



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

15-12s-17w Ellis

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

Schmeidler etal#2-15

Job Ticket: 52090 **DST#: 2**

Test Start: 2013.06.06 @ 14:20:44

GENERAL INFORMATION:

Formation: **LKC F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:01:24
 Time Test Ended: 21:28:53
 Interval: **3441.00 ft (KB) To 3489.00 ft (KB) (TVD)**
 Total Depth: 3489.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2143.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 8.00 ft

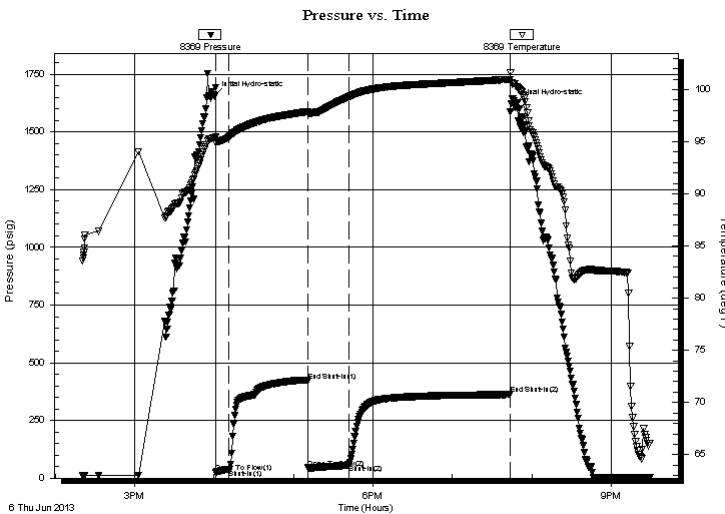
Serial #: 8369

Inside

Press @ Run Depth: 57.92 psig @ 3453.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.06 End Date: 2013.06.06 Last Calib.: 2013.06.06
 Start Time: 14:20:44 End Time: 21:28:53 Time On Btm: 2013.06.06 @ 16:00:09
 Time Off Btm: 2013.06.06 @ 19:47:23

TEST COMMENT: 10-IFP-w k bl thru-out 1/4" to 1" bl
 60-ISIP-no bl
 30-FFP-w k bl thru-out surface to 1/4" bl
 120-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.90	95.39	Initial Hydro-static
2	26.55	94.90	Open To Flow (1)
11	39.20	95.47	Shut-In(1)
71	420.96	97.88	End Shut-In(1)
71	43.91	97.78	Open To Flow (2)
102	57.92	99.29	Shut-In(2)
224	362.36	100.96	End Shut-In(2)
228	1622.03	100.55	Final Hydro-static

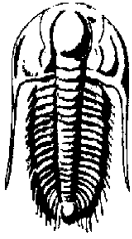
Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 10%M90%W w/show of oil	0.64
5.00	OCWM 10%O30%W60%M	0.07
1.00	CO	0.01

* Recovery from multiple tests

Gas Rates

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



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GENERAL INFORMATION:

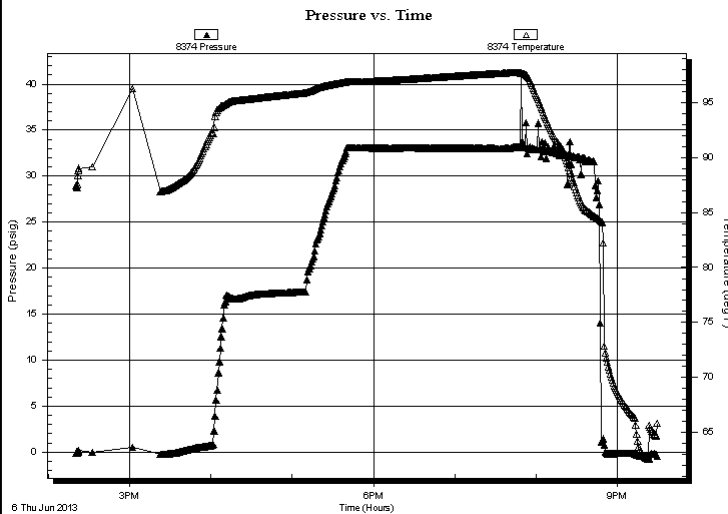
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 Total Depth: 3489.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2143.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8374

Fluid

Press @ Run Depth: psig @ 3407.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.06 End Date: 2013.06.06 Last Calib.: 2013.06.06
 Start Time: 14:20:26 End Time: 21:29:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out 1/4" to 1" bl
 60-ISIP-no bl
 30-FFP-w k bl thru-out surface to 1/4" bl
 120-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 10%M90%W w /show of oil	0.64
5.00	OCWM 10%O30%W60%M	0.07
1.00	CO	0.01

