

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

 Yes No

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

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 SWGPS 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: _____



1125670

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 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				

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: <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Summary of Changes

Lease Name and Number: Herbel 11B-24-933

API/Permit #: 15-193-20862-00-00

Doc ID: 1125670

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	02/27/2013	03/21/2013
Date of First or Resumed Production or SWD or Enhr		03/18/2013
Method Of Completion - Perf	No	Yes
Producing Method Pumping	No	Yes
Production - Barrels Oil		5
Production - Barrels of Water		11
Production Interval #1		4676-80'
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1115637	../..kcc/detail/operatorEditDetail.cfm?docID=1125670



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report 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) (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	FIML Natural Resources, LLC
Well Name	Herbel 11B-24-933
Doc ID	1115637

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	DV tool @ 2967'	Cmtd w/ 670 sks Lightweight cmt	2967-0'
		Cmtd mouse & rat hole w/ 50 sks Lightweight cmt	
2	4676-80'	Acidize w/ 500 gal 15% MCA	4676-80'



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 133404

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

Invoice Date: Oct 29, 2012

Page: 1



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
FIML	Herbel 11-B-24-933	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 29, 2012	11/28/12

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	17.90	4,296.00
5.00	MAT	Gel	23.40	117.00
8.00	MAT	Chloride	64.00	512.00
60.00	MAT	Flo Seal	2.97	178.20
263.52	SER	Cubic Feet	2.48	653.53
178.05	SER	Ton Mileage	2.60	462.93
1.00	SER	Surface	1,512.25	1,512.25
15.00	SER	Pump Truck Mileage	7.70	115.50
1.00	SER	Manifold Head Rental	275.00	275.00
15.00	SER	Light Vehicle Mileage	4.40	66.00
3.00	EQP	8.5/8 Centralizer	74.88	224.64
1.00	JOB DISC	Job Discount if paid by 11/29/12	1,935.00	-1,935.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	David Scariano		

Subtotal	6,478.05
Sales Tax	388.93
Total Invoice Amount	6,866.98
Payment/Credit Applied	
TOTAL	6,866.98

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
 Nov 23, 2012

Hebel 11B-24-933
ALLIED OIL & GAS SERVICES, LLC 058949

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
 SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE <i>10-29-12</i>	SEC <i>28</i>	TWP <i>18</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>4:30 PM</i>	JOB FINISH <i>5:00 PM</i>
LEASE <i>Long</i>	WELL # <i>3B-28-1831</i>	LOCATION <i>Mingo 25-Einto</i>			COUNTY <i>Thomas</i>	STATE <i>Ks.</i>	
OLD OR (NEW) (Circle one)							

CONTRACTOR *H2 #1*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *395'*
 CASING SIZE *8 7/8* DEPTH *394'*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. *15'*
 PERFS.
 DISPLACEMENT *28.29*

OWNER *Same*
 CEMENT
 AMOUNT ORDERED *240 SKs Com 3% CC*
2% Gel 1/4" Floseal

EQUIPMENT
 PUMP TRUCK CEMENTER *Dean Beckett*
 # *1123-281* HELPER *Tyler Flipse*
 BULK TRUCK
 # *316-306* DRIVER *David Scarlano*
 BULK TRUCK
 # DRIVER

COMMON <i>240 SKs</i>	@ <i>17.92</i>	\$ <i>4296.00</i>
POZMIX	@	
GEL <i>5 SKs</i>	@ <i>23.42</i>	\$ <i>117.00</i>
CHLORIDE <i>8 SKs</i>	@ <i>64.02</i>	\$ <i>512.00</i>
ASC	@	
<i>Floseal 60"</i>	@ <i>2.97</i>	\$ <i>178.20</i>
	@	
	@	
	@	
	@	
	@	
HANDLING <i>263.52 CPX</i>	@ <i>2.48</i>	\$ <i>653.53</i>
MILEAGE <i>11.87 x 15 x</i>	@ <i>2.62</i>	\$ <i>462.93</i>
		TOTAL <i>6219.66</i>

REMARKS:

*Mix 240 SKs Cement
 Displace with Water
 Cement Did Circulate*

Thank You.

CHARGE TO: *FIML*
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <i>394'</i>		
PUMP TRUCK CHARGE		\$ <i>1512.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>15</i>	@ <i>7.70</i>	\$ <i>115.50</i>
MANIFOLD <i>Had</i>	@	\$ <i>275.00</i>
<i>LU mileage</i>	@ <i>4.40</i>	\$ <i>66.00</i>
	@	
		TOTAL <i>1968.25</i>

PLUG & FLOAT EQUIPMENT

3 Centralizers	@	74.88	\$ 224.64
<i>3 Centralizers</i>	@ <i>74.88</i>	\$ <i>224.64</i>	
	@		
	@		
	@		
		TOTAL <i>224.64</i>	

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Gary Duke*
 SIGNATURE *[Signature]*

SALES TAX (If Any) _____
 TOTAL CHARGES *8,413.05*
 DISCOUNT _____ IF PAID IN 30 DAYS

23%



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 133449
Invoice Date: Nov 8, 2012
Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Herbel 11B-24-933	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 8, 2012	12/8/12

Quantity	Item	Description	Unit Price	Amount
5.00	MAT	Gel	23.40	117.00
255.00	MAT	ASC	20.90	5,329.50
27.00	MAT	Salt	26.35	711.45
64.00	MAT	Flo Seal	2.97	190.08
1,275.00	MAT	Gilsonite	0.98	1,249.50
12.00	MAT	Super Flush	58.70	704.40
330.57	SER	Cubic Feet	2.48	819.86
214.20	SER	Ton Mileage	2.60	556.92
1.00	SER	Production - Bottom Stage	2,765.75	2,765.75
15.00	SER	Pump Truck Mileage	7.70	115.50
1.00	SER	Manifold Head Rental	275.00	275.00
15.00	SER	Light Vehicle Mileage	4.40	66.00
1.00	EQP	5.5 D V Tool	5,335.26	5,335.26
1.00	EQP	5.5 Sure Seal Float Collar	725.40	725.40
1.00	EQP	5.5 Sure Seal Float Shoe	608.40	608.40
25.00	EQP	5.5 Centralzier	57.33	1,433.25
2.00	EQP	5.5 Basket	394.29	788.58
1.00	JOB DISC	Job Discount if paid by 12-8-12	4,576.28	-4,576.28
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

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

Dec 3, 2012

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued

OBO
NOV 15 2012



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 133449
Invoice Date: Nov 8, 2012
Page: 2



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Herbel 11B-24-933	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 8, 2012	12/8/12

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	D J Gray		

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
 Dec 3, 2012

Subtotal	17,215.57
Sales Tax	1,255.08
Total Invoice Amount	18,470.65
Payment/Credit Applied	
TOTAL	18,470.65

OBO
NOV 15 2012

ALLIED CEMENTING CO., LLC. 035964

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Orkley

DATE <u>11-8-12</u>	SEC <u>24</u>	TWP <u>9</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>11-9-12</u> <u>1:30 Am</u>	JOB FINISH <u>2:30 Am</u>
LEASE <u>Herbel</u>	WELL # <u>11 B 24 33</u>	LOCATION <u>Mingo 25-E into</u>			COUNTY <u>Thomas</u>	STATE <u>Ks.</u>	

CONTRACTOR H2 #1
 TYPE OF JOB Production Bottom Stage
 HOLE SIZE 7 7/8 T.D. 4878.19
 CASING SIZE 5 1/2 DEPTH 4853.31
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DV DEPTH 2977.05
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 23.43
 CEMENT LEFT IN CSG. 23.43
 PERFS.
 DISPLACEMENT 114.75 bbl
 EQUIPMENT

OWNER Same
 CEMENT
 AMOUNT ORDERED 225 SKS ASC 10% Salt
2% Gal 5" Gilsonite 14" Floreal
12 bbl Super flush

COMMON	@		
POZMIX	@		
GEL		<u>5 SKS @ \$23.40</u>	<u>\$117.00</u>
CHLORIDE	@		
ASC		<u>255 SKS @ \$20.90</u>	<u>\$5329.50</u>
Salt		<u>27 SKS @ \$26.35</u>	<u>\$711.45</u>
Floreal	@	<u>64 @ \$2.92</u>	<u>\$190.08</u>
Gilsonite	@	<u>1275 @ .98</u>	<u>\$1249.50</u>
Super flush	@	<u>12 bbl @ \$58.70</u>	<u>\$704.40</u>
HANDLING	@	<u>330.59 @ .27</u>	<u>\$89.26</u>
MILEAGE	@	<u>14.28 x 15 @ \$2.42</u>	<u>\$556.78</u>
TOTAL			<u>\$9678.71</u>

PUMP TRUCK CEMENTER Darren Racette
 # 423-281 HELPER Tyler Flipsc
 BULK TRUCK
 # 347 DRIVER Brandon Wilkinson
 BULK TRUCK
 # 540-287 DRIVER DJ Gray

REMARKS:

Mix 255 SKS Down casing Release plug
Displace with water + mud Land plug @ 2100'
Float did Hold open DV Tool @ 600'
Circulate 4 hrs.

Thank You

CHARGE TO: FIML
 STREET _____
 CITY _____ STATE _____ ZIP _____

Allied Cementing Co., LLC.
 you are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or
 contractor to do work as is listed. The above work was
 done to satisfaction and supervision of owner agent or
 contractor. I have read and understand the "GENERAL
 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Gary Dole
 SIGNATURE [Signature]

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>\$2765.75</u>
EXTRA FOOTAGE	@	
MILEAGE		<u>15 @ \$7.70 \$115.50</u>
MANIFOLD	@	<u>Head \$275.00</u>
LU mileage	@	<u>\$4.40 \$66.00</u>
TOTAL <u>\$3222.25</u>		

PLUG & FLOAT EQUIPMENT

<u>5/8 Weatherford</u>		
<u>1 DV Tool</u>	@	<u>\$335.00</u>
<u>1 Sure Seal Float Collar</u>	@	<u>\$725.40</u>
<u>1 Sure seal Float Shoe</u>	@	<u>\$608.40</u>
<u>25 Centralizers</u>	@	<u>\$57.33 \$1433.25</u>
<u>2 Baskets</u>	@	<u>\$394.22 \$788.44</u>
TOTAL <u>\$890.82</u>		

SALES TAX (If Any) _____
 TOTAL CHARGES 21,791.85
 DISCOUNT _____ IF PAID IN 30 DAYS

2190

OBO

NOV 15 2012



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 133450
Invoice Date: Nov 8, 2012
Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Herbel 11B-24-933	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 8, 2012	12/8/12

Quantity	Item	Description	Unit Price	Amount
720.00	MAT	ALW Type II	15.95	11,484.00
3,600.00	MAT	Gilsonite	0.98	3,528.00
181.00	MAT	Flo Seal	2.97	537.57
886.67	SER	Cubic Feet	2.48	2,198.94
529.95	SER	Ton Mileage	2.60	1,377.87
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
15.00	SER	Pump Truck Mileage -- No Charge		
15.00	SER	Light Vehicle Mileage -- No Charge		
1.00	JOB DISC	Job Discount if paid by 12/8/12	6,352.12	-6,352.12
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	D J Gray		
1.00	OPER ASSIST	Brandon Wilkinson		

Subtotal	15,180.51
Sales Tax	1,135.12
Total Invoice Amount	16,315.63
Payment/Credit Applied	
TOTAL	16,315.63

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
 Dec 3, 2012

OBO
NOV 15 2012

ALLIED CEMENTING CO., LLC. 035965

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <i>11-8-12</i>	SEC. <i>24</i>	TWP. <i>7-</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION	JOB START <i>6:45 Am</i>	JOB FINISH <i>7:45 Am</i>
LEASE # <i>Herbel</i>	WELL: <i>11B-24-23</i>			LOCATION <i>Mingo 2S-E into</i>		COUNTY <i>Thomas</i>	STATE <i>Ks.</i>
OLD OR NEW (Circle one)							

CONTRACTOR *H2 #1*

TYPE OF JOB *Production Top Stage*

HOLE SIZE *7 7/8* T.D. *4878.19'*

CASING SIZE *5 1/2* DEPTH *4853.31'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *DV* DEPTH *2977.05'*

PREBS. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *70.85 bbl*

OWNER *Same*

CEMENT

AMOUNT ORDERED *720 sks Lite 1/4" Floseal*

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

ALLW Type II 720 sks @ \$15.95 \$11484.00

Gilsonite 3600 # @ \$1.98 \$7128.00

Floseal 181 # @ \$2.92 \$528.52

HANDLING *88667 CF x @ \$2.48 \$2198.94*

MILEAGE *35.33 x 15 x @ \$2.62 \$1377.81*

TOTAL *\$19,126.38*

EQUIPMENT

PUMP TRUCK CEMENTER *Queen Facette*

423 281 HELPER *Tyler Ellipse*

BULK TRUCK

540-287 DRIVER *DJ Gray*

BULK TRUCK

347 DRIVER *Brandon Wilkins*

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE *\$2406.25*

EXTRA FOOTAGE @

MILEAGE *15 @ 7.70 N/A*

MANIFOLD @

LV Mileage @ 4.40 N/A

TOTAL *\$2406.25*

REMARKS:

Plug mousehole 205ks Plug Rathole 305ks

Pump water spacer mix 670 sks Down Casing

Displace with water Land Plug @

Float Did Hold Cement did Circulate

Thank You.

