

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	BROWN 2-12
Doc ID	1327632

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3603-08	500 gal 15% MCA	

JOB LOG

SWIFT Services, Inc.

DATE 10-10-16 PAGE NO.

CUSTOMER Blue Ridge WELL NO. LEASE JOB TYPE Shallow Surface TICKET NO. 29474

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:00							On location
								8 5/8 x 23# Csg
								RTO- 227
								Pipe set @ 216
	12:10							START Running Csg
								Break Circ on Bottom
	12:50	5.5	10				300	Pump WTR SPACER
	12:55	5.5	40				300	Pump CMT - 165 SKS 2% gel 3% CC
	13:00	5.5	12.5				200	Displace CEMENT
	13:00							
								- Circulated 40 SKS CMT TO pit
	13:15							JOB COMPLETE
								THANKS
								DAVID, AUSTIN, & ISAAC

JOB LOG

SWIFT Services, Inc.

DATE 10-17-16 PAGE NO.

CUSTOMER BLUE RIDGE WELL NO. 2-12 LEASE Brown JOB TYPE TOP to Bottom TICKET NO. 29478

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							On LOCATION 5 1/2 x 14 # RTD - 3810 LTD - 3812 Pipe set @ 3805' SHOE - 43.78 (3761') CENTRALIZERS - 1-7, 36, 63 BASKETS - 8, 36, 59, 63
	1330							START Running Csg
	1520							BREAK Circ on Bottom
	1615	2.5	11			0		PLUG RAT HOLE - 30 sks @ 12.5 ppg
	1620	2.5	6			0		PLUG MOUSE HOLE - 15 sks @ 12.5 ppg
	1625	5.5	12			300		Pump MUDFLUSH - 500 GAL
	1630	5.5	141			250		Pump SMD CEMENT @ 11.2 ppg (255 sks)
	1700	5.5	36			200		Pump EA-2 CEMENT @ 15.5 ppg (150 sks)
								Drop plug - WASH P/L
	1715	7	92			900		DISPLACE CMT
	1730	5	92			900	1500	LAND PLUG lift - 900 psi LAND - 1500 psi
								-CIRCULATED 35 SKS CMT to pit
								Thanks David, Jon H, Preston & JOHN J



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

NOTES

Company: Blueridge Petroleum Corporation

Lease: Brown 2-12

Location: SE-NW-NE-NW (630' FNL & 1858' FWL)

Sec: 12 Twsp: 3S Rge: 29W

Field: Pollnow Southeast

County: Decatur State: Kansas

KB: 2555' GL: 2547'

API #: 15-039-21235-00-00

Contractor: Discovery Drilling, Inc. (Rig #3)

Spud: 10/10/2016 Comp: 10/17/2016

RTD: 3810' LTD: 3812'

Mud Up: 3200' Type Mud: Chemical

Surface Casing: 8 5/8" @ 216'

Production Casing: 5 1/2" @ 3808'

Samples Saved From: 3300' to RTD

Drilling Time Kept From: 3300' to RTD

Samples Examined From: 3300' to RTD

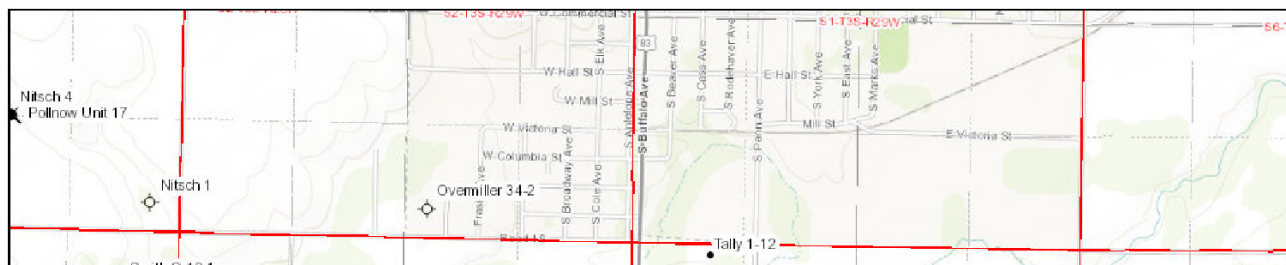
Geological Supervision from: 3300' to RTD

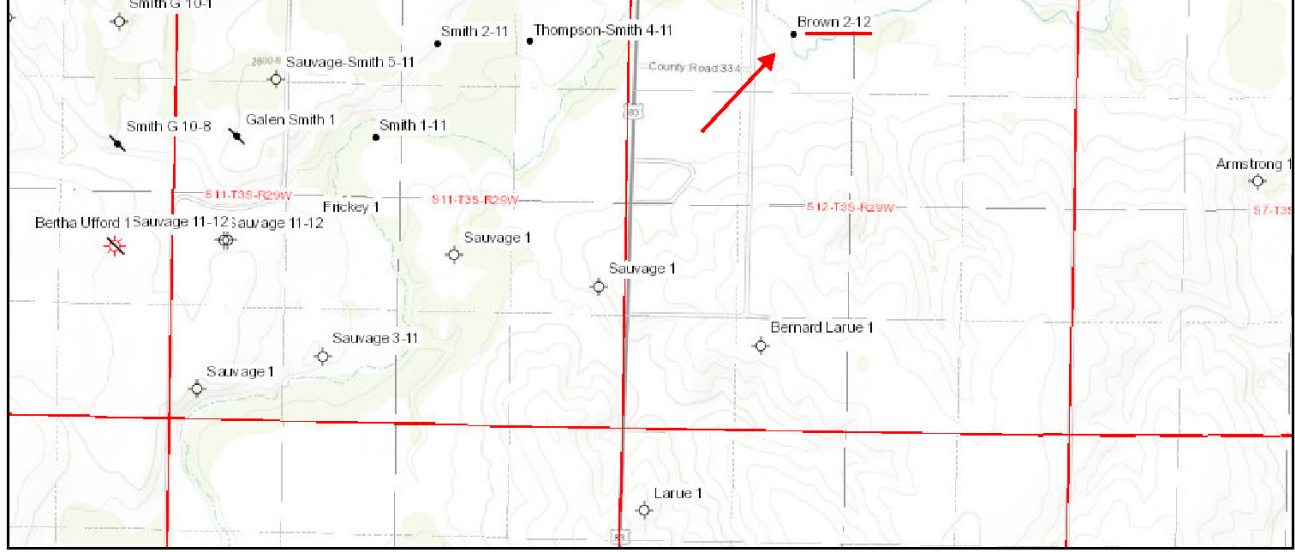
Geologist on Well: Wyatt Urban (3300'-3575') & Jim Musgrove (3575'-3810')

