



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1198841
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1198841

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	FIML Natural Resources, LLC
Well Name	Pfenninger 02-33-1831
Doc ID	1198841

All Electric Logs Run

Compact photo density
Compensated sonic
Resistivity
Array Induction



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. 900
Denver CO. 80202

ATTN: Gary Doke/ Jim Musgr

Pfenninger02-33-1831

33-18s-31w Scott,KS

Start Date: 2013.12.28 @ 11:16:00

End Date: 2013.12.28 @ 20:24:55

Job Ticket #: 50228 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.03 @ 08:57:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18s-31w Scott, KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

ATTN: Gary Doke/ Jim Musgr

Job Ticket: 50228

DST#: 1

Test Start: 2013.12.28 @ 11:16:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:40

Time Test Ended: 20:24:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4163.00 ft (KB) To 4192.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4192.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press@RunDepth: 537.97 psig @ 4164.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.28

End Date:

2013.12.28

Last Calib.:

2013.12.28

Start Time: 11:16:00

End Time:

20:24:55

Time On Btm:

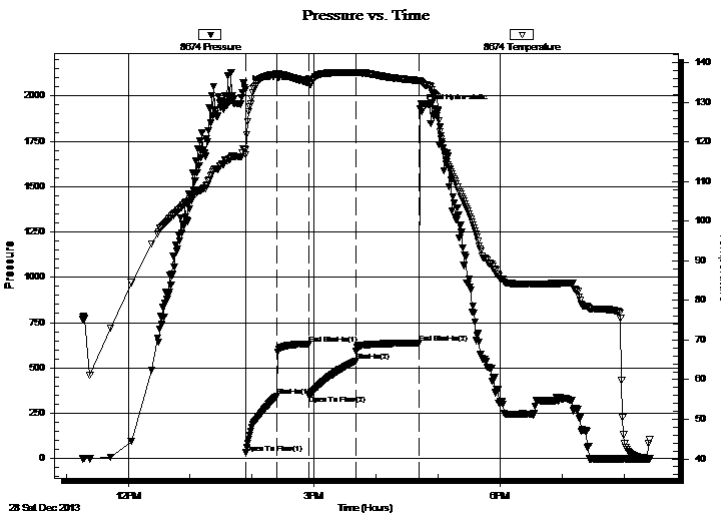
2013.12.28 @ 13:53:25

Time Off Btm:

2013.12.28 @ 16:42:24

TEST COMMENT: IF- Surface Blow Built to BOB in 6 1/2 min
IS- No Blow
FF- Weak Surface Blow Built to BOB in 11 1/4 min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.43	118.14	Initial Hydro-static
1	30.90	116.82	Open To Flow (1)
31	345.74	137.12	Shut-In(1)
62	633.03	134.97	End Shut-In(1)
62	349.06	134.79	Open To Flow (2)
107	537.97	137.54	Shut-In(2)
169	637.37	135.48	End Shut-In(2)
169	1927.53	135.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	GWCM 6%g 40%w 54%m	0.46
655.00	MCGW 7%m 8%g 85%w 48ppm of H ₂	2.66
188.00	GMCW 5%g 22%m 73%w 18ppm of H ₂	2.64
238.00	GWCM 4%g 44%w 52%m 11ppm of H ₂	3.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50228

DST#: 1

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.28 @ 11:16:00

Tool Information

Drill Pipe:	Length: 3796.00 ft	Diameter: 3.80 inches	Volume: 53.25 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: 28000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 18000.00 lb
			<u>Total Volume: 55.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4163.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4144.00	
Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Packer	5.00			4159.00	20.00 Bottom Of Top Packer
Packer	4.00			4163.00	
Stubb	1.00			4164.00	
Recorder	0.00	8355	Outside	4164.00	
Recorder	0.00	8674	Inside	4164.00	
Perforations	23.00			4187.00	
Bullnose	5.00			4192.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50228

DST#: 1

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.28 @ 11:16:00

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:

41000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
93.00	GWCM 6%g 40%w 54%m	0.457
655.00	MCGW 7%m 8%g 85%w 48ppm of H2S	6.655
188.00	GMCW 5%g 22%m 73%w 18ppm of H2S	2.637
238.00	GWCM 4%g 44%w 52%m 11ppm of H2S	3.339

Total Length: 1174.00 ft Total Volume: 13.088 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