PLUG & FLOAT EQUIPMENT

@@@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES *21,532.63*

DISCOUNT IF PAID IN 30 DAYS

29,570

OBO

NOV 15 2012

PRINTED NAME *Gary Duke*

SIGNATURE *Gary Duke*

CHARGE TO: *FTML*

STREET

CITY STATE ZIP

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 13, 2013

FIML Natural Resources, LLC
410 17TH ST STE 900
DENVER, CO 80202-4420

Re: ACO1
API 15-193-20862-00-00
Herbel 11B-24-933
SW/4 Sec.24-09S-33W
Thomas County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.02 @ 07:02:00

End Date: 2012.11.02 @ 10:20:55

Job Ticket #: 49903 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.15 @ 14:14:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

24-9s-33w Thomas,KS

Herbel #11B-29-933

Job Ticket: 49903 **DST#: 1**

Test Start: 2012.11.02 @ 07:02:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 10:20:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 4176.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

Serial #: 8360 Inside

Press @ RunDepth: psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.02

Last Calib.:

2012.11.02

Start Time:

07:02:00

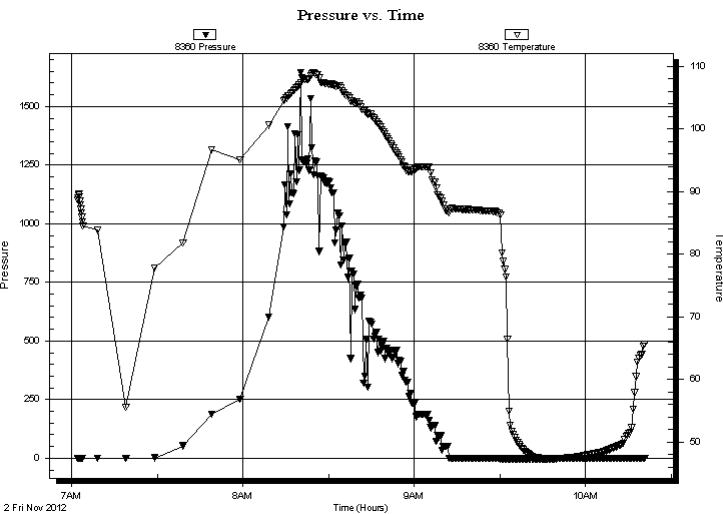
End Time:

10:20:55

Time On Btm:

Time Off Btm:

TEST COMMENT: Mis-Run - w as a Bridge around 2652 couldnt get thru it



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49903 **DST#: 1**

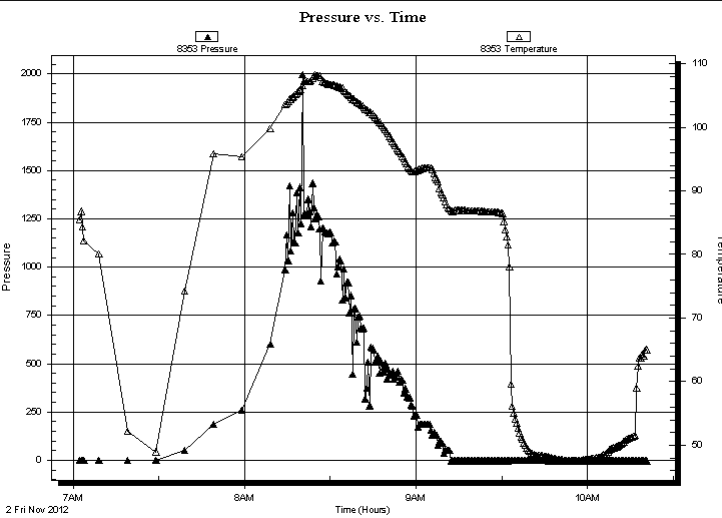
Test Start: 2012.11.02 @ 07:02:00

GENERAL INFORMATION:

Formation: **LKC " H "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 10:20:55
Interval: 4176.00 ft (KB) To 4250.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 40
Reference Elevations: 3106.00 ft (KB)
3096.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8353 Outside
Press @ Run Depth: psig @ 4178.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.02 End Date: 2012.11.02 Last Calib.: 2012.11.02
Start Time: 07:02:15 End Time: 10:21:00 Time On Btm:
Time Off Btm:

TEST COMMENT: Mis-Run - w as a Bridge around 2652 couldnt get thru it



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49903

DST#: 1

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.02 @ 07:02:00

Tool Information

Drill Pipe:	Length:	ft	Diameter:	3.80 inches	Volume:	- 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:	366.00 ft	Diameter:	2.25 inches	Volume:	1.80 bbl	Weight to Pull Loose:	lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	-3790.00 ft						String Weight: Initial	50000.00 lb
Depth to Top Packer:	4176.00 ft						Final	lb
Depth to Bottom Packer:	ft							
Interval between Packers:	74.00 ft							
Tool Length:	94.00 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			4157.00	
Shut In Tool	5.00			4162.00	
Hydraulic tool	5.00			4167.00	
Packer	5.00			4172.00	20.00 Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Perforations	1.00			4178.00	
Recorder	0.00	8360	Inside	4178.00	
Recorder	0.00	8353	Outside	4178.00	
Perforations	5.00			4183.00	
Change Over Sub	1.00			4184.00	
Drill Pipe	62.00			4246.00	
Change Over Sub	1.00			4247.00	
Bullnose	3.00			4250.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49903

DST#: 1

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.02 @ 07:02:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 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

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

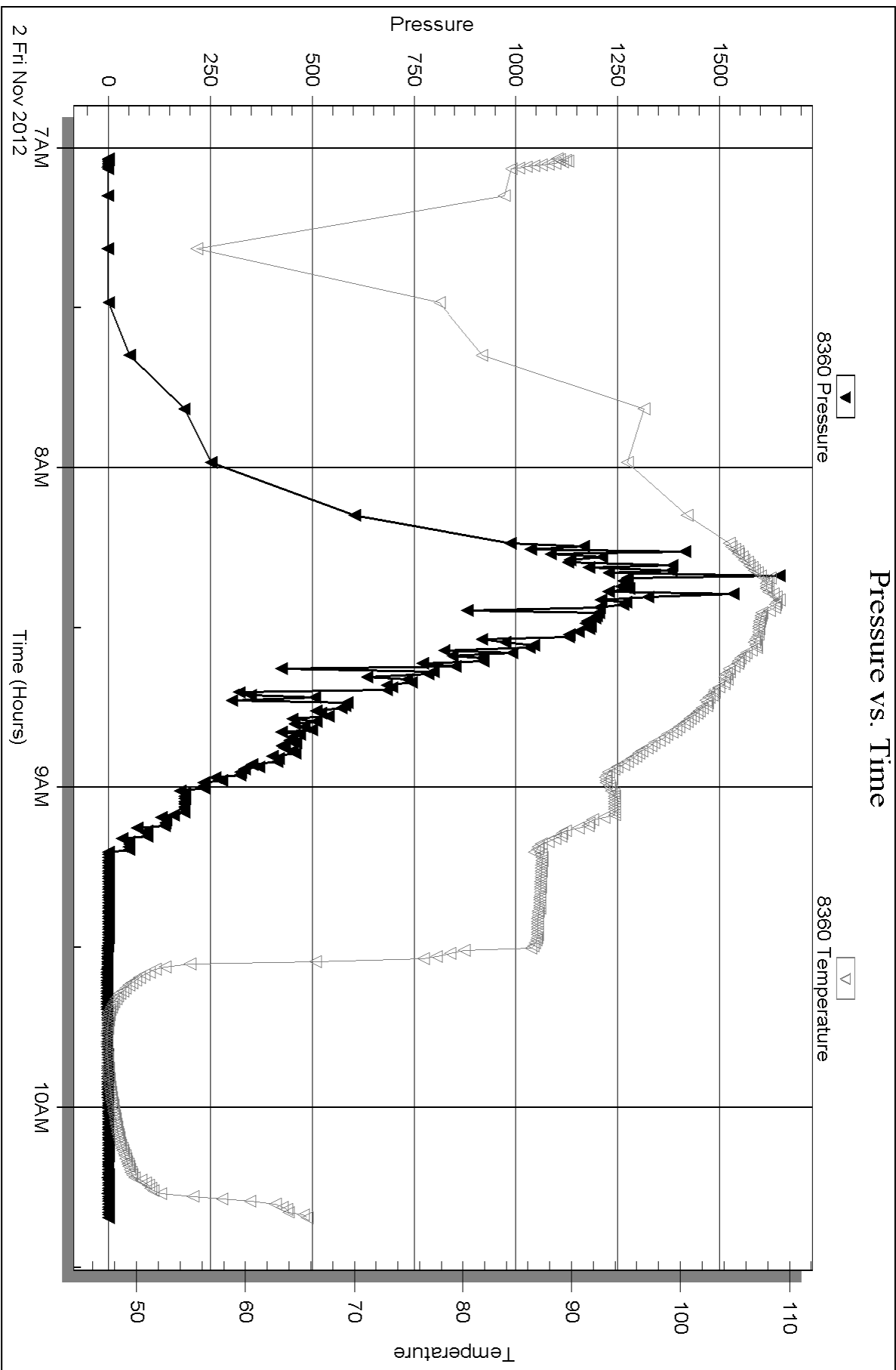
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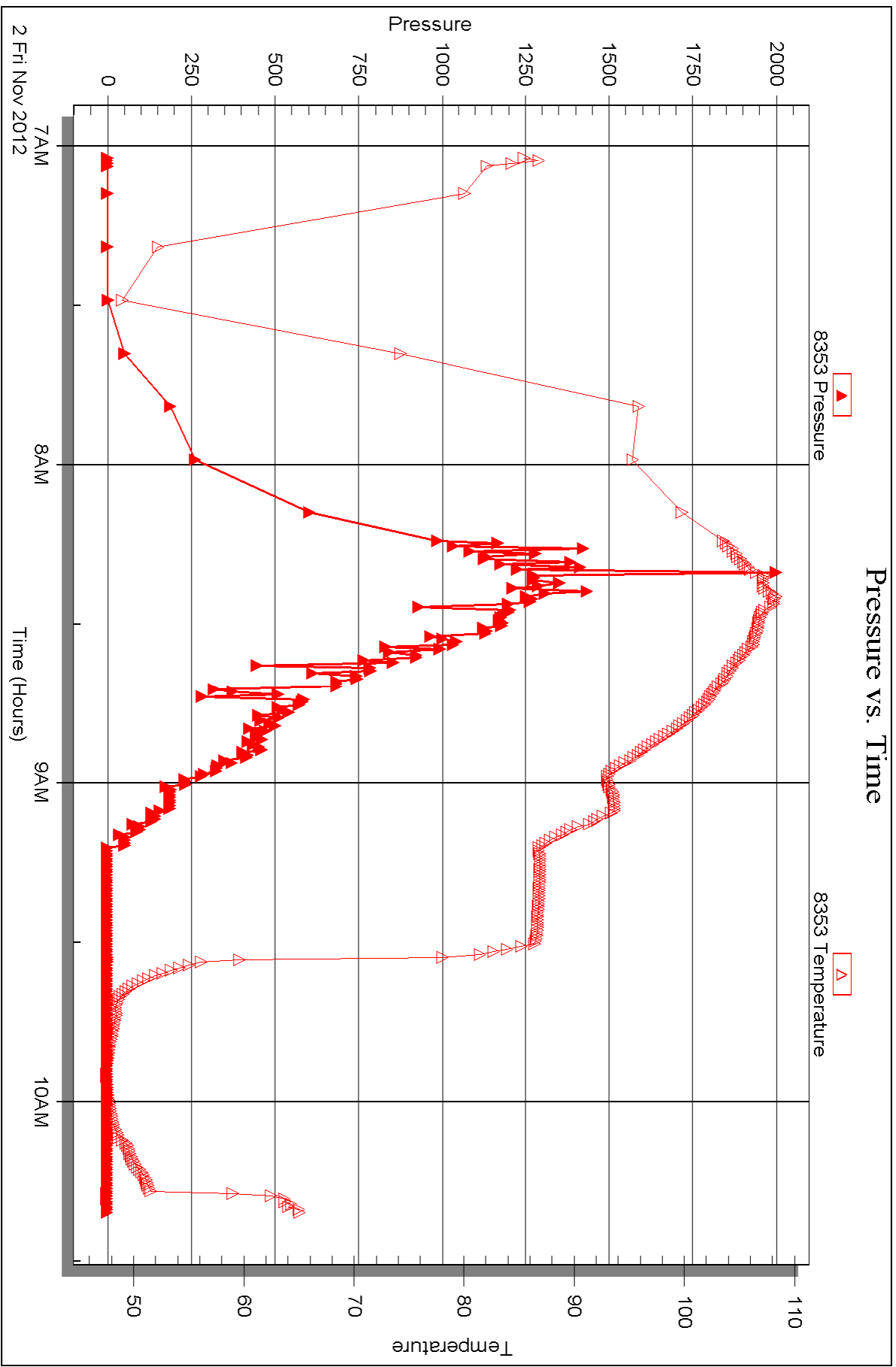
Inside

FIML Natural Resources LLC

Herbel #11B-29-933

DST Test Number: 1







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.02 @ 16:20:00

End Date: 2012.11.03 @ 00:32:54

Job Ticket #: 49904 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.15 @ 14:13:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49904

DST#: 2

Test Start: 2012.11.02 @ 16:20:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:55

Time Test Ended: 00:32:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4170.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 121.35 psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.03

Last Calib.: 2012.11.02

Start Time: 16:20:00

End Time:

00:32:54

Time On Btm: 2012.11.02 @ 18:45:40

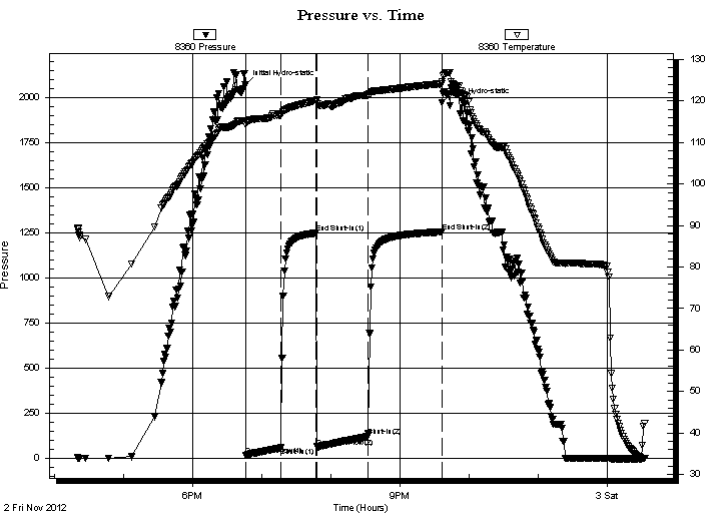
Time Off Btm: 2012.11.02 @ 21:36:39

TEST COMMENT: IF- Weak Surface Blow Built to 2 3/4"

IS- No Blow

FF- Weak Surface Blow 1/2"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.86	115.29	Initial Hydro-static
1	16.43	114.29	Open To Flow (1)
31	58.00	116.59	Shut-In(1)
61	1249.06	120.10	End Shut-In(1)
63	61.39	120.03	Open To Flow (2)
107	121.35	121.48	Shut-In(2)
171	1255.24	124.18	End Shut-In(2)
171	1971.78	124.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	MCW 10%m 90%w	0.45
92.00	MCW 27%m 73%w	0.45
10.00	WCM 37%w 63%m with Skim of Oil on	0.05

* 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

24-9s-33w Thomas, KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49904

DST#: 2

Test Start: 2012.11.02 @ 16:20:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:55

Time Test Ended: 00:32:54

Interval: 4170.00 ft (KB) To 4250.00 ft (KB) (TVD)

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 4178.00 ft (KB)

Start Date: 2012.11.02

End Date:

2012.11.03

Start Time: 16:20:15

End Time:

00:33:00

Capacity: 8000.00 psig

Last Calib.:

2012.11.02

Time On Btm:

Time Off Btm:

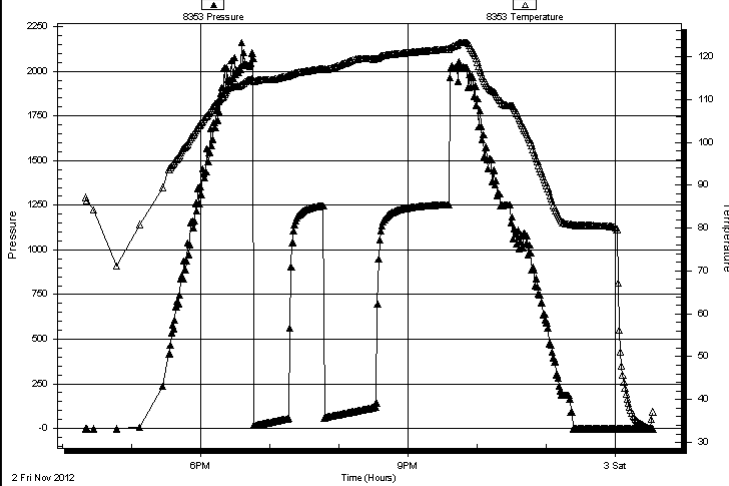
TEST COMMENT: IF- Weak Surface Blow Built to 2 3/4"

ISI- No Blow

FF- Weak Surface Blow 1/2"

FSI- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
92.00	MCW 10%m 90%w	0.45
92.00	MCW 27%m 73%w	0.45
10.00	WCM 37%w 63%m with Skim of Oil on	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49904

DST#: 2

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.02 @ 16:20:00

Tool Information

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 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:	24000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose:	18000.00 lb
			<u>Total Volume: 55.10 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4176.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	94.00 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			4157.00	
Shut In Tool	5.00			4162.00	
Hydraulic tool	5.00			4167.00	
Packer	5.00			4172.00	20.00 Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Perforations	1.00			4178.00	
Recorder	0.00	8360	Inside	4178.00	
Recorder	0.00	8353	Outside	4178.00	
Perforations	5.00			4183.00	
Change Over Sub	1.00			4184.00	
Drill Pipe	62.00			4246.00	
Change Over Sub	1.00			4247.00	
Bullnose	3.00			4250.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49904

DST#: 2

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.02 @ 16:20:00

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:

43000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.71 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
92.00	MCW 10%m 90%w	0.452
92.00	MCW 27%m 73%w	0.452
10.00	WCM 37%w 63%m with Skim of Oil on Top	0.049

Total Length: 194.00 ft Total Volume: 0.953 bbl

Num Fluid Samples: 0

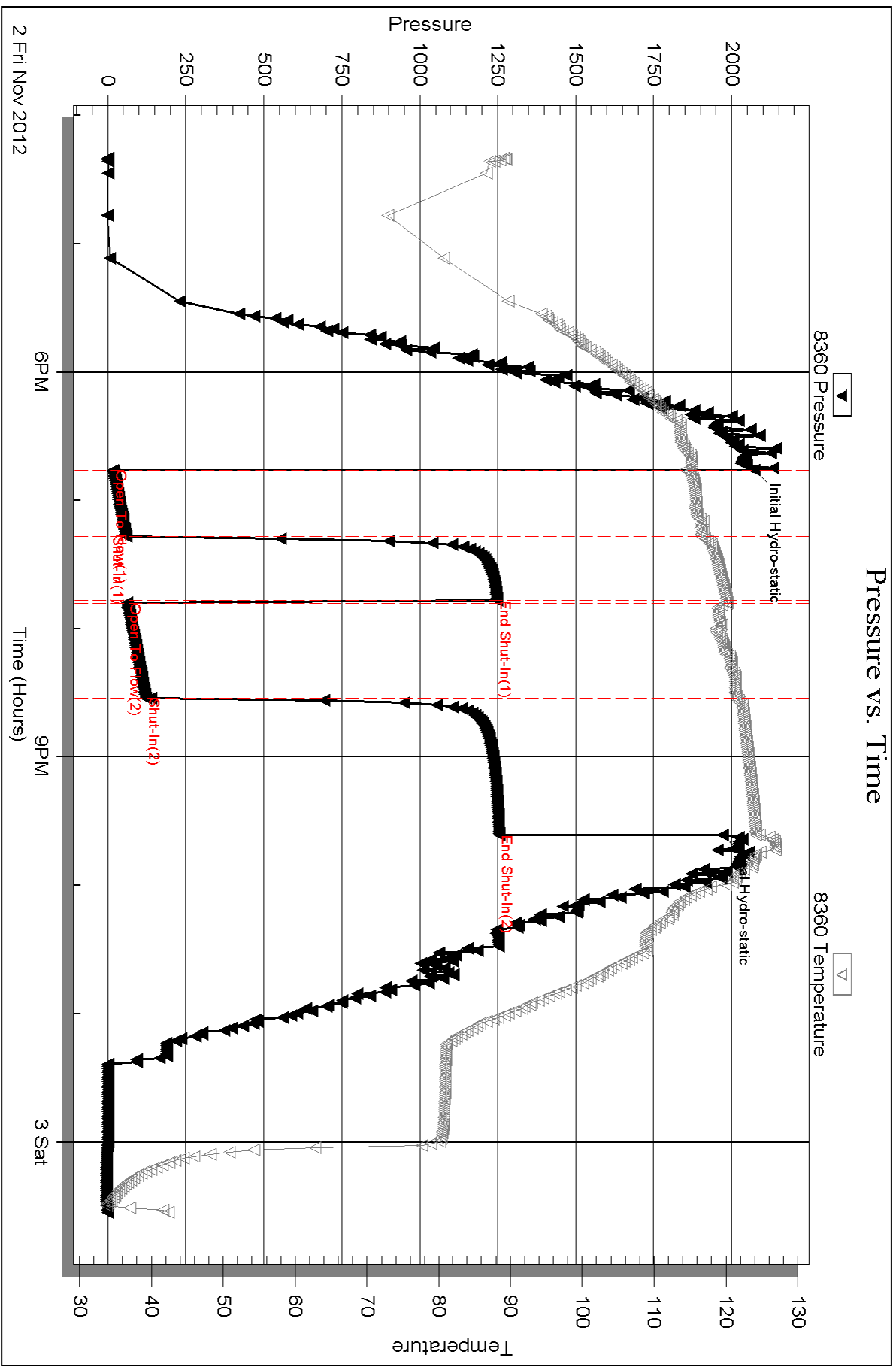
Num Gas Bombs: 0

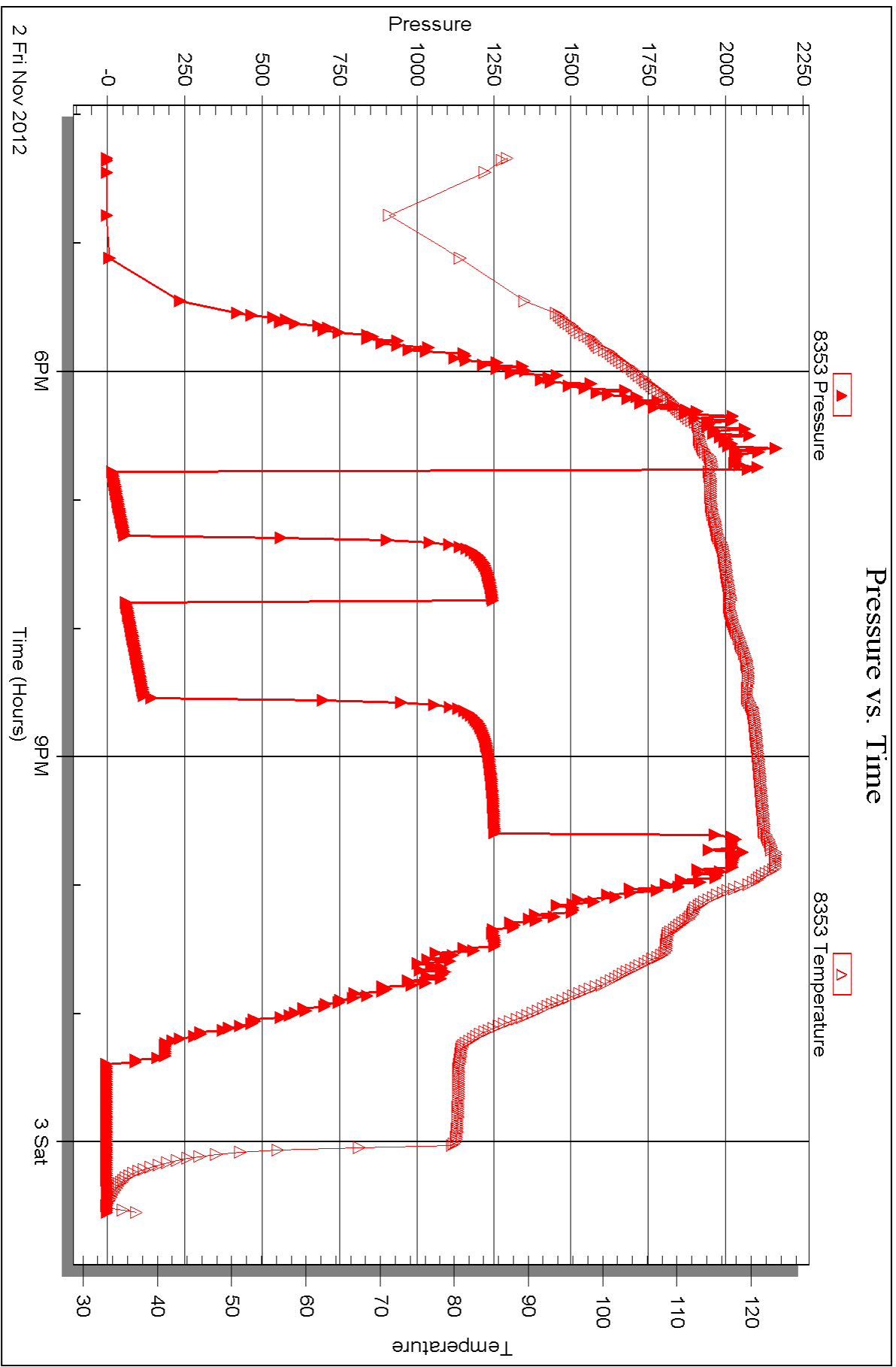
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .284 @ 41f = 43000







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.03 @ 09:50:00

End Date: 2012.11.03 @ 16:07:39

Job Ticket #: 49905 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.15 @ 14:11:46

FIML Natural Resources LLC

24-9s-33w Thomas,KS

Herbel #11B-29-933

DST # 3

LKC " I & J "

2012.11.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49905

DST#: 3

Test Start: 2012.11.03 @ 09:50:00

GENERAL INFORMATION:

Formation: **LKC "I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:45:55

Time Test Ended: 16:07:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4244.00 ft (KB) To 4292.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 27.97 psig @ 4246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.03

End Date:

2012.11.03

Last Calib.:

2012.11.03

Start Time: 09:50:00

End Time:

16:07:39

Time On Btm:

2012.11.03 @ 11:45:40

Time Off Btm:

2012.11.03 @ 14:08:24

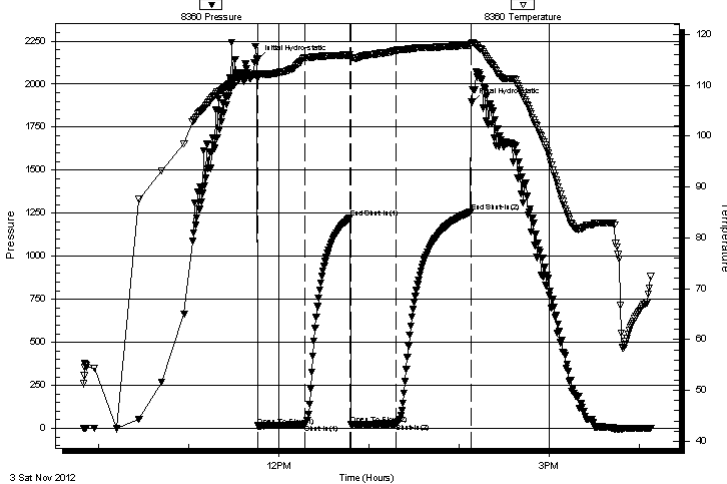
TEST COMMENT: IF- Weak Surface Blow Built to 3/4"

IS- No Blow

FF- Weak Surface Blow Died in 2 1/2 min

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.61	112.16	Initial Hydro-static
1	14.97	111.38	Open To Flow (1)
32	22.00	115.48	Shut-In(1)
62	1224.17	115.98	End Shut-In(1)
63	23.48	115.44	Open To Flow (2)
93	27.97	116.88	Shut-In(2)
143	1257.78	117.89	End Shut-In(2)
143	1894.66	118.22	Final Hydro-static

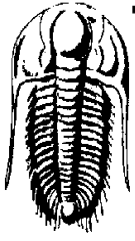
Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%m	0.05

* 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

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

24-9s-33w Thomas, KS

Herbel #11B-29-933

Job Ticket: 49905

DST#: 3

Test Start: 2012.11.03 @ 09:50:00

GENERAL INFORMATION:

Formation: **LKC " I & J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:45:55

Time Test Ended: 16:07:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4244.00 ft (KB) To 4292.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8353 Outside

Press @ RunDepth: psig @ 4246.00 ft (KB)

Start Date: 2012.11.03

End Date: 2012.11.03

Capacity: 8000.00 psig

Last Calib.: 2012.11.03

Start Time: 09:50:15

End Time: 16:07:45

Time On Btm:

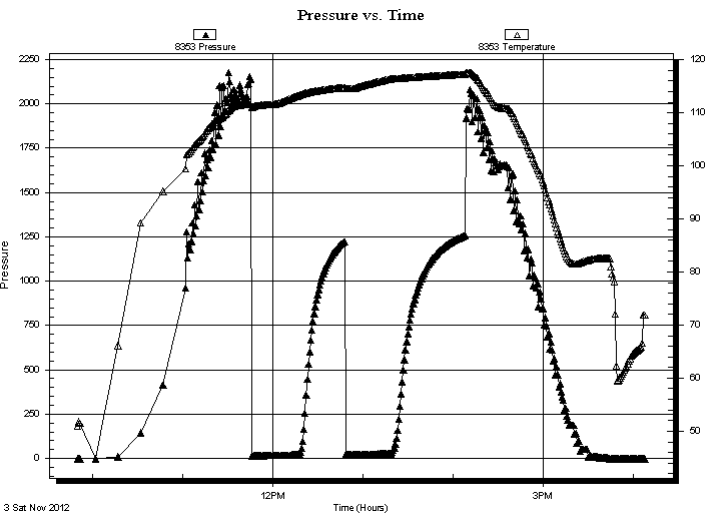
Time Off Btm:

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

IS- No Blow

FF- Weak Surface Blow Died in 2 1/2 min

FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%m	0.05

* 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

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49905

DST#: 3

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.03 @ 09:50:00

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 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: 24000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 6000.00 lb
			<u>Total Volume: 55.97 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4244.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			4225.00	
Shut In Tool	5.00			4230.00	
Hydraulic tool	5.00			4235.00	
Packer	5.00			4240.00	20.00 Bottom Of Top Packer
Packer	4.00			4244.00	
Stubb	1.00			4245.00	
Perforations	1.00			4246.00	
Recorder	0.00	8360	Inside	4246.00	
Recorder	0.00	8353	Outside	4246.00	
Perforations	10.00			4256.00	
Change Over Sub	1.00			4257.00	
Drill Pipe	31.00			4288.00	
Change Over Sub	1.00			4289.00	
Bullnose	3.00			4292.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49905

