



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blue Ridge Petroleum
PO Box 30545
Edmond OK
73003+0010
ATTN: Wyatt Urban

12/3S/29W/Decatur

Brown #2-12

Job Ticket: 61937

DST#: 2

Test Start: 2016.10.15 @ 04:52:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:26:30

Time Test Ended: 11:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/ 4

Interval: 3582.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6999 Inside

Press@RunDepth: 509.79 psig @ 3596.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.15 End Date: 2016.10.15

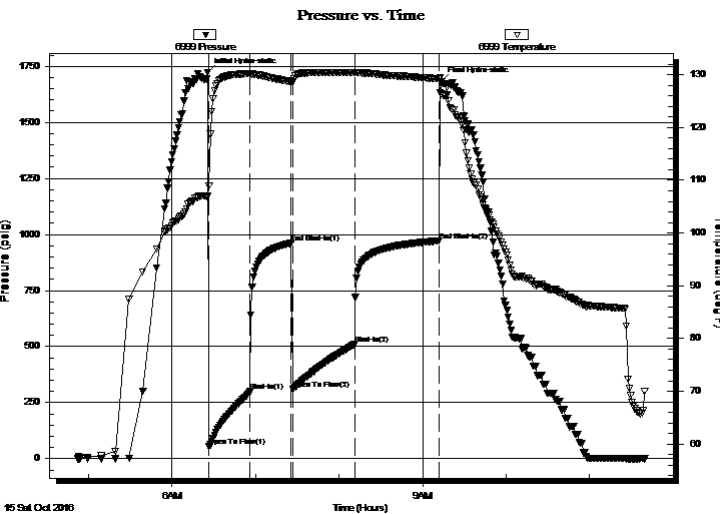
Last Calib.: 2016.10.15

Start Time: 04:52:05 End Time: 11:39:29

Time On Btm: 2016.10.15 @ 06:25:30

Time Off Btm: 2016.10.15 @ 09:13:30

TEST COMMENT: I.F. 30 minutes/Blow built to bottom of bucket in 2 1/2 minutes
I.S.I. 30 minutes/Blow back built to bottom of bucket in 12 minutes
F.F. 45 minutes/Blow built to 3 inch in 5 min then died to 2 inch and maintained throughout
F.S.I. 60 minutes/Blow back built to bottom of bucket in 17 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.62	106.98	Initial Hydro-static
1	56.12	108.98	Open To Flow (1)
31	301.07	130.24	Shut-In(1)
60	961.90	128.75	End Shut-In(1)
61	309.94	128.64	Open To Flow (2)
106	509.79	130.39	Shut-In(2)
166	971.40	129.24	End Shut-In(2)
168	1681.67	126.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	Muddy Water with show of oil	4.44
0.00	Mud 5% Water 95%	0.00
310.00	Gas and Oil cut Muddy Water	4.35
0.00	Gas 5% Oil 5% Mud 30% Water 60%	0.00
62.00	Mud and Water cut Gassy Oil	0.87
0.00	Mud 5% Water 10% Gas 30% Oil 55%	0.00

Gas Rates

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



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Tester: Ken Swinney

Unit No: 72 Oberlin/ 4

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Reference Elevations: 2555.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960 Outside

Press@RunDepth: 969.69 psig @ 3597.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.15

End Date:

2016.10.15

Last Calib.:

2016.10.15

Start Time: 04:52:05

End Time:

11:38:59

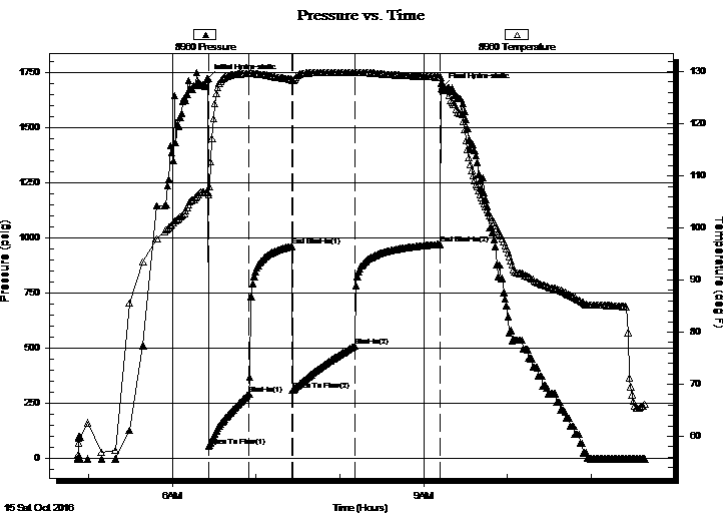
Time On Btm:

2016.10.15 @ 06:25:30

Time Off Btm:

2016.10.15 @ 09:13:00

TEST COMMENT: I.F. 30 minutes/Blow built to bottom of bucket in 2 1/2 minutes
I.S.I. 30 minutes/Blow back built to bottom of bucket in 12 minutes
F.F. 45 minutes/Blow built to 3 inch in 5 min then died to 2 inch and maintained throughout
F.S.I. 60 minutes/Blow back built to bottom of bucket in 17 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.91	106.70	Initial Hydro-static
1	54.63	106.39	Open To Flow (1)
30	291.29	129.65	Shut-In(1)
60	960.76	128.53	End Shut-In(1)
61	307.83	128.25	Open To Flow (2)
105	508.25	129.78	Shut-In(2)
166	969.69	128.95	End Shut-In(2)
168	1678.22	127.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	Muddy Water with show of oil	4.44
0.00	Mud 5% Water 95%	0.00
310.00	Gas and Oil cut Muddy Water	4.35
0.00	Gas 5% Oil 5% Mud 30% Water 60%	0.00
62.00	Mud and Water cut Gassy Oil	0.87
0.00	Mud 5% Water 10% Gas 30% Oil 55%	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Ridge Petroleum

