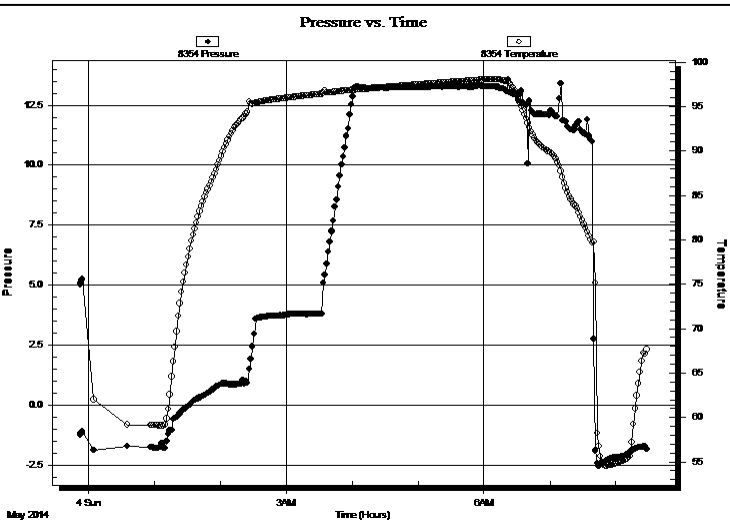
Time Off Btm:

TEST COMMENT: IFP- Weak blow built to 1.25in

ISI- Dead no blow back

FF- Weak blow built to 1 in

FSI- Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Job Ticket: 57544

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.05.03 @ 23:53:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 1500ml @ 160 psi