DST#: 3

ATTN: Gary Duke / Jim Musg

Test Start: 2012.11.03 @ 09:50:00

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

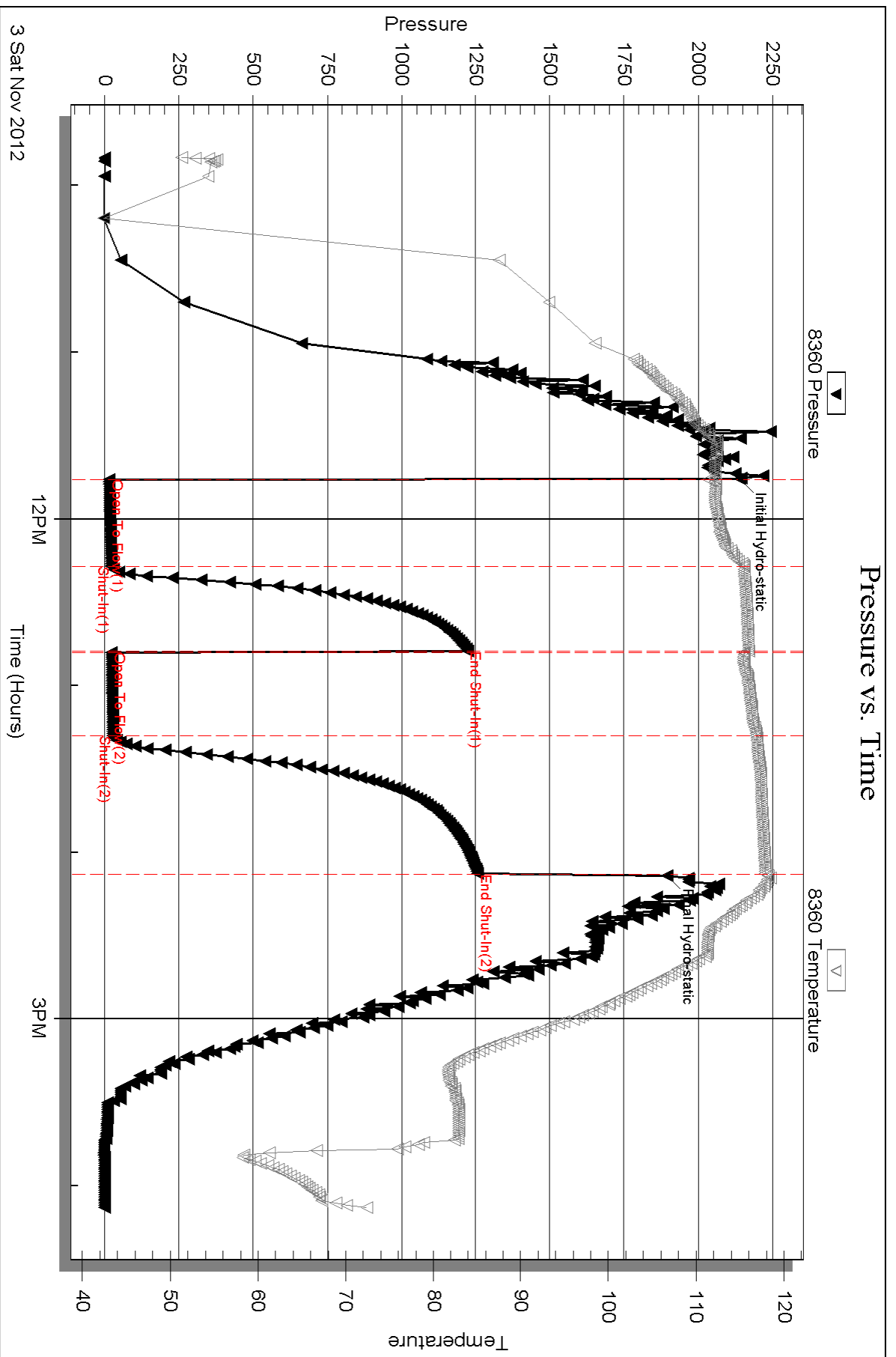
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

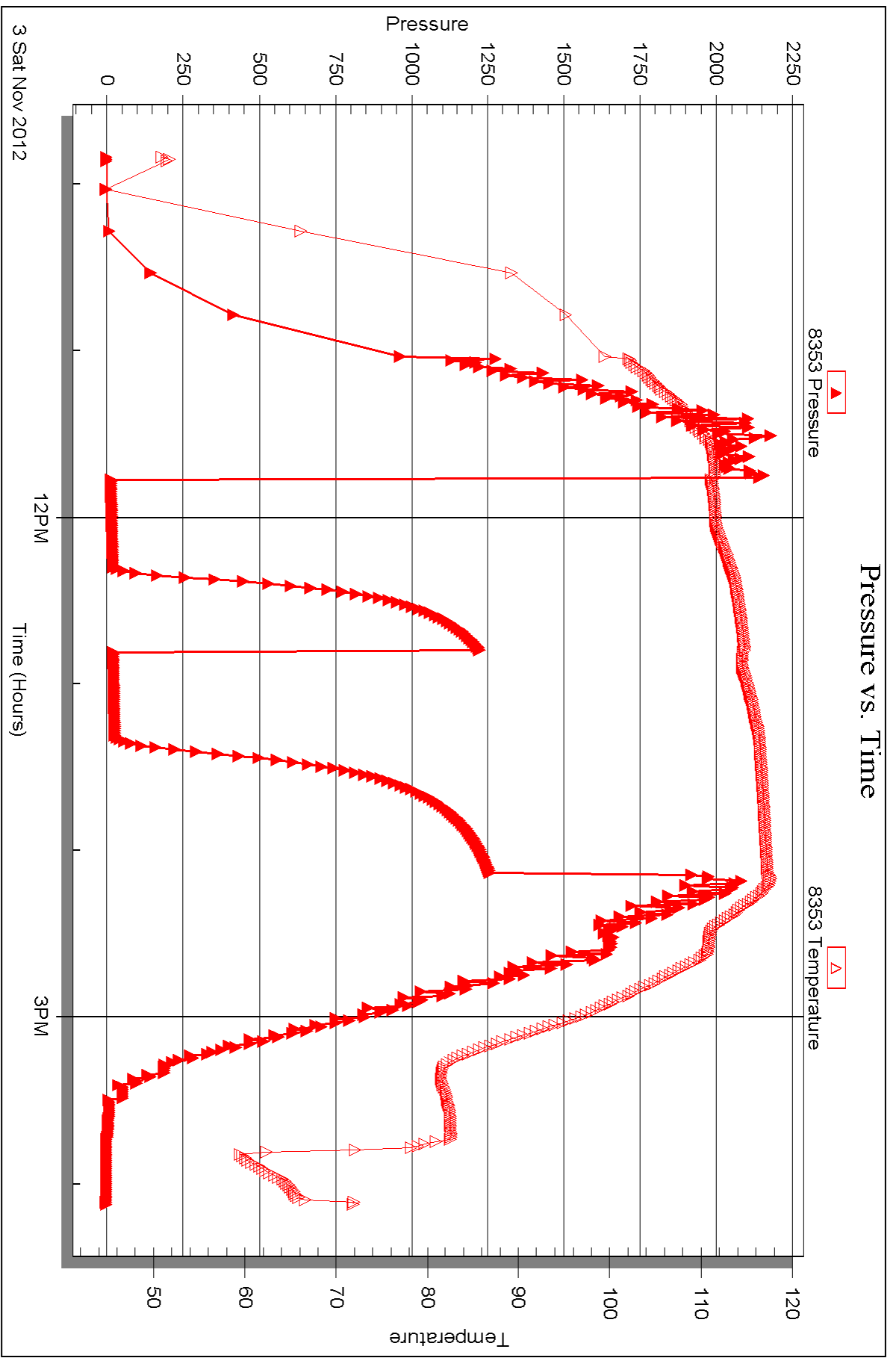


Serial #: 8353

Outside FIML Natural Resources LLC

Herbel #11B-29-933

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.04 @ 15:01:32

End Date: 2012.11.05 @ 00:28:32

Job Ticket #: 49833 DST #: 4

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

Printed: 2012.11.15 @ 14:10:33



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49833

DST#: 4

Test Start: 2012.11.04 @ 15:01:32

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:02

Time Test Ended: 00:28:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: 4454.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 218.00 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.04

End Date:

2012.11.05

Last Calib.: 2012.11.05

Start Time: 15:01:37

End Time:

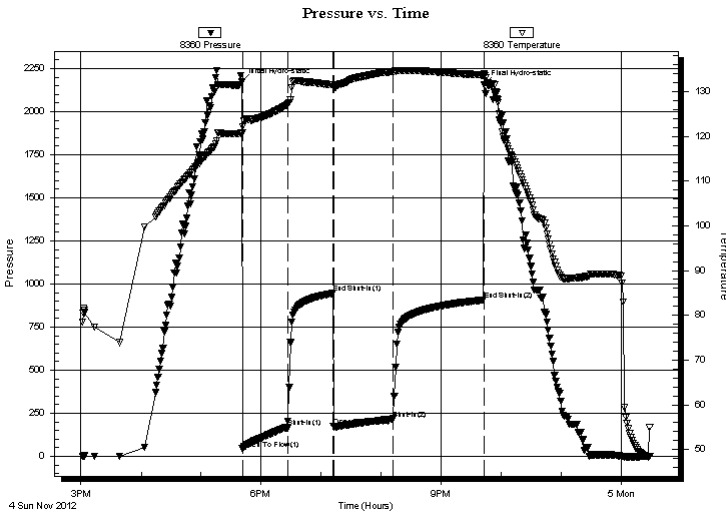
00:28:32

Time On Btm: 2012.11.04 @ 17:40:32

Time Off Btm: 2012.11.04 @ 21:42:47

TEST COMMENT: IF-B.O.B. in 15 mins.
ISI-Weak Surface return blow built to 1"
FF-B.O.B. in 20 mins
FSI-Fair return blow built to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.59	120.65	Initial Hydro-static
1	43.53	120.74	Open To Flow (1)
46	166.53	127.10	Shut-In(1)
92	946.24	131.50	End Shut-In(1)
92	173.23	131.05	Open To Flow (2)
151	218.00	134.45	Shut-In(2)
242	907.05	133.69	End Shut-In(2)
243	2156.33	133.89	Final Hydro-static

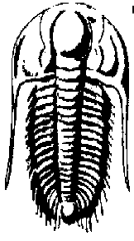
Recovery

Length (ft)	Description	Volume (bbl)
279.00	5%G 5%O 35%M 55%W	1.37
166.00	2%G 38%O 60%M	1.54
51.00	2%G 98%O	0.72
0.00	527' Weak G.I.P.	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

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Duke / Jim Musg

24-9s-33w Thomas, KS

Herbel #11B-29-933

Job Ticket: 49833 **DST#: 4**

Test Start: 2012.11.04 @ 15:01:32

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:02

Time Test Ended: 00:28:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: **4454.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3106.00 ft (KB)

3096.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **8353** **Outside**

Press @ Run Depth: psig @ 4455.00 ft (KB)

Start Date: 2012.11.04

End Date:

2012.11.05

Capacity: 8000.00 psig

Last Calib.:

2012.11.05

Start Time: 15:01:36

End Time:

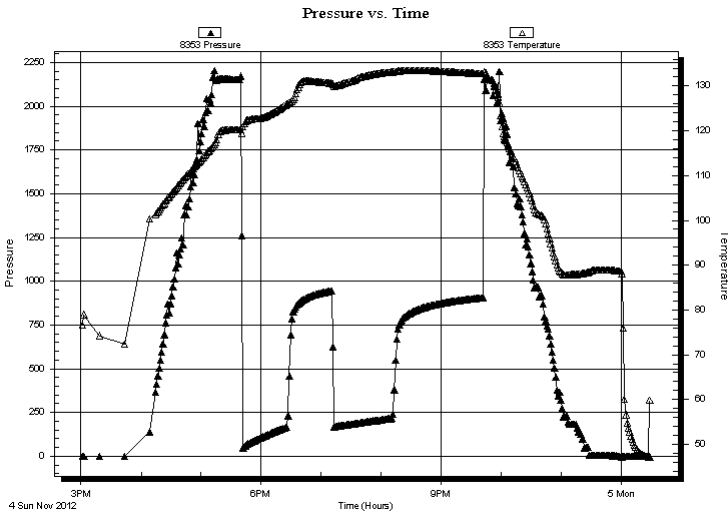
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF-B.O.B. in 15 mins.
ISI-Weak Surface return blow built to 1"
FF-B.O.B. in 20 mins
FSI-Fair return blow built to 4"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
279.00	5%G 5%O 35%M 55%W	1.37
166.00	2%G 38%O 60%M	1.54
51.00	2%G 98%O	0.72
0.00	527' Weak G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49833

DST#: 4

ATTN: Gary Duke / Jim Musg

Test Start: 2012.11.04 @ 15:01:32

Tool Information

Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 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:	20000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose:	88000.00 lb
			<u>Total Volume: 59.02 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4454.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	66.00 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			4435.00	
Shut In Tool	5.00			4440.00	
Hydraulic tool	5.00			4445.00	
Packer	5.00			4450.00	20.00 Bottom Of Top Packer
Packer	4.00			4454.00	
Stubb	1.00			4455.00	
Recorder	0.00	8360	Inside	4455.00	
Recorder	0.00	8353	Outside	4455.00	
Perforations	8.00			4463.00	
Change Over Sub	1.00			4464.00	
Drill Pipe	32.00			4496.00	
Change Over Sub	1.00			4497.00	
Bullnose	3.00			4500.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49833

DST#: 4

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.04 @ 15:01:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
279.00	5%G 5%O 35%M 55%W	1.372
166.00	2%G 38%O 60%M	1.536
51.00	2%G 98%O	0.715
0.00	527' Weak G.I.P.	0.000

Total Length: 496.00 ft Total Volume: 3.623 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

