

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1077309

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

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: _____

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

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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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 (Amount and Kind of Material Used)		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: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	FIML Natural Resources, LLC
Well Name	Dearden 16-8-1931
Doc ID	1077309

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	DV tool @ 3004'	Cmtd w/ 385 sx Lightweight	3004-0'
	Mouse and rat hole	Cmtd w/ 50 sx Lightweight	Mouse and rat hole
		Squeeze w/ 100 sx Common w/ 2%cc & 100 sx common	
4	4225-28'	Acidize w/ 500 gal 15% MCA	4225-28'
	CIBP @ 4345'	1 sx cmt on top	4345'
4	4353-57'	Acidize w/ 500 gal MCA	4353-57'
	CIBP @ 4366'		4366'
4	4375-77'	Acidize w/ 500 gal 15% MCA & 1000 gal 15% N-E	4375-77'
	CIBP @ 4500		
2	4624-27' & 4629-31'		4624-31'

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 26, 2012

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

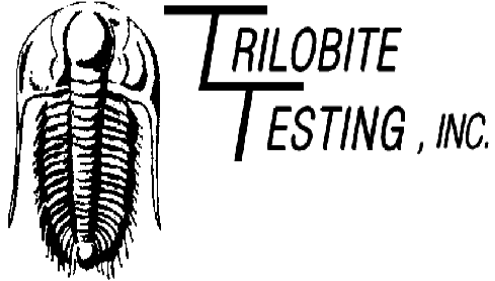
Re: ACO1
API 15-171-20855-00-00
Dearden 16-8-1931
SE/4 Sec.08-19S-31W
Scott County, Kansas

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,
Cassie Parks



DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th. ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.28 @ 23:54:15

End Date: 2012.01.29 @ 08:21:15

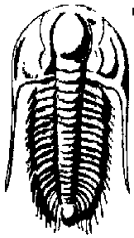
Job Ticket #: 44922 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:22:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

ATTN: Kurt Tallbort

Job Ticket: 44922

DST#: 1

Test Start: 2012.01.28 @ 23:54:15

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:45

Time Test Ended: 08:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4220.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 2977.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: 640.16 psig @ 4222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.28

End Date:

2012.01.29

Last Calib.:

2012.01.29

Start Time: 23:54:15

End Time:

08:21:15

Time On Btm:

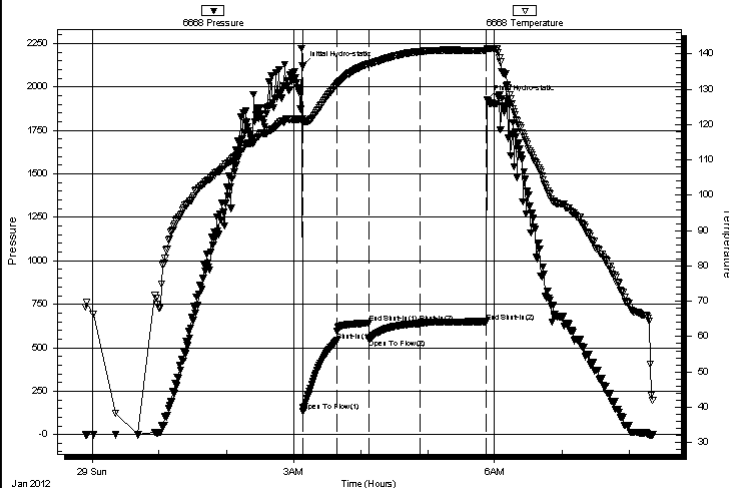
2012.01.29 @ 03:08:00

Time Off Btm:

2012.01.29 @ 05:53:15

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 5 min
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

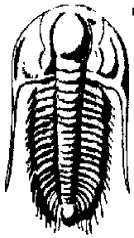
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.06	121.71	Initial Hydro-static
1	133.23	121.04	Open To Flow (1)
31	540.46	131.30	Shut-In(1)
60	641.49	137.17	End Shut-In(1)
60	550.56	137.20	Open To Flow (2)
106	640.16	140.68	Shut-In(2)
165	649.41	140.84	End Shut-In(2)
166	1925.84	141.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Free oil 100% o	0.63
372.00	gcmw o 10%g 30%m 10%w 60%o	5.22
372.00	gomcw 5%g 20%m 25%o 50%w	5.22
93.00	gcow 20%g 30%o 50%w	1.30
186.00	gcomw 5%g 10%o 10%m 75%w	2.61
372.00	ocgmw 2%o 5%g 10%m 83% w	5.22

Gas Rates

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

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

410 17th.ST STE 900
Denver CO 80202

ATTN: Kurt Tallbort

8-19s-31w Scott,KS

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

Test Start: 2012.01.28 @ 23:54:15

GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:45

Time Test Ended: 08:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4220.00 ft (KB) To 4260.00 ft (KB) (TVD)

Total Depth: 4260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: psig @ 4222.00 ft (KB)

Start Date: 2012.01.28

End Date:

2012.01.29

Start Time: 23:54:15

End Time:

08:21:30

Capacity: 8000.00 psig

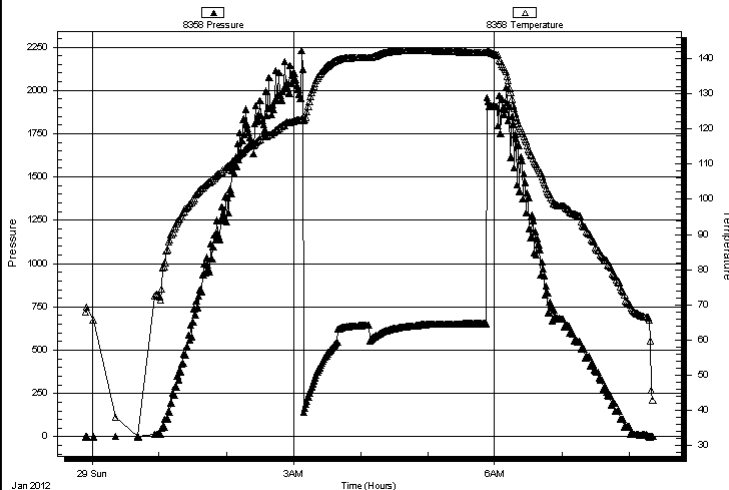
Last Calib.: 2012.01.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 5 min
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

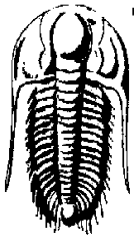
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
45.00	Free oil 100% o	0.63
372.00	gcmw o 10%g 30%m 10%w 60%o	5.22
372.00	gomcw 5%g 20%m 25%o 50%w	5.22
93.00	gcow 20%g 30%o 50%w	1.30
186.00	gcomw 5%g 10%o 10%m 75%w	2.61
372.00	ocgmw 2%o 5%g 10%m 83% w	5.22

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

ATTN: Kurt Tallbort

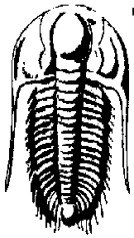
Test Start: 2012.01.28 @ 23:54:15

Tool Information

Drill Pipe:	Length:	4217.00 ft	Diameter:	3.80 inches	Volume:	59.15 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.15 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	55000.00 lb
Depth to Top Packer:		4220.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		40.00 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			4193.00	
Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	5.00			4216.00	28.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Perforations	1.00			4222.00	
Recorder	0.00	8358	Inside	4222.00	
Recorder	0.00	6668	Outside	4222.00	
Change Over Sub	1.00			4223.00	
Drill Pipe	31.00			4254.00	
Change Over Sub	1.00			4255.00	
Perforations	0.00			4255.00	
Bullnose	5.00			4260.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44922