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Schmeidler etal#2-15

Job Ticket: 52090 **DST#: 2**

Test Start: 2013.06.06 @ 14:20:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.56 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 65000 ppm

Recovery Information

Recovery Table

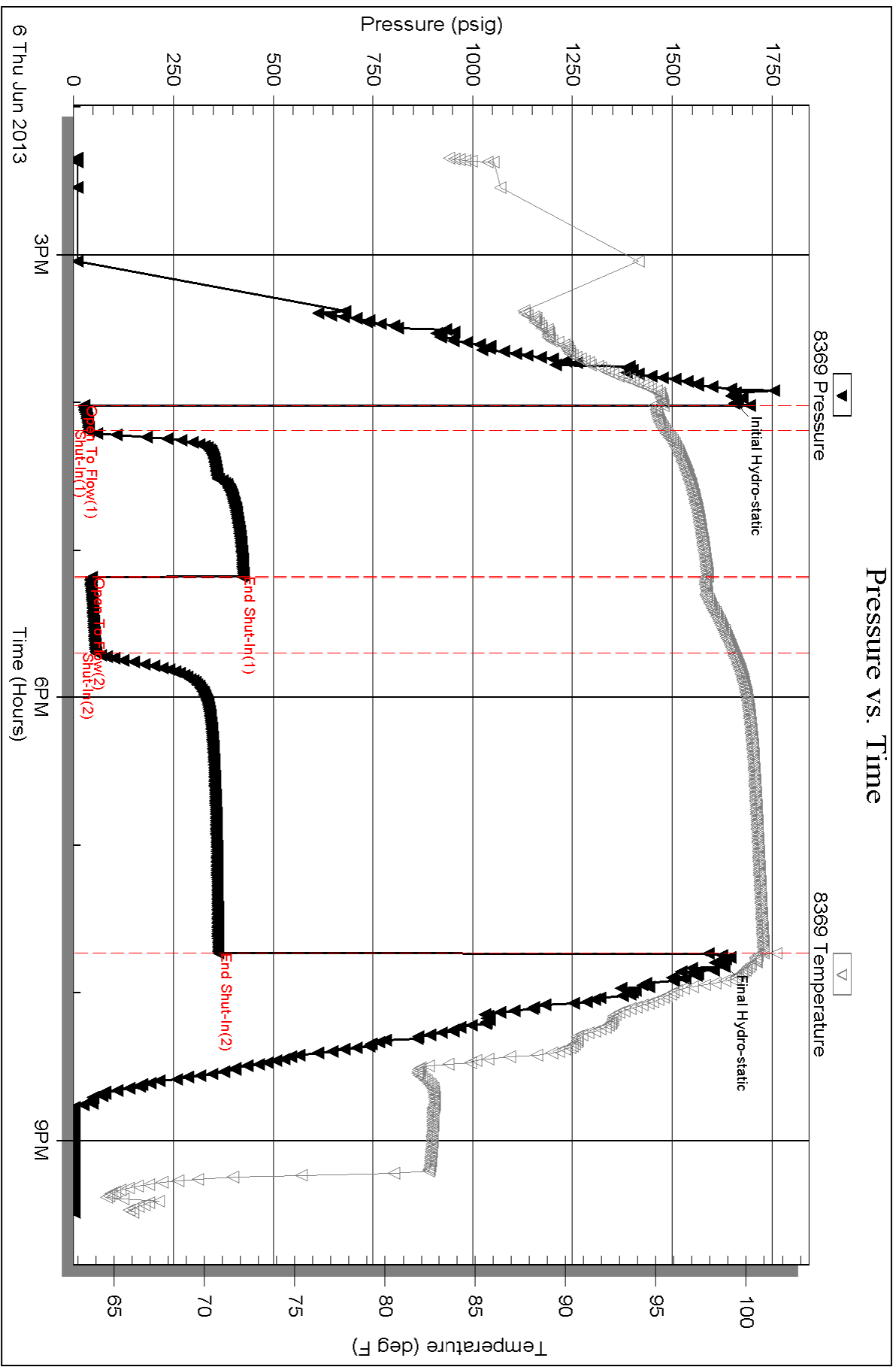
Length ft	Description	Volume bbl
65.00	MW 10% M90% W w/show of oil	0.638
5.00	OCWM 10% O30% W60% M	0.070
1.00	CO	0.014

Total Length: 71.00 ft Total Volume: 0.722 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data: PSI 170# 2000ML Water trace oil
RW .12@69F



Serial #: 8374

Fluid

Samuel Gary Jr & Associates Inc

Schneider et al #2-15

DST Test Number: 2

