



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bentley Oil & Gas Co.
P.O. Box 5012
Wichita Falls TX 76307
ATTN: Kent Crisler

32-18-27 Lane Co KS
MRLLC #1
Job Ticket: 45462 **DST#: 1**
Test Start: 2011.10.25 @ 13:52:00

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:	32000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	OGCM 2%oil 5%G 93%M	0.358
60.00	OGWCM 5%oil 10%G 20%W 65%M	0.842
0.00	248' of GIP	0.000

Total Length: 105.00 ft Total Volume: 1.200 bbl

Num Fluid Samples: 0

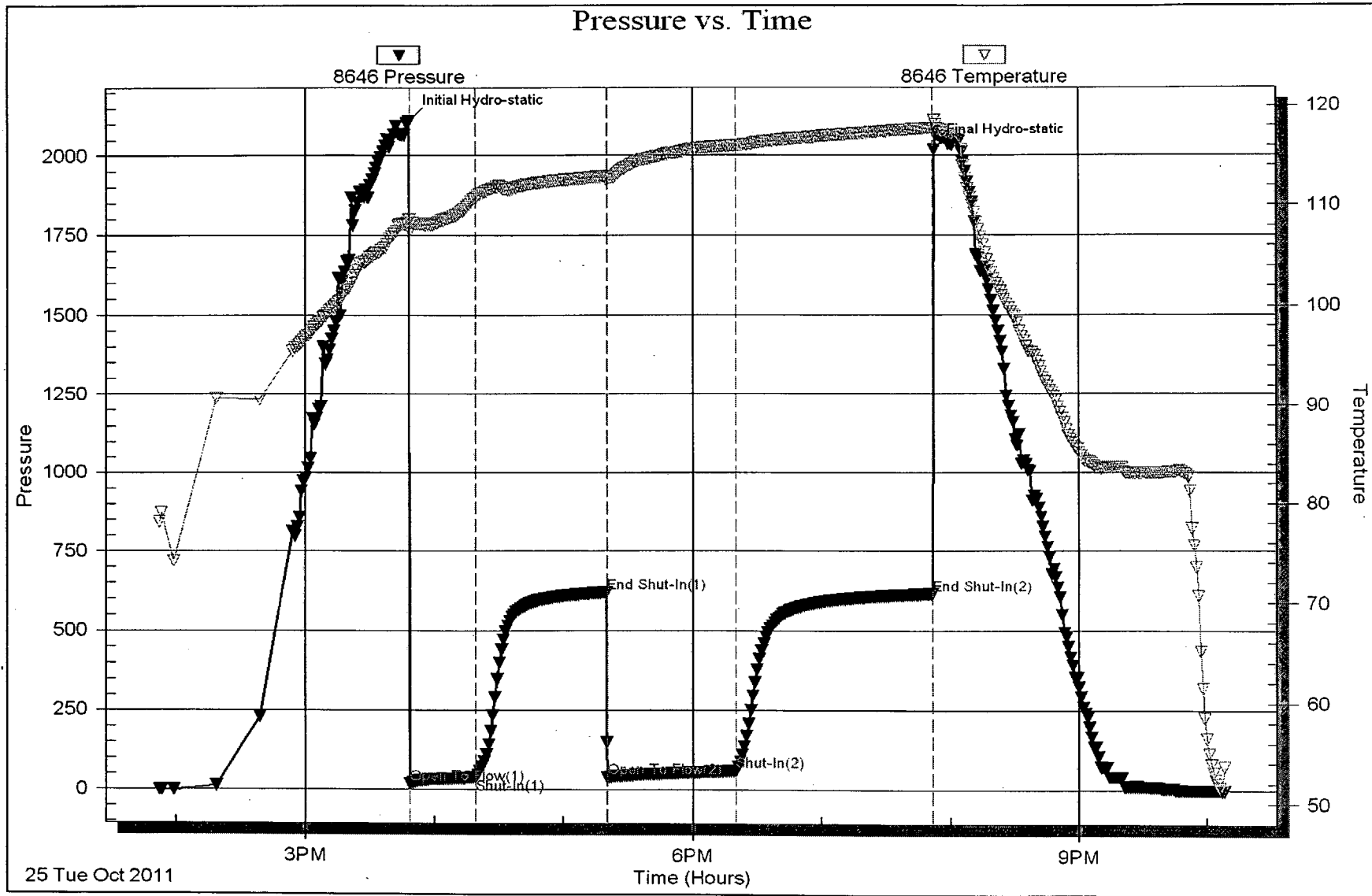
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .341@ 57f = 32000