Electronic Surveys: Logged by ELI: DIL, MEL, CDL/CNL

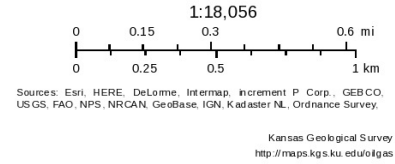
Area Map

Blueridge Petroleum - Brown #2-12





October 17, 16



Well Comparison

BLUERIDE PETROLEUM CORP WELL COMPARISON SHEET

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
	Blueridge- Brown 2-12				Blueridge-Tally 1-12				Blueridge-Thompson-Smith 4-11				
	SE-NW-NE-NW 12-3S-29W				NW-NE-NW-NW 12-3S-29W				NW-SW-NE-NE 12-3S-29W				
	oil				oil		Structural Relationship		oil		Structural Relationship		
	2555	KB			2567	KB	Sample	Log		2572	KB	Sample	Log
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Sample	Log	Sub-Sea	Sample	Log
Anhydrite	2253	302	2285	270									
B. Anhydrite	2291	264	2291	264									
Heebner	3523	-968	3524	-969	3538	-971	3	2	3545	-973	5	4	
Toronto	3556	-1001	3555	-1000	3569	-1002	1	2	3580	-1008	7	8	
Lansing	3564	-1009	3564	-1009	3579	-1012	3	3	3586	-1014	5	5	
Stark	3718	-1163	3719	-1164	3734	-1167	4	3	3739	-1167	4	3	
Base Kansas City	3762	-1207	3764	-1209	3774	-1207	0	-2	3786	-1214	7	5	
RTD	3810	-1255	3810	-1255									
LTD	3812	-1257	3812	-1257	3830	-1263	6	6	3850	-1278	21	21	

ROCK TYPES

Lmst fw<7	shale, gry	shale, red
shale, grn	Carbon Sh	Ss

ACCESSORIES

MINERAL
△ Chert White

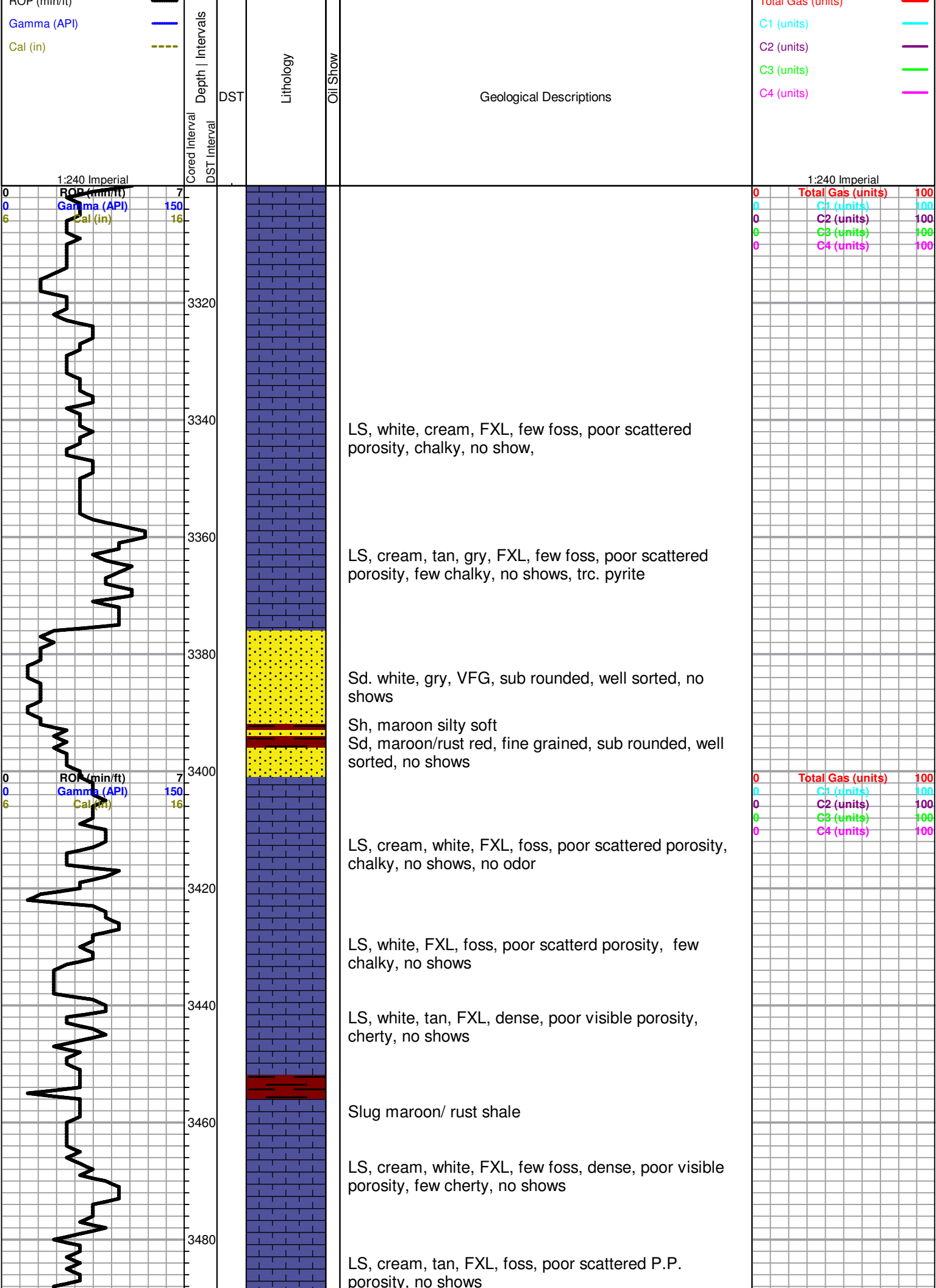
FOSSIL
○ Oolite
⊕ Oomoldic

TEXTURE
C Chalky
FX Finexln

OTHER SYMBOLS

Oil Show
● Good Show
● Fair Show
● Poor Show
○ Spotted or Trace
○ Questionable Stn
D Dead Oil Stn
■ Fluorescence
* Gas

DST
■ DST Int
■ DST alt
■ Core
|| tail pipe



Slug of maroon/ rusty shale

LS, cream, tan , FXL, few foss, poor scattered porosity, cherty in pts, no shows

Heebner 3523.0 (-968.0) Log (-969.0)

Black carb Shale

LS, cream, white, FXL, poor visible porosity, chalky in pts, Trc. Spty SFO (very dark tar viscous in 40 min sample) no odor

Sh, gry, greenish, few maroon

Toronto 3556.0 (-1001.0) Log (-1000.0)

LS, white, cream, FXL, few foss, poor scattered P.P. porosity, no shows, no odor

Lansing 3564.0 (-1009.0) Log (-1009.0)

LS, white, oom, fair scatered oom vuggy porosity, chalky, NSFO (Barren) few Orange ool. chert, few pyrite

LS, white, cream, FXL, ool, poor -fair scattered oom vuggy porosity, Lt. spty SFO, trc. black stain, odor???