DST#: 1

ATTN: Kurt Tallbort

Test Start: 2012.01.28 @ 23:54:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Free oil 100% o	0.631
372.00	gcmw o 10%g 30%m 10%w 60%o	5.218
372.00	gomcw 5%g 20%m 25%o 50%w	5.218
93.00	gcow 20%g 30%o 50%w	1.305
186.00	gcomw 5%g 10%o 10%m 75%w	2.609
372.00	ocgmw 2%o 5%g 10%m 83% w	5.218

Total Length: 1440.00 ft

Total Volume: 20.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .225@ 58.58=30,000ppm
API=22@60

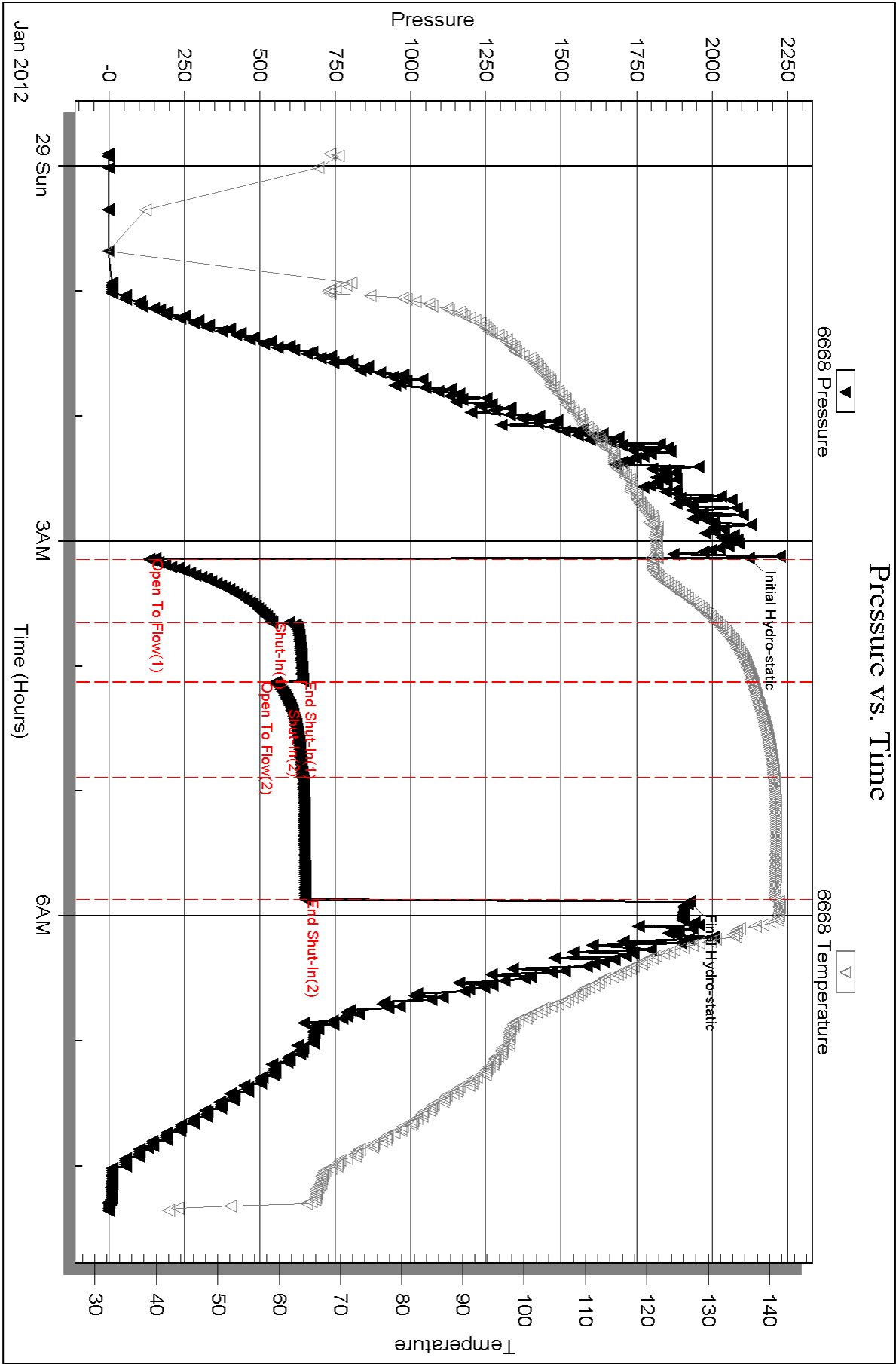
Serial #: 6668

Outside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 1



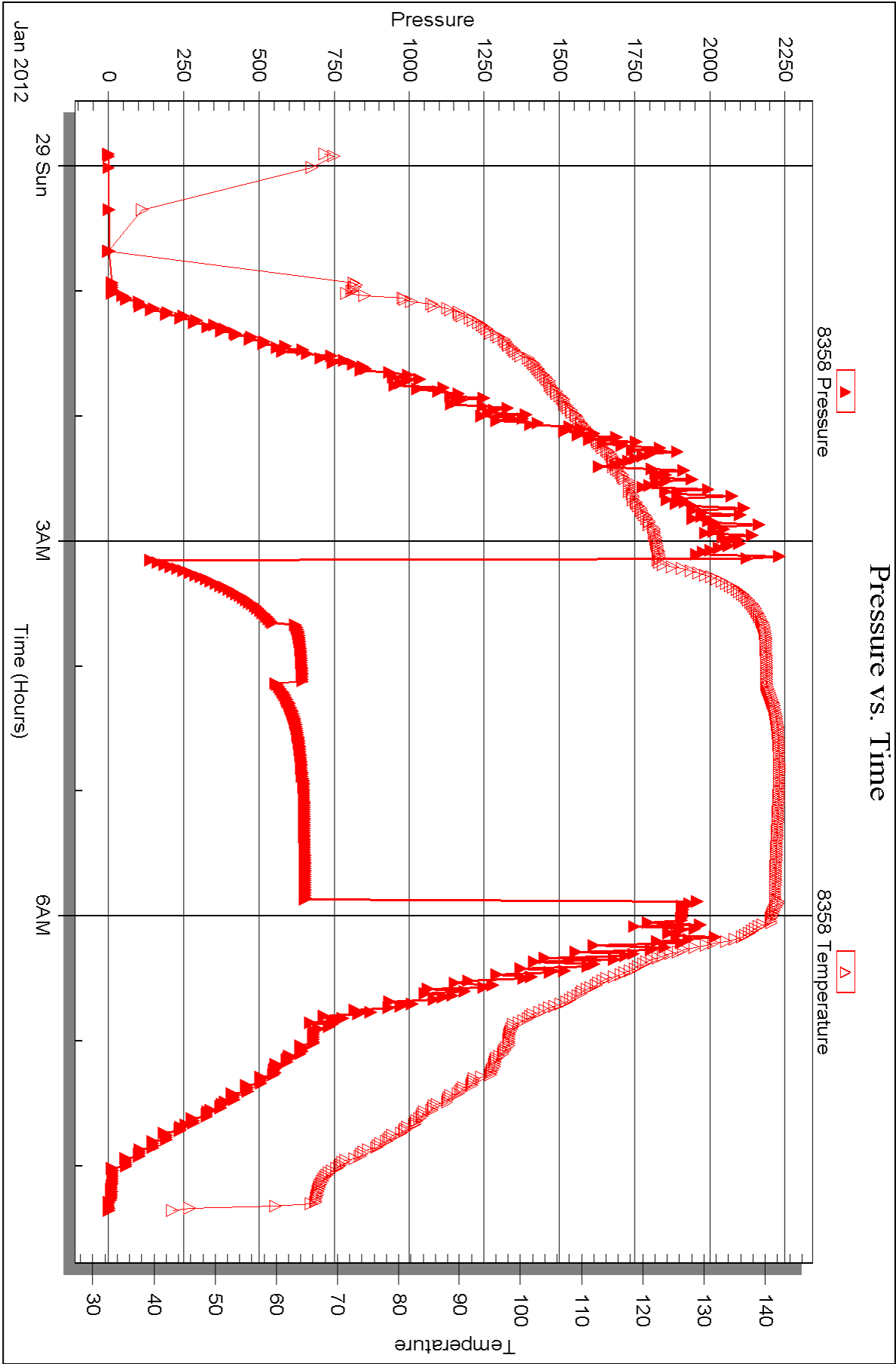
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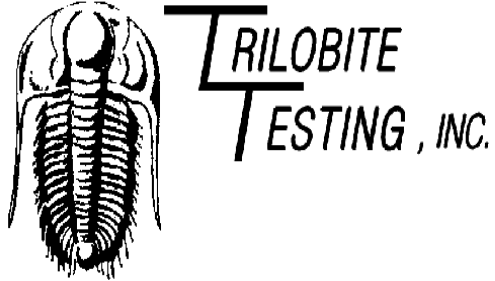
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th.ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.30 @ 01:32:15

