

RECEIVED
SEP 20 2010



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St.
STE 900
Denver Co. 80202

ATTN: Josh Austin

3-18-32 Scott, Ks

Hueftle #90-3-1832

Start Date: 2010.09.07 @ 10:28:01

End Date: 2010.09.07 @ 17:39:45

Job Ticket #: 039721 DST #: 1

ORIGINAL

Trilobite Testing, Inc

PO Box 382 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

*Add'l copies
in log file*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FML Natural Resources LLC

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

Hueftle #90-3-1832

3-18-32 Scott, Ks

Job Ticket: 039721

DST#: 1

Test Start: 2010.09.07 @ 10:28:01

GENERAL INFORMATION:

Formation: Lansing H-I

Deviated: No Whipstock ft (KB)

Time Tool Opened: 12:28:15

Time Test Ended: 17:39:45

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 28

Interval: 4179.00 ft (KB) To 4235.00 ft (KB) (TVD)

Total Depth: 4235.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 4179.00 ft (KB)

4169.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8654

Inside

Press@RunDepth: 263.77 psig @ 4180.00 ft (KB)

Start Date: 2010.09.07

End Date:

2010.09.07

Start Time: 10:28:01

End Time:

17:39:45

Capacity: 8000.00 psig

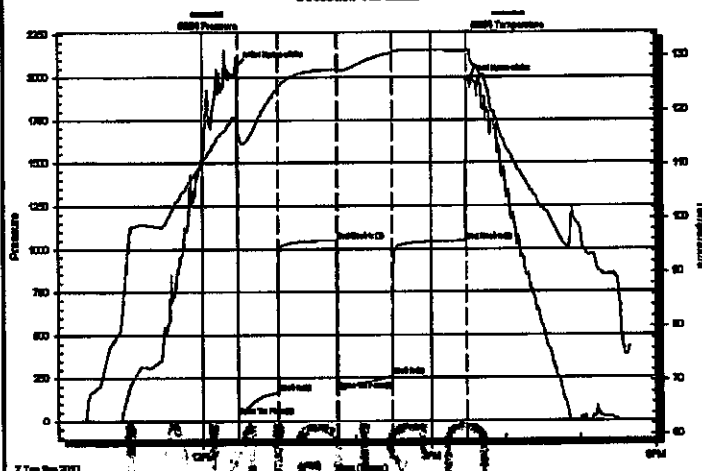
Last Calib.: 2010.09.07

Time On Btm: 2010.09.07 @ 12:27:45

Time Off Btm: 2010.09.07 @ 15:28:30

TEST COMMENT: IF: BOB in 23 min
IS: No return blow
FF: Bob in 35 min.
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

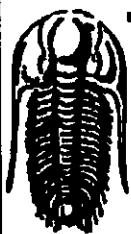
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.78	118.91	Initial Hydro-static
1	35.95	117.95	Open To Flow (1)
32	187.69	124.04	Shut-in(1)
78	1047.73	127.59	End Shut-in(1)
79	181.06	127.43	Open To Flow (2)
122	263.77	130.68	Shut-in(2)
181	1045.27	130.89	End Shut-in(2)
181	1982.54	131.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
206.00	mcw with oil spots 40% m 60% w	1.01
124.00	mcw 30% m 70% w	1.48
240.00	mcw 10% m 90% w	3.51

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/D)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

Hueftle #90-3-1832

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

3-18-32 Scott, Ks
Job Ticket: 039721 DST#: 1
Test Start: 2010.09.07 @ 10:28:01

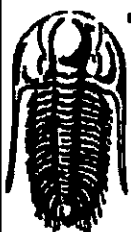
Tool Information

Drill Pipe:	Length: 3926.00 ft	Diameter: 3.88 inches	Volume: 57.41 bbl	Tool Weight:	0.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 58.59 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4179.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4160.00	
Shut In Tool	5.00			4165.00	
Hydraulic tool	5.00			4170.00	
Packer	5.00			4175.00	20.00 Bottom Of Top Packer
Packer	4.00			4179.00	
Stubb	1.00			4180.00	
Recorder	0.00	8654	Inside	4180.00	
Recorder	0.00	8166	Inside	4180.00	
Perforations	5.00			4185.00	
Change Over Sub	1.00			4186.00	
Drill Pipe	31.00			4217.00	
Change Over Sub	1.00			4218.00	
Perforations	14.00			4232.00	
Bullnose	3.00			4235.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Huefile #90-3-1832

410 17th St.

3-18-32 Scott, Ks

STE 900

Job Ticket: 039721

DST#: 1

Denver Co. 80202

Test Start: 2010.09.07 @ 10:28:01

ATTN: Josh Austin

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

10000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm-m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
206.00	mcw w th oil spots 40% m 60% w	1.013
124.00	mcw 30% m 70% w	1.483
240.00	mcw 10% m 90% w	3.510

Total Length: 570.00 ft

Total Volume: 6.006 bbl

Num Fluid Samples: 0

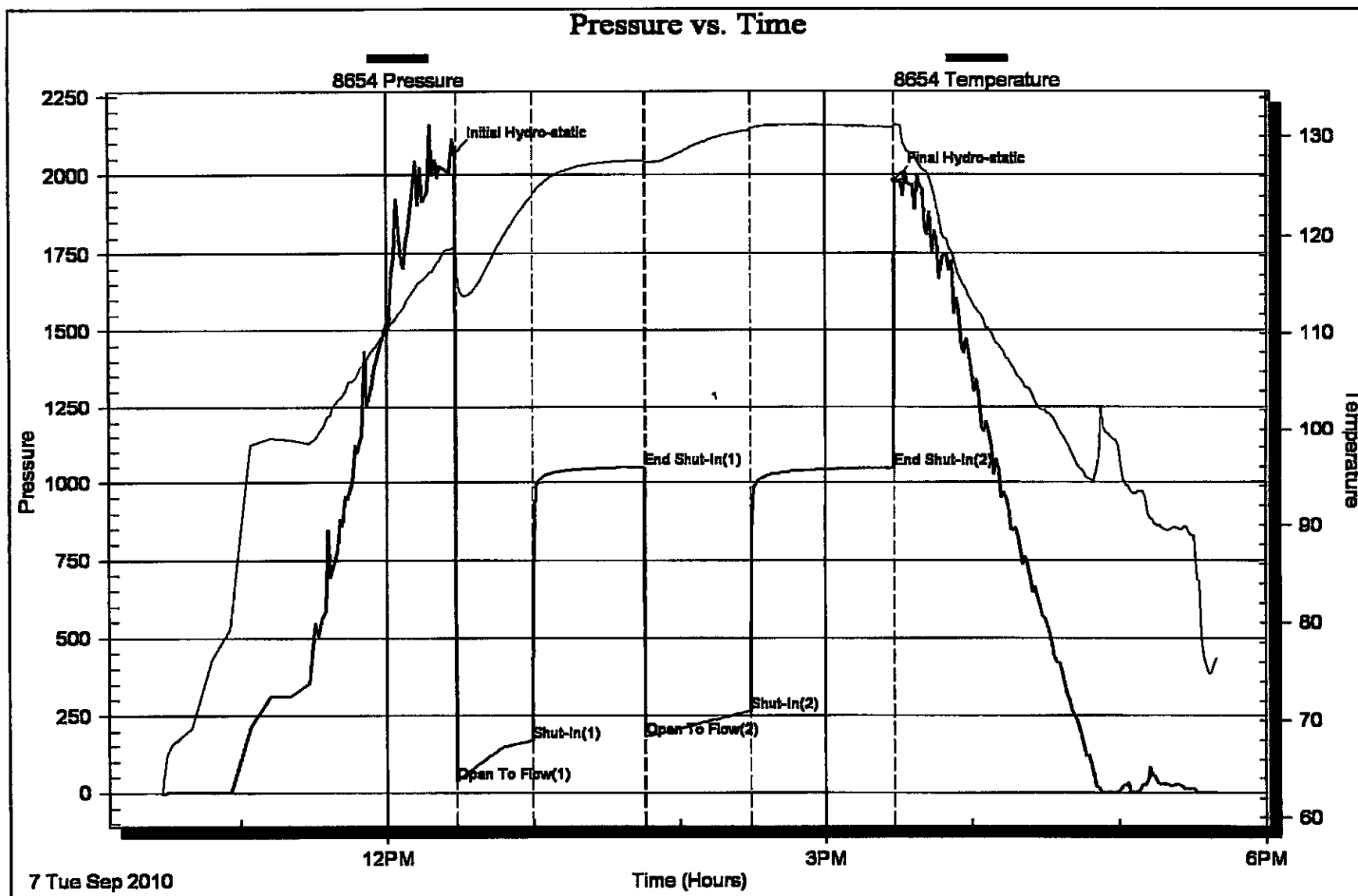
Num Gas Bombs: 0

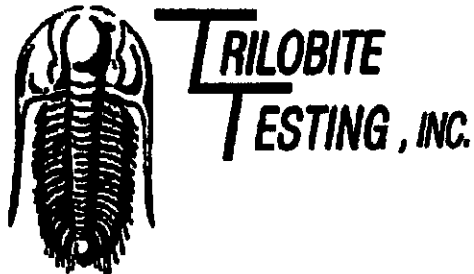
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= 84.7 @.531=10000 ppm