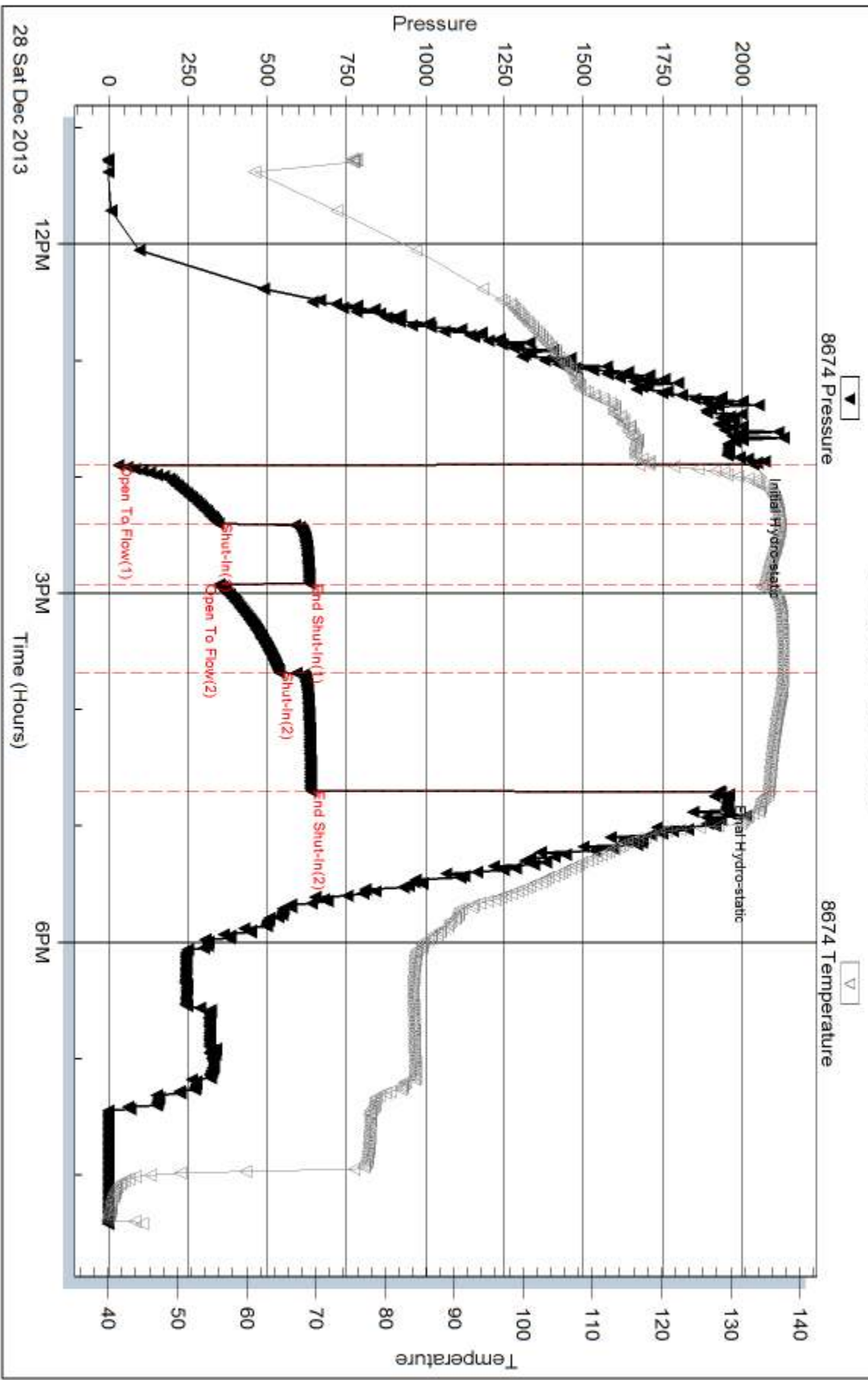
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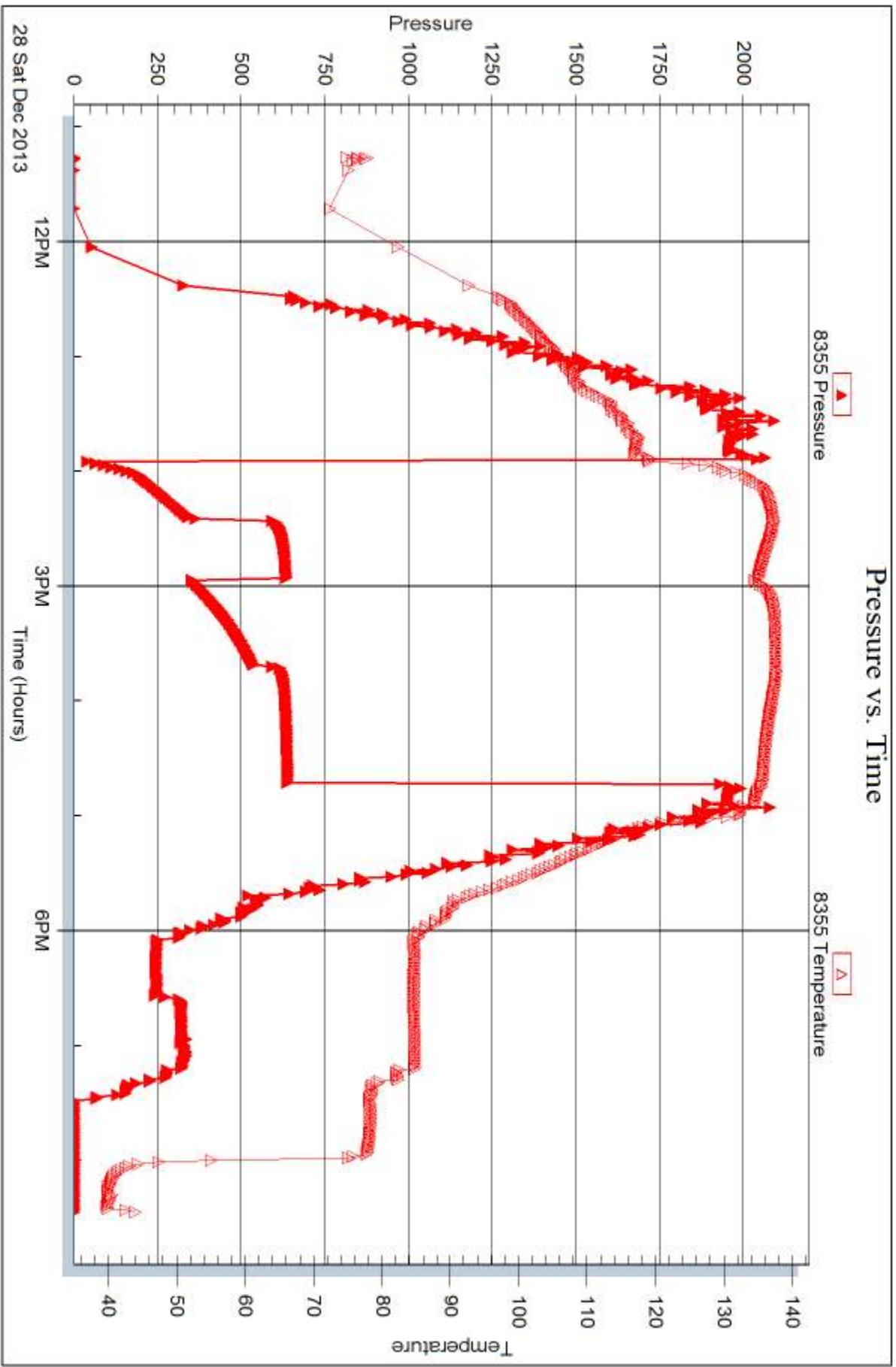
Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .239 @ 50f = 41000

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. 900
Denver CO. 80202

ATTN: Gary Doke/ Jim Musgr

Pfenninger02-33-1831

33-18s-31w Scott,KS

Start Date: 2013.12.29 @ 12:34:00

End Date: 2013.12.29 @ 20:42:39

Job Ticket #: 50229 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.03 @ 08:56:52



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

ATTN: Gary Doke/ Jim Musgr

Job Ticket: 50229

DST#: 2

Test Start: 2013.12.29 @ 12:34:00

GENERAL INFORMATION:

Formation: **LKC J - K - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:28:55

Time Test Ended: 20:42:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4200.00 ft (KB) To 4304.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4304.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press@RunDepth: 237.99 psig @ 4202.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.29

End Date:

2013.12.29

Last Calib.:

2013.12.29

Start Time: 12:34:00

End Time:

20:42:39

Time On Btm:

2013.12.29 @ 15:28:40

Time Off Btm:

2013.12.29 @ 18:19:09

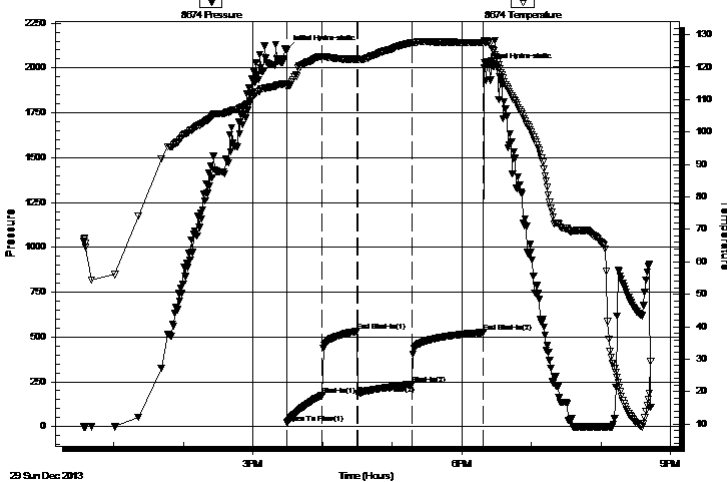
TEST COMMENT: IF- Weak Surface Blow Built to 7 1/2"

IS- No Blow

FF- Weak Surface Blow Built to 1 3/4"

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.45	114.87	Initial Hydro-static
1	21.28	113.98	Open To Flow (1)
31	175.93	123.29	Shut-In(1)
62	532.20	122.43	End Shut-In(1)
62	179.98	122.27	Open To Flow (2)
109	237.99	127.45	Shut-In(2)
170	525.73	127.63	End Shut-In(2)
171	2003.64	128.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WCM 28%w 72%w with Oil Spots	0.91
93.00	WCM 19%w 81%w with Skim of Oil	0.46
187.00	OWCM 1%oil 16%w 83%w	1.79
57.00	WCM 10%w 90%w with Oil Spots	0.80