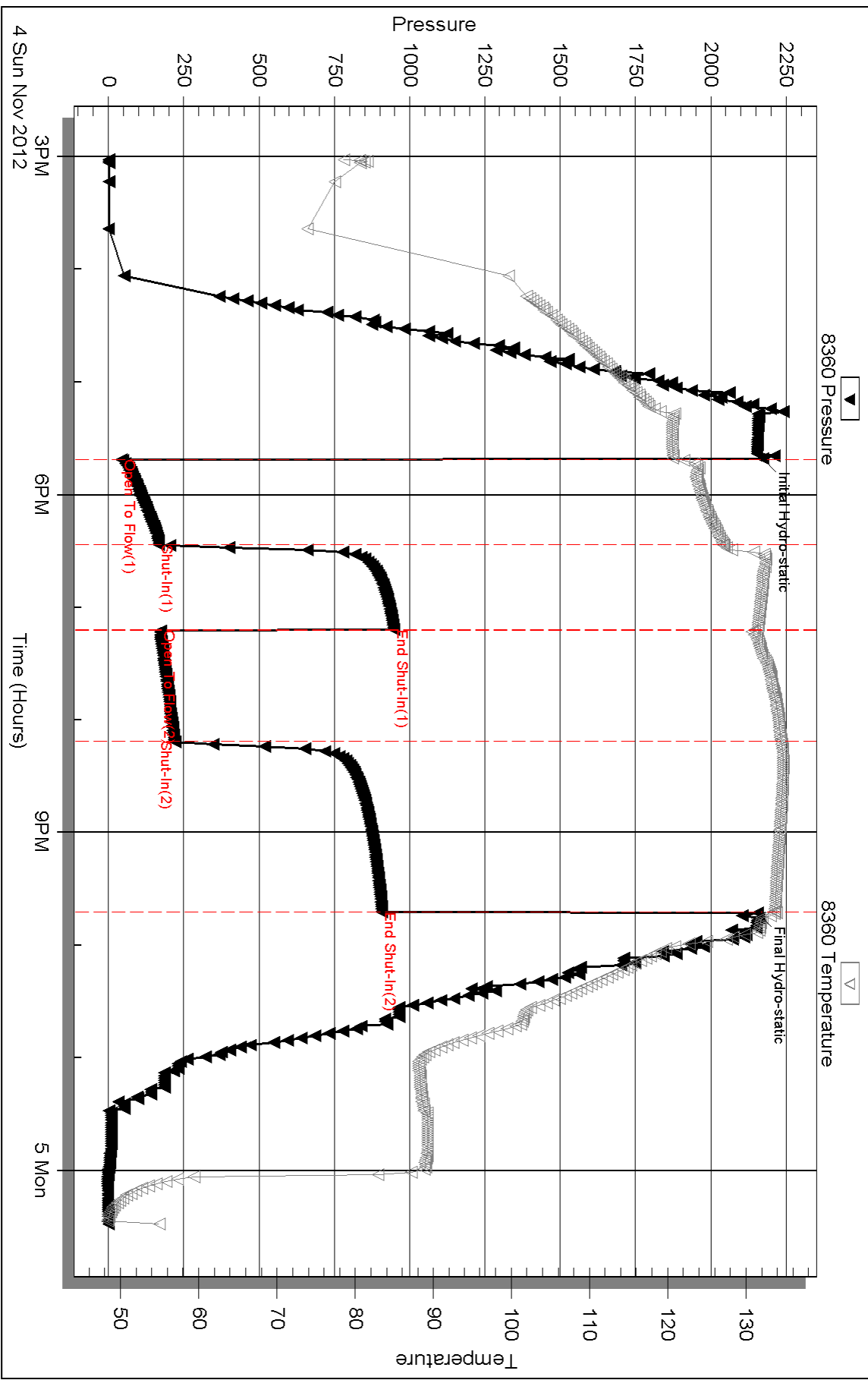
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36 @ 50F=35

Pressure vs. Time

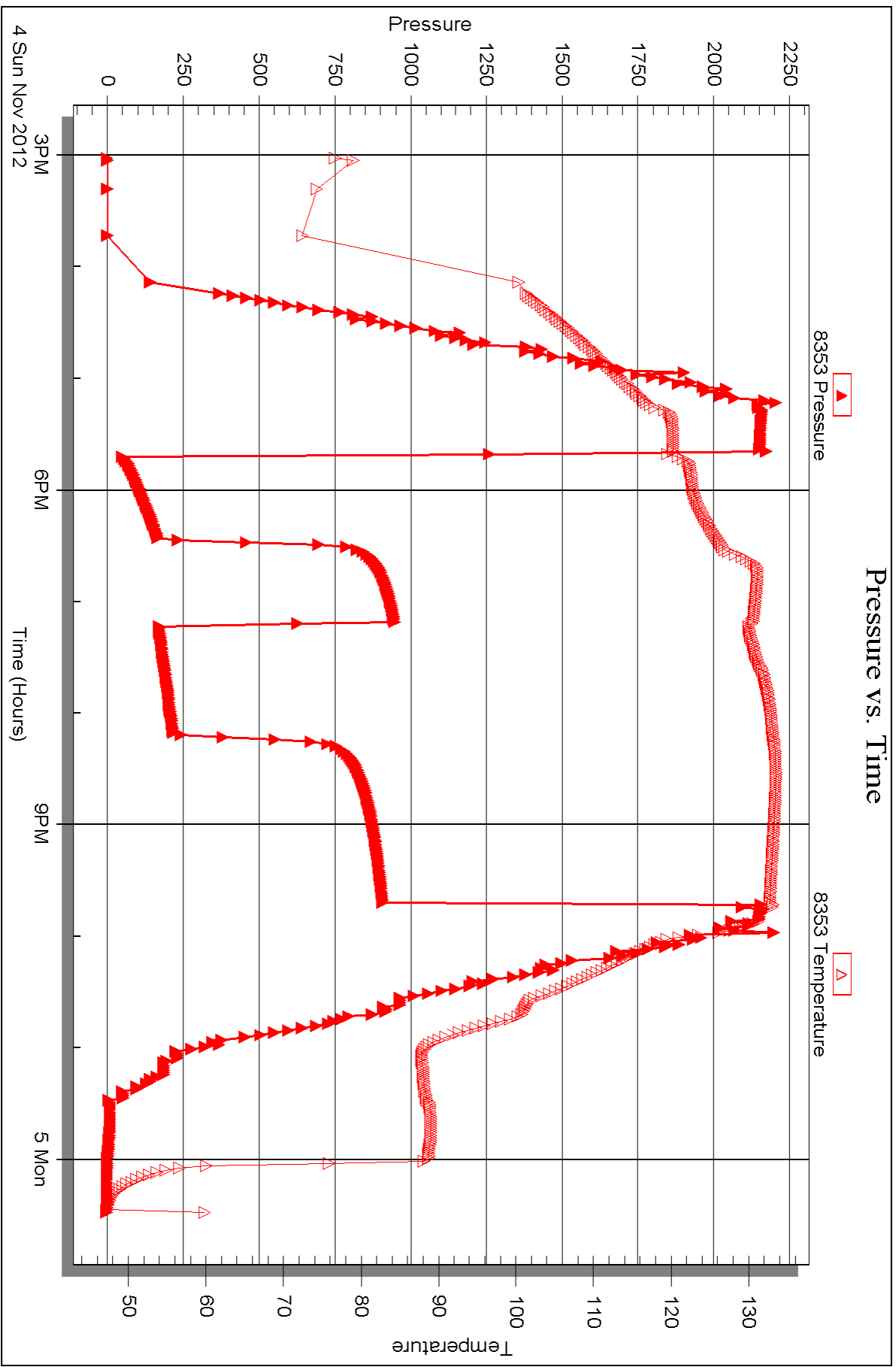


Serial #: 8353

Outside FIML Natural Resources LLC

Herbel #11B-29-933

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.05 @ 10:49:32

End Date: 2012.11.05 @ 17:35:17

Job Ticket #: 49834 DST #: 5

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

Printed: 2012.11.15 @ 14:08:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Duke / Jim Musg

Job Ticket: 49834

DST#: 5

Test Start: 2012.11.05 @ 10:49:32

GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:29:47

Time Test Ended: 17:35:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: 4500.00 ft (KB) To 4555.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4555.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 92.56 psig @ 4501.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.05

End Date: 2012.11.05

Last Calib.: 2012.11.05

Start Time: 10:49:37

End Time: 17:35:16

Time On Btm: 2012.11.05 @ 13:29:32

Time Off Btm: 2012.11.05 @ 15:32:32

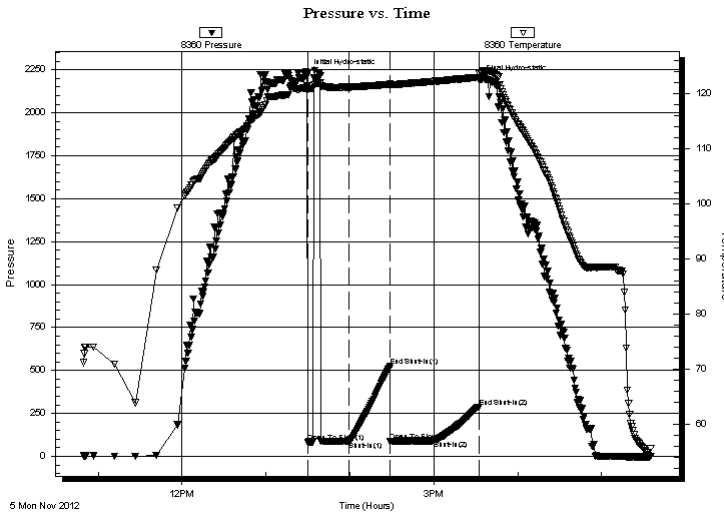
TEST COMMENT: IF-Surged w hen open then died. Flushed tool weak surface blow built to 1/4" Tool Slid 10'

ISI-Dead No Return

FF-Dead no blow .

FSI-Dead no return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.75	121.40	Initial Hydro-static
1	83.66	120.69	Open To Flow (1)
30	88.32	121.16	Shut-In(1)
60	525.85	121.67	End Shut-In(1)
60	88.86	121.47	Open To Flow (2)
91	92.56	122.21	Shut-In(2)
123	284.72	122.94	End Shut-In(2)
123	2191.92	123.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	100%M Skim of oil on top of tool	0.49

* 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
410 17th St. STE 900
Denver CO. 80202
ATTN: Gary Duke / Jim Musg

24-9s-33w Thomas,KS

Herbel #11B-29-933

Job Ticket: 49834

DST#: 5

Test Start: 2012.11.05 @ 10:49:32

GENERAL INFORMATION:

Formation: **FT. Scott**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:29:47 Tester: Tate Lang
Time Test Ended: 17:35:17 Unit No: 40
Interval: **4500.00 ft (KB) To 4555.00 ft (KB) (TVD)** Reference Elevations: 3106.00 ft (KB)
Total Depth: 4555.00 ft (KB) (TVD) 3096.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

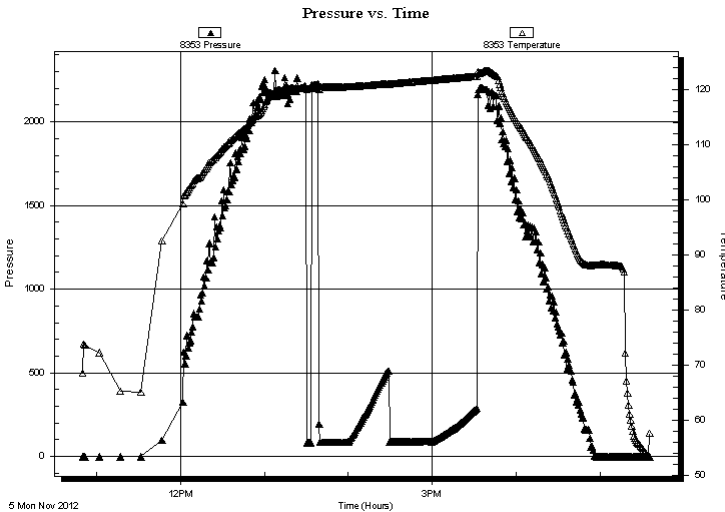
Serial #: 8353

Outside

Press @ RunDepth: psig @ 4501.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.05 End Date: 2012.11.05 Last Calib.: 2012.11.05
Start Time: 10:50:07 End Time: 17:35:37 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Surged w hen open then died. Flushed tool weak surface blow built to 1/4" Tool Slid 10'
ISI-Dead No Return
FF-Dead no blow .
FSI-Dead no return

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
100.00	100%M Skim of oil on top of tool	0.49

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49834

DST#: 5

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.05 @ 10:49:32

Tool Information

Drill Pipe:	Length: 4143.00 ft	Diameter: 3.80 inches	Volume: 58.12 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: 20000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 59.92 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4500.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			4481.00	
Shut In Tool	5.00			4486.00	
Hydraulic tool	5.00			4491.00	
Packer	5.00			4496.00	20.00 Bottom Of Top Packer
Packer	4.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	8360	Inside	4501.00	
Recorder	0.00	8353	Outside	4501.00	
Perforations	17.00			4518.00	
Change Over Sub	1.00			4519.00	
Drill Pipe	32.00			4551.00	
Change Over Sub	1.00			4552.00	
Bullnose	3.00			4555.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49834

DST#: 5

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.05 @ 10:49:32

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: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.38 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 bbl
100.00	100%M Skim of oil on top of tool	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