LS, white, gry, F-MedXLN, good INXLN / vuggy porosity, few chalky, (100% stain/saturation in few pieces), fair/good stain & saturation, good SFO, fair odor

LS, white, gry, foss/ ool, scattered porosity, brown black stain, SFO, faint odor

Black carb Shale

LS, white, gry, cream, chalky, few foss
Maroon, green shale

LS, white, gry, FXL, foss, in pts, Trc. brown stain, Trc. SFO (cavings???)

LS, white, cream, slightly foss, chalky, dense, poor visible porosity,

A/A, slightly chalky, (dense)

LS, tan, brown, white, chalky, few scattered P.P. porosity, trc. lt. brown stain, trc. SFO, no odor

Trc. gry, greenish shale, slug maroon/brick red shale

LS, white, cream, foss, few MedXLN, fair brown stain/sat, SFO, odor???

DST # 1 3531-3575

30-30-45-45

1st Open: BOB 9.5 mins

2nd Open: BOB 12 mins

Recovery:
715' Muddy Water
W/ Show of oil

Wyatt Urban
3300-3575

Jim Musgrove
3575-RTD

DST #2 3585-3600

30-30-45-60

1st open:
BOB 2.5 mins

2nd Open:
Built to 2"

Recovery:

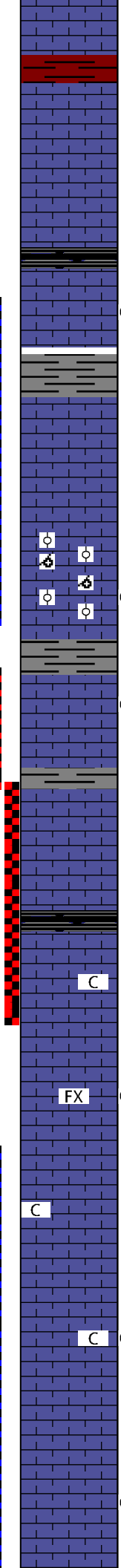
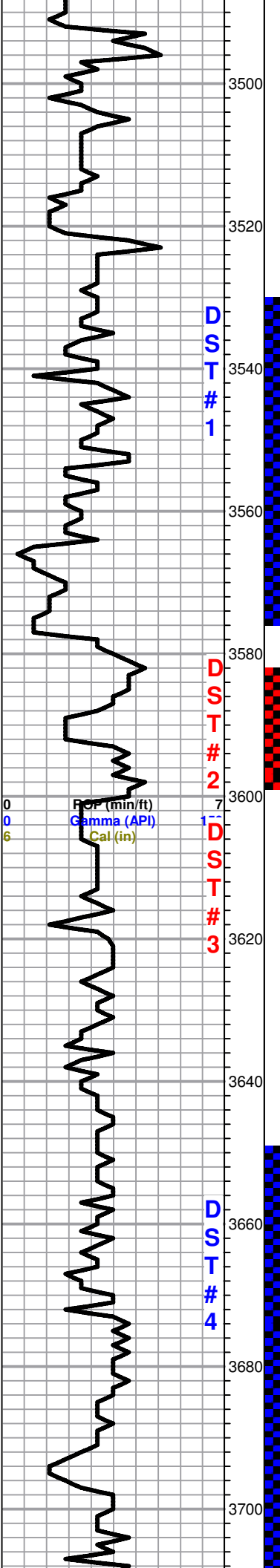
1147' GIP

341' Clean Gassy
Oil
(30%G, 70% O)

62' MWCGO
(30%G, 55%O,
10%W)

310' G&OCMW
(5%G, 5%O, 60%
W, 30%M)

434' Muddy water
with show of oil



Log descriptions for various intervals. Includes descriptions for maroon/rusty shale, cream/tan limestone with few fossils and poor porosity, black carbonaceous shale, and various limestone types (cream, white, oom, gry, tan, brown, white, cream) with different porosity and fossil content. Mentions 'Trc. SFO' (trace surface flow) and 'LT. SFO' (light surface flow) in several intervals.

Well completion and DST data. Includes DST #1 (3531-3575) and DST #2 (3585-3600) with their respective completion strings (e.g., 30-30-45-45, 30-30-45-60). Details first and second opens (BOB) and recovery characteristics, such as '715' Muddy Water W/ Show of oil' and '1147' GIP'.

LS, white/ gry, F-Medxin, trc. sppty stain, no odor

(95%W, 5%M)

Stark 3718.0 (-1163.0) Log (-1164.0)

Black carb Sh

Slug of cavings

LS, white, cream, chalky, poor visible porosity, no shows

Trc. black carb shale

LS, white, gry, cream, chalky in pts, dense, no shows

Base KC 3762.0 (-1207.0) Log (-1209.0)

Gry, green, brick red/maroon silty shales

LS, white/ gry, cream, few maroon tinted, chalky, no shows

Maroon, silty shale and yellow chert,

Maroon, brick red, shale to silty red soft shale, trc. white cherts & LS, white, gry, FXL, few foss, poor scattered porosity, no shows

RTD 3810.0 (-1255.0) Log (-1255.0)

LTD 3812.0 (-1257.0) Log (-1257.0)

Pressures:

ISIP 961 psi
FSIP 971 psi
IFP 56-301 psi
FFP 309-509 psi
HSH 1722-1681 psi

DST#3 3598-3634

Packer Failure

DST#4 3650-3720

30-30-30-45

1st Open:
Weak blow died in 7 mins

2nd Open:
Dead

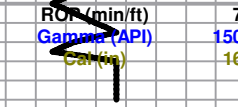
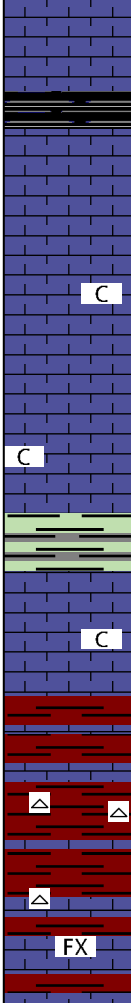
Recovery:

5' Oil Spotted Mud

Pressures:

ISIP 87 psi
FSIP 98 psi
IFP 34-35 psi
FFP 35-38 psi

3720
3740
3760
3780
3800
3820
3840



RTD 3810'



**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: 61936

DST#: 1

Test Start: 2016.10.14 @ 16:39:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:05:30

Time Test Ended: 22:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/4

Interval: 3531.00 ft (KB) To 3575.00 ft (KB) (TVD)

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3575.00 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: 380.91 psig @ 3571.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.14

End Date:

2016.10.14

Last Calib.: 2016.10.14

Start Time: 16:39:05

End Time:

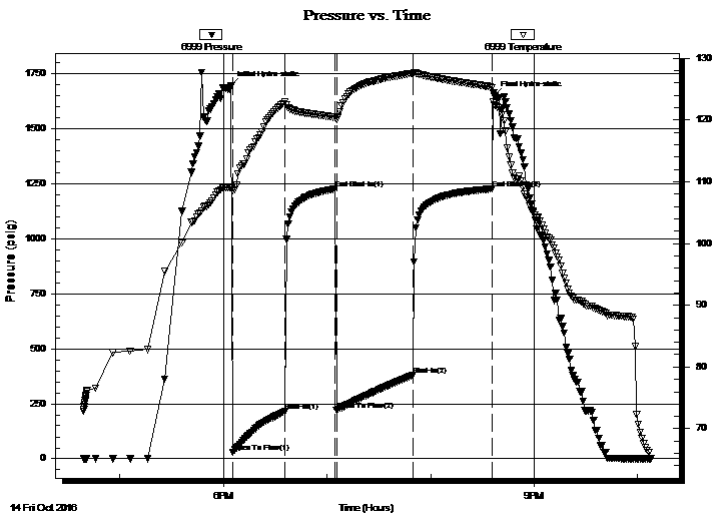
22:07:59

Time On Btm: 2016.10.14 @ 18:04:30

Time Off Btm: 2016.10.14 @ 20:37:00

TEST COMMENT: I.F. 30 minutes/Blow built to bottom of bucket in 9 1/2 minutes
I.S.I. 30 minutes/No blow back
F.F. 45 minutes/Blow built to bottom of bucket in 12 minutes
F.S.I. 45 minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.96	109.23	Initial Hydro-static
1	29.86	108.57	Open To Flow (1)
31	214.79	122.88	Shut-In(1)
60	1225.30	120.46	End Shut-In(1)
61	221.48	120.04	Open To Flow (2)
106	380.91	127.55	Shut-In(2)
151	1225.73	125.32	End Shut-In(2)
153	1648.37	122.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
775.00	Muddy Water with show of oil in tool	9.23
0.00	Mud 5% Water 95%	0.00

Gas Rates

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



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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: 61936

DST#: 1

Test Start: 2016.10.14 @ 16:39:00

GENERAL INFORMATION:

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Time Tool Opened: 18:05:30

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Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/4

Interval: 3531.00 ft (KB) To 3575.00 ft (KB) (TVD)

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8521 Outside

Press@RunDepth: 1226.14 psig @ 3572.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.14

End Date: 2016.10.14

Last Calib.: 2016.10.14

Start Time: 16:39:05

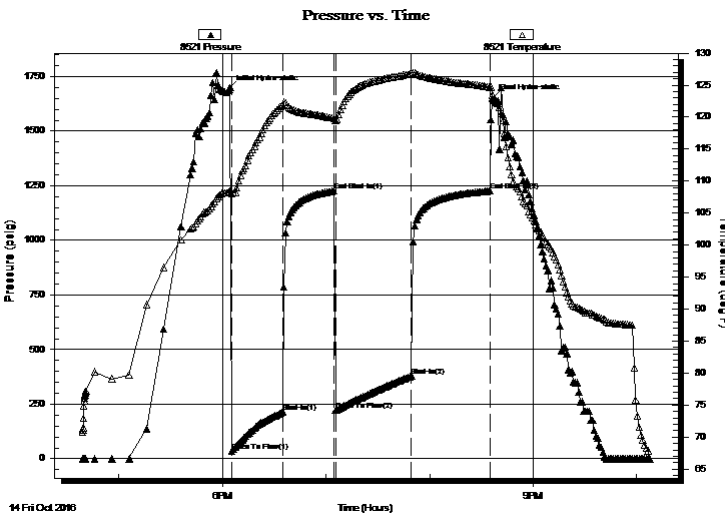
End Time: 22:07:29

Time On Btm: 2016.10.14 @ 18:04:00

Time Off Btm: 2016.10.14 @ 20:36:30

TEST COMMENT: I.F. 30 minutes/Blow built to bottom of bucket in 9 1/2 minutes
I.S.I. 30 minutes/No blow back
F.F. 45 minutes/Blow built to bottom of bucket in 12 minutes
F.S.I. 45 minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.48	108.29	Initial Hydro-static
2	32.95	108.06	Open To Flow (1)
31	215.00	121.95	Shut-In(1)
61	1226.16	119.85	End Shut-In(1)
62	221.32	119.49	Open To Flow (2)
106	380.38	126.77	Shut-In(2)
151	1226.14	124.66	End Shut-In(2)
153	1650.00	123.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
775.00	Muddy Water with show of oil in tool	9.23
0.00	Mud 5% Water 95%	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

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: 61936

DST#: 1

ATTN: Wyatt Urban

Test Start: 2016.10.14 @ 16:39:00

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:

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
775.00	Muddy Water with show of oil in tool	9.228
0.00	Mud 5% Water 95%	0.000

Total Length: 775.00 ft Total Volume: 9.228 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .162 ohms @ 68 deg.