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50229

DST#: 2

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.29 @ 12:34:00

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 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: 30000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 22000.00 lb
			<u>Total Volume: 55.56 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4200.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4181.00	
Shut In Tool	5.00			4186.00	
Hydraulic tool	5.00			4191.00	
Packer	5.00			4196.00	20.00 Bottom Of Top Packer
Packer	4.00			4200.00	
Stubb	1.00			4201.00	
Perforations	1.00			4202.00	
Recorder	0.00	8355	Outside	4202.00	
Recorder	0.00	8674	Inside	4202.00	
Perforations	28.00			4230.00	
Change Over Sub	1.00			4231.00	
Drill Pipe	63.00			4294.00	
Change Over Sub	1.00			4295.00	
Perforations	4.00			4299.00	
Bullnose	5.00			4304.00	104.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50229

DST#: 2

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.29 @ 12:34:00

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: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	WCM 28%w 72%w with Oil Spots	0.915
93.00	WCM 19%w 81%m with Skim of Oil	0.457
187.00	OWCM 1%oil 16%w 83%m	1.785
57.00	WCM 10%w 90%m with Oil Spots	0.800

Total Length: 523.00 ft Total Volume: 3.957 bbl

Num Fluid Samples: 0

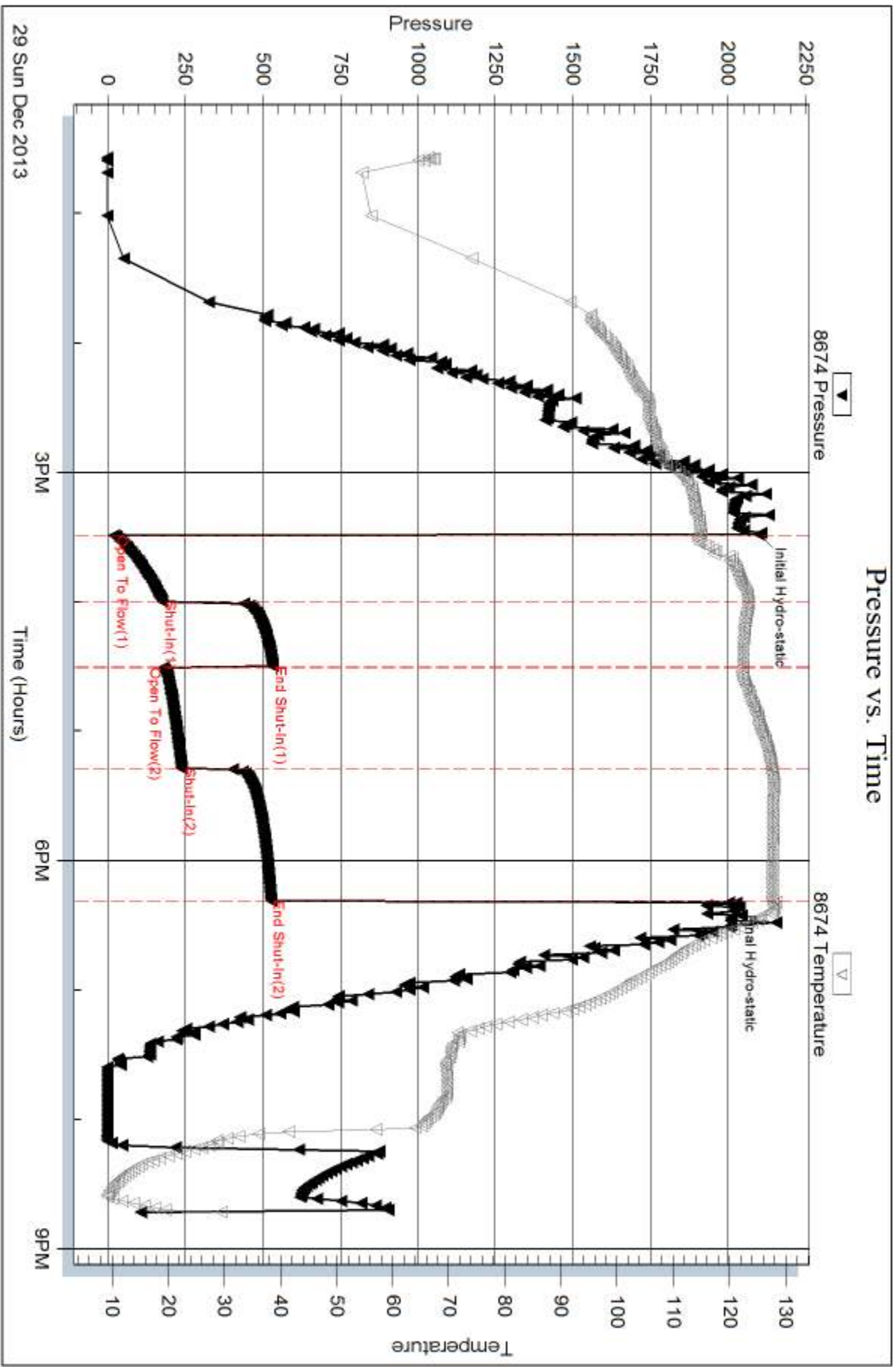
Num Gas Bombs: 0

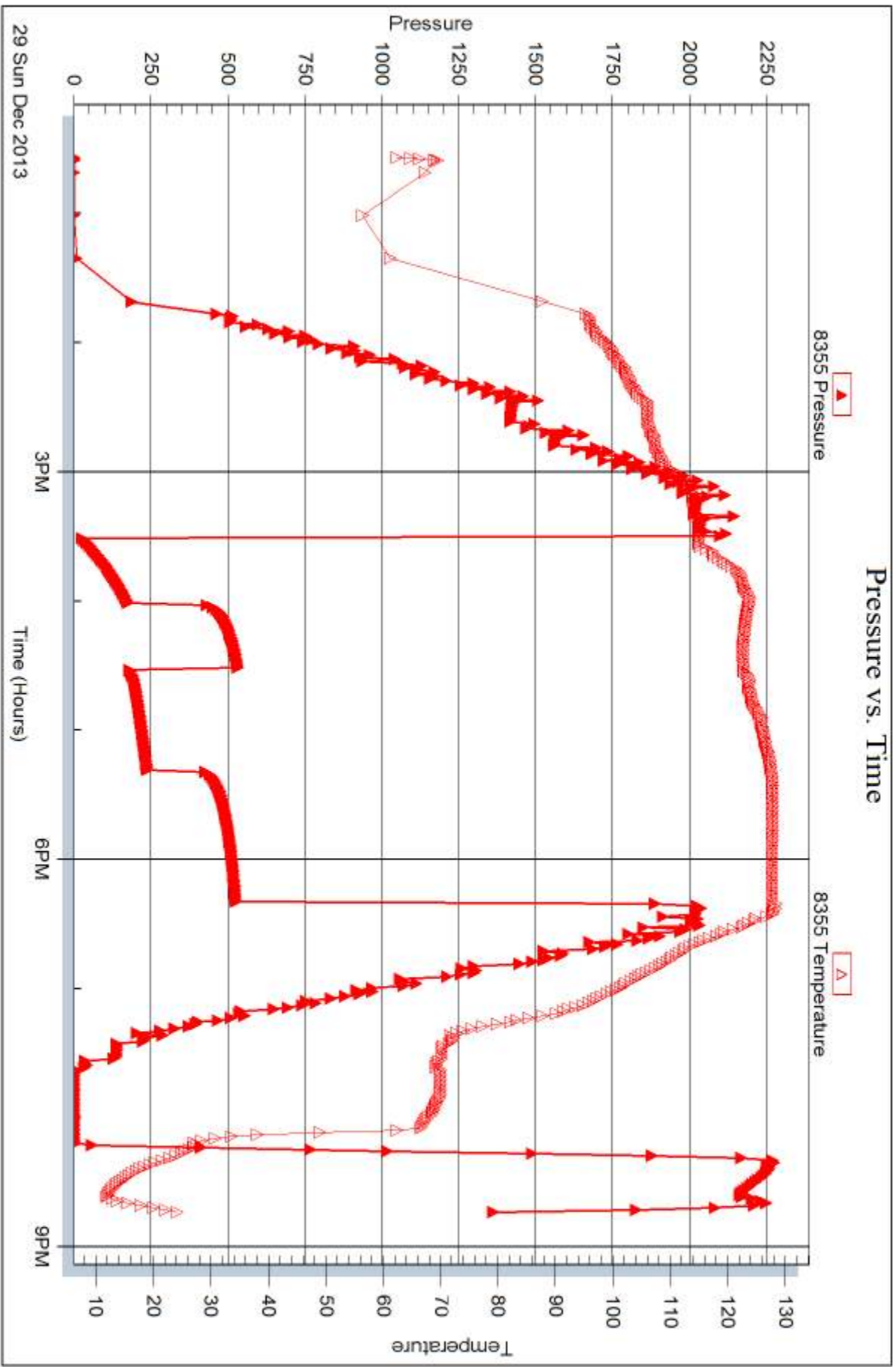
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .283 @ 45f = 44000