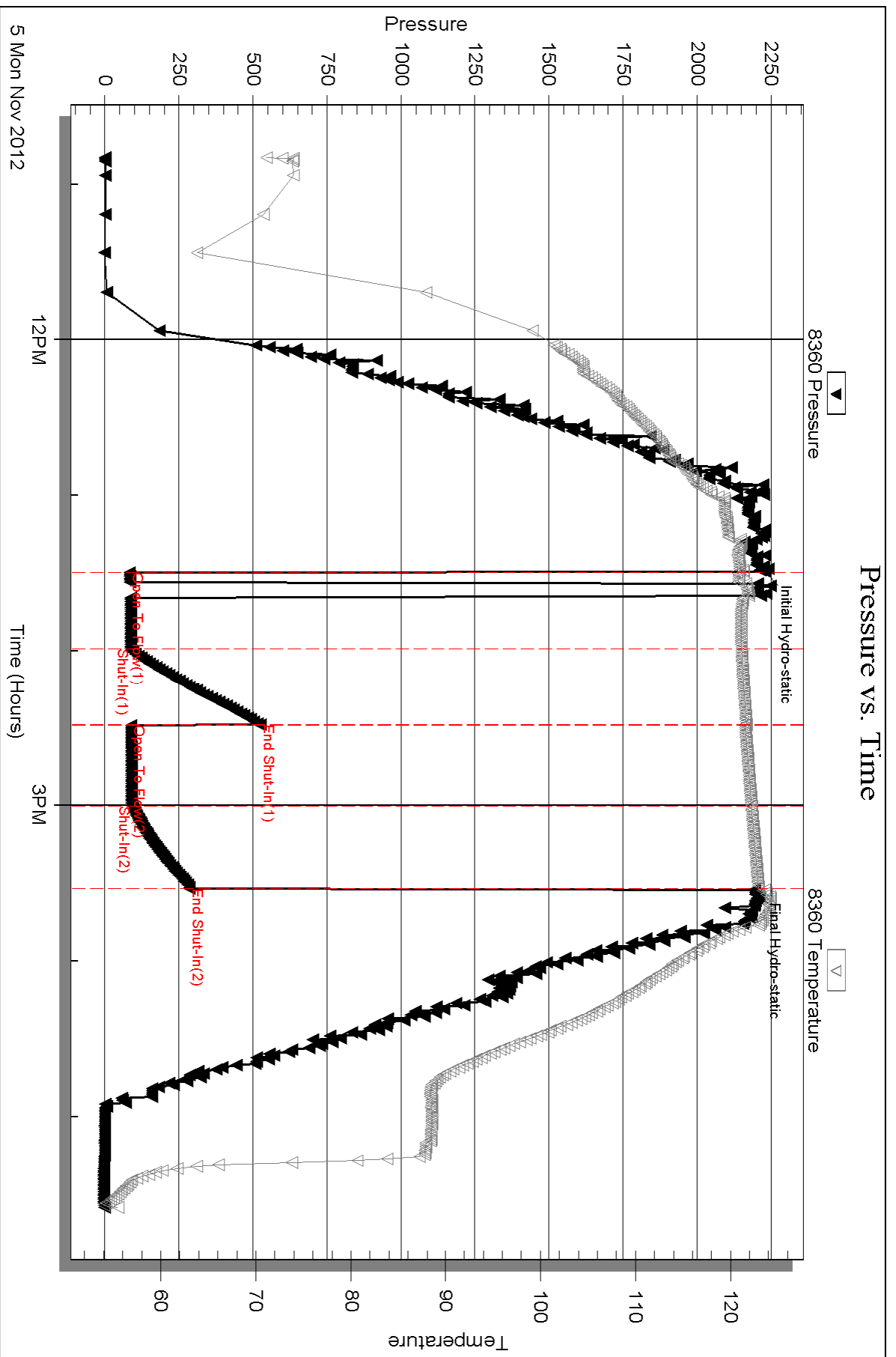
Num Gas Bombs: 0

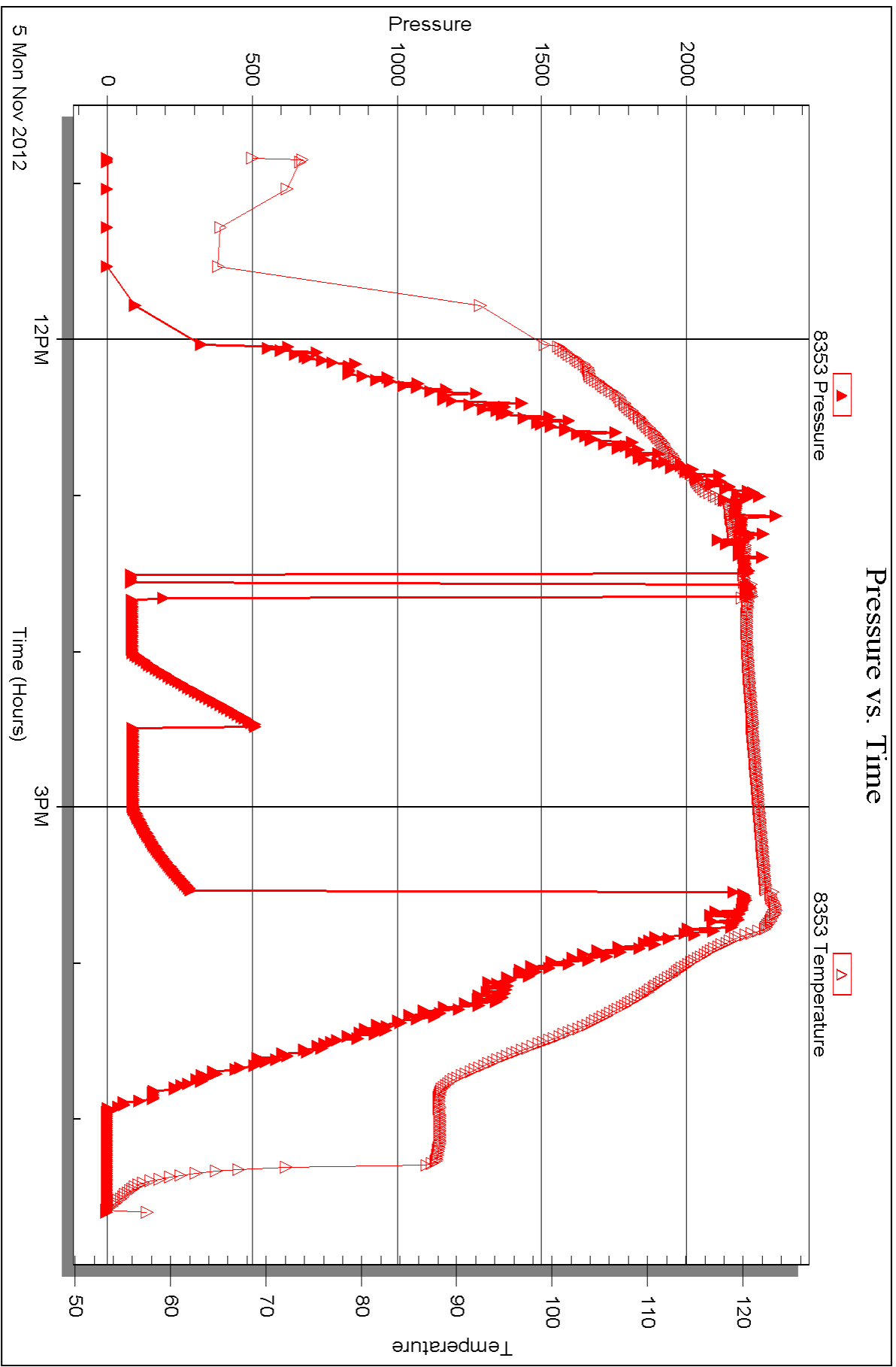
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.06 @ 06:02:38

End Date: 2012.11.06 @ 13:14:38

Job Ticket #: 49835 DST #: 6

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

Printed: 2012.11.15 @ 14:07:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49835

DST#: 6

Test Start: 2012.11.06 @ 06:02:38

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:08

Time Test Ended: 13:14:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: 4558.00 ft (KB) To 4615.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4615.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ RunDepth: 19.51 psig @ 4564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.06

End Date:

2012.11.06

Last Calib.:

2012.11.06

Start Time: 06:02:43

End Time:

13:14:37

Time On Btm:

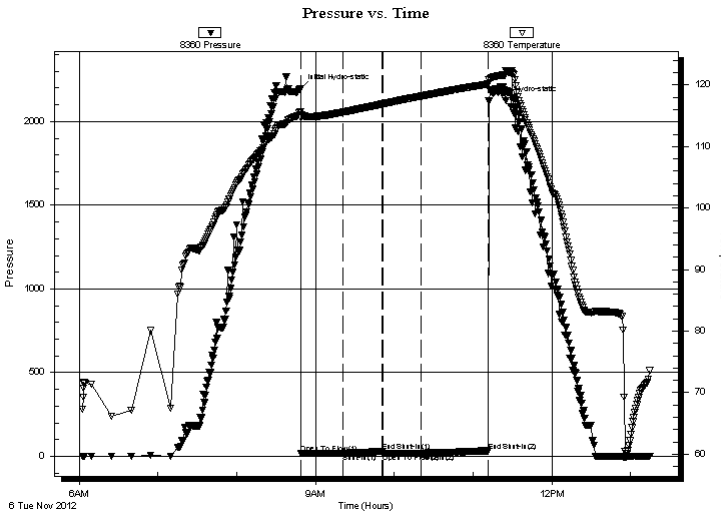
2012.11.06 @ 08:48:53

Time Off Btm:

2012.11.06 @ 11:11:53

TEST COMMENT: IF-Weak surface blow .
ISI-Dead no return
FF-Dead no blow .
FSI-Dead no return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.84	115.72	Initial Hydro-static
1	17.77	114.71	Open To Flow (1)
32	19.12	115.57	Shut-In(1)
62	30.59	116.92	End Shut-In(1)
63	19.38	116.93	Open To Flow (2)
92	19.51	118.20	Shut-In(2)
143	31.82	120.15	End Shut-In(2)
143	2122.49	120.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

* 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

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49835

DST#: 6

Test Start: 2012.11.06 @ 06:02:38

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:49:08
 Time Test Ended: 13:14:38
 Interval: **4558.00 ft (KB) To 4615.00 ft (KB) (TVD)**
 Total Depth: 4615.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 40
 Reference Elevations: 3106.00 ft (KB)
 3096.00 ft (CF)
 KB to GR/CF: 10.00 ft

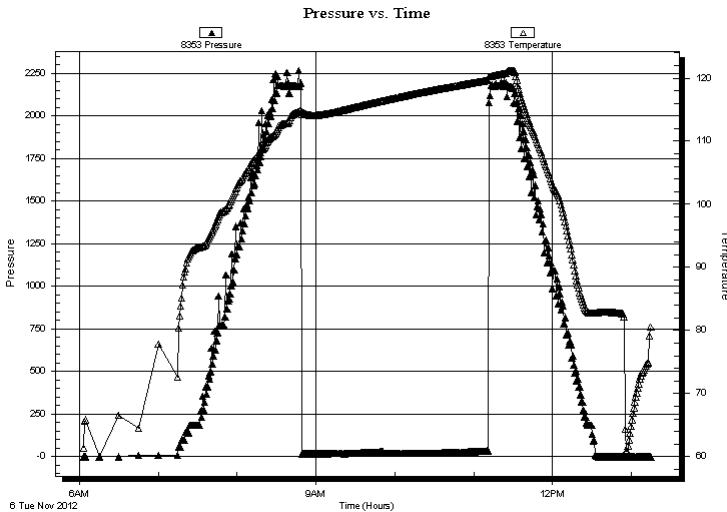
Serial #: 8353

Outside

Press @ RunDepth: psig @ 4564.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.06 End Date: 2012.11.06 Last Calib.: 2012.11.06
 Start Time: 06:03:01 End Time: 13:14:46 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Weak surface blow .
 IS-Dead no return
 FF-Dead no blow .
 FS-Dead no return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

* 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

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49835

DST#: 6

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.06 @ 06:02:38

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 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: 20000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 60.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4558.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 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			4539.00	
Shut In Tool	5.00			4544.00	
Hydraulic tool	5.00			4549.00	
Packer	5.00			4554.00	20.00 Bottom Of Top Packer
Packer	4.00			4558.00	
Stubb	1.00			4559.00	
Perforations	5.00			4564.00	
Recorder	0.00	8360	Inside	4564.00	
Recorder	0.00	8353	Outside	4564.00	
Perforations	14.00			4578.00	
Change Over Sub	1.00			4579.00	
Drill Pipe	32.00			4611.00	
Change Over Sub	1.00			4612.00	
Bullnose	3.00			4615.00	57.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49835