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St.
STE 900
Denver Co. 80202

ATTN: Josh Austin

3-18-32 Scott,Ks

Hueftle #90-3-1832

Start Date: 2010.09.08 @ 12:53:15

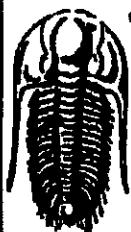
End Date: 2010.09.08 @ 18:57:00

Job Ticket #: 039722 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

Huefile #90-3-1832

3-18-32 Scott, Ks

Job Ticket: 039722

DST#: 2

Test Start: 2010.09.08 @ 12:53:15

GENERAL INFORMATION:

Formation: Marmaton-Altamont

Deviated: No Whipstock ft (KB)

Time Tool Opened: 14:39:00

Time Test Ended: 18:57:00

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 28

Interval: 4338.00 ft (KB) To 4438.00 ft (KB) (TVD)

Total Depth: 4438.00 ft (KB) (TVD)

Hole Diameter: 7.88 Inches Hole Condition: Fair

Reference Elevations: 4179.00 ft (KB)

4169.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6669

Inside

Press@RunDepth: 53.52 psig @ 4337.00 ft (KB)

Start Date: 2010.09.08

End Date:

2010.09.08

Start Time: 12:53:15

End Time:

18:57:00

Capacity: 8000.00 psig

Last Calib.: 2010.09.08

Time On Btm: 2010.09.08 @ 14:38:15

Time Off Btm: 2010.09.08 @ 16:56:30

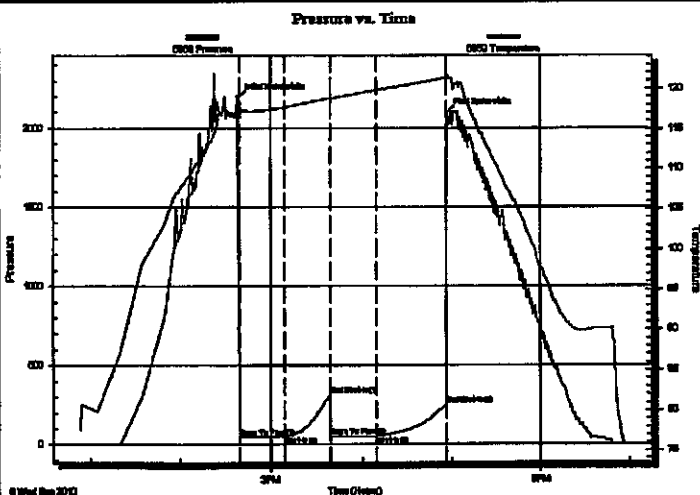
TEST COMMENT: IF: Built to 3/4" blow started dying in 20 min. died in 28 min.

IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.26	116.90	Initial Hydro-static
1	48.40	116.44	Open To Flow (1)
31	51.79	117.67	Shut-In(1)
61	313.30	118.84	End Shut-In(1)
61	53.19	118.71	Open To Flow (2)
91	53.52	119.79	Shut-In(2)
138	253.14	121.31	End Shut-In(2)
139	2095.74	121.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	m w ith oil spots	0.02

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

Hueftle #90-3-1832

410 17th St.
STE 900
Denver Co. 80202
ATTN: Josh Austin

3-18-32 Scott, Ks

Job Ticket: 039722

DST#: 2

Test Start: 2010.09.08 @ 12:53:15

Tool Information

Drill Pipe:	Length: 4080.00 ft	Diameter: 3.88 inches	Volume: 59.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 60.85 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4336.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4317.00	
Shut In Tool	5.00			4322.00	
Hydraulic tool	5.00			4327.00	
Packer	5.00			4332.00	20.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8654	Inside	4337.00	
Recorder	0.00	6669	Inside	4337.00	
Perforations	5.00			4342.00	
Change Over Sub	1.00			4343.00	
Drill Pipe	63.00			4406.00	
Change Over Sub	1.00			4407.00	
Perforations	28.00			4435.00	
Bullnose	3.00			4438.00	102.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Hueftle #90-3-1832

410 17th St.

3-18-32 Scott, Ks

STE 900

Job Ticket: 039722

DST#: 2

Denver Co. 80202

Test Start: 2010.09.08 @ 12:53:15

ATTN: Josh Austin

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mw lith oil spots	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

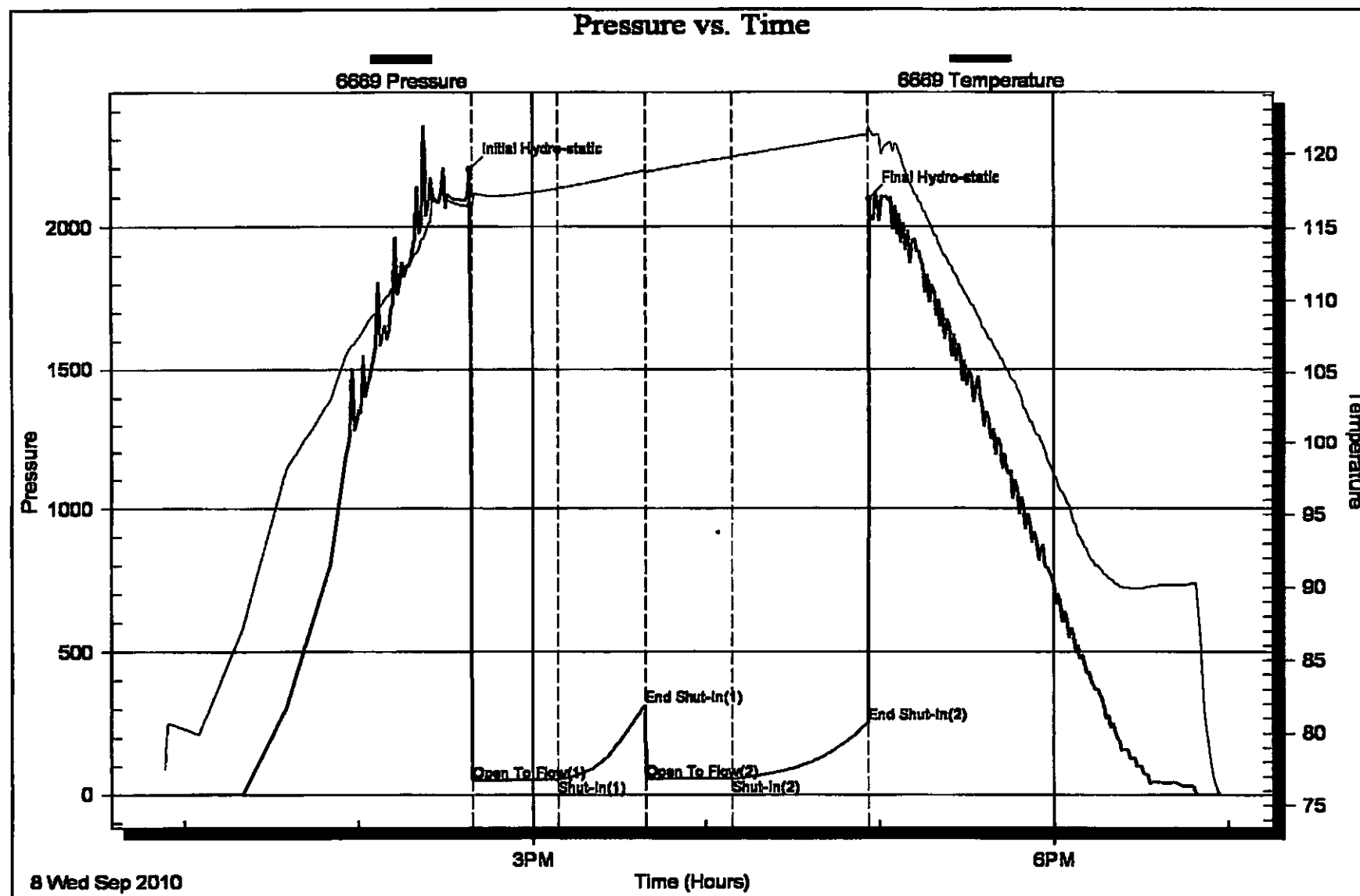
Num Gas Bombs: 0

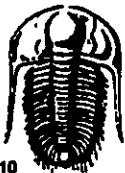
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
SEP 10 2010

Test Ticket

NO. 039721

Well Name & No. FIML Natural Resources LLC Test No. 1 Date 9-7-10
 Company Hufftle # 9A 3-1832 Elevation 4179 KB 4169 GL
 Address 410 17th St STE 900 Denver CO 80202
 Co. Rep / Geo. Josh Austin Rig Martin 21
 Location: Sec. 3 Twp. 18 Rge. 32 Co. Scott State KS

Interval Tested 4179-4235 Zone Tested Lansing H & T
 Anchor Length 56' Drill Pipe Run 3928 Mud Wt. 9.3
 Top Packer Depth 4174 Drill Collars Run 240 Vis 48
 Bottom Packer Depth 4179 Wt. Pipe Run Ø WL 10.5
 Total Depth 4235 Chlorides 2200 ppm System LCM 3

Blow Description IF: BOB in 23 Min
IS: No Return Blow
FF: BOB in 35 Min.
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>206</u>	<u>Feet of MLW with oil Spots</u>		<u>60</u>	<u>40</u>	
<u>124</u>	<u>Feet of MLW</u>		<u>70</u>	<u>30</u>	
<u>240</u>	<u>Feet of MLW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>570</u>	Feet of	%gas	%oil	%water	%mud

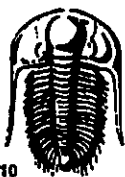
Rec Total 570 BHT - Gravity - API RW 84.7 @ .531 °F Chlorides 10,000 ppm
 (A) Initial Hydrostatic 2065 ☒ Test 1225.00 T-On Location 09:11
 (B) First Initial Flow 35 ☐ Jars - T-Started 10:28
 (C) First Final Flow 167 ☐ Safety Joint - T-Open 12:30
 (D) Initial Shut-In 1047 ☒ Circ Sub NL T-Pulled 15:30
 (E) Second Initial Flow 181 ☐ Hourly Standby - T-Out 17:39
 (F) Second Final Flow 263 ☐ Mileage 10 RT- 12.5% Comments -
 (G) Final Shut-In 1043 ☐ Sampler -
 (H) Final Hydrostatic 1982 ☐ Straddle -
☐ Ruined Shale Packer -
☐ Ruined Packer -
☐ Extra Copies -

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Sub Total 1237.50/- MP/DST Disc't -

Approved By [Signature] Our Representative Matej Roha

Triobite Testing Inc. shall not be liable for damaged or 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.



**TRIBOLITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED

SEP 10 2010

Test Ticket

NO. 039722

Well Name & No. Hueffle #92-3-1832 BY Test No. 2 Date 9-8-10
Company FLML Natural Resources LLC Elevation 4179 KB 4169 GL
Address 410 17th St. STE 900 Denver CO 80202
Co. Rep / Geo. Josh Austin Rig Murfin 21
Location: Sec. 3 Twp. 18 Rge. 32 Co. Scott State KS

Interval Tested 4336-4438 Zone Tested Marmaton-Altmont
Anchor Length 102' Drill Pipe Run 4080 Mud Wt. 9.3
Top Packer Depth 4331 Drill Collars Run 240 Vis 55
Bottom Packer Depth 4336 Wt. Pipe Run Ø WL 7.2
Total Depth 4438 Chlorides 2500 ppm System LCM 3
Blow Description IF: Built to 3/4" blow started dying in 20min died in 28 min
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M with oil spots</u>			<u>100</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 5 BHT 121 Gravity 1 API RW 1 @ 1 ° F Chlorides 1 ppm
(A) Initial Hydrostatic 2195 ☒ Test 1225.00 T-On Location 12:00
(B) First Initial Flow 48 ☐ Jars T-Started 12:53
(C) First Final Flow 50 ☐ Safety Joint T-Open 14:38
(D) Initial Shut-In 313 ☒ Circ Sub NL T-Pulled 16:53
(E) Second Initial Flow 53 ☐ Hourly Standby T-Out 18:59
(F) Second Final Flow 53 ☒ Mileage 10 RT = 12.50 Comments
(G) Final Shut-In 253 ☐ Sampler
(H) Final Hydrostatic 2095 ☐ Straddle

Initial Open 30 ☐ Ruined Shale Packer
Initial Shut-In 30 ☐ Ruined Packer
Final Flow 30 ☐ Extra Packer
Final Shut-In 45 ☐ Extra Recorder
☐ Day Standby Sub Total Ø
☐ Accessibility Total 1237.50
Sub Total 1237.50/- MP/DST Disc't

Approved By W. J. [Signature] Our Representative Mike Borker
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