12/3S/29W/Decatur

PO Box 30545
Edmond OK
73003+0010

Brown #2-12

Job Ticket: 61937

DST#: 2

ATTN: Wyatt Urban

Test Start: 2016.10.15 @ 04:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	Muddy Water with show of oil	4.444
0.00	Mud 5% Water 95%	0.000
310.00	Gas and Oil cut Muddy Water	4.348
0.00	Gas 5% Oil 5% Mud 30% Water 60%	0.000
62.00	Mud and Water cut Gassy Oil	0.870
0.00	Mud 5% Water 10% Gas 30% Oil 55%	0.000
341.00	Clean Gassy Oil	4.783
0.00	Gas 30% Oil 70%	0.000
0.00	1147 feet of gas in pipe	0.000

Total Length: 1147.00 ft Total Volume: 14.445 bbl

Num Fluid Samples: 0

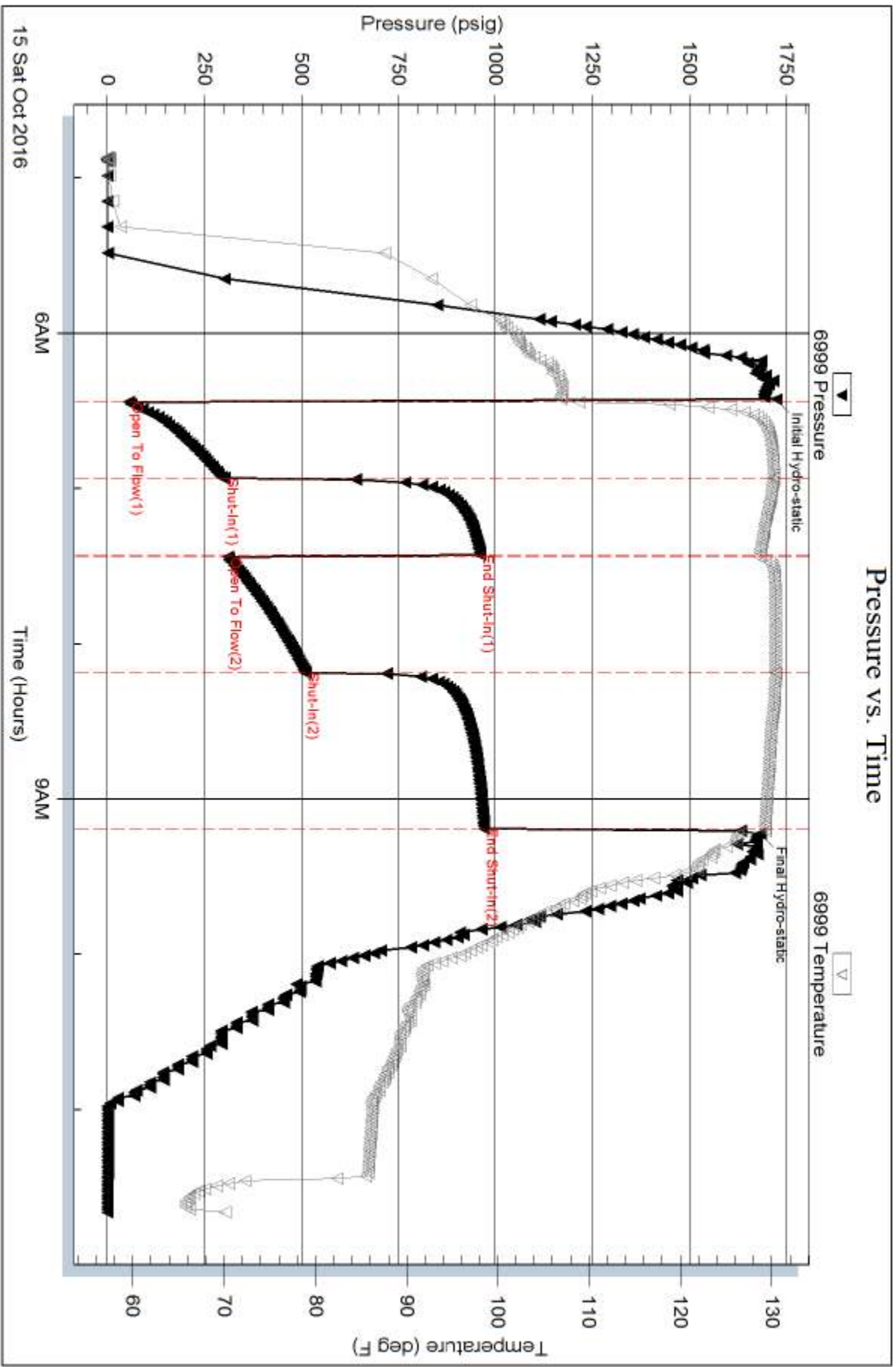
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .153 ohms at 71 deg



Serial #: 8960

Outside Blue Ridge Petroleum

Brown #2-12

DST Test Number: 2