DST#: 6

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.06 @ 06:02:38

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

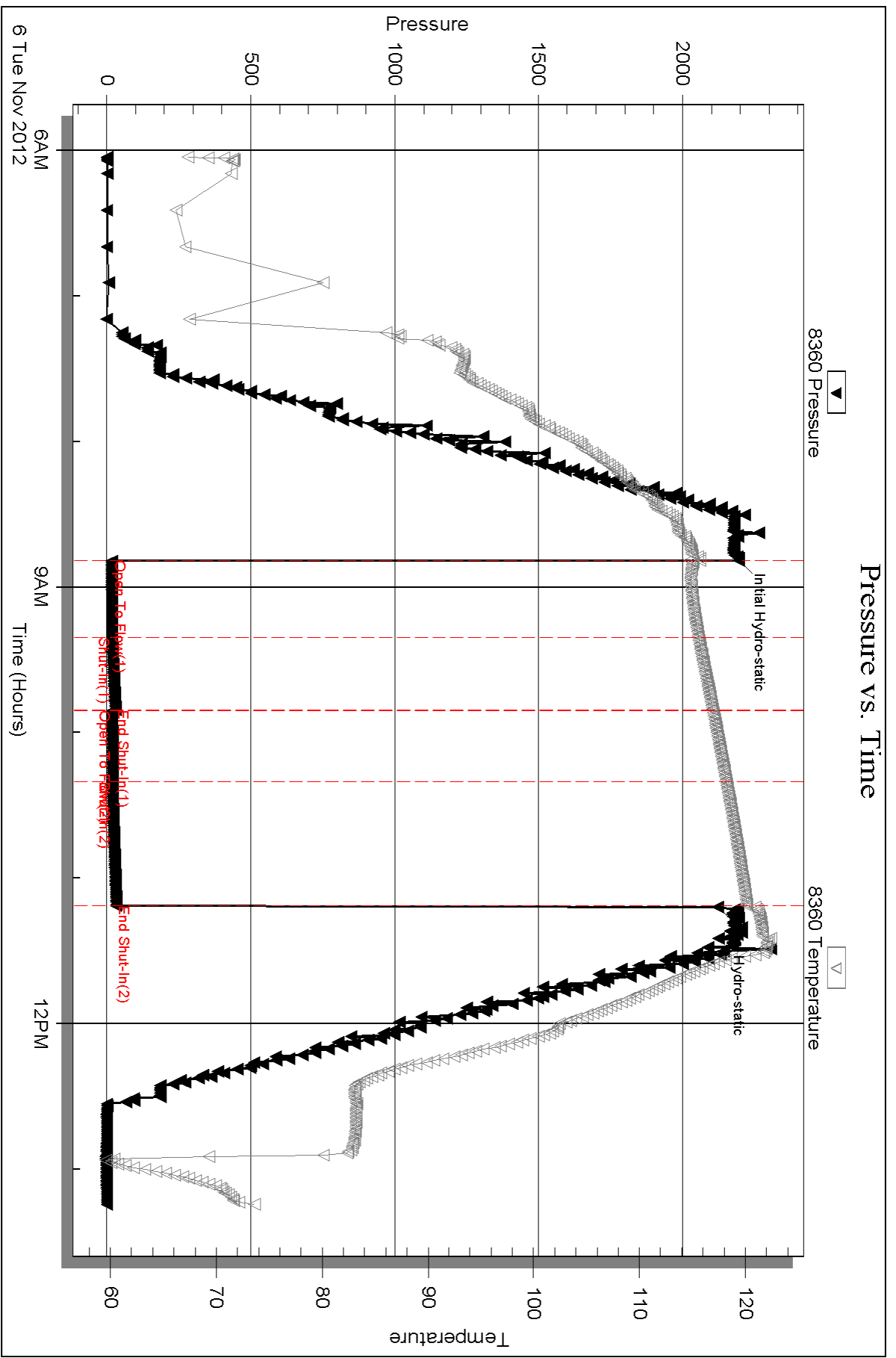
Num Gas Bombs: 0

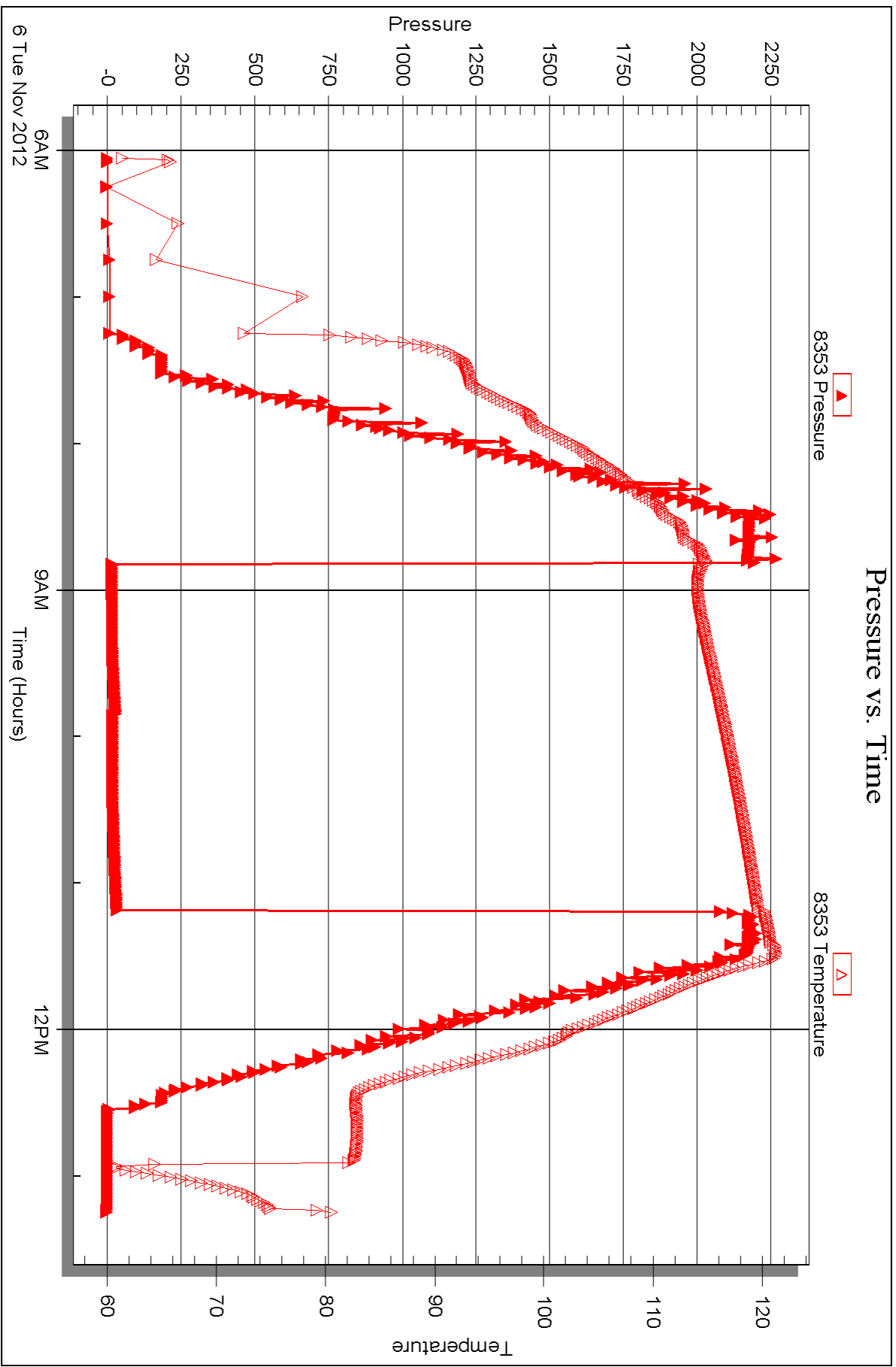
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th St. STE 900
Denver CO. 80202

ATTN: Gary Doke / Jim Musg

Herbel #11B-29-933

24-9s-33w Thomas,KS

Start Date: 2012.11.07 @ 00:35:27

End Date: 2012.11.07 @ 09:33:57

Job Ticket #: 49836 DST #: 7

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

Printed: 2012.11.15 @ 14:06:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49836

DST#: 7

Test Start: 2012.11.07 @ 00:35:27

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:12

Time Test Ended: 09:33:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: 4671.00 ft (KB) To 4694.00 ft (KB) (TVD)

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4694.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 140.13 psig @ 4672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.07

End Date:

2012.11.07

Last Calib.:

2012.11.07

Start Time: 00:35:32

End Time:

09:33:57

Time On Btm:

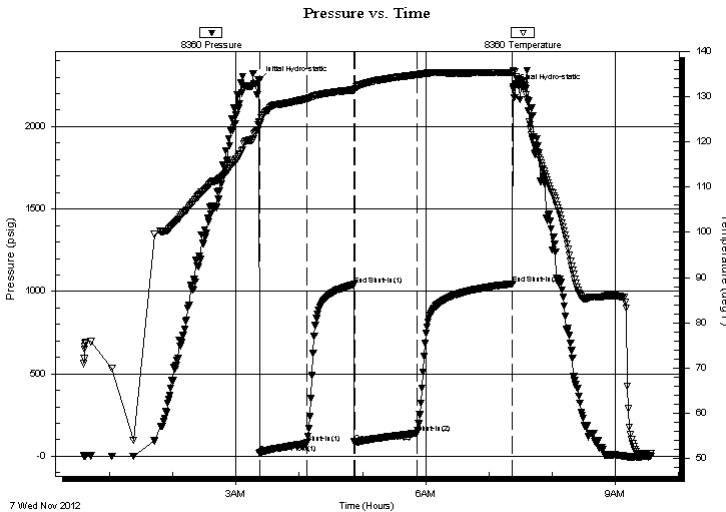
2012.11.07 @ 03:21:57

Time Off Btm:

2012.11.07 @ 07:22:42

TEST COMMENT: IF-B.O.B. In 23 mins.
ISI-Weak return blow built 2" died back to 1/2"
FF-B.O.B. In 30 mins.
FSI-Weak return blow built to 2 1/2" died back to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.13	124.54	Initial Hydro-static
1	19.08	123.74	Open To Flow (1)
45	77.56	129.53	Shut-In(1)
90	1041.61	131.47	End Shut-In(1)
91	84.25	131.58	Open To Flow (2)
150	140.13	134.84	Shut-In(2)
241	1046.46	135.32	End Shut-In(2)
241	2228.67	135.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	10%O 40%M 50%W	0.46
31.00	40%G 40%O 20%M	0.15
93.00	20%G 20%O 60%M	0.46
124.00	10%G 90%O	0.61
0.00	495 G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources LLC

24-9s-33w Thomas, KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

ATTN: Gary Doke / Jim Musg

Job Ticket: 49836 **DST#: 7**

Test Start: 2012.11.07 @ 00:35:27

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:12

Time Test Ended: 09:33:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 40

Interval: **4671.00 ft (KB) To 4694.00 ft (KB) (TVD)**

Reference Elevations: 3106.00 ft (KB)

Total Depth: 4694.00 ft (KB) (TVD)

3096.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8353 **Outside**

Press @ Run Depth: psig @ 4672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.07

End Date:

2012.11.07

Last Calib.: 2012.11.07

Start Time: 00:36:05

End Time:

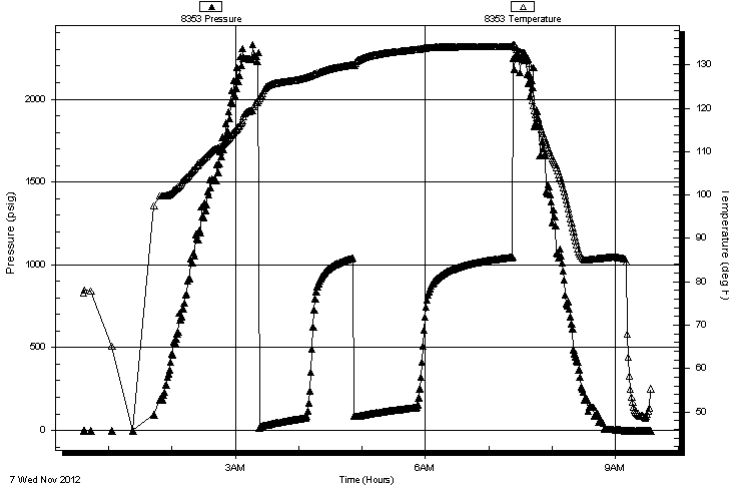
09:34:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-B.O.B. In 23 mins.
ISI-Weak return blow built 2" died back to 1/2"
FF-B.O.B. In 30 mins.
FSI-Weak return blow built to 2 1/2" died back to 1/2"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	10%O 40%M 50%W	0.46
31.00	40%G 40%O 20%M	0.15
93.00	20%G 20%O 60%M	0.46
124.00	10%G 90%O	0.61
0.00	495 G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49836

DST#: 7

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.07 @ 00:35:27

Tool Information

Drill Pipe:	Length: 4301.00 ft	Diameter: 3.80 inches	Volume: 60.33 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: 20000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 62.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4671.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 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			4652.00	
Shut In Tool	5.00			4657.00	
Hydraulic tool	5.00			4662.00	
Packer	5.00			4667.00	20.00 Bottom Of Top Packer
Packer	4.00			4671.00	
Stubb	1.00			4672.00	
Recorder	0.00	8360	Inside	4672.00	
Recorder	0.00	8353	Outside	4672.00	
Perforations	19.00			4691.00	
Bullnose	3.00			4694.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

24-9s-33w Thomas,KS

410 17th St. STE 900
Denver CO. 80202

Herbel #11B-29-933

Job Ticket: 49836

DST#: 7

ATTN: Gary Doke / Jim Musg

Test Start: 2012.11.07 @ 00:35:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
93.00	10%O 40%M 50%W	0.457
31.00	40%G 40%O 20%M	0.152
93.00	20%G 20%O 60%M	0.457
124.00	10%G 90%O	0.610
0.00	495 G.I.P.	0.000

Total Length: 341.00 ft Total Volume: 1.676 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

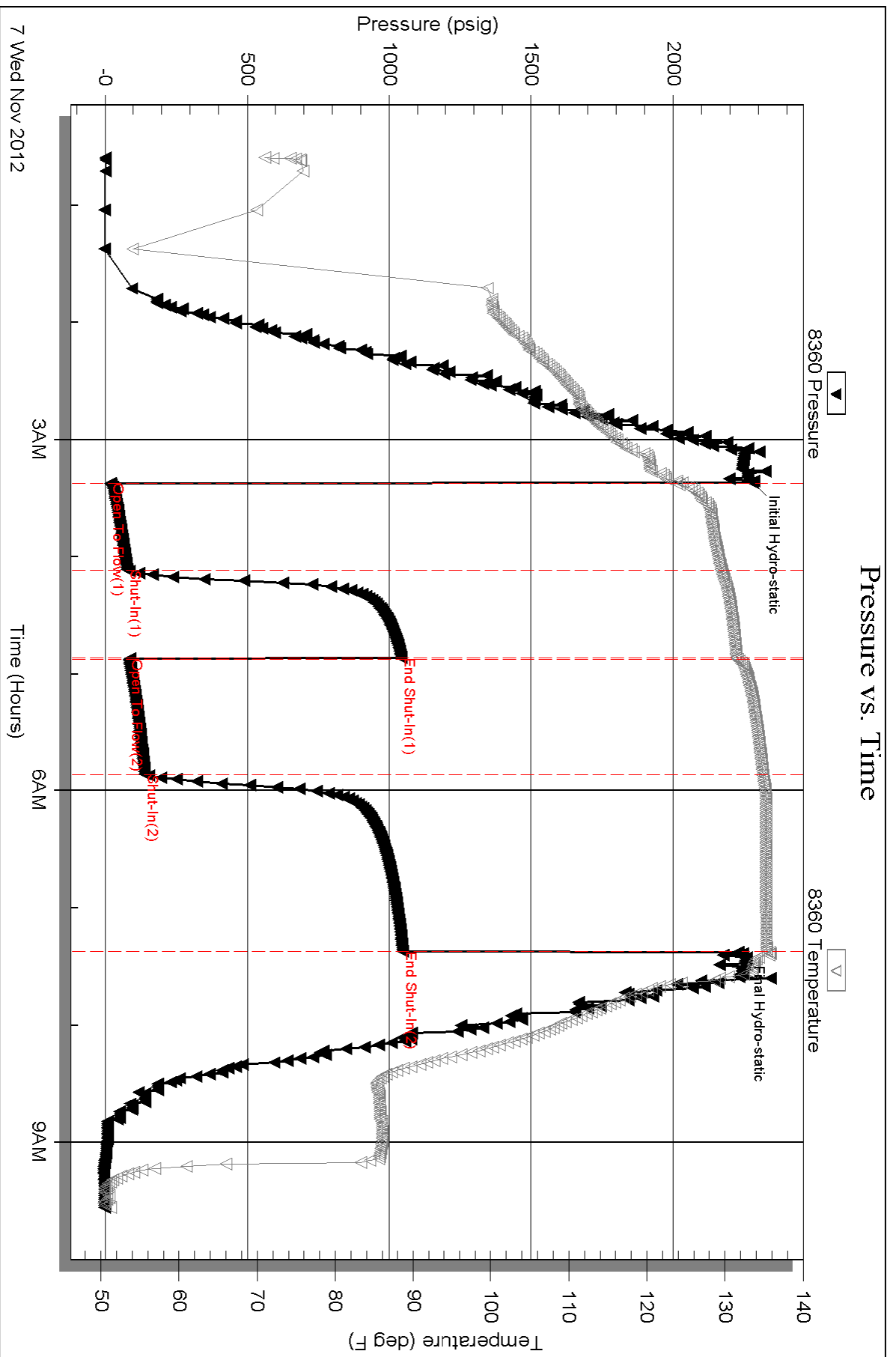
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 39 @ 50F