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45462 14539

4/10

Well Name & No. MRLLC #1 Test No. DST #1 Date 10-25-11
 Company Bentley Oil & Gas Co. Elevation 2689 KB 2684 GL
 Address P.O. Box 5012 Wichita Falls TX 76307
 Co. Rep / Geo. Kent Crisler Rig Murfin 16
 Location: Sec. 3222 Twp. 18 Rge. 27 Co. Lane State KS

Interval Tested 4263-4310 Zone Tested LCK 'L'
 Anchor Length 47 Drill Pipe Run 4219 Mud Wt. 9.3
 Top Packer Depth 4259 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 4263 Wt. Pipe Run 0 WL 7.6
 Total Depth 4310 Chlorides 2300 ppm System LCM #216

Blow Description IF - Surface Blow Bu: It to 2 1/4"
ISI - No Blow
FF - BOB in 47 min
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OG WCM</u>	<u>10</u>	<u>5</u>	<u>20</u>	<u>65</u>
<u>45</u>	<u>OG CM</u>	<u>5</u>	<u>2</u>		<u>93</u>
<u>0</u>	<u>248' GIP</u>				

Rec Total 105 BHT 116 Gravity API RW .341 @ 57° F Chlorides 32000 ppm
 (A) Initial Hydrostatic 2112 Test 1225' T-On Location 13:07
 (B) First Initial Flow 17 Jars 250' T-Started 13:52
 (C) First Final Flow 38 Safety Joint 75' T-Open 15:48
 (D) Initial Shut-In 619 Circ Sub N/C T-Pulled 19:53
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 22:08
 (F) Second Final Flow 59 Mileage 70 RIT 98⁰⁰ Comments _____
 (G) Final Shut-In 614 Sampler _____
 (H) Final Hydrostatic 2017 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 1648
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1648

Approved By Kent Crisler Our Representative W.M. Marshall

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

WELL FILE



**TRILOBITE
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DRILL STEM TEST REPORT

Bentley Oil & Gas Co.

32-18-27 Lane Co KS

P.O. Box 5012
Wichita Falls TX 76307

MRLLC #1

Job Ticket: 45463

DST#: 2

ATTN: Kent Crisler

Test Start: 2011.10.26 @ 17:06:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:45

Time Test Ended: 01:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 48

Interval: **4473.00 ft (KB) To 4524.00 ft (KB) (TVD)**

Total Depth: 4524.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2689.00 ft (KB)

2684.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8646

Inside

Press@RunDepth: 30.66 psig @ 4476.00 ft (KB)

Start Date: 2011.10.26

End Date:

2011.10.27

Start Time: 17:06:00

End Time:

01:31:00

Capacity: 8000.00 psig

Last Calib.: 2011.10.27

Time On Btm: 2011.10.26 @ 19:03:30

Time Off Btm: 2011.10.26 @ 23:09:15

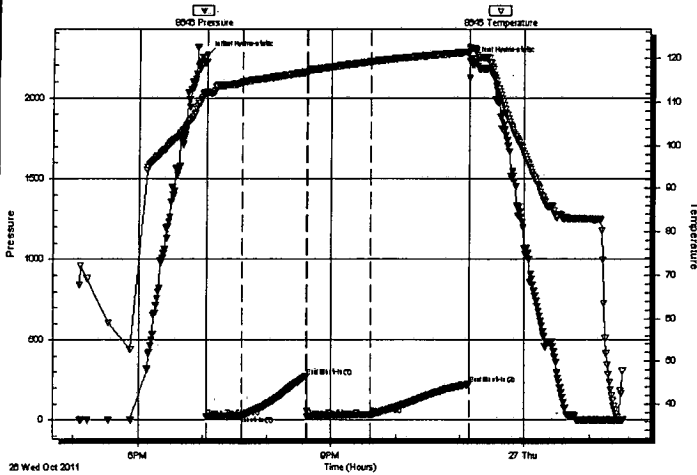
TEST COMMENT: IF- Surface Blow Built to 3 1/2"