End Date: 2012.01.30 @ 08:26:30

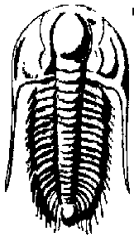
Job Ticket #: 44923 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:21:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

Test Start: 2012.01.30 @ 01:32:15

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:30

Time Test Ended: 08:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4320.00 ft (KB) To 4395.00 ft (KB) (TVD)

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: 28.75 psig @ 4322.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 01:32:15

End Time:

08:26:30

Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm: 2012.01.30 @ 03:52:15

Time Off Btm: 2012.01.30 @ 06:39:00

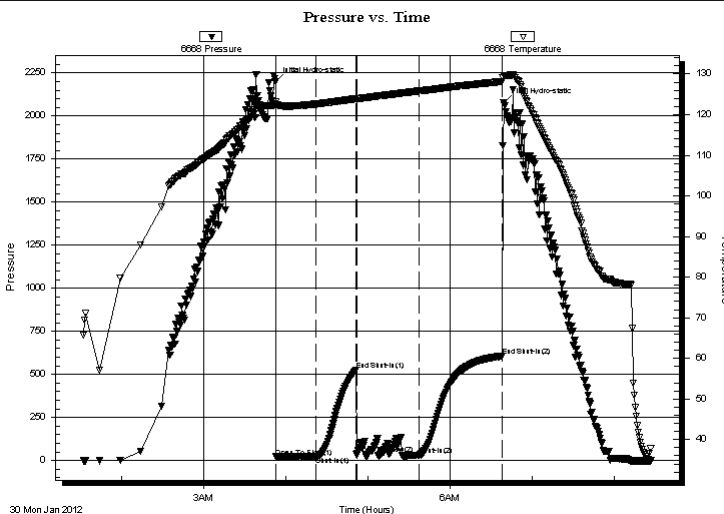
TEST COMMENT: IF: Built to 1/2" blow

IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.55	123.07	Initial Hydro-static
1	20.71	122.29	Open To Flow (1)
30	24.32	122.61	Shut-In(1)
59	526.77	123.94	End Shut-In(1)
60	33.97	123.87	Open To Flow (2)
105	28.75	125.83	Shut-In(2)
166	606.61	128.15	End Shut-In(2)
167	2079.67	129.58	Final Hydro-static

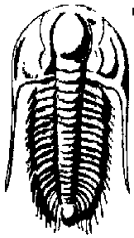
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w/ oil spots	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

ATTN: Kurt Tallbort

Job Ticket: 44923

DST#: 2

Test Start: 2012.01.30 @ 01:32:15

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:30

Time Test Ended: 08:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4320.00 ft (KB) To 4395.00 ft (KB) (TVD)

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2977.00 ft (KB)

2965.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: psig @ 4322.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 01:32:15

End Time:

08:26:15

Capacity: 8000.00 psig

Last Calib.: 2012.01.30

Time On Btm:

Time Off Btm:

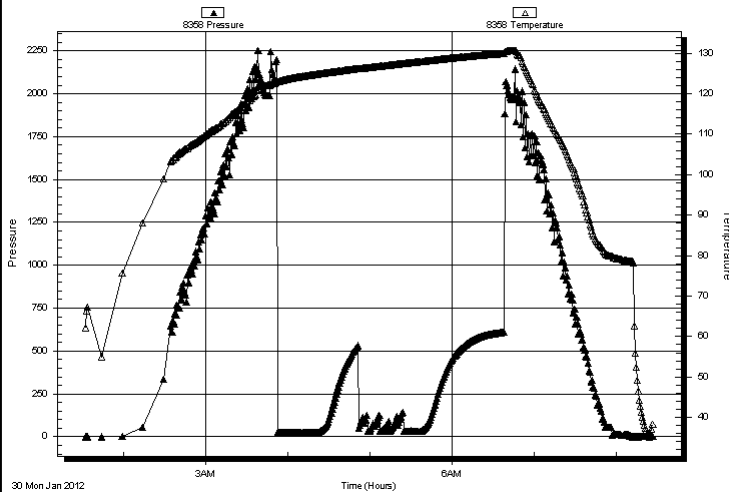
TEST COMMENT: IF: Built to 1/2" blow

IS: No return blow

FF: No blow

FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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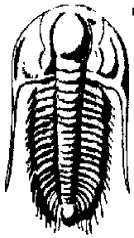
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w with oil spots	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

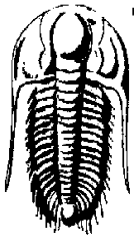
Test Start: 2012.01.30 @ 01:32:15

Tool Information

Drill Pipe:	Length:	4220.00 ft	Diameter:	3.80 inches	Volume:	59.20 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	92.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	59.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4320.00 ft					Final	51000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		75.00 ft						
Tool Length:		103.00 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			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	3.00			4311.00	
Packer	5.00			4316.00	28.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Perforations	1.00			4322.00	
Recorder	0.00	8358	Inside	4322.00	
Recorder	0.00	6668	Outside	4322.00	
Change Over Sub	1.00			4323.00	
Drill Pipe	64.00			4387.00	
Change Over Sub	1.00			4388.00	
Perforations	2.00			4390.00	
Perforations	0.00			4390.00	
Bullnose	5.00			4395.00	75.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44923

DST#: 2

ATTN: Kurt Tallbort

Test Start: 2012.01.30 @ 01:32:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 4.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud with oil spots	0.000