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. 900
Denver CO. 80202

ATTN: Gary Doke/ Jim Musgr

Pfenninger02-33-1831

33-18s-31w Scott,KS

Start Date: 2013.12.30 @ 08:28:00

End Date: 2013.12.30 @ 17:09:55

Job Ticket #: 50230 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.03 @ 08:56:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18s-31w Scott, KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

ATTN: Gary Doke/ Jim Musgr

Job Ticket: 50230

DST#: 3

Test Start: 2013.12.30 @ 08:28:00

GENERAL INFORMATION:

Formation: **Marmanton " A - B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:25

Time Test Ended: 17:09:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4336.00 ft (KB) To 4380.00 ft (KB) (TVD)

Total Depth: 4380.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2950.00 ft (KB)

2939.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press@RunDepth: 100.24 psig @ 4337.00 ft (KB)

Start Date: 2013.12.30

End Date:

2013.12.30

Start Time: 08:28:00

End Time:

17:09:55

Capacity: 8000.00 psig

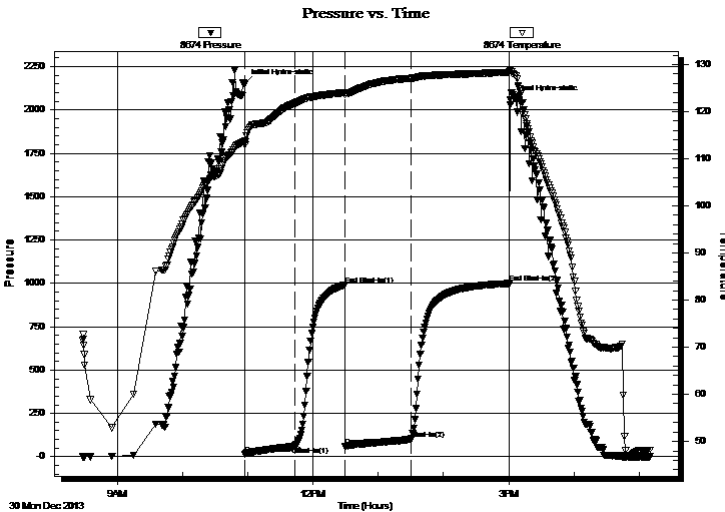
Last Calib.: 2013.12.30

Time On Btm: 2013.12.30 @ 10:57:10

Time Off Btm: 2013.12.30 @ 15:01:09

TEST COMMENT: IF- Weak Surface Blow Built to 5 3/4"
IS- No Blow
FF- Weak Surface Blow Built to BOB in 56 min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.63	113.82	Initial Hydro-static
1	15.02	112.91	Open To Flow (1)
46	59.33	121.75	Shut-In(1)
93	991.87	124.04	End Shut-In(1)
93	61.69	123.60	Open To Flow (2)
153	100.24	127.08	Shut-In(2)
244	999.68	128.38	End Shut-In(2)
244	2058.64	128.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	OGCM 12%oil 14%g 74%m	0.46
60.00	GOCM 9%g 36%oil 55%m	0.30
93.00	GO 3%g 97%oil	0.46
0.00	314' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

ATTN: Gary Doke/ Jim Musgr

Job Ticket: 50230

DST#: 3

Test Start: 2013.12.30 @ 08:28:00

GENERAL INFORMATION:

Formation: **Marmanton " A - B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:25

Time Test Ended: 17:09:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4336.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.30

End Date: 2013.12.30

Last Calib.: 2013.12.30

Start Time: 08:28:05

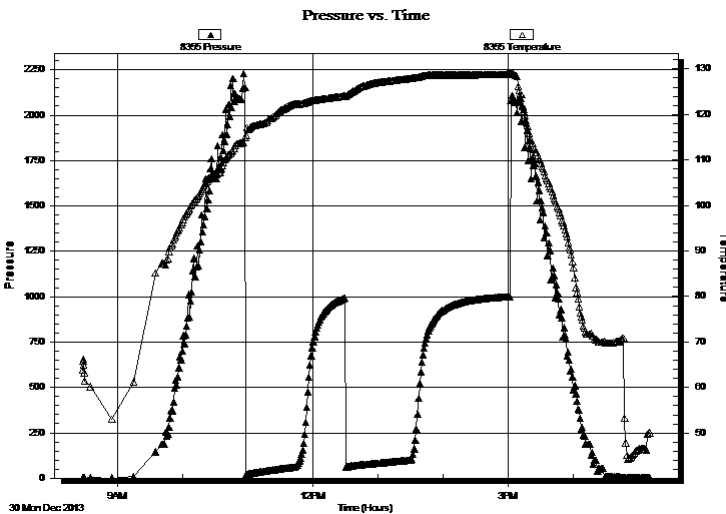
End Time: 17:11:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 5 3/4"
IS- No Blow
FF- Weak Surface Blow Built to BOB in 56 min
FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	OGCM 12%oil 14%g 74%m	0.46
60.00	GOCM 9%g 36%oil 55%m	0.30
93.00	GO 3%g 97%oil	0.46
0.00	314' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50230

DST#: 3

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.30 @ 08:28:00

Tool Information

Drill Pipe:	Length: 3957.00 ft	Diameter: 3.80 inches	Volume: 55.51 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: 28000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 57.33 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4336.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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	8355	Outside	4337.00	
Recorder	0.00	8674	Inside	4337.00	
Perforations	5.00			4342.00	
Change Over Sub	1.00			4343.00	
Drill Pipe	31.00			4374.00	
Change Over Sub	1.00			4375.00	
Bullnose	5.00			4380.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50230

DST#: 3

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.30 @ 08:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