IS- No Blow

FF- Surface Blow Built to 6 1/4"

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.61	112.39	Initial Hydro-static
1	17.81	111.81	Open To Flow (1)
33	26.84	114.48	Shut-In(1)
93	269.25	116.85	End Shut-In(1)
94	19.21	116.78	Open To Flow (2)
153	30.66	119.23	Shut-In(2)
246	222.45	121.46	End Shut-In(2)
246	2223.99	122.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM 10%g 10%oil 80%m	0.07
0.00	169' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bentley Oil & Gas Co.

32-18-27 Lane Co KS

P.O. Box 5012
Wichita Falls TX 76307

MRLLC #1

Job Ticket: 45463

DST#: 2

ATTN: Kent Crisler

Test Start: 2011.10.26 @ 17:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.60 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GOCM 10%g 10%oil 80%m	0.074
0.00	169' GIP	0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

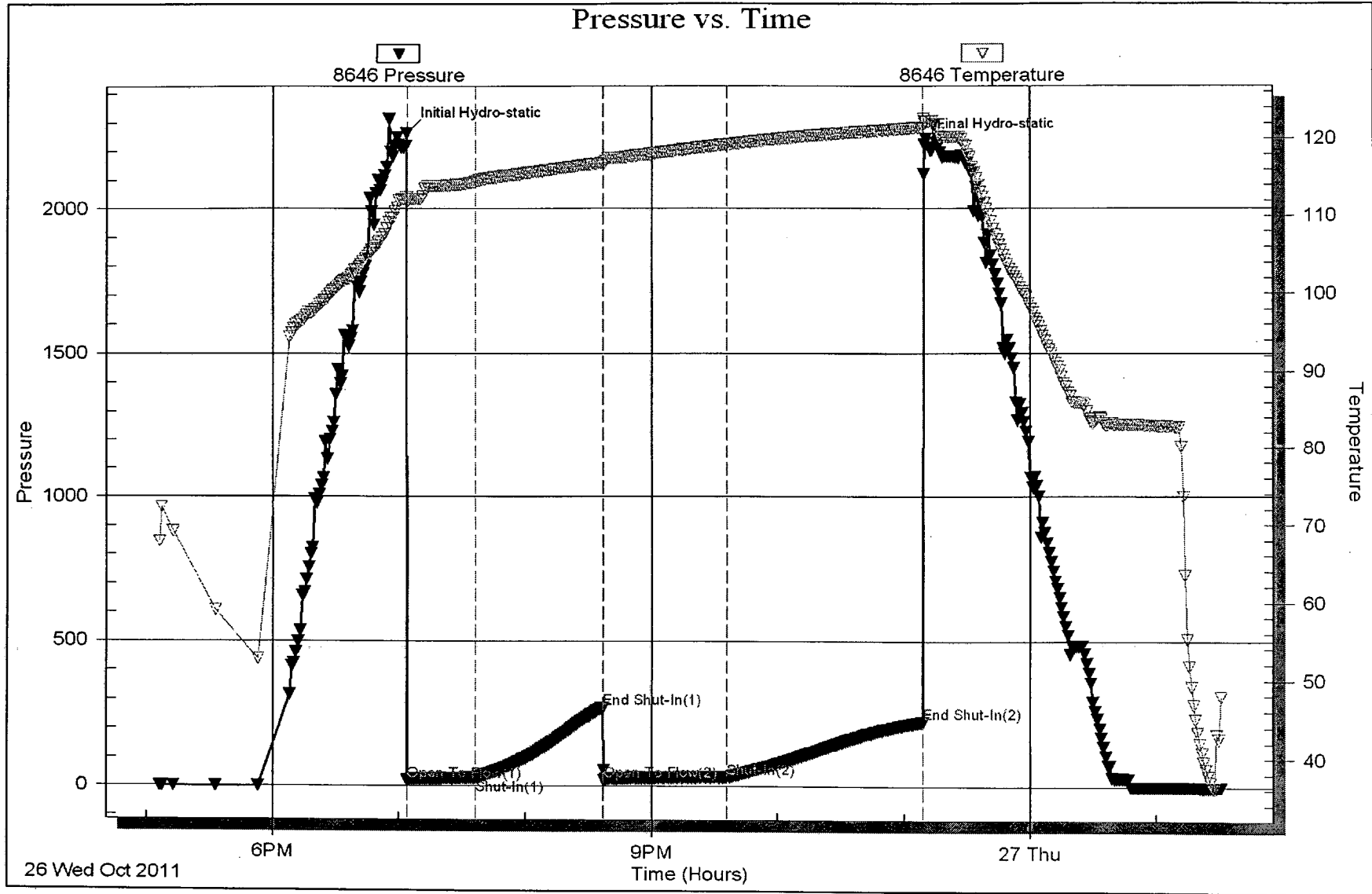
Num Gas Bombs: 0

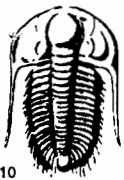
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45463

4/10

Well Name & No. MRLLC #1 Test No. DST #2 Date 10-26-11
 Company Bentley Oil & Gas Co. Elevation 2689 KB 2684 GL
 Address P.O. Box 5012 Wichita Falls TX 76307
 Co. Rep / Geo. Kent Crisler Rig Murfin 16
 Location: Sec. 3222 Twp. 18 Rge. 27 Co. Lane State KS

Interval Tested 4473-4524 Zone Tested Ft. Scott
 Anchor Length 51 Drill Pipe Run 4436 Mud Wt. 9.3
 Top Packer Depth 4469 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 4473 Wt. Pipe Run 0 WL 5.6
 Total Depth 4524 Chlorides 2500 ppm System LCM 216
 Blow Description IF - Surface Blow Built to 3 1/2"