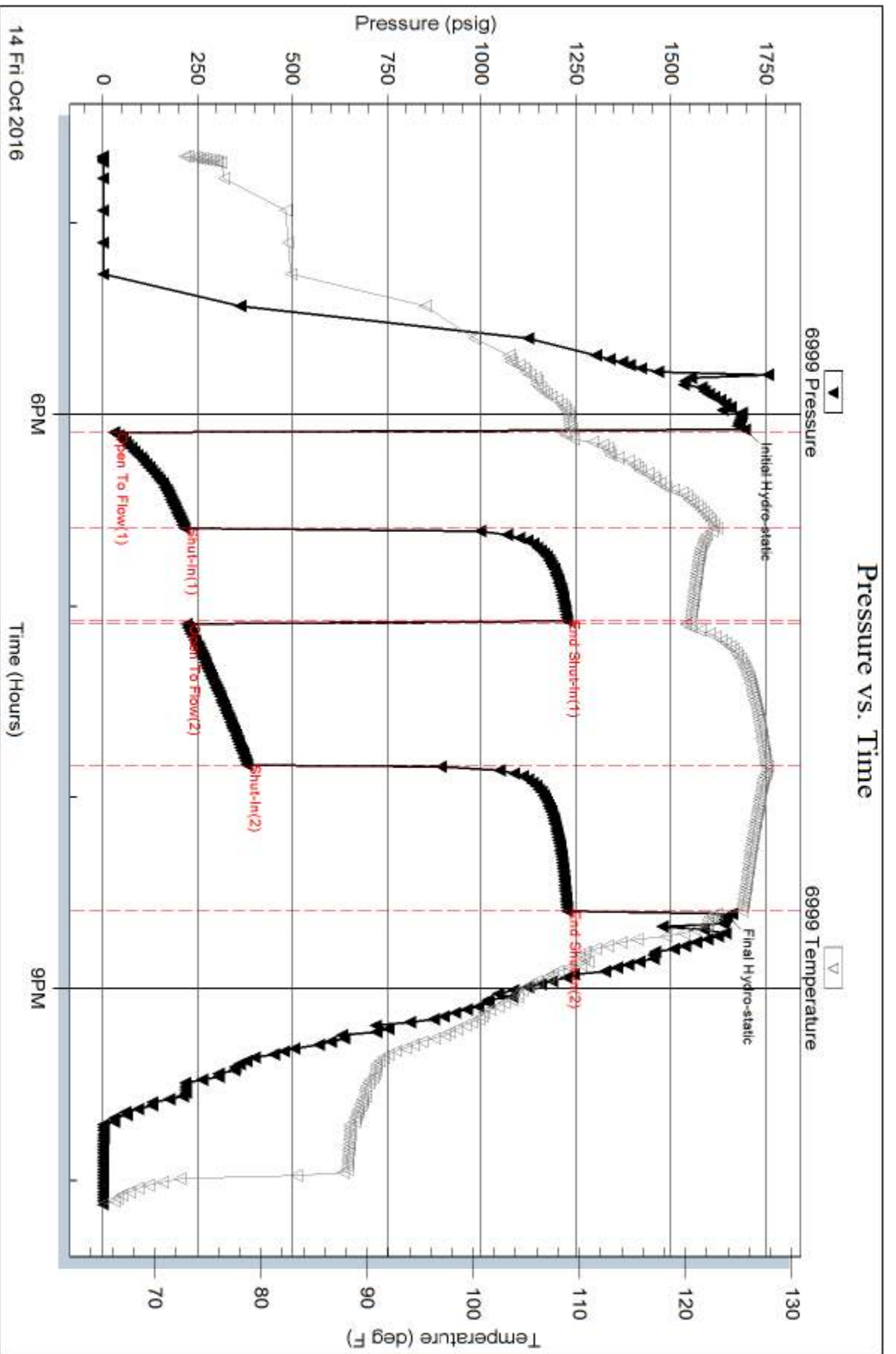
Serial #: 6999

Inside

Blue Ridge Petroleum

Brown #2-12

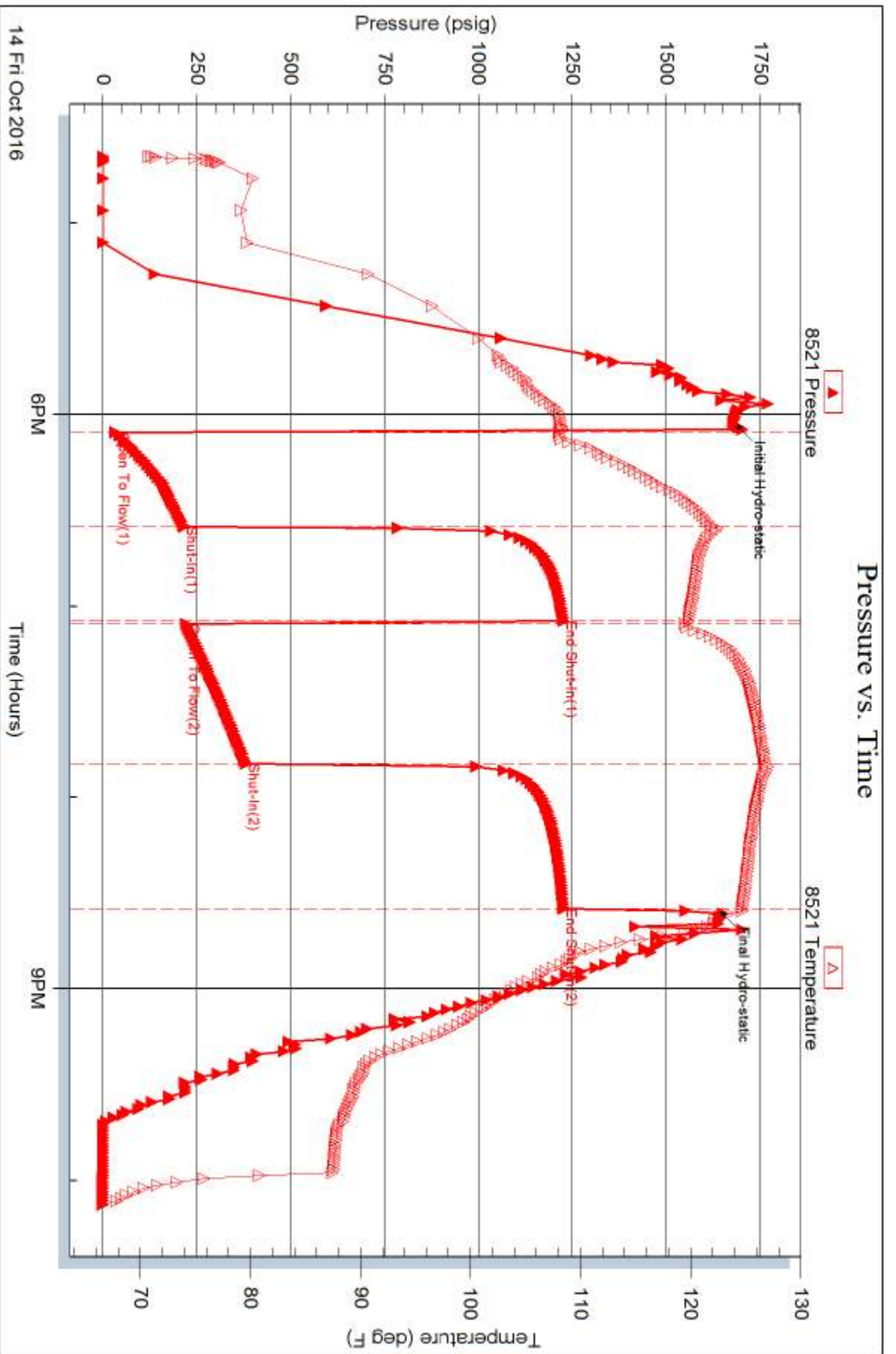
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61936

Printed: 2016.10.15 @ 07:54:38





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

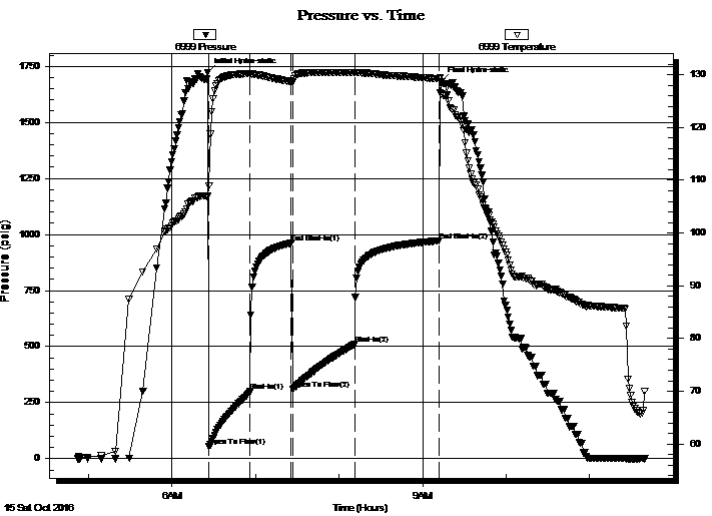
Time On Btm:

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)



**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 #: 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

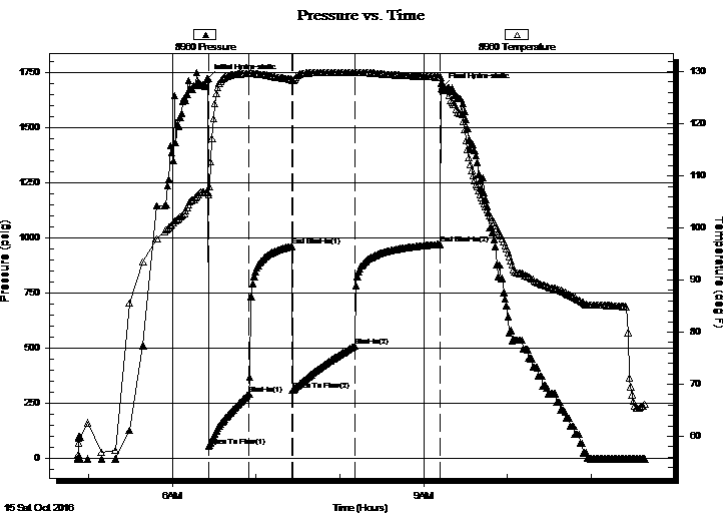
Time On Btm:

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)



**TRILOBITE
TESTING, INC**

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

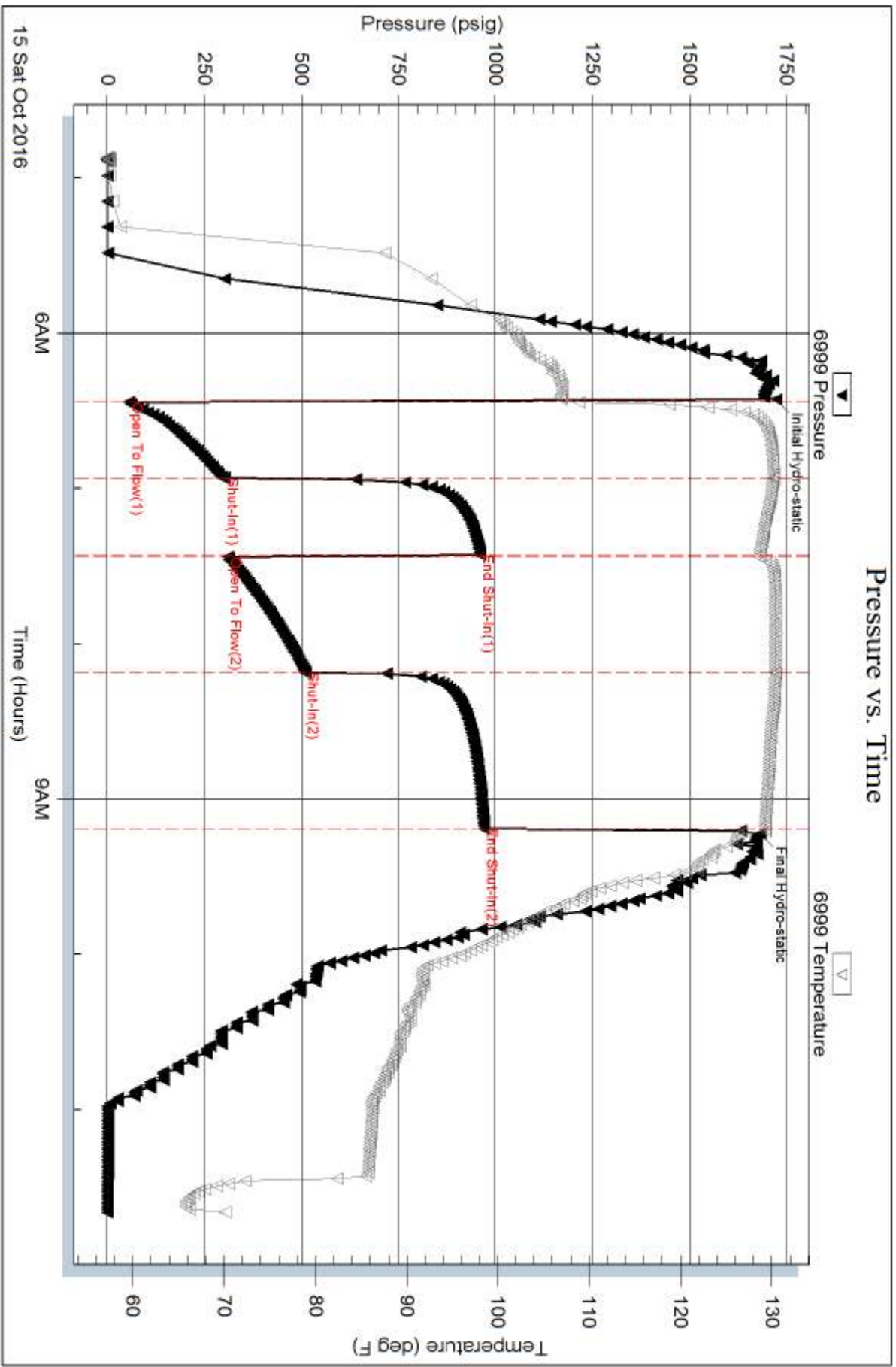
Serial #: 6999

Inside

Blue Ridge Petroleum

Brown #2-12

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61937

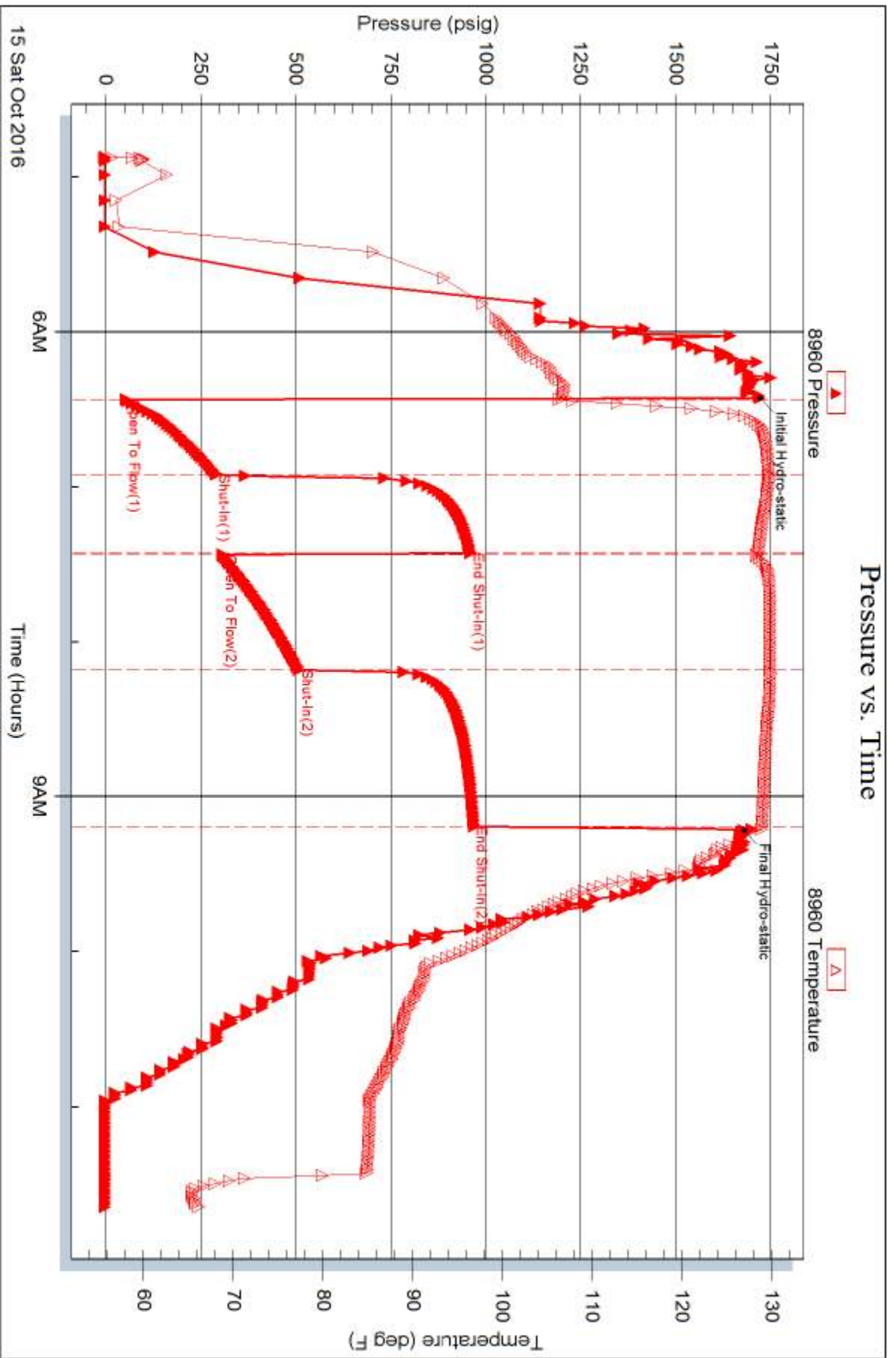
Printed: 2016.10.15 @ 15:02:49

Serial #: 8960

Outside Blue Ridge Petroleum

Brown #2-12

DST Test Number: 2





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: 61938

DST#: 3

Test Start: 2016.10.15 @ 18:54:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:30

Time Test Ended: 22:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/4

Interval: **3598.00 ft (KB) To 3634.00 ft (KB) (TVD)**

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3634.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6999 Inside

Press@RunDepth: psig @ 3630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.15 End Date: 2016.10.15

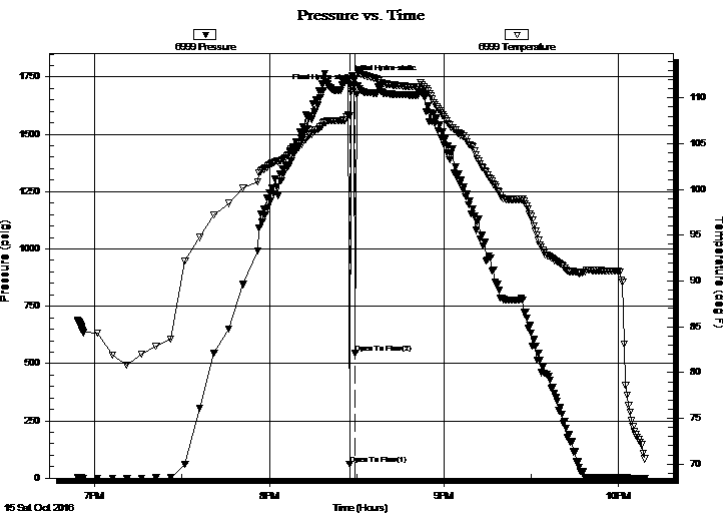
Last Calib.: 2016.10.15

Start Time: 18:54:05 End Time: 22:09:00

Time On Btm: 2016.10.15 @ 20:27:00

Time Off Btm: 2016.10.15 @ 20:31:00

TEST COMMENT: Packer failure/ Pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.25	108.19	Initial Hydro-static
1	61.43	108.08	Open To Flow (1)
3	544.40	111.07	Open To Flow (2)
4	1700.47	112.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%	1.05