API RW .302 @ 48F = 32000

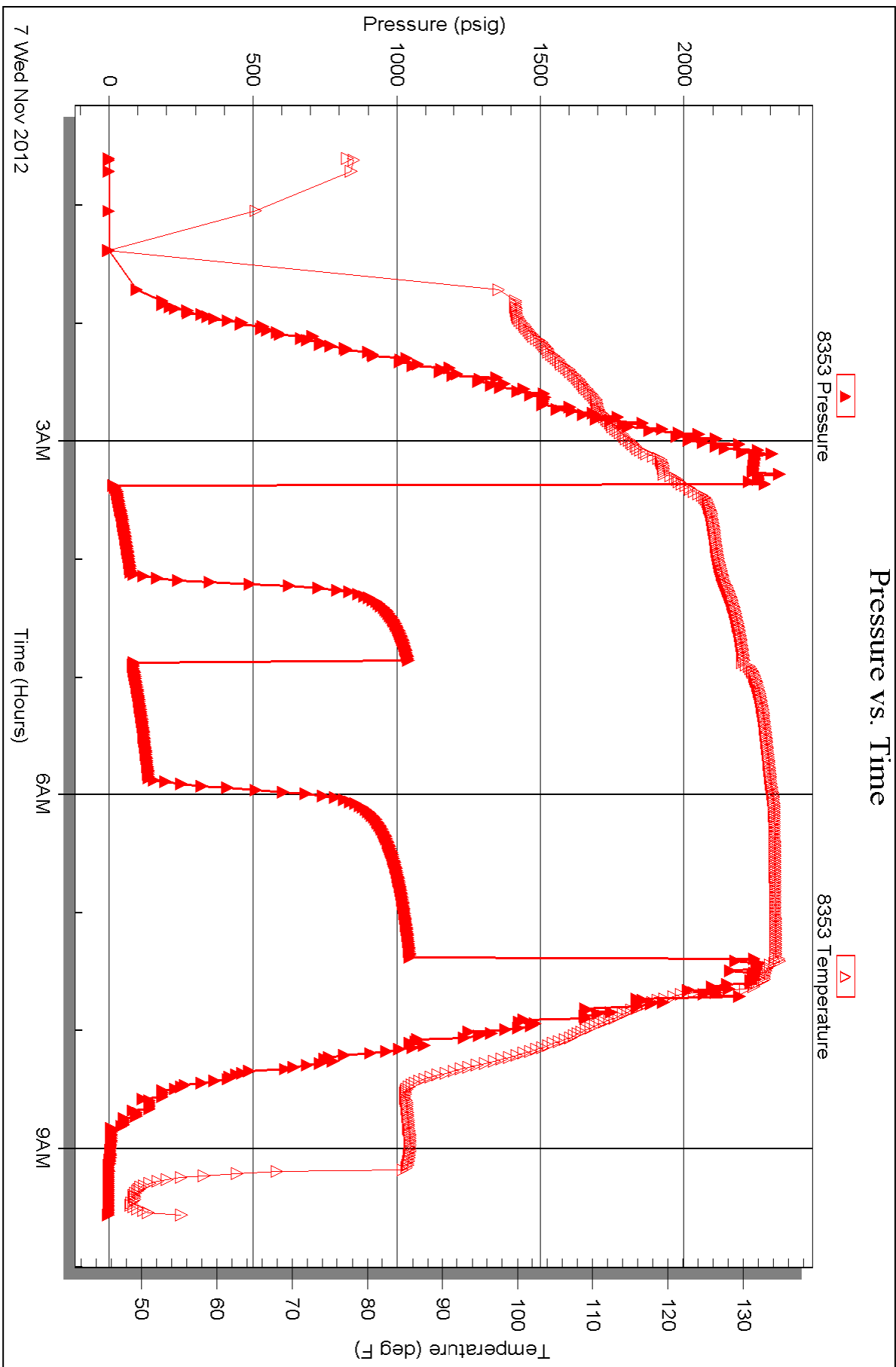


Serial #: 8353

Outside FIML Natural Resources LLC

Herbel #11B-29-933

DST Test Number: 7





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49903

4/10

Well Name & No. Herbel 11B-29-933 Test No. DST #1 Date 11-2-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address 410 17th St. STE 900 Denver CO. 80202
 Co. Rep / Geo. Gary Duke / Kurt Talbott Rig H-2 Rig #1
 Location: Sec. 24 Twp. 9s Rge. 33w Co. Thomas State KS

Interval Tested 4176 - 4250 Zone Tested LKC "H"
 Anchor Length 74 Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4172 Drill Collars Run 306 Vis 51
 Bottom Packer Depth 4176 Wt. Pipe Run 0 WL 8.8
 Total Depth 4250 Chlorides 2000 ppm System LCM 215
 Blow Description - Mis-Run - Bridge around 2652 couldnt get thru it

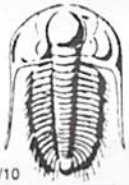
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic Test 1050 T-On Location 6:16
 (B) First Initial Flow Jars _____ T-Started 7:02
 (C) First Final Flow Safety Joint _____ T-Open _____
 (D) Initial Shut-In Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow Hourly Standby _____ T-Out 10:20
 (F) Second Final Flow Mileage 128 R/T 198.40 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320
 Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 320
 Final Flow _____ Day Standby _____ Total 1718.40
 Final Shut-In Accessibility 150 MP/DST Disc't _____
 Sub Total 1398.40

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. **49904**

Well Name & No. Herbel 11B-29-933 Test No. DST #2 Date 11-2-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address 410 17th St. STE 900 Denver CO. 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrove Rig H-2 R-5 #1
 Location: Sec. 24 Twp. 9S Rge. 33W Co. Thomas State KS

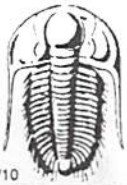
Interval Tested 4176-4250 Zone Tested LRC "H"
 Anchor Length 74 Drill Pipe Run 3800 Mud Wt. 9.1
 Top Packer Depth 4172 Drill Collars Run 366 Vis 51
 Bottom Packer Depth 4176 Wt. Pipe Run 0 WL 8.8
 Total Depth 4250 Chlorides 2000 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Built to 2 3/4"
ISJ - No Blow
FF - Weak Surface Blow 1/2"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>WCM with skin of Oil on Top</u>		<u>37</u>	<u>63</u>	
<u>92</u>	<u>MCW</u>		<u>73</u>	<u>27</u>	
<u>92</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	

Rec Total 194 BHT 120 Gravity ✓ API RW .284 @ 41 °F Chlorides 43000 ppm
 (A) Initial Hydrostatic 2071 Test 1250 T-On Location 15:26
 (B) First Initial Flow 16 Jars _____ T-Started 16:20
 (C) First Final Flow 58 Safety Joint _____ T-Open 18:45
 (D) Initial Shut-In 1249 Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 00 32
 (F) Second Final Flow 121 Mileage 128 R/T 198.40 Comments _____
 (G) Final Shut-In 1255 Sampler _____
 (H) Final Hydrostatic 1971 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150 Sub Total 1598.40
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Sub Total 0
 Initial Shut-In 30 Total 1598.40
 Final Flow 45 MP/DST Disc't _____
 Final Shut-In 60

Approved By [Signature] Our Representative Will Marz

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. 49905

Well Name & No. Herbel #11B-29-933 Test No. DST #3 Date 11-3-12
 Company FTML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address 410 17th St. STE 900 Denver CO. 80202
 Co. Rep / Geo. Gary Duke \ Jim Musgrove Rig H-2 Ris #1
 Location: Sec. 24 Twp. 9S Rge. 33W Co. Thomas State KS

Interval Tested 4244-4292 Zone Tested LRC "T4J"
 Anchor Length 48 Drill Pipe Run 3862 Mud Wt. 9.2
 Top Packer Depth 4240 Drill Collars Run 366 Vis 52
 Bottom Packer Depth 4244 Wt. Pipe Run 0 WL 9.6
 Total Depth 4292 Chlorides 2500 ppm System LCM 216

Blow Description IF- Weak Surface Blow Built to 34"
ISI- No Blow
FF- Weak Surface Blow Dial in 2 1/2 in.
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</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 _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

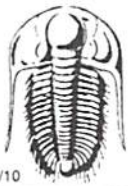
(A) Initial Hydrostatic 2139 Test 1250 T-On Location 9:36
 (B) First Initial Flow 14 Jars _____ T-Started #45 9:50
 (C) First Final Flow 22 Safety Joint _____ T-Open 11:45
 (D) Initial Shut-In 1224 Circ Sub NIC T-Pulled 14:08
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 16:07
 (F) Second Final Flow 27 Mileage 128 R/T 198.40 Comments _____
 (G) Final Shut-In 1257 Sampler _____
 (H) Final Hydrostatic 1894 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150
 Sub Total 1598.40

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1598.40
 MP/DST Disc't _____

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

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. **49833**

4/10

Well Name & No. Herbel 11B-29-933 Test No. ~~A~~ 4 Date 11-04-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address 410 17th St, STE 900 Denver CO. 80202
 Co. Rep / Geo. Jim Musgrave - Gray Doka Rig H2 Rig#1
 Location: Sec. 24 Twp. 9s Rge. 33W Co. Thomas State KS

Interval Tested 4454 - 4500 Zone Tested Myric Station
 Anchor Length 46' Drill Pipe Run 4079 Mud Wt. 9.2
 Top Packer Depth 4450 Drill Collars Run 366 Vis 51
 Bottom Packer Depth 4454 Wt. Pipe Run 0 WL 7.2
 Total Depth 4500 Chlorides 3000 ppm System LCM 1F

Blow Description IF - B.O.B. in 15 mins
ISI Weak surface return blow built to lin
FF - B.O.B. in 20 mins
FSL Fair return blow built to 4in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>279</u>	<u>VSGOCMW</u>	<u>5</u>	<u>5</u>	<u>55</u>	<u>35</u>
<u>166</u>	<u>VSGOCM</u>	<u>2</u>	<u>38</u>		<u>60</u>
<u>51</u>	<u>GO</u>	<u>2</u>	<u>98</u>		
<u>527</u>	<u>Weak GDP</u>	<u>100</u>			

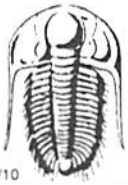
Rec Total 496 BHT 134 Gravity 35 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2172 Test 1250 T-On Location 14:40
 (B) First Initial Flow 44 Jars - T-Started 15:01
 (C) First Final Flow 167 Safety Joint No Charge T-Open 17:40
 (D) Initial Shut-In 946 Circ Sub N/C T-Pulled 21:40
 (E) Second Initial Flow 173 Hourly Standby - T-Out 0:28
 (F) Second Final Flow 218 Mileage 128 R/T 198.40
 (G) Final Shut-In 907 Sampler -
 (H) Final Hydrostatic 215e Straddle -

Initial Open 45 Shale Packer - Ruined Shale Packer -
 Initial Shut-In 45 Extra Packer - Ruined Packer -
 Final Flow 60 Extra Recorder - Sub Total 0
 Final Shut-In 90 Day Standby - Total 1598.40
 Accessibility 150 MP/DST Disc't -
 Sub Total 1598.40

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **49834**

Well Name & No. Herbel 11B-29-933 Test No. 5 Date 11-5-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address _____
 Co. Rep / Geo. Sim Musgrove - Gray Duke Rig H2 Rig #1
 Location: Sec. 24 Twp. 9S Rge. 33W Co. Thomas State KS

Interval Tested 4500 - 4555 Zone Tested Ft Scott
 Anchor Length 55' Drill Pipe Run 4143 Mud Wt. 9.2
 Top Packer Depth 4496 Drill Collars Run 366 Vis 48
 Bottom Packer Depth 4500 Wt. Pipe Run 0 WL 6.4
 Total Depth 4555 Chlorides 2000 ppm System LCM 1

Blow Description IF Surged when tool open the die, Flushed tool / weak surface blow built to 1/4"
ISL - Dead no return (Tool slid 10')
FF - Dead no Blow (Had to make com. to get to bottom)
FSL - Dead no return blow

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>100</u>	Feet of <u>Mud skim of oil on top of tool</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100 BHT 124 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2230</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>10:06</u>
(B) First Initial Flow <u>84</u>	<input type="checkbox"/> Jars	T-Started <u>10:49</u>
(C) First Final Flow <u>88</u>	<input type="checkbox"/> Safety Joint	T-Open <u>13:30</u>
(D) Initial Shut-In <u>526</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>15:30</u>
(E) Second Initial Flow <u>89</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:35</u>
(F) Second Final Flow <u>91</u>	<input checked="" type="checkbox"/> Mileage <u>128 R/T</u> 198.40	Comments _____
(G) Final Shut-In <u>285</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2192</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Sub Total 1598.40

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49835

Well Name & No. Herbel 11B-29-933 Test No. 6 Date 10-6-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address _____
 Co. Rep / Geo. Jim Musgrove - Gray Doherty Rig #2 Rig 1
 Location: Sec. 24 Twp. 9S Rge. 33W Co. Thomas State KS

Interval Tested 4558 - 4615 Zone Tested Johnson
 Anchor Length 57 Drill Pipe Run 4204 Mud Wt. 9.2
 Top Packer Depth 4554 Drill Collars Run 366 Vis 51
 Bottom Packer Depth 4558 Wt. Pipe Run 0 WL 6.4
 Total Depth 4615 Chlorides 3000 ppm System LCM 2#

Blow Description IF - Weak surface blow
ISI - Dead No Return
FF - Dead No Blow
FSTI - Dead No Return

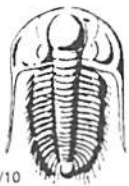
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>Mud</u>	%gas	%oil	%water <u>10</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 # BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2196</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:45</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars _____	T-Started <u>6:02</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>8:50</u>
(D) Initial Shut-In <u>31</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:05</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:15</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>128 R/T</u> 198.40	Comments _____
(G) Final Shut-In <u>32</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2122</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1598.40</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>1598.40</u>	

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49836

Well Name & No. Herbel 11B-29-933 Test No. 7 Date 11-7-12
 Company FIML Natural Resources LLC Elevation 3106 KB 3096 GL
 Address _____
 Co. Rep / Geo. Jim Musgrove - Gary Dolte Rig H2#1
 Location: Sec. 24 Twp. 9S Rge. 33W Co. Thomas State KS

Interval Tested 4671 4694 Zone Tested Spergen
 Anchor Length _____ Drill Pipe Run 4301 Mud Wt. 9.2
 Top Packer Depth _____ Drill Collars Run 366 Vis 51
 Bottom Packer Depth 4671 Wt. Pipe Run 0 WL 6.4
 Total Depth 4694 Chlorides 3000 ppm System LCM 2+

Blow Description IF - B.O.B. In ~~23~~ 23 mins.
ISS - Weath return blow built to 2in, died back to 1/2 in.
FF - B.O.B. In 30 mins.
FSI - Weath return blow built to 2 1/2 in, died back to 1/2 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
<u>93</u>	<u>MCGO</u>	<u>20</u>	<u>20</u>		<u>60</u>
<u>93</u>	<u>DCMW</u>		<u>10</u>	<u>50</u>	<u>40</u>
<u>495</u>	<u>GTP</u>	<u>100</u>			
<u>31</u>	<u>MCGO</u>	<u>40</u>	<u>40</u>		<u>20</u>

Rec Total 341 BHT 136 Gravity 38 API RW 302@ 48 °F Chlorides 32000 ppm

(A) Initial Hydrostatic 2280 Test 1250 T-On Location 0:20
 (B) First Initial Flow 19 Jars _____ T-Started 0:35
 (C) First Final Flow 78 Safety Joint _____ T-Open 3:22
 (D) Initial Shut-In 1042 Circ Sub N/C T-Pulled 7:22
 (E) Second Initial Flow 84 Hourly Standby _____ T-Out 9:33
 (F) Second Final Flow 140 Mileage 198.40 Comments _____
 (G) Final Shut-In 1046 Sampler _____
 (H) Final Hydrostatic 2229 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Packer 320
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 90 Extra Recorder _____ Sub Total 320
 Final Shut-In 90 Day Standby _____ Total 1918.40
 Accessibility 150 MP/DST Disc't _____
 Sub Total 1918.40

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