ISI - No Blow
FF - Surface Blow Built to 6 1/4"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>60 CM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 119 Gravity 1225 API RW 75 @ 70 °F Chlorides 2500 ppm

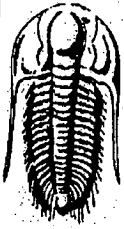
(A) Initial Hydrostatic 2263 Test 1225 T-On Location 16:12
 (B) First Initial Flow 17 Jars 250 T-Started 17:06
 (C) First Final Flow 26 Safety Joint 75 T-Open 19:03
 (D) Initial Shut-In 269 Circ Sub N/C T-Pulled 23:10
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 1:31
 (F) Second Final Flow 30 Mileage 70 RIT 98 Comments _____
 (G) Final Shut-In 222 Sampler _____
 (H) Final Hydrostatic 2223 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1618
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1618

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By Kent Crisler Our Representative Van Mar

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WELL FILE



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bentley Oil & Gas Co.
P.O. Box 5012
Wichita Falls TX 76307
ATTN: Kent Crisler

32-18-27 Lane Co KS
MRLLC #1
Job Ticket: 45464 DST#: 3
Test Start: 2011.10.27 @ 11:57:00

GENERAL INFORMATION:

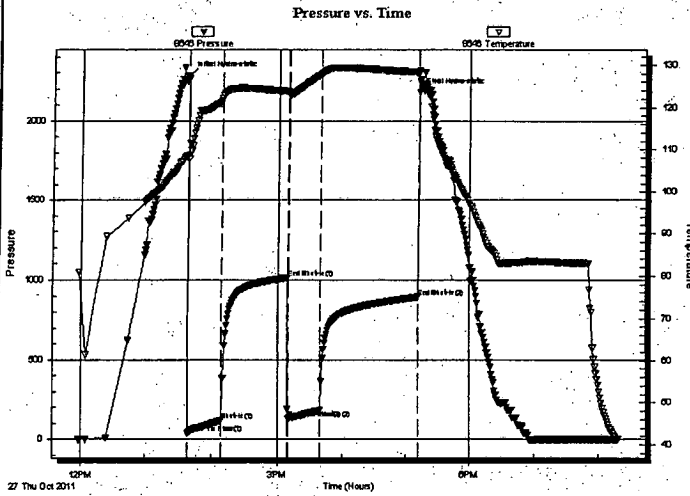
Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:39:00
Time Test Ended: 20:18:30
Interval: **4535.00 ft (KB) To 4583.00 ft (KB) (TVD)**
Total Depth: 4583.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 48
Reference Elevations: 2689.00 ft (KB)
2684.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8646

Inside

Press@RunDepth: 180.15 psig @ 4536.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.27 End Date: 2011.10.27 Last Calib.: 2011.10.27
Start Time: 11:57:00 End Time: 20:18:30 Time On Btm: 2011.10.27 @ 13:38:45
Time Off Btm: 2011.10.27 @ 17:12:45

TEST COMMENT: IF- BOB in 9 1/2min
IS- Surface Blow Built to 1 1/4" Died in 44min
FF- BOB in 10min
FSI- Surface Blow Built to 1"



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.35	108.58	Initial Hydro-static
1	36.34	107.81	Open To Flow (1)
31	116.40	122.22	Shut-in(1)
90	1012.71	123.78	End Shut-in(1)
92	127.12	123.05	Open To Flow (2)
121	180.15	127.80	Shut-in(2)
214	893.53	128.23	End Shut-in(2)
214	2181.25	128.46	Final Hydro-static

Recovery

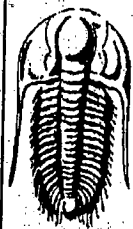
Length (ft)	Description	Volume (bbl)
82.00	GO 30%g 70%oil	0.88
101.00	OGCM 10%oil 15%g 75%m	1.42
124.00	OGCM 10%oil 20%g 70%m	1.74
126.00	GO 15%g 85%oil	1.77
0.00	372 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

RECEIVED
FEB 27 2012



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bentley Oil & Gas Co.

32-18-27 Lane Co KS

P.O. Box 5012
Wichita Falls TX 76307

MRLLC #1

Job Ticket: 45464

DST#: 3

ATTN: Kent Crisler

Test Start: 2011.10.27 @ 11:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
82.00	GO 30%g 70%oil	0.877
101.00	OGCM 10%oil 15%g 75%m	1.417
124.00	OGCM 10%oil 20%g 70%m	1.739
126.00	GO 15%g 85%oil	1.767
0.00	372 GIP	0.000

Total Length: 433.00 ft

Total Volume: 5.800 bbl

Num Fluid Samples: 0

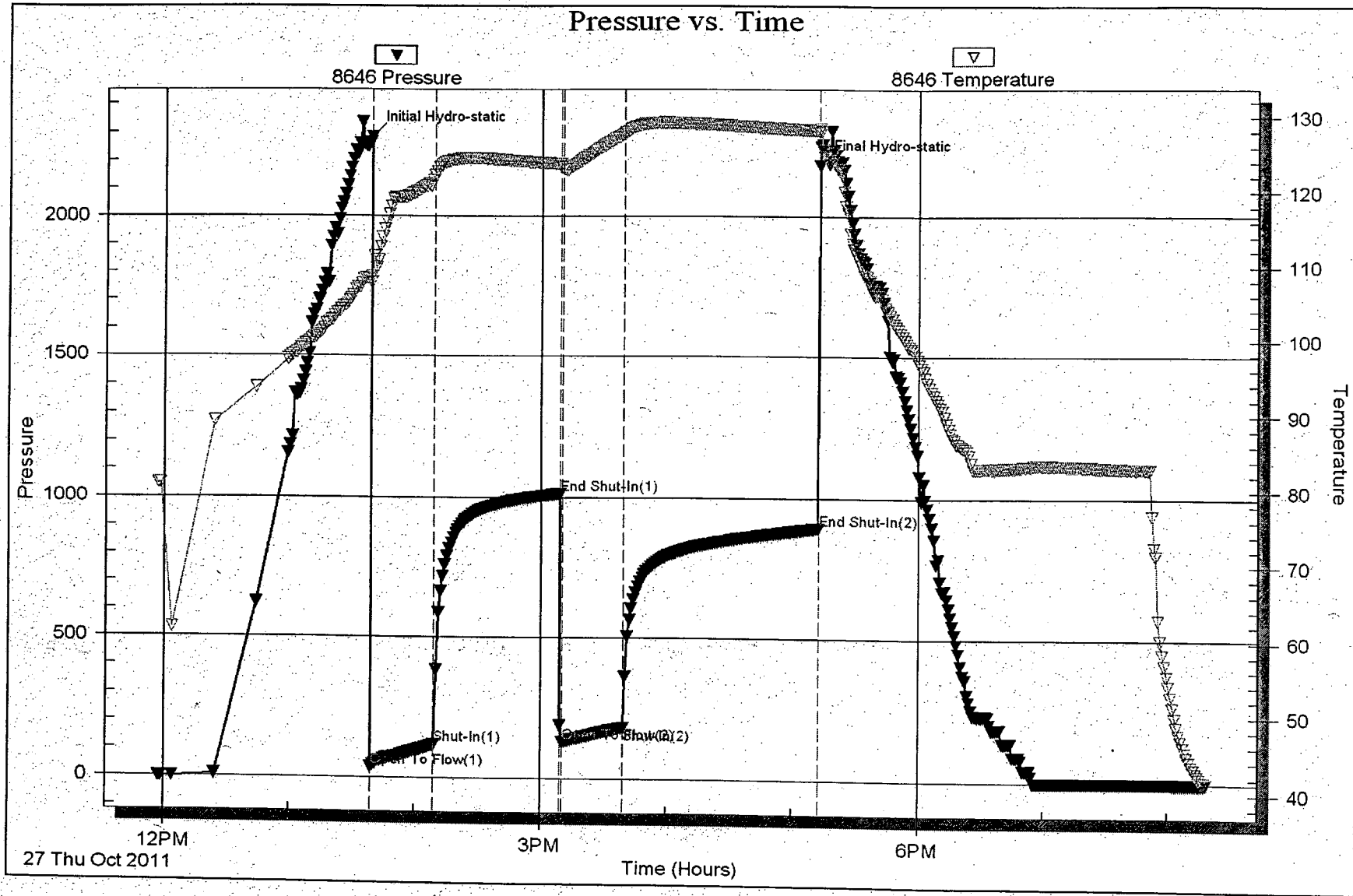
Num Gas Bombs: 0

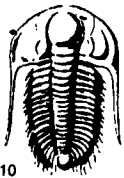
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 34 @ 40f = 36





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45464

4/10

Well Name & No. MRLLC #1 Test No. DST #3 Date 10-27-11
 Company Bentley Oil & Gas Co. Elevation 2689 KB 2684 GL
 Address P.O. Box 5012 Wichita Falls TX 76307
 Co. Rep / Geo. Kent Crisler Rig Murfin Rig 16
 Location: Sec. 3222 Twp. 18 Rge. 27 Co. Lane State KS

Interval Tested 4535 - 4583 Zone Tested Cherokee Sand
 Anchor Length 48 Drill Pipe Run 4499 Mud Wt. 9.5
 Top Packer Depth 4531 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 4535 Wt. Pipe Run 0 WL 6.8
 Total Depth 4583 Chlorides 2600 ppm System LCM 1
 Blow Description IF - BOB in 9 1/2 min
ISI - Surface Blow Built to 1/4" Dead in 44 min
FF - BOB in 10 min
FSI - Surface Blow Built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
126	G-O	15%	85%		
124	OGCM	20%	10%		70%
101	OGCM	15%	10%		75%
82	G-O	30%	70%		
	372 G-IP				

Rec Total 433 BHT 123 Gravity 36 API RW 34 @ 40 °F Chlorides _____ ppm

(A) Initial Hydrostatic 2281 Test 1225' T-On Location 11:06
 (B) First Initial Flow 36 Jars 250' T-Started 11:57
 (C) First Final Flow 116 Safety Joint 75' T-Open 13:39
 (D) Initial Shut-In 1012 Circ Sub N/C T-Pulled 17:14
 (E) Second Initial Flow 127 Hourly Standby _____ T-Out 20:18
 (F) Second Final Flow 180 Mileage 70 RIT 98' Comments _____
 (G) Final Shut-In 893 Sampler _____
 (H) Final Hydrostatic 2181 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90

Sub Total 16195'
 Total 16195'
 MP/DST Disc't _____

Approved By Kent Crisler Our Representative Wim Mast

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