Total Length: 10.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

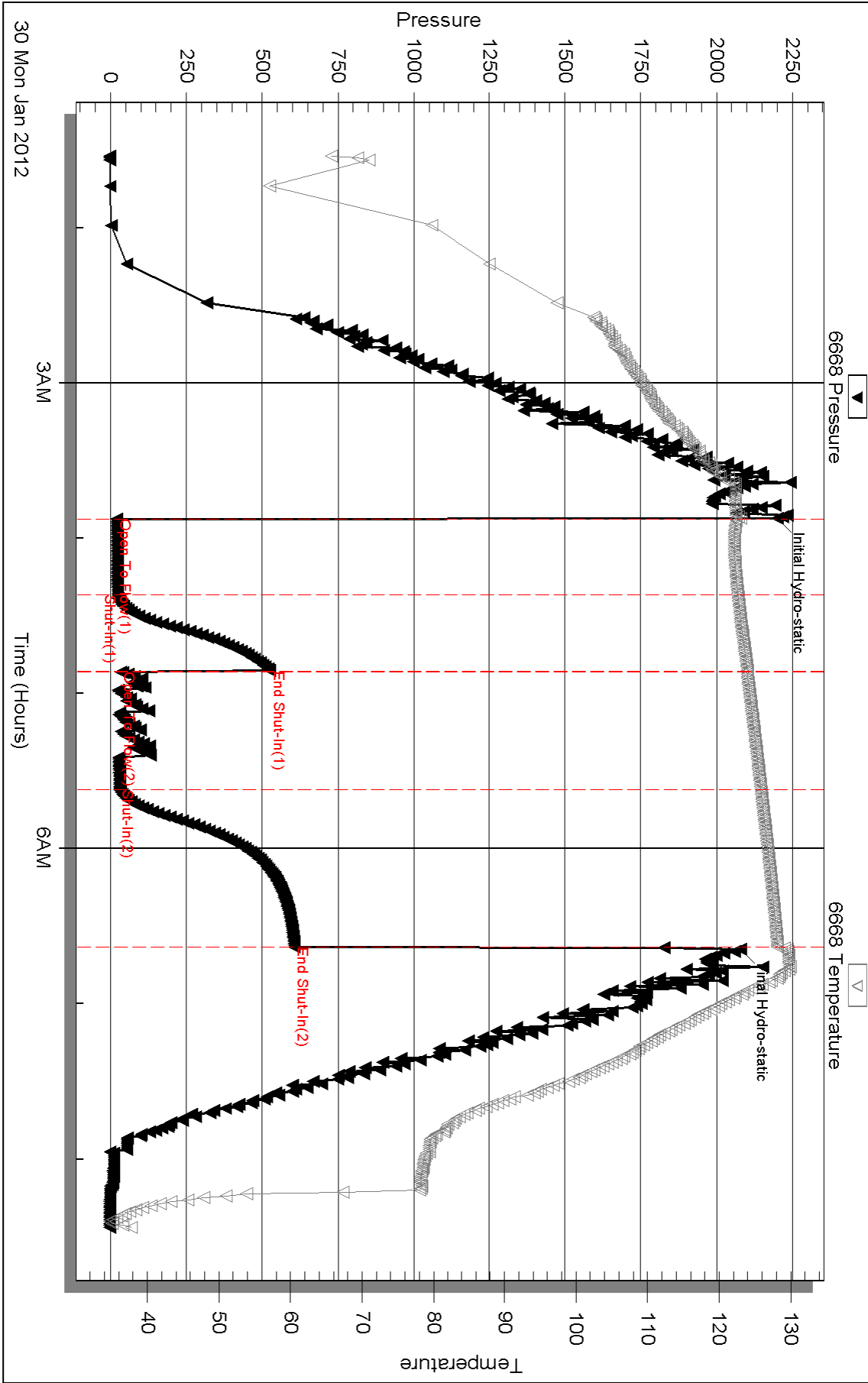
Outside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 2

Pressure vs. Time



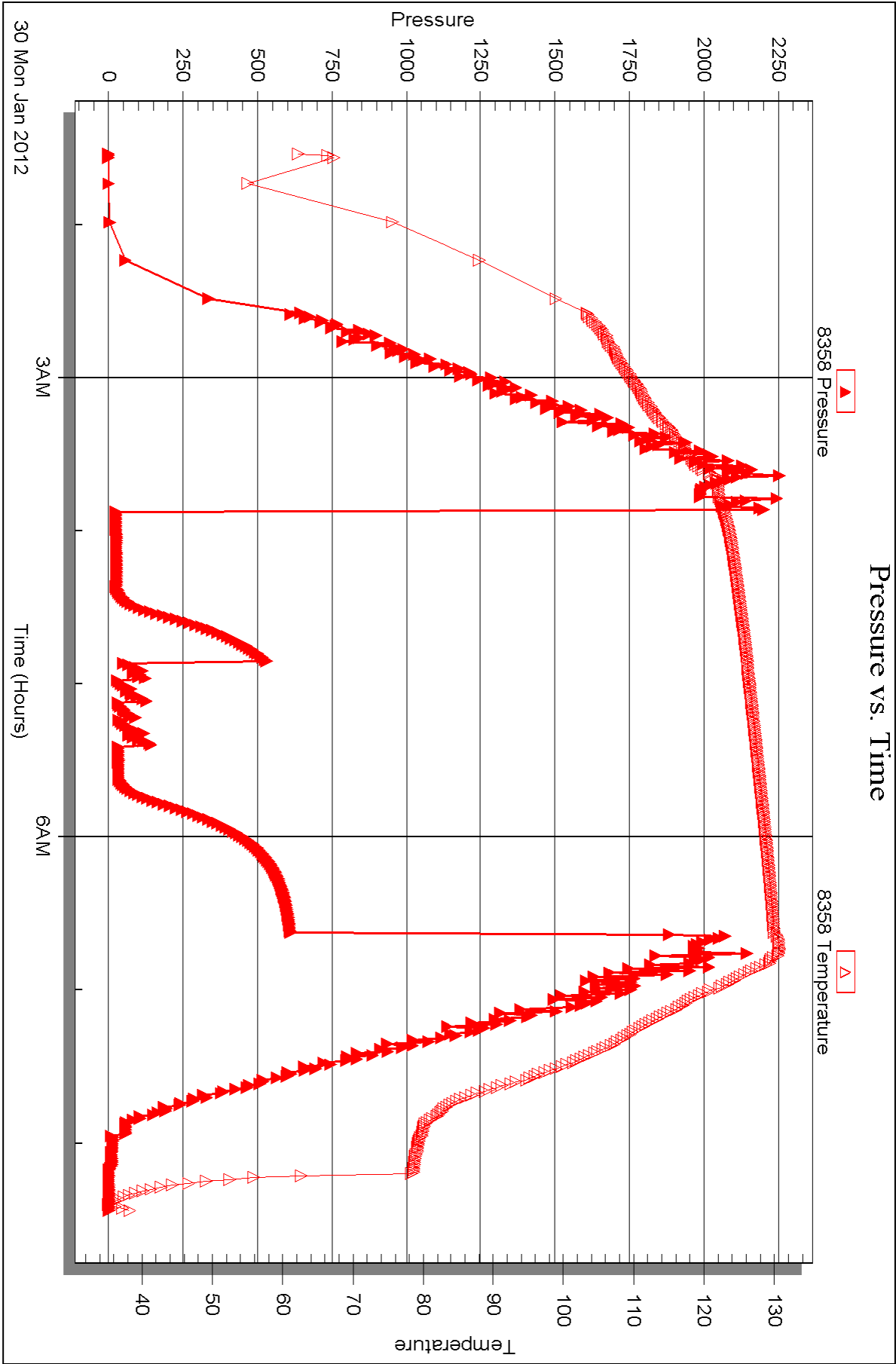
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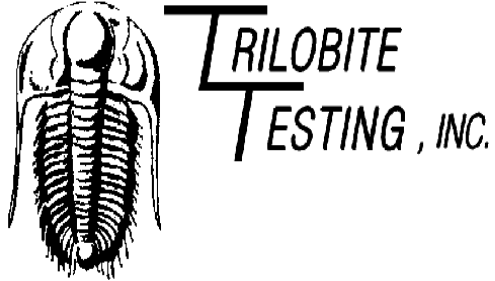
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources, LLC**

410 17th. ST STE 900
Denver CO 80202

ATTN: Kurt Talbort

Dearden #16-8-1931

8-19s-31w Scott,KS

Start Date: 2012.01.31 @ 05:50:15

End Date: 2012.01.31 @ 12:04:30

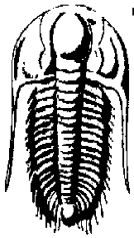
Job Ticket #: 44925 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.02 @ 10:20:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:59:00

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4580.00 ft (KB) To 4627.00 ft (KB) (TVD)

Reference Elevations: 2977.00 ft (KB)

Total Depth: 4627.00 ft (KB) (TVD)

2965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8358 Inside

Press@RunDepth: 22.14 psig @ 4584.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.: 2012.01.31

Start Time: 05:50:15

End Time:

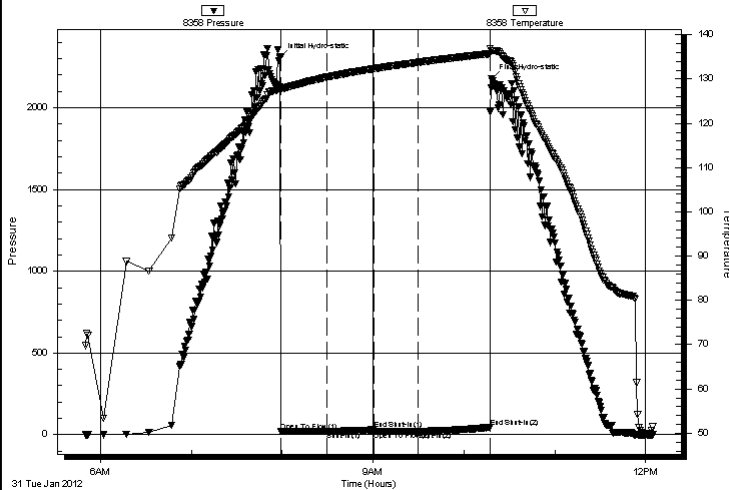
12:04:30

Time On Btm: 2012.01.31 @ 07:58:45

Time Off Btm: 2012.01.31 @ 10:18:15

TEST COMMENT: IF: Built to 1/4' blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.06	128.32	Initial Hydro-static
1	21.08	127.56	Open To Flow (1)
31	22.02	130.44	Shut-In(1)
62	30.39	132.33	End Shut-In(1)
62	20.67	132.34	Open To Flow (2)
91	22.14	133.79	Shut-In(2)
139	45.81	135.74	End Shut-In(2)
140	2176.52	136.36	Final Hydro-static

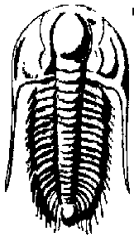
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:59:00

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4580.00 ft (KB) To 4627.00 ft (KB) (TVD)

Reference Elevations: 2977.00 ft (KB)

Total Depth: 4627.00 ft (KB) (TVD)

2965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6668 Outside

Press@RunDepth: psig @ 4584.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.:

2012.01.31

Start Time: 05:50:15

End Time:

12:04:45

Time On Btm:

Time Off Btm:

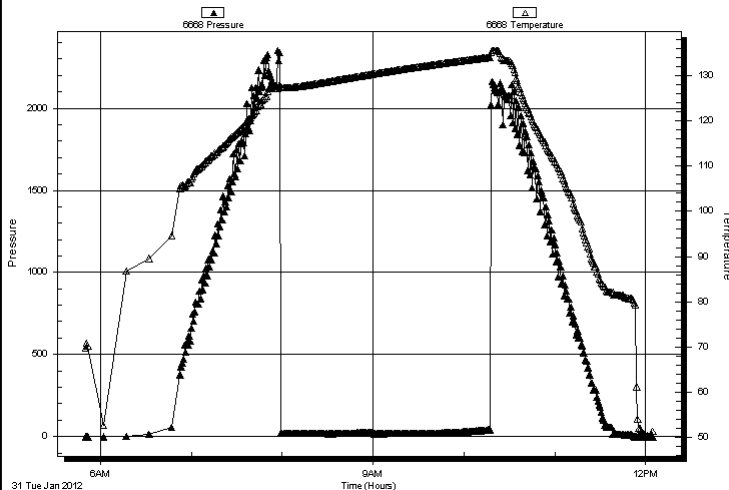
TEST COMMENT: IF: Built to 1/4' blow

IS: No return blow

FF: No blow

FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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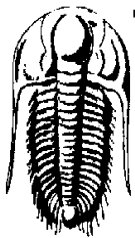
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

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

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

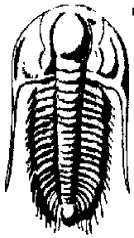
Tool Information

Drill Pipe:	Length:	4478.00 ft	Diameter:	3.80 inches	Volume:	62.81 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:	92.00 ft	Diameter:	2.25 inches	Volume:	0.45 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	63.26 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		4580.00 ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.00 ft						
Tool Length:		67.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4561.00	
Shut In Tool	5.00			4566.00	
Hydraulic tool	5.00			4571.00	
Packer	5.00			4576.00	20.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Perforations	3.00			4584.00	
Recorder	0.00	8358	Inside	4584.00	
Recorder	0.00	6668	Outside	4584.00	
Change Over Sub	1.00			4585.00	
Drill Pipe	31.00			4616.00	
Change Over Sub	1.00			4617.00	
Perforations	5.00			4622.00	
Bullnose	5.00			4627.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

8-19s-31w Scott,KS

410 17th.ST STE 900
Denver CO 80202

Dearden #16-8-1931

Job Ticket: 44925

DST#: 3

ATTN: Kurt Tallbort

Test Start: 2012.01.31 @ 05:50:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 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:

Serial #: 8358

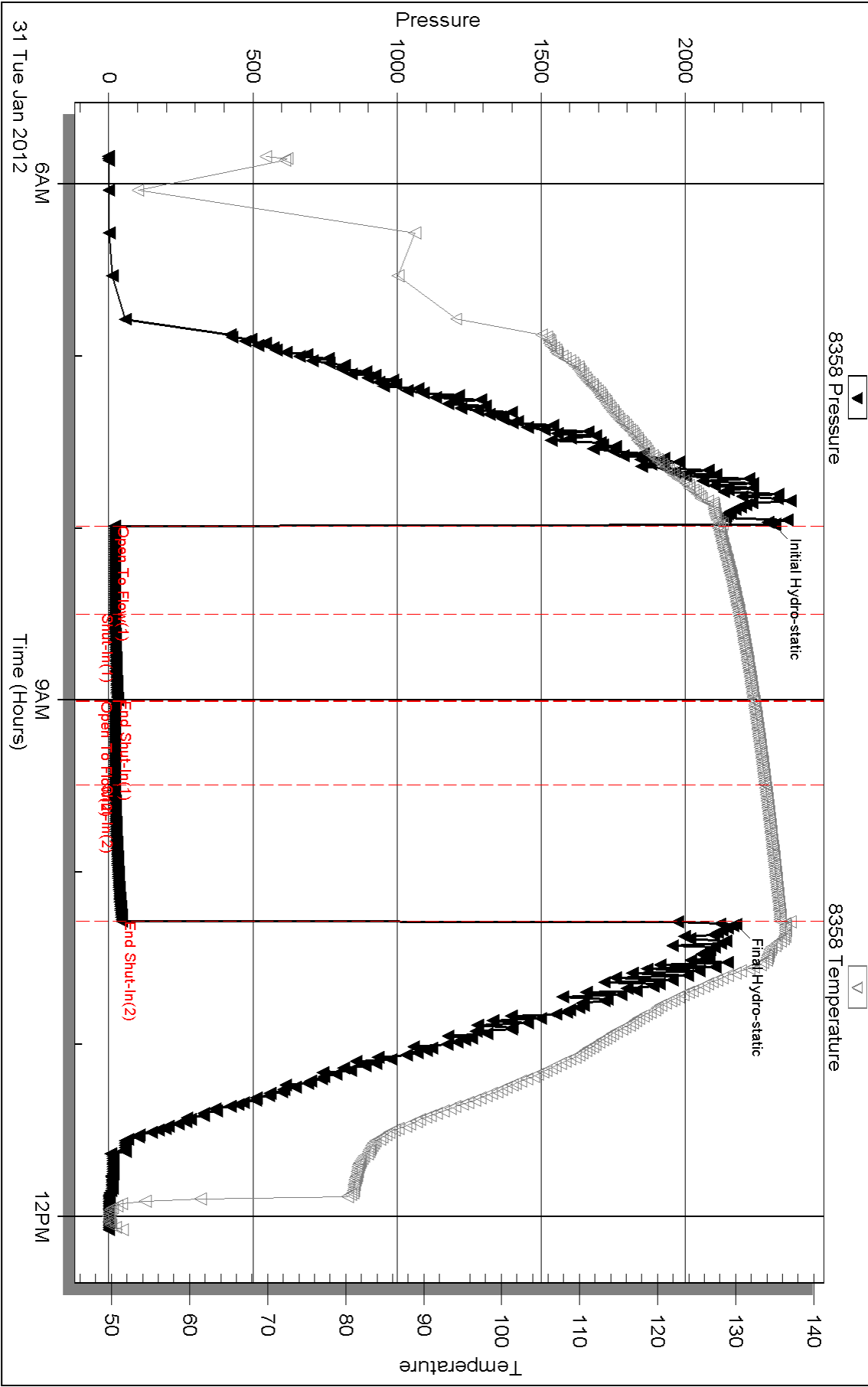
Inside

FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 3

Pressure vs. Time

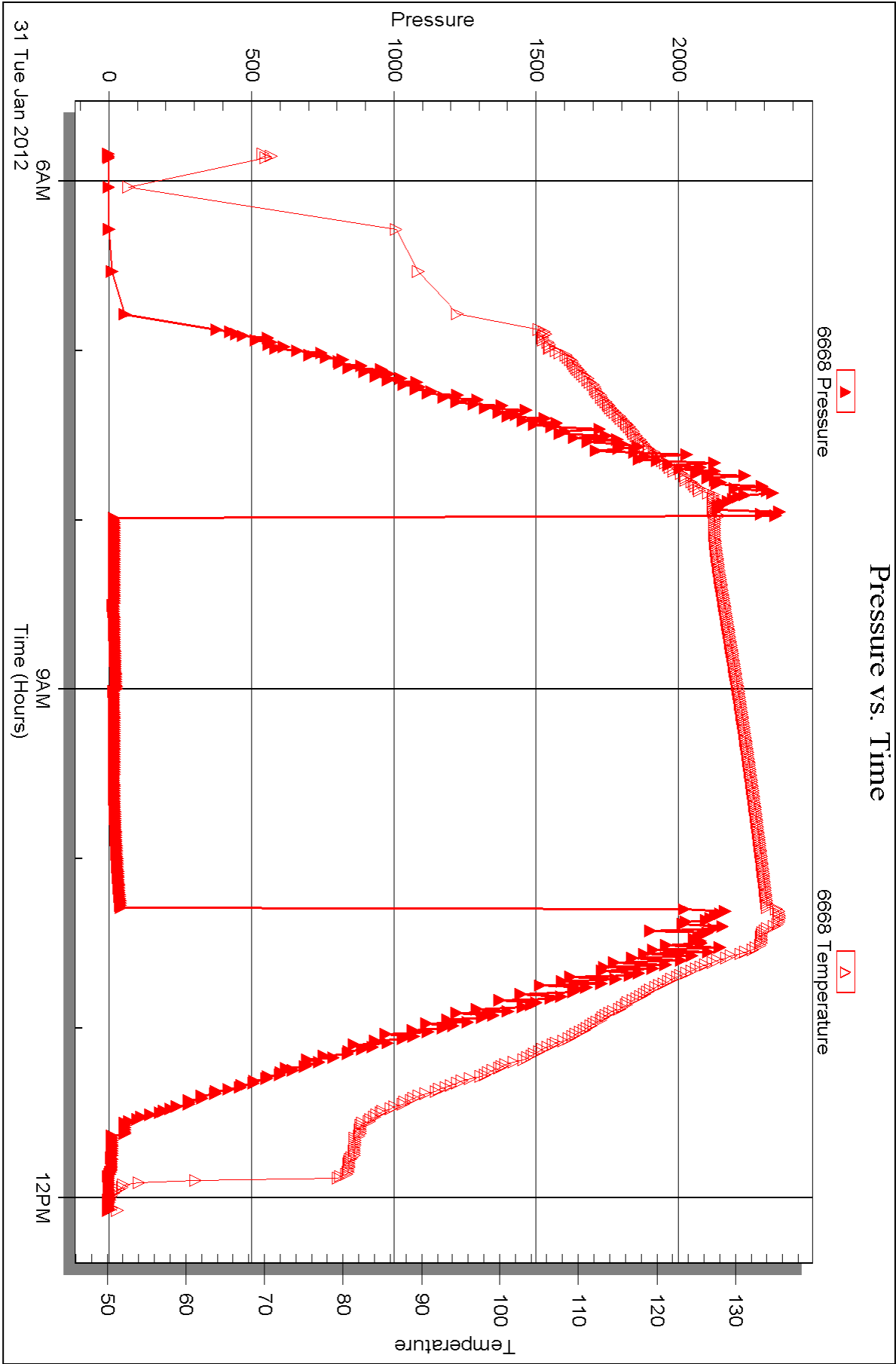


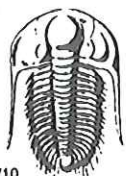
Serial #: 6668

Outside FIML Natural Resources, LLC

Dearden #16-8-1931

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket
FEB 01 2012 NO. 44922

4/10

BY: _____

Well Name & No. Dearden #16-8-1931 Test No. 1 Date 1-28-12
Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
Address 410 17th ST STE 900 Denver CO 80202
Co. Rep / Geo. Kurt Talbort Rig H2 Rig 1
Location: Sec. 8 Twp. 19S Rge. 31W Co. Scott State KS

Interval Tested 4220 - 4260 Zone Tested Lansing "J"
Anchor Length 40' Drill Pipe Run 4220 Mud Wt. 9.1
Top Packer Depth 4216 Drill Collars Run 0 Vis 50
Bottom Packer Depth 4220 Wt. Pipe Run 0 WL 516
Total Depth 4260 Chlorides 2400 ppm System LCM 4
Blow Description IF: BOB in 2 Min.
IS: No Return Blow
FF: BOB in 5 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45'</u>	<u>Free oil</u>	<u>100</u>			
<u>372'</u>	<u>gc mo</u>	<u>10</u>	<u>60</u>	<u>10</u>	<u>30</u>
<u>372'</u>	<u>gc mcw</u>	<u>5</u>	<u>25</u>	<u>50</u>	<u>20</u>
<u>93'</u>	<u>gc ow</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>186'</u>	<u>gc omw</u>	<u>5</u>	<u>10</u>	<u>75</u>	<u>10</u>
<u>372'</u>	<u>oc gwm</u>	<u>5</u>	<u>2</u>	<u>83</u>	<u>10</u>

Rec Total 1440 BHT 141 Gravity 22 API RW 225 @ 58.5 ° F Chlorides 3900 ppm

(A) Initial Hydrostatic 2122
(B) First Initial Flow 133
(C) First Final Flow 540
(D) Initial Shut-In 641
(E) Second Initial Flow 550
(F) Second Final Flow 640
(G) Final Shut-In 649
(H) Final Hydrostatic 1925

☒ Test 1225.00
☒ Jars 250.00
☒ Safety Joint 75.00
☒ Circ Sub NC

T-On Location 12:30
T-Started 23:54
T-Open 04:08
T-Pulled 06:53
T-Out 08:21

☐ Hourly Standby
☒ Mileage 28 RT = 39.20

Comments _____

☐ Sampler

☐ Ruined Shale Packer

☐ Straddle

☐ Ruined Packer

☐ Shale Packer

☐ Extra Copies

☐ Extra Packer

Sub Total 0

☐ Extra Recorder

Total 1739.20

☐ Day Standby

MP/DST Disc't _____

☒ Accessibility 150.00

Sub Total \$1739.20

Our Representative

Approved By _____

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.