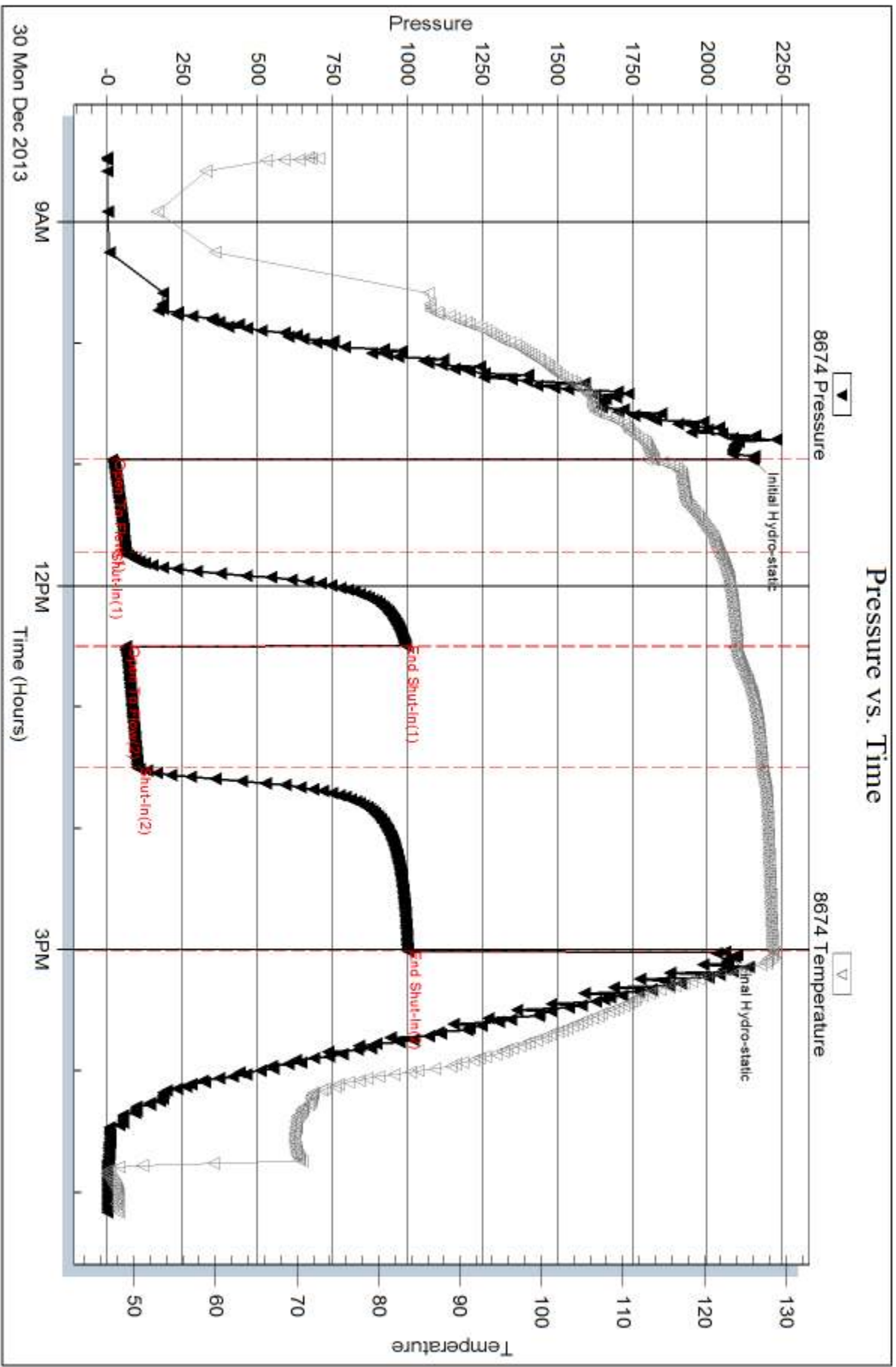
Length ft	Description	Volume bbl
93.00	OGCM 12%oil 14%g 74%m	0.457
60.00	GOCM 9%g 36%oil 55%m	0.295
93.00	GO 3%g 97%oil	0.457
0.00	314' of GIP	0.000

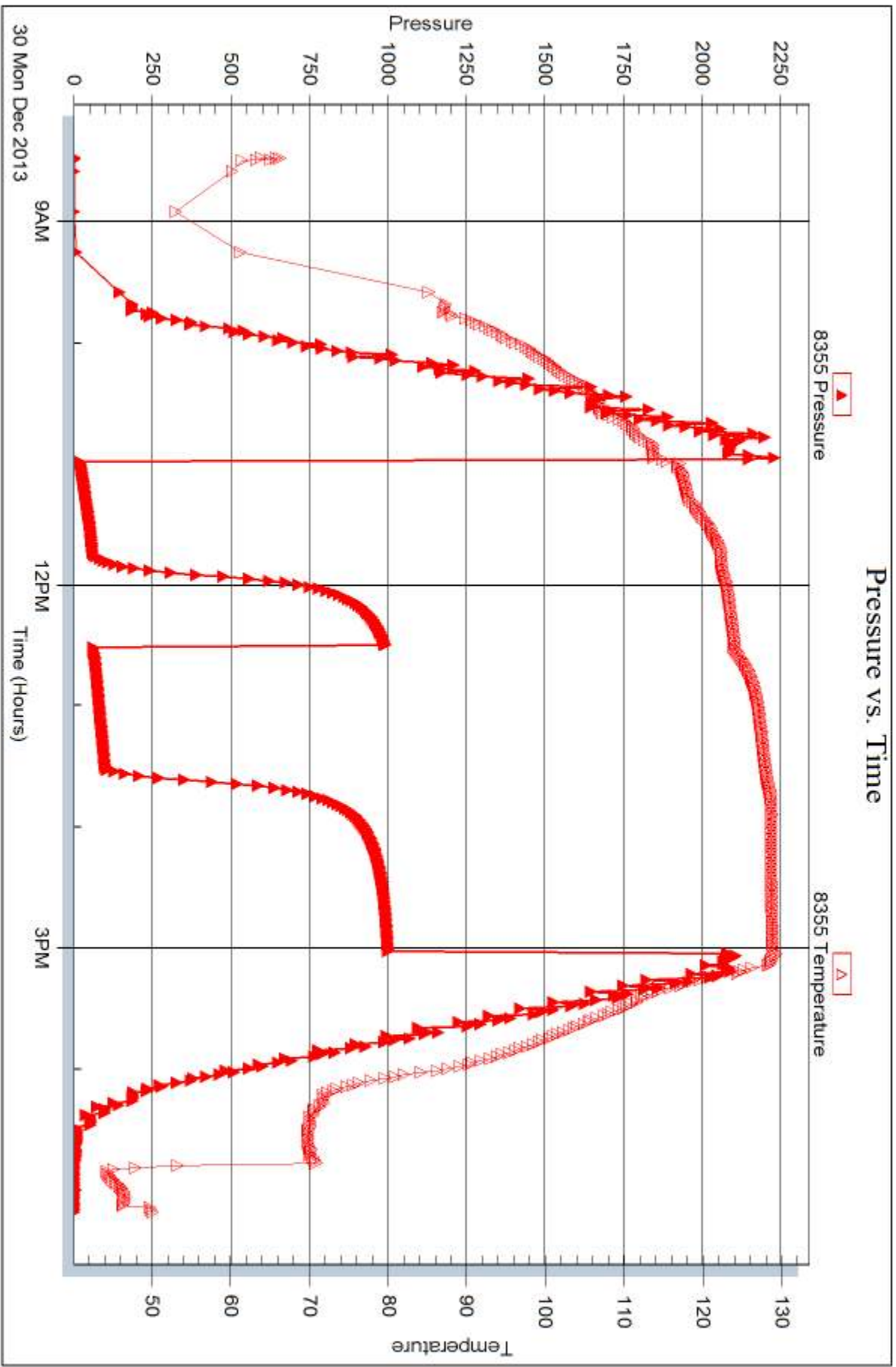
Total Length: 246.00 ft Total Volume: 1.209 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API is 32 @ 50f = 33