Gas Rates

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

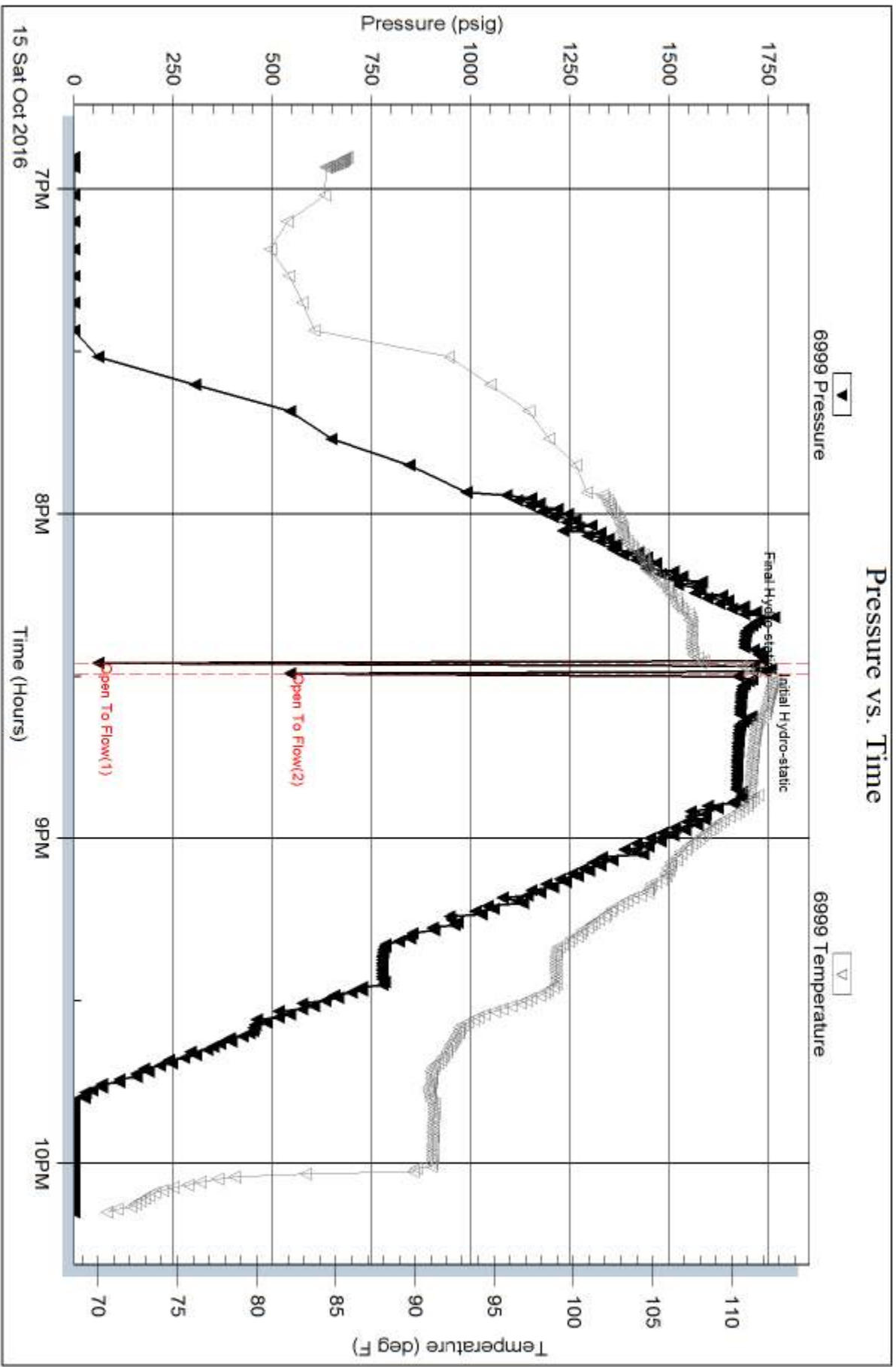
Serial #: 6999

Inside

Blue Ridge Petroleum

Brown #2-12

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61938

Printed: 2016.10.16 @ 07:37:39



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blue Ridge Petroleum

12/3S/29W/Decatur

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

Brown #2-12

Job Ticket: 61939

DST#: 4

Test Start: 2016.10.16 @ 10:05:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:45:30

Time Test Ended: 15:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/4

Interval: 3650.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6999

Press@RunDepth: 37.97 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.16 End Date: 2016.10.16

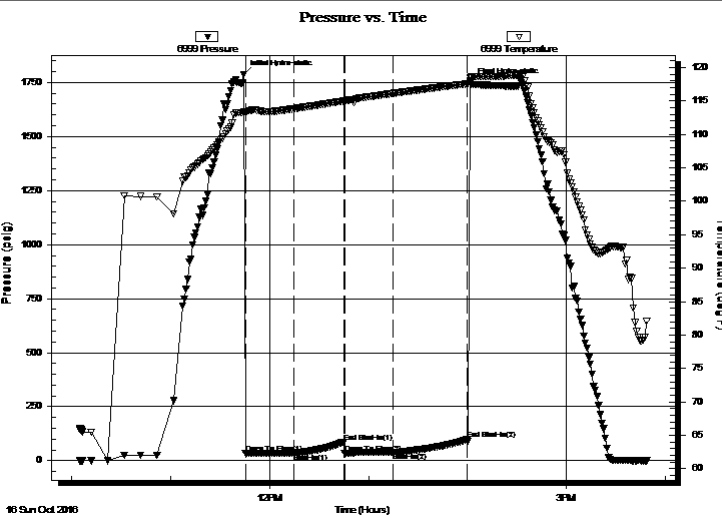
Last Calib.: 2016.10.16

Start Time: 10:05:05 End Time: 15:48:29

Time On Btm: 2016.10.16 @ 11:44:30

Time Off Btm: 2016.10.16 @ 14:02:00

TEST COMMENT: I.F. 30 minutes/Surface blow died in 7 minutes
I.S.I. 30 minutes/No blow back
F.F. 30 minutes/No blow /Flush tool no help
F.S.I. 45 minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.48	113.37	Initial Hydro-static
1	34.17	113.23	Open To Flow (1)
30	35.32	113.81	Shut-In(1)
61	87.20	114.98	End Shut-In(1)
61	35.62	114.98	Open To Flow (2)
91	37.97	116.12	Shut-In(2)
136	98.99	117.55	End Shut-In(2)
138	1749.35	118.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted Mud	0.04

Gas Rates

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



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: 61939

DST#: 4

Test Start: 2016.10.16 @ 10:05:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:45:30

Time Test Ended: 15:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Oberlin/4

Interval: **3650.00 ft (KB) To 3720.00 ft (KB) (TVD)**

Reference Elevations: 2555.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

2547.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960

Press@RunDepth: 98.40 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.16 End Date: 2016.10.16

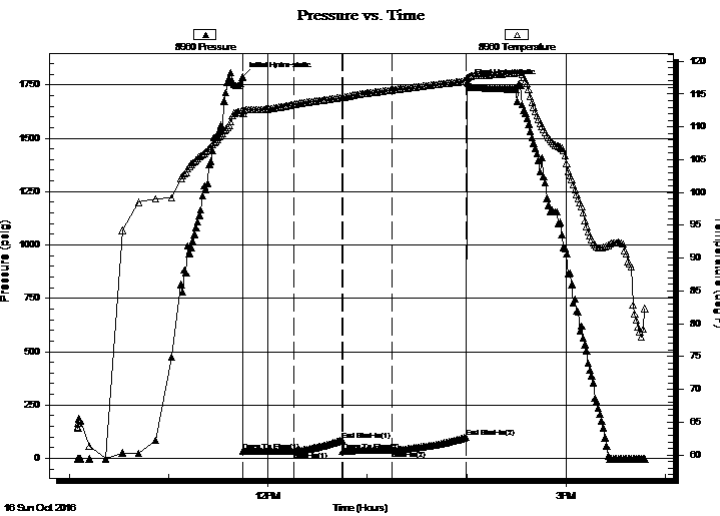
Last Calib.: 2016.10.16

Start Time: 10:05:05 End Time: 15:47:59

Time On Btm: 2016.10.16 @ 11:44:30

Time Off Btm: 2016.10.16 @ 14:01:00

TEST COMMENT: I.F. 30 minutes/Surface blow died in 7 minutes
 I.S.I. 30 minutes/No blow back
 F.F. 30 minutes/No blow /Flush tool no help
 F.S.I. 45 minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.93	112.54	Initial Hydro-static
1	32.28	112.04	Open To Flow (1)
31	33.87	113.42	Shut-In(1)
60	86.70	114.49	End Shut-In(1)
61	34.01	114.46	Open To Flow (2)
91	36.46	115.63	Shut-In(2)
135	98.40	117.00	End Shut-In(2)
137	1757.67	117.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted Mud	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

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: 61939

DST#: 4

ATTN: Wyatt Urban

Test Start: 2016.10.16 @ 10:05:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil spotted Mud	0.044

Total Length: 5.00 ft Total Volume: 0.044 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