P.O. Box 1733 • Hays, Kansas 67601 BY: _____

RECEIVED
FEB 01 2012

Test Ticket

NO. 44923

Well Name & No. Dearden #16.8-1931 Test No. 2 Date 1-30-12
Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
Address 410 17th ST STE 900 Denver CO 80202
Co. Rep / Geo. Kurt Talbort Rig H2 Rig #1
Location: Sec. 8 Twp. 19S Rge. 31W Co. SCOTT State KS

Interval Tested 4320-4395 Zone Tested Marmaton A-B
Anchor Length 75' Drill Pipe Run 4220 Mud Wt. 9.1
Top Packer Depth 4316 Drill Collars Run 92 Vis 62
Bottom Packer Depth 4320 Wt. Pipe Run 0 WL 4.8
Total Depth 4395 Chlorides 3400 ppm System LCM 9
Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 130 Gravity 1 API RW 1 @ 1 ° F Chlorides 1 ppm
(A) Initial Hydrostatic 2199 ☒ Test 1225.00 T-On Location 01:00
(B) First Initial Flow 20 ☒ Jars 250.00 T-Started 01:32
(C) First Final Flow 24 ☒ Safety Joint 75.00 T-Open 03:52
(D) Initial Shut-In 526 ☒ Circ Sub NC T-Pulled 06:37
(E) Second Initial Flow 33 ☐ Hourly Standby _____ T-Out 08:26
(F) Second Final Flow 28 ☒ Mileage 28RT = 39.20 Comments _____
(G) Final Shut-In 606 ☐ Sampler _____
(H) Final Hydrostatic 2079 ☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☒ Accessibility 150.00
Sub Total 1739.20 1589.20

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

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total _____
Total 1739.20
MP/DST Disc't _____

Approved By [Signature]

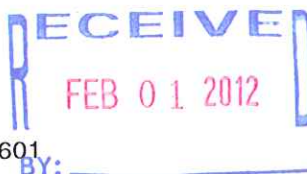
Our Representative Mike Relata

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.**

P.O. Box 1733 • Hays, Kansas 67601



Test Ticket

NO. 44925

4/10

Well Name & No. Dearden #16-8-1931 Test No. 3 Date 1-31-12
 Company FIML Natural Resources LLC Elevation 2977 KB 2965 GL
 Address 410 17th ST STE 900 Denver CO 80202
 Co. Rep / Geo. Kurt Talbort Rig H2 Rig #1
 Location: Sec. 8 Twp. 19S Rge. 31W Co. SCOTT State KS

Interval Tested 4580-4627 Zone Tested Spergen
 Anchor Length 47' Drill Pipe Run 4478 Mud Wt. 9.2
 Top Packer Depth 4576 Drill Collars Run 92 Vis 56
 Bottom Packer Depth 4580 Wt. Pipe Run 0 WL 5.2
 Total Depth 4627 Chlorides 3900 ppm System LCM 10
 Blow Description IF: Built to 1/4" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MVD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 137 Gravity ✓ API RW ✓ @ ✓ °F Chlorides ✓ ppm
 (A) Initial Hydrostatic 2308 ☒ Test 1225.00 T-On Location 04:45
 (B) First Initial Flow 21 ☐ Jars T-Started 05:50
 (C) First Final Flow 22 ☐ Safety Joint T-Open 08:00
 (D) Initial Shut-In 30 ☒ Circ Sub N/C T-Pulled 10:15
 (E) Second Initial Flow 20 ☐ Hourly Standby T-Out 12:04
 (F) Second Final Flow 22 ☒ Mileage 28. RT 39.20 Comments
 (G) Final Shut-In 45 ☐ Sampler
 (H) Final Hydrostatic 2176 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45
☐ Day Standby
☐ Accessibility 150.00
 Sub Total 1414.20
 Sub Total 1414.20
 Total 1414.20
 MP/DST Disc't

Approved By [Signature]

Jur Representative Mike Roberts

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.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 129992
Invoice Date: Jan 24, 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	Deardon #16-8-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 24, 2012	2/23/12

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	16.25	3,900.00
5.00	MAT	Gel	21.25	106.25
9.00	MAT	Chloride	58.20	523.80
60.00	MAT	Flo Seal	2.70	162.00
256.00	SER	Handling	2.25	576.00
55.00	SER	Mileage 256 sx @.11	28.16	1,548.80
1.00	SER	Surface	1,125.00	1,125.00
84.00	SER	Extra Footage	0.95	79.80
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	SER	Manifold Head Rental	200.00	200.00
55.00	SER	Light Vehicle Mileage	4.00	220.00
1.00	EQP	8.5/8 Fiber Baffle Plate	175.00	175.00
3.00	EQP	8.5/8 Centralizer	64.00	192.00
1.00	EQP	8.5/8 Surface Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	CEMENTER	Steve Heikkila		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Dane Retzloff		

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
Feb 18, 2012

Subtotal	9,285.65
Sales Tax	376.03
Total Invoice Amount	9,661.68
Payment/Credit Applied	9,661.68
TOTAL	0.00

Federal Tax I.D.# 20-5975804

SERVICE POINT:
OAKLEY

OWNER SAME

CEMENT			
AMOUNT ORDERED	240 SKS	Com.	3% CC
2% GEL, 1/4 lb FLO-SEAL.			
COMMON	240	@	16.25 = 3900.00
POZMIX		@	
GEL	85	@	21.25 = 1806.25
CHLORIDE	9	@	58.20 = 523.80
ASC		@	
FLO-SEAL	2 60 lb	@	2.70 = 162.00
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	256	@	2.25 = 576.00
MILEAGE	119 SK	/MILE	1548.80
		TOTAL	6816.85

REMARKS:

Cement did circulate

THANK YOU!

CHARGE TO: FIML NATURAL RESOURCES

STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	384.83		
PUMP TRUCK CHARGE	1125.00		
EXTRA FOOTAGE	84	@ .95	79.80
MILEAGE	55	@ 7.00	385.00
MANIFOLD HEAD		@	200.00
LIGHT VEHICLE	55	@ 4.00	220.00
		@	

TOTAL 2394.63

to 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

IGNATURE

PLUG & FLOAT EQUIPMENT

85/84		
1 FIBER BAFFLE PLATE	@	175.00
3 CENTRALIZERS	@	64.00
1 SURFACE PLUG	@	92.00
	@	
	@	
	@	

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT _____ IF PAID IN 30 DAYS



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130078
Invoice Date: Feb 1, 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	Deardon #16-8-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Feb 1, 2012	3/2/12

Quantity	Item	Description	Unit Price	Amount
435.00	MAT	Lightweight Type II	14.50	6,307.50
218.00	MAT	Flo Seal	2.70	588.60
2,175.00	MAT	Gilsonite	0.89	1,935.75
518.00	SER	Handling - Production Top Stage	2.25	1,165.50
55.00	SER	Mileage 518 sx @.11 per sk per mi	56.98	3,133.90
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	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
Feb 26, 2012

Subtotal	13,131.25
Sales Tax	644.73
Total Invoice Amount	13,775.98
Payment/Credit Applied	13,775.98
TOTAL	0.00

ALLIED CEMENTING CO., LLC. 034576

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE 2-1-12 SEC. 8 TWP. 19 RANGE 31 CALLED OUT 3:00pm ON LOCATION 3:00pm JOB START 3:30am JOB FINISH 4:15am
WELL # 16-8-1931 LOCATION Scott City SE, 4.95 COUNTY Scott STATE KS
LD OR NEW (Circle one) NEW Winfo

CONTRACTOR H2 Rig #1
TYPE OF JOB Production (Top Stage)
OLE SIZE 2 7/8 T.D. 4825'
ASING SIZE 5 1/2 DEPTH
UBING SIZE DEPTH
RILL PIPE DEPTH
COL DD DEPTH 3003.88'
RES. MAX MINIMUM
EAS. LINE SHOE JOINT
EMENT LEFT IN CSG.
RFS.
ISPLACEMENT 71.5 bbl
EQUIPMENT

OWNER same

CEMENT
AMOUNT ORDERED 435 sks Lito 1/4 #
fls-sal 5 # gilsonite
COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC @
Lito (Type 1) 435 sks @ 14.50 6307.50
fls-sal 218 # @ 2.90 588.60
gilsonite 2175 # @ 1.89 1935.75
HANDLING 5.8 5 sks @ 2.25 1165.50
MILEAGE 118 SK/mile 3133.90
TOTAL 13131.25

JMP TRUCK CEMENTER Lakene
431 HELPER Darren
JLK TRUCK DRIVER Tyler
376/306
JLK TRUCK DRIVER Brandon
404

REMARKS:

Plug Moussehole 15 sks
Plug Ratchhole 30 sks
118 390 sks down casing
displace with water
and plug at 3000' ~~3000'~~
DD tool did not close.
cement did circulate.