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. 900
Denver CO. 80202

ATTN: Gary Doke/ Jim Musgr

Pfenninger02-33-1831

33-18s-31w Scott,KS

Start Date: 2013.12.31 @ 17:24:00

End Date: 2014.01.01 @ 01:41:24

Job Ticket #: 50231 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.03 @ 08:55:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18s-31w Scott, KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

ATTN: Gary Doke/ Jim Musgr

Job Ticket: 50231

DST#: 4

Test Start: 2013.12.31 @ 17:24:00

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:36:40

Time Test Ended: 01:41:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4570.00 ft (KB) To 4596.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4596.00 ft (KB) (TVD)

2939.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press@RunDepth: 255.40 psig @ 4571.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2014.01.01

Last Calib.:

2014.01.01

Start Time: 17:24:00

End Time:

01:41:24

Time On Btm:

2013.12.31 @ 19:36:25

Time Off Btm:

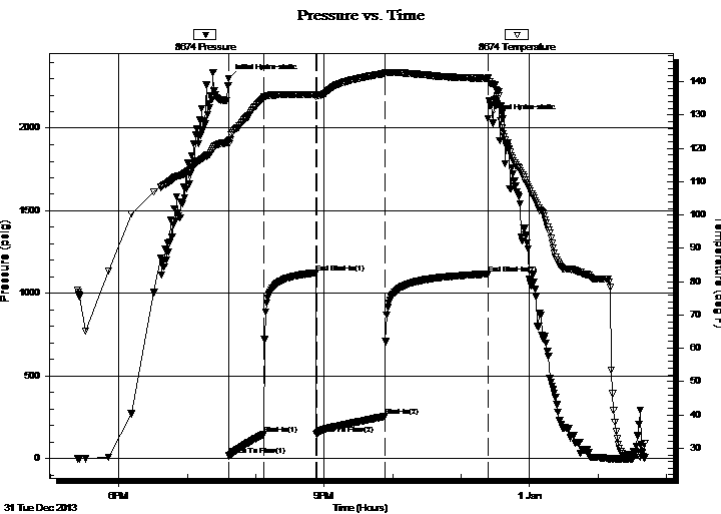
2013.12.31 @ 23:23:39

TEST COMMENT: IF- Weak Surface Blow Built to 7 3/4"

IS- No Blow

FF- Weak Surface Blow Built to 8 1/2"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.65	122.22	Initial Hydro-static
1	17.46	121.41	Open To Flow (1)
31	148.08	135.08	Shut-In(1)
77	1124.47	136.06	End Shut-In(1)
77	149.32	135.46	Open To Flow (2)
137	255.40	142.48	Shut-In(2)
227	1117.57	141.01	End Shut-In(2)
228	2055.68	141.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	GMCW 3%g 24%m 73%w	0.46
279.00	GMCW 3%g 17%m 80%w	1.38
94.00	MCW 29%m 71%w	1.32
85.00	WCM 18%w 82%m	1.19

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50231

DST#: 4

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.31 @ 17:24:00

Tool Information

Drill Pipe:	Length: 4207.00 ft	Diameter: 3.80 inches	Volume: 59.01 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: 32000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 14000.00 lb
			<u>Total Volume: 60.83 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4570.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4551.00	
Shut In Tool	5.00			4556.00	
Hydraulic tool	5.00			4561.00	
Packer	5.00			4566.00	20.00 Bottom Of Top Packer
Packer	4.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	8355	Outside	4571.00	
Recorder	0.00	8674	Inside	4571.00	
Perforations	20.00			4591.00	
Bullnose	5.00			4596.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

33-18s-31w Scott,KS

410 17th St. 900
Denver CO. 80202

Pfenninger02-33-1831

Job Ticket: 50231

DST#: 4

ATTN: Gary Doke/ Jim Musgr

Test Start: 2013.12.31 @ 17:24:00

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:

50000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
93.00	GMCW 3%g 24%m 73%w	0.457
279.00	GMCW 3%g 17%m 80%w	1.381
94.00	MCW 29%m 71%w	1.319
85.00	WCM 18%w 82%m	1.192

Total Length: 551.00 ft Total Volume: 4.349 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

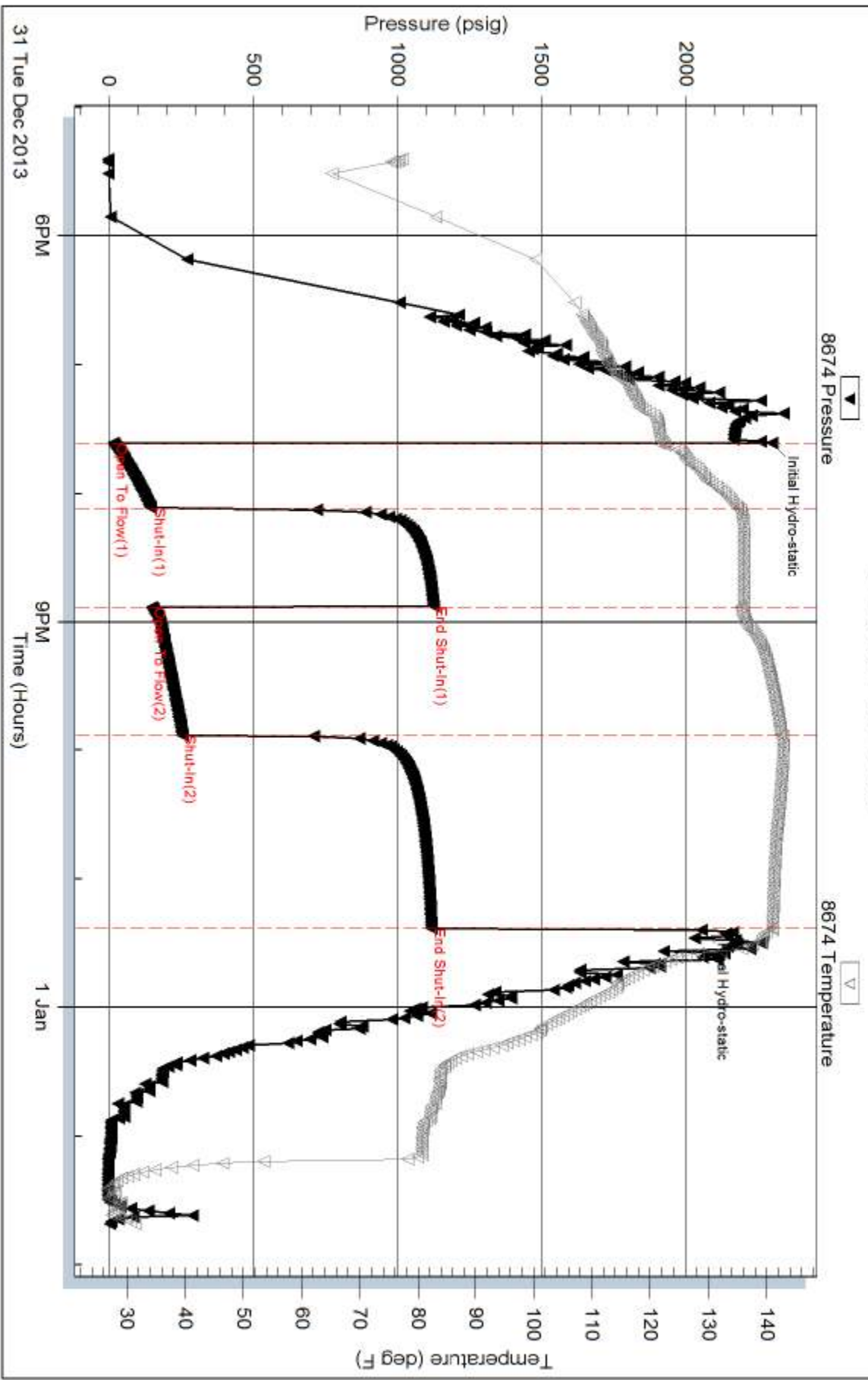
Serial #:

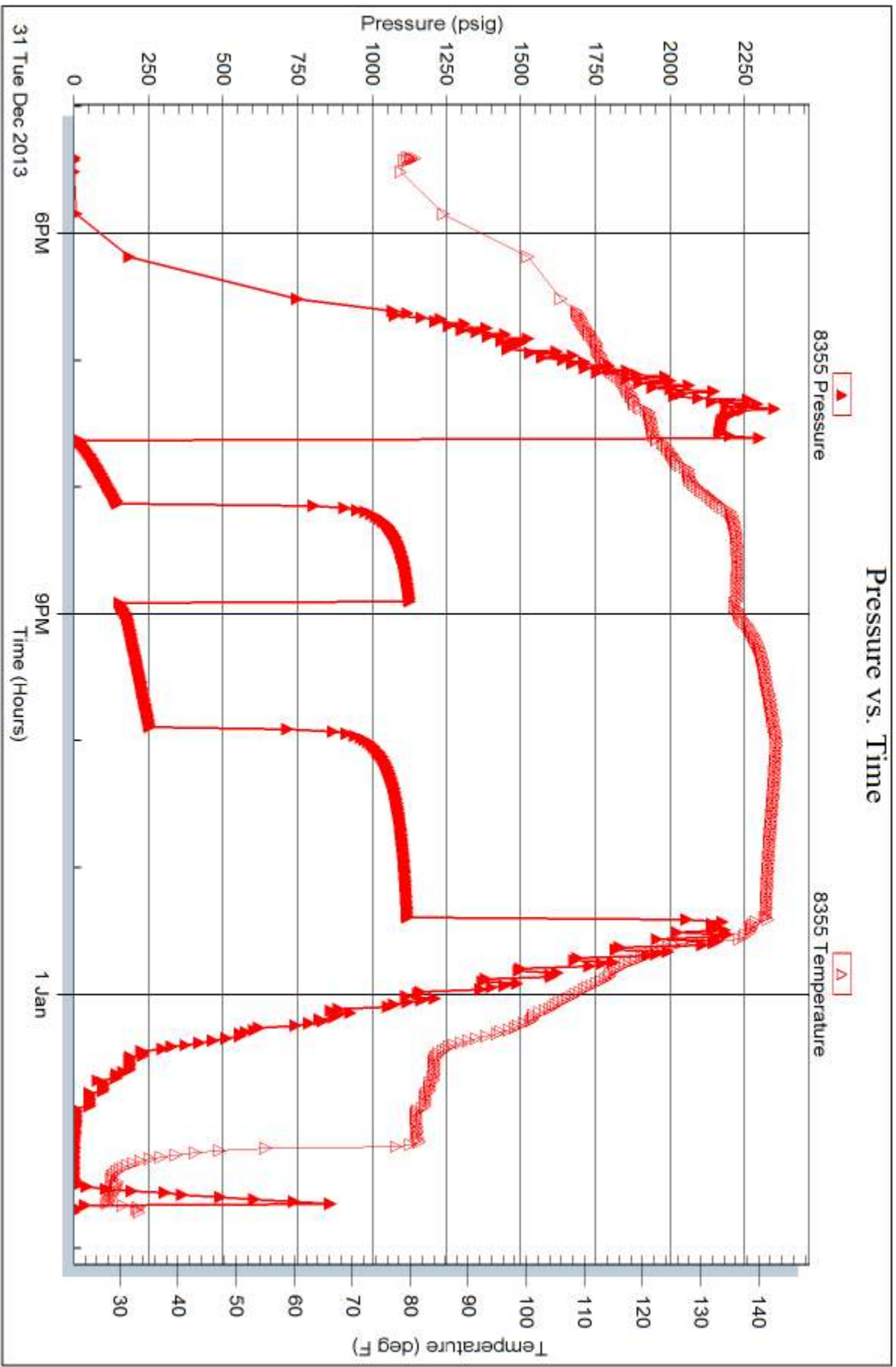
Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .323 @ 31f = 50000

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50228

Well Name & No. Pfenninger # 02-33-1831 Test No. DST #1 Date 12-28-13
 Company FIML Natural Resources LLC Elevation 2950 KB 2939 GL
 Address 410 17th St 900 Denver CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrove Rig H-2 Rig #1
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Scott State KS

Interval Tested 4163-4192 Zone Tested LRL
 Anchor Length 29 Drill Pipe Run 3796 Mud Wt. 8.8
 Top Packer Depth 4159 Drill Collars Run 371 Vis 50
 Bottom Packer Depth 4163 Wt. Pipe Run 0 WL 8.0
 Total Depth 4192 Chlorides 2200 ppm System LCM 1016
 Blow Description IF - Surface Blow Built to BOB in 6 1/2 min
ISI - No Blow
FF - Wear Surface Blow Built to BOB in 11 1/4 min

Rec	Feet of	H ₂ S	%gas	%oil	%water	%mud
<u>288</u>	<u>G-WCM</u>	<u>11 ppm of H₂S</u>	<u>4</u>	<u>44</u>	<u>52</u>	<u>52</u>
<u>188</u>	<u>GMCW</u>	<u>18 ppm of H₂S</u>	<u>5</u>	<u>73</u>	<u>22</u>	<u>22</u>
<u>655</u>	<u>MCGW</u>	<u>48 ppm of H₂S</u>	<u>8</u>	<u>85</u>	<u>7</u>	<u>7</u>
<u>93</u>	<u>G-WCM</u>		<u>6</u>	<u>40</u>	<u>54</u>	<u>54</u>

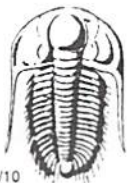
Rec Total 1174 BHT 135 Gravity _____ API RW .239 @ 50 °F Chlorides 41000 ppm

(A) Initial Hydrostatic <u>2035</u>	<input checked="" type="checkbox"/> Test <u>1250 12</u>	T-On Location <u>10:08</u>
(B) First Initial Flow <u>30</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:16</u>
(C) First Final Flow <u>345</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>13:53</u>
(D) Initial Shut-In <u>633</u>	<input checked="" type="checkbox"/> Circ Sub <u>Dropped the Bar 50</u>	T-Pulled <u>16:42</u>
(E) Second Initial Flow <u>349</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:24</u>
(F) Second Final Flow <u>537</u>	<input checked="" type="checkbox"/> Mileage <u>20 R/T 31</u>	Comments _____
(G) Final Shut-In <u>637</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1927</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1481</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	
	Sub Total <u>1481</u>	

Approved By _____

Our Representative Jim

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50229

Well Name & No. Pfenninger # 02-33-1831 Test No. DST #2 Date 12-29-13
 Company FIML Natural Resources LLC Elevation 2950 KB 2939 GL
 Address 410 17th St. 900 Denver CO 80202
 Co. Rep / Geo. Gary Dalke / Jim Musgrove Rig H-2 Ris #1
 Location: Sec. 33 Twp. 18S Rge. 31W Co. Scott State KS

Interval Tested 4200-4304 Zone Tested LRC J-R & L
 Anchor Length 104 Drill Pipe Run 3831 Mud Wt. 9.3
 Top Packer Depth 4196 Drill Collars Run 371 Vis 48
 Bottom Packer Depth 4200 Wt. Pipe Run 0 WL 8.0
 Total Depth 4304 Chlorides 2000 ppm System LCM 616

Blow Description IF-Weak Surface Blow Built to 7 1/2"
ISI-No Blow
FF-Weak Surface Blow Built to 124
FSL-No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>57</u>	<u>WCM with oil spots</u>			<u>10</u>	<u>90</u>
<u>187</u>	<u>OWCM</u>		<u>1</u>	<u>16</u>	<u>83</u>
<u>93</u>	<u>WCM with SKM of 0.1</u>			<u>19</u>	<u>81</u>
<u>186</u>	<u>WCM with oil spots</u>			<u>28</u>	<u>72</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 523 BHT 128 Gravity _____ API RW 283 @ 45 °F Chlorides 44000 ppm

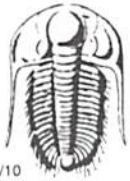
(A) Initial Hydrostatic <u>2100</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:12</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:34</u>
(C) First Final Flow <u>175</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>15:28</u>
(D) Initial Shut-In <u>532</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>18:19</u>
(E) Second Initial Flow <u>179</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:42</u>
(F) Second Final Flow <u>237</u>	<input checked="" type="checkbox"/> Mileage <u>20 RIT x 2</u> 62	Comments _____
(G) Final Shut-In <u>525</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2003</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1462
 Final Shut-In 60 Accessibility 150 MP/DST Disc't _____
 Sub Total 1462

Approved By _____

Our Representative Jim M

Trilobite 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50230**

4/10

Well Name & No. Pfenninger # 02-33-1831 Test No. DST # 3 Date 12-30-13
 Company FJML Natural Resources LLC Elevation 2950 KB 2939 GL
 Address 410 17th St. 900 Denver CO. 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrove Rig H-2 Rgs #1
 Location: Sec. 33 Twp. 18s Rge. 31W Co. Scott State KS

Interval Tested 4336-4380 Zone Tested Marmanto A-B
 Anchor Length 44 Drill Pipe Run 3957 Mud Wt. 9.4
 Top Packer Depth 4332 Drill Collars Run 371 Vis 46
 Bottom Packer Depth 4336 Wt. Pipe Run 0 WL 8.0
 Total Depth 4380 Chlorides 2400 ppm System LCM 616

Blow Description IF- Wear Surface Blow Built to 5 3/4"
ISI- No Blow
FF- Wear Surface Blow Built to BOB in 56 min
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>GO</u>	<u>3</u>	<u>97</u>		
<u>60</u>	<u>GO CM</u>	<u>9</u>	<u>36</u>		<u>55</u>
<u>93</u>	<u>OO CM</u>	<u>14</u>	<u>12</u>		<u>74</u>
Rec	Feet of <u>319' of G-IP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

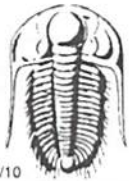
Rec Total 246 BHT 128 Gravity 33 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2149 Test 1250 T-On Location 7:56
 (B) First Initial Flow 15 Jars _____ T-Started 8:28
 (C) First Final Flow 59 Safety Joint _____ T-Open 10:57
 (D) Initial Shut-In 991 Circ Sub NIC T-Pulled 15:01
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 17:09
 (F) Second Final Flow 100 Mileage 20 R/T 31 Comments _____
 (G) Final Shut-In 999 Sampler _____ API is 32 @ 50T = 33
 (H) Final Hydrostatic 2058 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 45 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1431
 Final Shut-In 90 Accessibility 150 MP/DST Disc't _____
 Sub Total 1431

Approved By [Signature] Our Representative [Signature]

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50231

Well Name & No. Pfenninger #02-33-1831 Test No. DSI #4 Date 12-31-13
 Company FIML Natural Resources LLC Elevation 2950 KB 2939 GL
 Address 410 17th St. 900 Denver CO. 80202
 Co. Rep / Geo. Gary Dalke / Jim Musgrove Rig H-2 Rig #1
 Location: Sec. 33 Twp. 18s Rge. 31w Co. Scott State KS

Interval Tested 4570-4596 Zone Tested Spergen
 Anchor Length 26 Drill Pipe Run 4207 Mud Wt. 9.2
 Top Packer Depth 4566 Drill Collars Run 371 Vis 52
 Bottom Packer Depth 4570 Wt. Pipe Run 0 WL 6.4
 Total Depth 4596 Chlorides 1200 ppm System LCM 616
 Blow Description IF-Weak Surface Blow Built to 7 3/4
ISI- No Blow
FF-Weak Surface Blow Built to 8 1/2"
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
85	WCM		18	82	
94	MCW		71	29	
279	G-MCW	3	80	17	
93	G-MCW	3	73	24	

Rec Total 551 BHT 142 Gravity _____ API RW 323 @ 31 °F Chlorides 50 000 ppm
 (A) Initial Hydrostatic 2298 Test 1250 T-On Location 17:08
 (B) First Initial Flow 17 Jars _____ T-Started 17:24
 (C) First Final Flow 148 Safety Joint _____ T-Open 19:36
 (D) Initial Shut-In 1124 Circ Sub NIC T-Pulled 23:23
 (E) Second Initial Flow 149 Hourly Standby _____ T-Out 1:41
 (F) Second Final Flow 255 Mileage 20RIT 31 Comments _____
 (G) Final Shut-In 1117 Sampler _____
 (H) Final Hydrostatic 2055 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1431
 MP/DST Disc't _____
 Sub Total 1431

Approved By [Signature] Our Representative [Signature]

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.



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140348
Invoice Date: Dec 17, 2013
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Now Includes:

Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Field Ticket #	Payment Terms	
FIML	62111	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 17, 2013	1/16/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pfenninger #2-33-1831		
240.00	CEMENT MATERIALS	Class A Common	17.90	4,296.00
5.00	CEMENT MATERIALS	Gel	23.40	117.00
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
259.52	CEMENT SERVICE	Cubic Feet Charge	2.48	643.61
640.20	CEMENT SERVICE	Ton Mileage Charge	2.60	1,664.52
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
55.00	CEMENT SERVICE	Pump Truck Mileage	7.70	423.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
55.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	242.00
3.00	EQUIPMENT SALES	8-5/8 Centralizer	74.88	224.64
1.00	JOB DISCOUNT	Job Discount if paid within terms	2,144.97	-2,144.97
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Kelly Gabel		

Subtotal	7,829.55
Sales Tax	424.91
Total Invoice Amount	8,254.46
Payment/Credit Applied	
TOTAL	8,254.46

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$

ONLY IF PAID ON OR BEFORE
Jan 11, 2014



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140646
Invoice Date: Jan 3, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Field Ticket #	Payment Terms	
FIML	61433	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jan 3, 2014	2/2/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pfenninger #2-33-1831		
450.00	CEMENT MATERIALS	Light Weight	15.95	7,177.50
2,250.00	CEMENT MATERIALS	Gilsonite	0.98	2,205.00
112.00	CEMENT MATERIALS	Flo Seal	2.97	332.64
502.47	CEMENT SERVICE	Cubic Feet Charge	2.48	1,246.13
1,126.40	CEMENT SERVICE	Ton Mileage Charge	2.60	2,928.64
1.00	CEMENT SERVICE	Production -- Top Stage	2,443.75	2,443.75
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		
1.00	JOB DISCOUNT	Job Discount if paid by terms	3,756.74	-3,756.74

Subtotal	12,576.92
Sales Tax	791.79
Total Invoice Amount	13,368.71
Payment/Credit Applied	
TOTAL	13,368.71

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ [REDACTED]

ONLY IF PAID ON OR BEFORE
[REDACTED]
Jan 28, 2014