Thank you

ARGE TO: FIML Natural Resources

REET
TY STATE ZIP

SERVICE

DEPTH OF JOB 3003.88'
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE 55 @ 2.00 110
MANIFOLD @
L.V. mileage @ 4.00 220

TOTAL

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
TOTAL

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.

INTENTED NAME Gary Drake

INATURE As Agent

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130076

Invoice Date: Feb 1, 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	Deardon #16-8-1931	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Feb 1, 2012	3/2/12

Quantity	Item	Description	Unit Price	Amount
5.00	MAT	Gel	21.25	106.25
250.00	MAT	ASC	19.00	4,750.00
125.00	MAT	Flo Seal	2.70	337.50
1,250.00	MAT	Gilsonite	0.89	1,112.50
24.00	MAT	Salt	23.95	574.80
323.00	SER	Handling	2.25	726.75
55.00	SER	Mileage 323 sx @.11 per sk per mi	35.53	1,954.15
1.00	SER	Production Casing - Bottom Stage	2,405.00	2,405.00
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	SER	Manifold Head Rental	200.00	200.00
55.00	SER	Light Vehicle Mileage	4.00	220.00
1.00	EQP	5.5 D V Tool	4,921.00	4,921.00
1.00	EQP	5.5 Latch Down Plug	277.00	277.00
1.00	EQP	5.5 AFU Float Shoe	349.00	349.00
25.00	EQP	5.5 Centralize	49.00	1,225.00
2.00	EQP	5.5 Basket	337.00	674.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Brandon Wilkinson		
1.00	OPER ASSIST	Tyler Flipse		

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
Feb 26, 2012

Subtotal	20,217.95
Sales Tax	1,045.87
Total Invoice Amount	21,263.82
Payment/Credit Applied	21,263.82
TOTAL	0.00

ALLIED CEMENTING CO., LLC. 034575

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley, KS

DATE <u>2-1-12</u>	SEC. <u>8</u>	TWP. <u>19</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>3:00 pm</u>	JOB START <u>10:30 pm</u>	JOB FINISH <u>11:50 pm</u>
WELL # <u>Dearden</u>	WELL # <u>16-8-1931</u>	LOCATION <u>Scott City 82, 4.95, Wimb</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			

OLD OR NEW (Circle one) NEW

CONTRACTOR H2 Reg #1

TYPE OF JOB production

TOLE SIZE 2 7/8" TD. 4825.1'

CASING SIZE 5 1/2" DEPTH 4798.35

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL D.U. DEPTH 3003.88

RES. MAX MINIMUM

MEAS. LINE SHOE JOINT 20.33

CEMENT LEFT IN CSG. 20.33

PERFS.

DISPLACEMENT 113.72

OWNER same

CEMENT
AMOUNT ORDERED 250 sks ASC 2 2.90
5 sks gilsonite 102.00 salt 12 4.80

COMMON	@		
POZMIX	@		
GEL	<u>5 sks</u>	@	<u>21.25 106.25</u>
CHLORIDE	@		
ASC	<u>250 sks</u>	@	<u>19.00 4750.00</u>
<u>fib seal</u>	<u>125 sks</u>	@	<u>2.70 337.50</u>
<u>gilsonite</u>	<u>125 sks</u>	@	<u>.89 111.25</u>
<u>salt</u>	<u>24 sks</u>	@	<u>23.75 570.00</u>
HANDLING <u>323 sks</u>	@	<u>2.28</u>	<u>726.75</u>
MILEAGE <u>114 sks/mile</u>			<u>1784.15</u>
TOTAL			<u>7561.75</u>

REMARKS:

Mix 250 sks down casing
Release plug. Displace with
water & mud. Bond plug
at 1708 ft. float held.
Open DU tool at
Circulate 4 hrs.

Thank you

SERVICE

DEPTH OF JOB	<u>4798.35'</u>
PUMP TRUCK CHARGE	<u>2405.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>55</u>	@ <u>7.00 385.00</u>
MANIFOLD <u>head</u>	@ <u>200.00</u>
<u>LU mileage</u>	@ <u>4.00 220.00</u>

TOTAL 3210.00

CHARGE TO: FTMC Natural Reserve

STREET _____

CITY _____ STATE _____ ZIP _____

(W)

PLUG & FLOAT EQUIPMENT

<u>1- DUTool</u>	<u>2921.00</u>
<u>1- Latch down plug</u>	@ <u>277.00</u>
<u>1- APd Float Shoe</u>	@ <u>342.00</u>
<u>25- Centralizers</u>	@ <u>49.00 1225.00</u>
<u>2- Baskets</u>	@ <u>337.00 674.00</u>

TOTAL 2446.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

To 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 Polke

SIGNATURE [Signature]



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130274

Invoice Date: Feb 21, 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	Deardon #16-8-A31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-05	Oakley	Feb 21, 2012	3/22/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class a Common	16.25	3,250.00
2.00	MAT	Chloride	58.20	116.40
202.00	SER	Handling	2.25	454.50
55.00	SER	Mileage	22.22	1,222.10
1.00	SER	Squeeze	1,050.00	1,050.00
55.00	SER	Heavy Vehicle Mileage	7.00	385.00
1.00	SER	Manifold Squeeze Rental	250.00	250.00
55.00	SER	Light Vehicle Mileage	4.00	220.00
1.00	CEMENTER	Andrew Forslund		
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Ethan Glassman		

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
Mar 17, 2012

Subtotal	6,948.00
Sales Tax	507.20
Total Invoice Amount	7,455.20
Payment/Credit Applied	7,455.20
TOTAL	0.00

ALLIED CEMENTING CO., LLC. 035236

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

@chley

DATE <u>2-21-12</u>	SEC <u>8</u>	TWP <u>16S</u>	RANGE <u>3W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00pm</u>	JOB FINISH <u>4:00pm</u>
LEASE <u>Deardon</u>	WELL # <u>16-8-A31</u>	LOCATION <u>scott city 8E 4745</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>W into</u>					

CONTRACTOR cheyenne well service

OWNER same

TYPE OF JOB squeeze

HOLE SIZE 5 1/2 T.D.

CASING SIZE 2 7/8 DEPTH 2885'

TUBING SIZE 2 7/8 DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS. holes 299'

DISPLACEMENT

CEMENT

AMOUNT ORDERED 200 sks com
2 sks cc on side

COMMON 200 @ 16.25 3250.00

POZMIX @

GEL @

CHLORIDE 2 sks @ 58.20 116.40

ASC @

@

@

@

@

@

@

@

HANDLING 200 sks @ 2.25 454.50

MILEAGE 114 sk/mile 1222.10

TOTAL 5043.00

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Alan

423-281 HELPER Jerry Tylor

BULK TRUCK

347 DRIVER Ethan

BULK TRUCK

DRIVER

REMARKS:

pressure tubing TO 1500' held
Load and pressure backs side 500'
Take injection rate @ 1 BBL/min
400' mix 100 sks 2% cc followed by
100 sks com wash pump and lines clean
suck 16 gal @ 1 BBL/min. pressure
TO 200' Orled up. Reverse clean.

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1050.00

EXTRA FOOTAGE @

MILEAGE 55 miles @ 2.00 385.00

MANIFOLD squeeze @ 250.00

light vehicle @ 4.00 220.00

@

TOTAL 1905.00

CHARGE TO: F I M L

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To 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 E L Abercrombie

SIGNATURE E L Abercrombie

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS