

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33476
Name: FIML Natural Resources, LLC
Address 1: 410 17TH ST STE 900
Address 2: _____
City: DENVER State: CO Zip: 80202 + 4420
Contact Person: Cassie Parks
Phone: (303) 893-5073
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Jim Musgrove
Purchaser: NCRA

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 #: _____

<u>08/10/2010</u>	<u>08/17/2010</u>	<u>09/21/2010</u>
Spud Date or Recompletion Date	Date Reached FD	Completion Date or Recompletion Date

API No. 15 - 15-171-20763-00-00
Spot Description: _____
NW NE SW SW Sec. 21 Twp. 18 S. R. 31 East West
1250 Feet from North / South Line of Section
700 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Scott
Lease Name: Grube Well #: 13A-21-1831
Field Name: _____
Producing Formation: Marmaton & Mississippi
Elevation: Ground: 2952 Kelly Bushing: 2961
Total Depth: 4770 Plug Back Total Depth: 4685
Amount of Surface Pipe Set and Cemented at: 393 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2985 Feet
If Alternate II completion, cement circulated from: 2985
feet depth to: 0 w/ 400 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 11200 ppm Fluid volume: 820 bbls
Dewatering method used: Evaporated
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: 12/07/2010
 Confidential Release Date: 12/06/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 12/08/2010



1047839

Operator Name: FIML Natural Resources, LLC Lease Name: Grube Well #: 13A-21-1831

Sec. 21 Twp. 18 S. R. 31 East West County: Scott

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i></p> <p>List All E. Logs Run: Spectral Density, Dual Spaced Neutron Array Compensated Resistivity Microlog</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Topeka</td> <td>3643'</td> <td></td> </tr> <tr> <td>Heebner</td> <td>3875'</td> <td>-914</td> </tr> <tr> <td>Lansing</td> <td>3918'</td> <td>-957</td> </tr> <tr> <td>Marmaton</td> <td>4326'</td> <td>-1365</td> </tr> <tr> <td>Cherokee</td> <td>4470'</td> <td>-1509</td> </tr> <tr> <td>Mississippi</td> <td>4536'</td> <td>-1575</td> </tr> </tbody> </table>	Name	Top	Datum	Topeka	3643'		Heebner	3875'	-914	Lansing	3918'	-957	Marmaton	4326'	-1365	Cherokee	4470'	-1509	Mississippi	4536'	-1575
Name	Top	Datum																				
Topeka	3643'																					
Heebner	3875'	-914																				
Lansing	3918'	-957																				
Marmaton	4326'	-1365																				
Cherokee	4470'	-1509																				
Mississippi	4536'	-1575																				

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23.0	393	"A" Common	240	2% gel, 3% CaCl
Production	7.875	5.5	15.5	4773	ASC	275	2% gel, 10% salt, 5 pps gll, 25 ft

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	-			

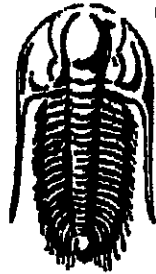
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
1	4586-90', 4592-94', 4597-99'	Acidize w/ 1000 gal 15% MCA	4586-99'
2	4349-52'	Acidize w/ 500 gal 15% MCA	4349-52'
	DV tool at 2985'	Cemented to surface w/ 400 sxs Lightweight cement	2985-0'

TUBING RECORD: Size: 2-7/8" Set At: 4651' Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: 10/02/2010 Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	32		23		

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i></p>	<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input checked="" type="checkbox"/> Commingled <i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p>	<p>PRODUCTION INTERVAL:</p> <p><u>4586-99'</u></p> <p><u>4346-52'</u></p>
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Doka

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.14 @ 01:24:15

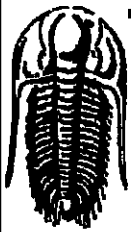
End Date: 2010.08.14 @ 08:49:45

Job Ticket #: 39645 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645 DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 01:24:15

GENERAL INFORMATION:

Formation: **Lans G**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: **03:21:15**

Time Test Ended: **08:49:45**

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4093.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Total Depth: **4140.00 ft (KB) (TVD)**

Hole Diameter: **7.88 Inches** Hole Condition: **Fair**

Reference Elevations: **2963.00 ft (KB)**

2951.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: **8166**

Inside

Press@RunDepth: **732.29 psig @ 4094.00 ft (KB)**

Start Date: **2010.08.14**

End Date:

2010.08.14

Capacity: **8000.00 psig**

Last Calib.: **2010.08.14**

Start Time: **01:24:15**

End Time:

08:49:45

Time On Btm: **2010.08.14 @ 03:21:00**

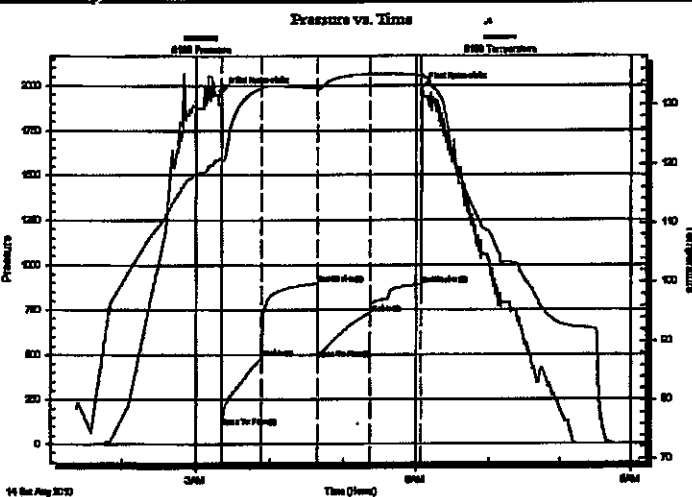
Time Off Btm: **2010.08.14 @ 06:05:00**

TEST COMMENT: **IF: BOB in 2 1/2 mins.**

IS: No return.

FF: BOB in 4 mins.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.72	120.97	Initial Hydro-static
1	103.88	120.35	Open To Flow (1)
33	482.65	132.89	Shut-In(1)
78	894.45	132.91	End Shut-In(1)
78	479.32	132.77	Open To Flow (2)
121	732.29	135.21	Shut-In(2)
164	891.92	134.93	End Shut-In(2)
164	1990.94	135.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
1335.00	SMCW 95% w 5% m	16.81
310.00	O&MCW 10% o 60% w 40% m	4.35
30.00	SWCO 95% o 5% w	0.42
0.00	API = 27 @ 70F = 26 corrected	0.00
0.00	RW = .192 @ 70F = 39000 ppm	0.00

Gas Rates

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



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645

DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 01:24:15

Tool Information

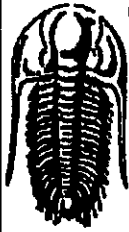
Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4093.00 ft			Final 67000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4074.00	
Shut In Tool	5.00			4079.00	
Hydraulic tool	5.00			4084.00	
*Packer	5.00			4089.00	20.00 Bottom Of Top Packer
Packer	4.00			4093.00	
Stubb	1.00			4094.00	
Recorder	0.00	8322	inside	4094.00	
Recorder	0.00	8166	inside	4094.00	
Perforations	10.00			4104.00	
Change Over Sub	1.00			4105.00	
Drill Pipe	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39645

DST#: 1

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 01:24:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.15 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

28 deg API

Water Salinity: 39000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100% m	0.148
1335.00	SMCW 85% w 5% m	16.814
310.00	O&MCW 10% o 50% w 40% m	4.348
30.00	SWCO 85% o 5% w	0.421
0.00	API = 27@70F = 28 corrected	0.000
0.00	RW = .182@70F = 39000 ppm	0.000
0.00	GP = 0	0.000

Total Length: 1705.00 ft Total Volume: 21.731 bbl

Num Fluid Samples: 0

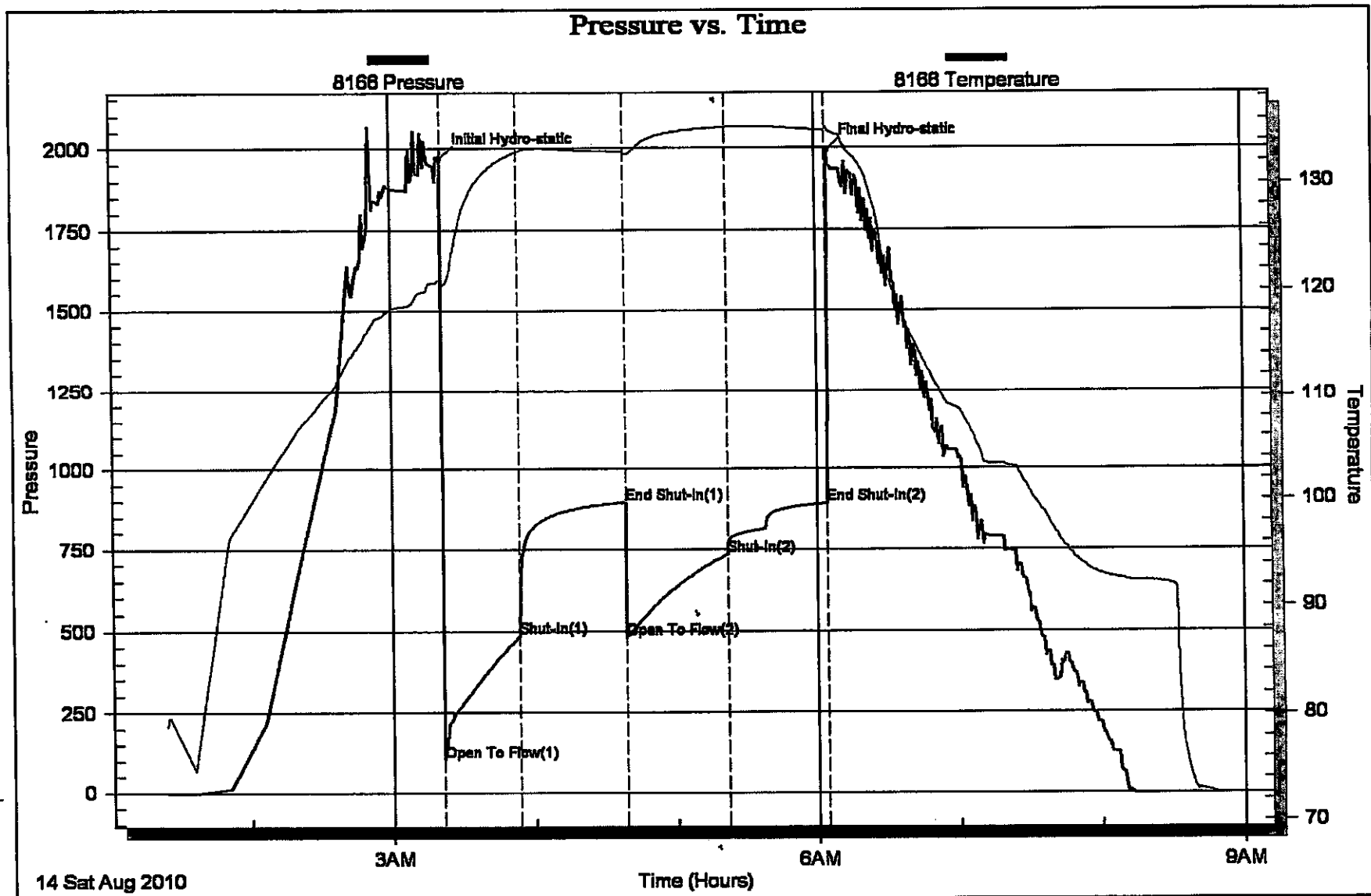
Num Gas Bombs: 0

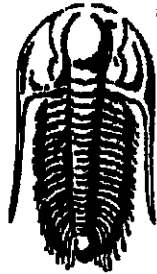
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

410 17th ST Ste 900
Denver, CO 80202

ATTN: Josh Austin/Gary Doka

.21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.14 @ 17:14:00

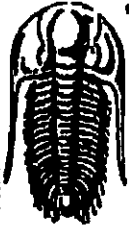
End Date: 2010.08.15 @ 02:05:30

Job Ticket #: 39846 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39846

DST#: 2

ATTN: Josh Austh/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 17:14:00

GENERAL INFORMATION:

Formation: Lans H&I
Deviated: No Whipstock ft (KB)
Time Tool Opened: 19:10:45
Time Test Ended: 02:05:30

Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48

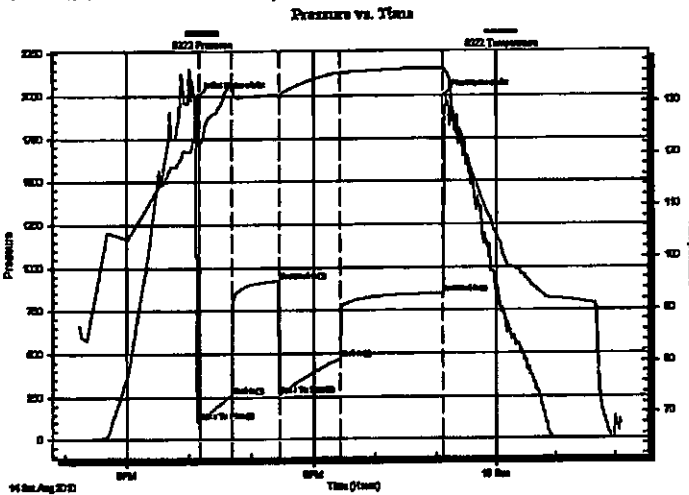
Interval: 4151.00 ft (KB) To 4190.00 ft (KB) (TVD)
Total Depth: 4190.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2963.00 ft (KB)
2951.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8322 Inside
Press@RunDepth: 472.69 psig @ 4152.00 ft (KB)
Start Date: 2010.08.14 End Date: 2010.08.15
Start Time: 17:14:05 End Time: 02:05:30

Capacity: 8000.00 psig
Last Calib.: 2010.08.16
Time On Btmr: 2010.08.14 @ 19:09:30
Time Off Btmr: 2010.08.14 @ 23:09:45

TEST COMMENT: IF: BOB in 6 mins.
IS: Built to 7 inches died back to 6 inches
FF: BOB in 10 mins.
FS: Built to 6 inches died back to 3 inches.



PRESSURE SUMMARY

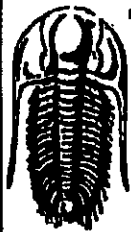
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.63	122.29	Initial Hydro-static
2	112.31	122.30	Open To Flow (1)
32	281.18	133.58	Shut-in(1)
78	924.13	131.34	End Shut-in(1)
78	282.27	131.16	Open To Flow (2)
137	472.69	135.53	Shut-in(2)
238	847.52	136.36	End Shut-in(2)
241	2002.88	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	M 100% m	0.10
124.00	G&MCO 5%g 90%o 5% m	0.61
911.00	GCO 30%g 70%o	11.90
310.00	CG&O 70%g 30%o	4.35
0.00	GP = 500 ft	0.00
0.00	AFI = 30@70F = 28 Corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 800
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39846

DST#: 2

ATTN: Josh Austin/Gary Duke Denver, CO 80202

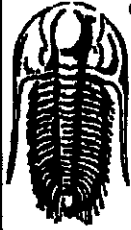
Test Start: 2010.08.14 @ 17:14:00

Tool Information

Drill Pipe:	Length: 3924.00 ft	Diameter: 3.80 inches	Volume: 55.04 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.22 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4151.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 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			4132.00	
Shut In Tool	5.00			4137.00	
Hydraulic tool	5.00			4142.00	
Packer	5.00			4147.00	20.00 Bottom Of Top Packer
Packer	4.00			4151.00	
Stubb	1.00			4152.00	
Recorder	0.00	8322	inside	4152.00	
Recorder	0.00	8166	inside	4152.00	
Perforations	35.00			4187.00	
Bullnose	3.00			4190.00	39.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39646

DST#: 2

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.14 @ 17:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	M 100% m	0.098
124.00	G&MCO 5%g 90%o 5%m	0.610
911.00	GCO 30%g 70%o	11.904
310.00	CG&O 70%g 30%o	4.348
0.00	GIP = 500 ft	0.000
0.00	API = 30@70F = 29 Corrected	0.000

Total Length: 1365.00 ft

Total Volume: 16.960 bbf

Num Fluid Samples: 0

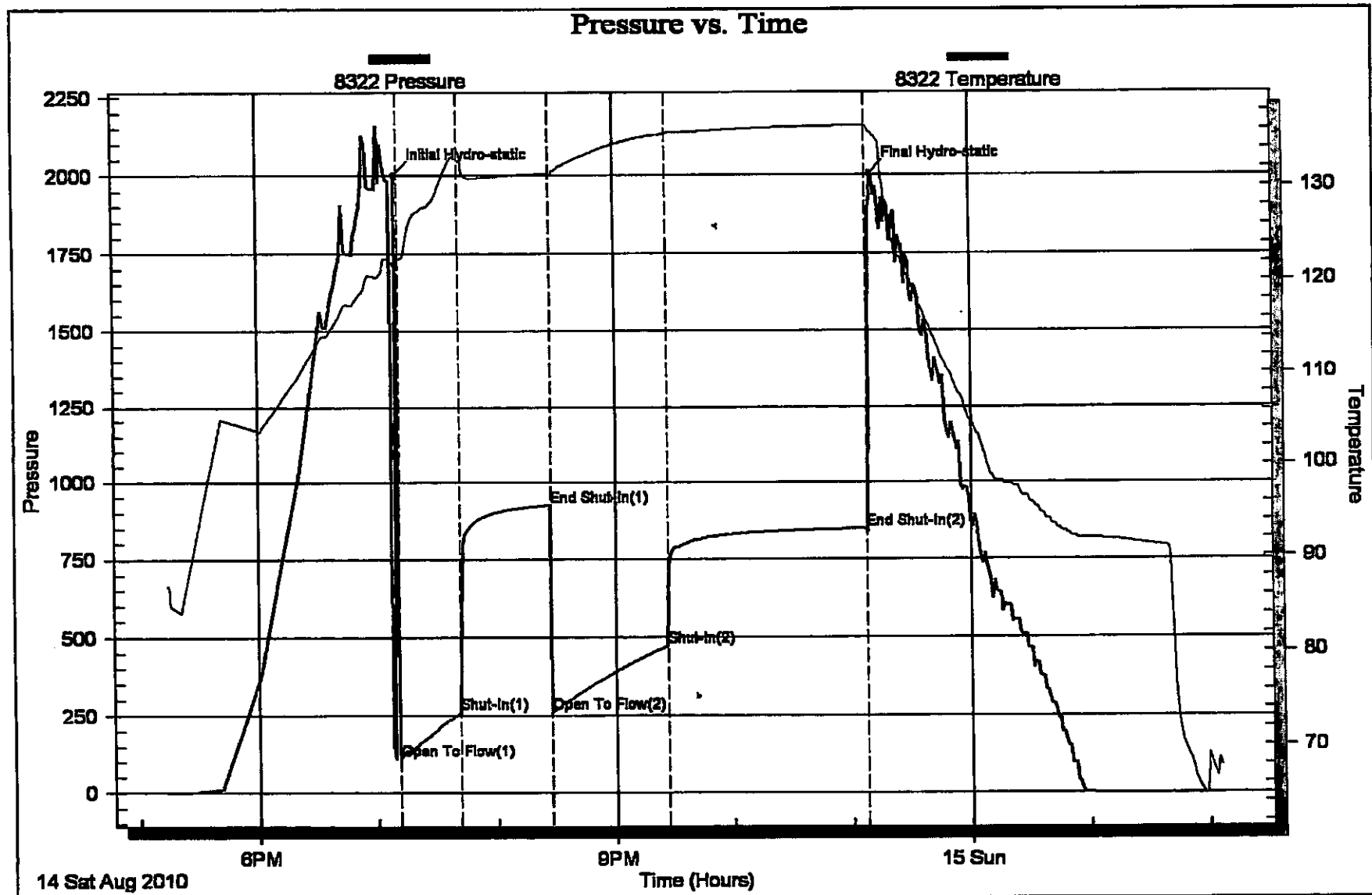
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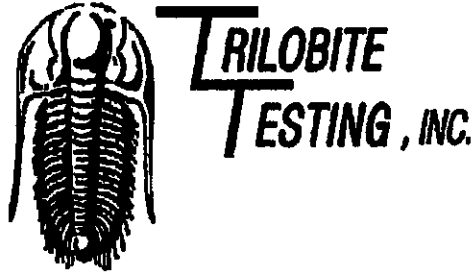
Serial #:

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: Josh Austin/Gary Doke

21-18s-31w Scott

Grube 13A-21-1831

Start Date: 2010.08.16 @ 09:58:05

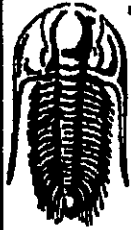
End Date: 2010.08.16 @ 16:15:44

Job Ticket #: 39647 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39647

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 09:56:05

GENERAL INFORMATION:

Formation: Miss Spergen
Deviated: No Whipstock ft (KB)
Time Tool Opened: 11:36:45
Time Test Ended: 16:15:44

Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48

Interval: 4572.00 ft (KB) To 4602.00 ft (KB) (TVD)
Total Depth: 4602.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2963.00 ft (KB)
2951.00 ft (CF)
KB to GR/CF: 12.00 ft

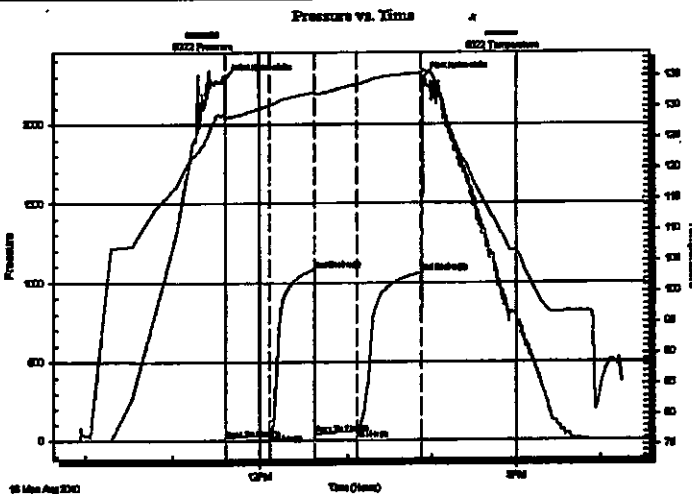
Serial #: 8322

Inside

Press@RunDepth: 62.22 psig @ 4573.00 ft (KB)
Start Date: 2010.08.16 End Date: 2010.08.16
Start Time: 09:56:05 End Time: 16:15:44

Capacity: 8000.00 psig
Last Calib.: 2010.08.16
Time On Btm: 2010.08.16 @ 11:36:30
Time Off Btm: 2010.08.16 @ 13:54:15

TEST COMMENT: F: Built 2 inches.
S: No return.
FF: Built to 1/4 inch.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.07	129.03	Initial Hydro-static
1	17.77	128.24	Open To Flow (1)
31	41.16	130.31	Shut-in(1)
61	1084.65	132.38	End Shut-in(1)
62	44.88	132.18	Open To Flow (2)
91	62.22	133.72	Shut-in(2)
137	1063.54	135.53	End Shut-in(2)
138	2289.03	135.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20% @ 80% m	0.30
15.00	M&GCO 5% g 85% @ 10% m	0.07
0.00	GP = 0	0.00
0.00	API = 30 @ 80F = 28 corrected	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39647

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

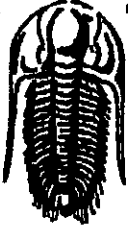
Test Start: 2010.08.16 @ 09:56:05

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4572.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			4553.00	
Shut In Tool	5.00			4558.00	
Hydraulic tool	5.00			4563.00	
Packer	5.00			4568.00	20.00 Bottom Of Top Packer
Packer	4.00			4572.00	
Stubb	1.00			4573.00	
Recorder	0.00	8322	inside	4573.00	
Recorder	0.00	8166	inside	4573.00	
Perforations	26.00			4599.00	
Bulldose	3.00			4602.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39647

DST#: 3

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 09:56:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil AFI:

28 deg AFI

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in²

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OCM 20%o 80%m	0.295
15.00	M&GCO 5%g 85%o 10%m	0.074
0.00	GP= 0	0.000
0.00	AFI= 30@80F= 2B corrected	0.000

Total Length: 75.00 ft

Total Volume: 0.369 bbf

Num Fluid Samples: 0

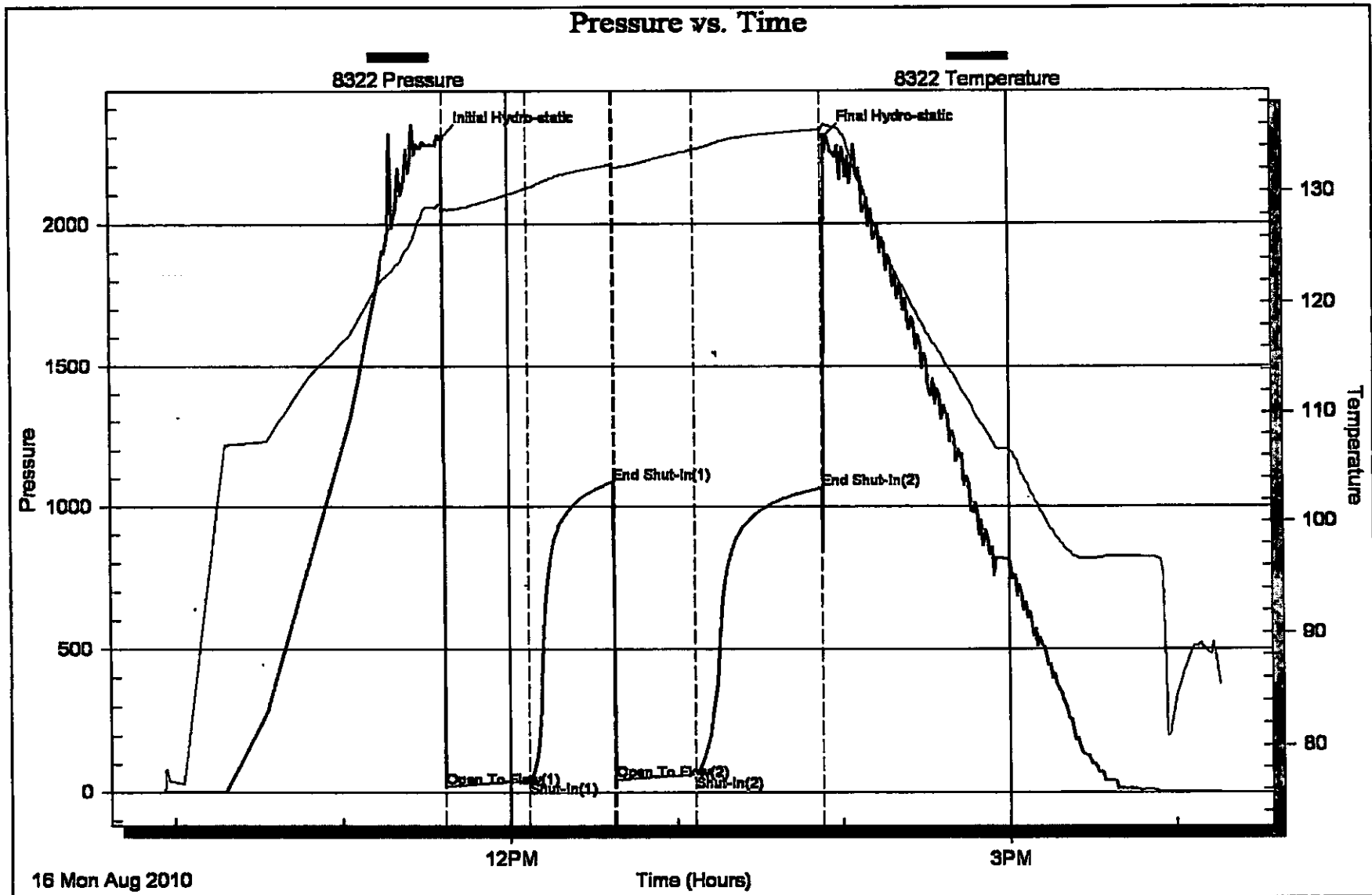
Num Gas Bombs: 0

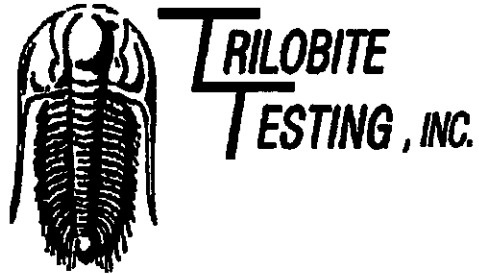
Serial #:

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: Josh Austin/Gary Doke

21-18s-31w Scott

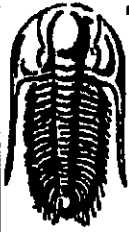
Grube 13A-21-1831

Start Date: 2010.08.16 @ 22:19:05

End Date: 2010.08.17 @ 04:55:29

Job Ticket #: 39648 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 800
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 22:19:05

GENERAL INFORMATION:

Formation: Miss. Spergen
Deviated: No Whipstock ft (KB)
Time Tool Opened: 00:10:45
Time Test Ended: 04:55:29

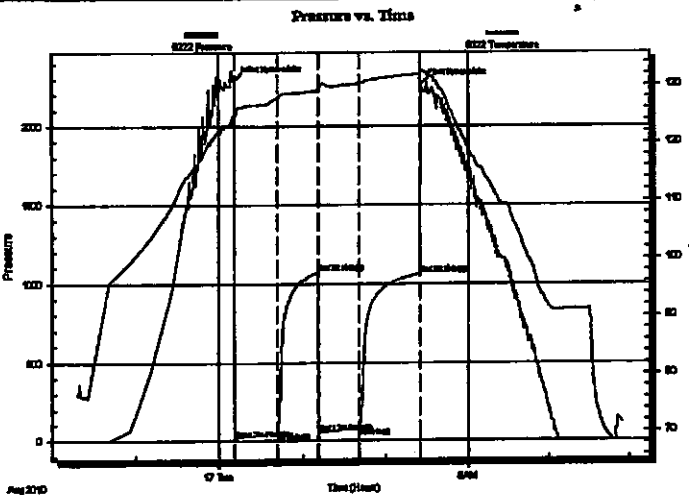
Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48

Interval: 4573.00 ft (KB) To 4617.00 ft (KB) (TVD)
Total Depth: 4617.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2863.00 ft (KB)
2851.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8322 Inside
Press@RunDepth: 79.68'psig @ 4574.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.08.16 End Date: 2010.08.17 Last Calib.: 2010.08.17
Start Time: 22:18:05 End Time: 04:55:29 Time On Btm: 2010.08.17 @ 00:10:30
Time Off Btm: 2010.08.17 @ 02:28:15

TEST COMMENT: IF: Built to 3 inches.
IS: 1/4 inch died in 8 mins.
FF: Built to 1 1/2 inches.
FS: 1/4 died in 9 mins



PRESSURE SUMMARY

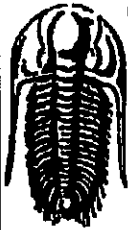
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.18	124.80	Initial Hydro-static
1	15.73	124.29	Open To Flow (1)
31	48.90	127.83	Shut-In(1)
60	1070.58	128.93	End Shut-In(1)
61	54.24	128.80	Open To Flow (2)
90	79.68	130.27	Shut-In(2)
135	1061.77	131.80	End Shut-In(2)
138	2270.93	132.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCM 10%o 80%w	0.61
1.00	CO 100%o	0.00
0.00	GIP = 0	0.00
0.00	API = N/A	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 22:19:05

Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4573.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4554.00	
Shut In Tool	5.00			4559.00	
Hydraulic tool	5.00			4564.00	
Packer	5.00			4569.00	20.00 Bottom Of Top Packer
Packer	4.00			4573.00	
Stubb	1.00			4574.00	
Recorder	0.00	8322	inside	4574.00	
Recorder	0.00	8168	inside	4574.00	
Perforations	7.00			4581.00	
Change Over Sub	1.00			4582.00	
Drill Pipe	31.00			4613.00	
Change Over Sub	1.00			4614.00	
Bullnose	3.00			4617.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

Grube 13A-21-1831

410 17th ST Ste 900
Denver, CO 80202

21-18s-31w Scott

Job Ticket: 39648

DST#: 4

ATTN: Josh Austin/Gary Duke Denver, CO 80202

Test Start: 2010.08.16 @ 22:19:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	OCM 10%o 80%o	0.610
1.00	CO 100%o	0.005
0.00	GIP = 0	0.000
0.00	API = N/A	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbf

Num Fluid Samples: 0

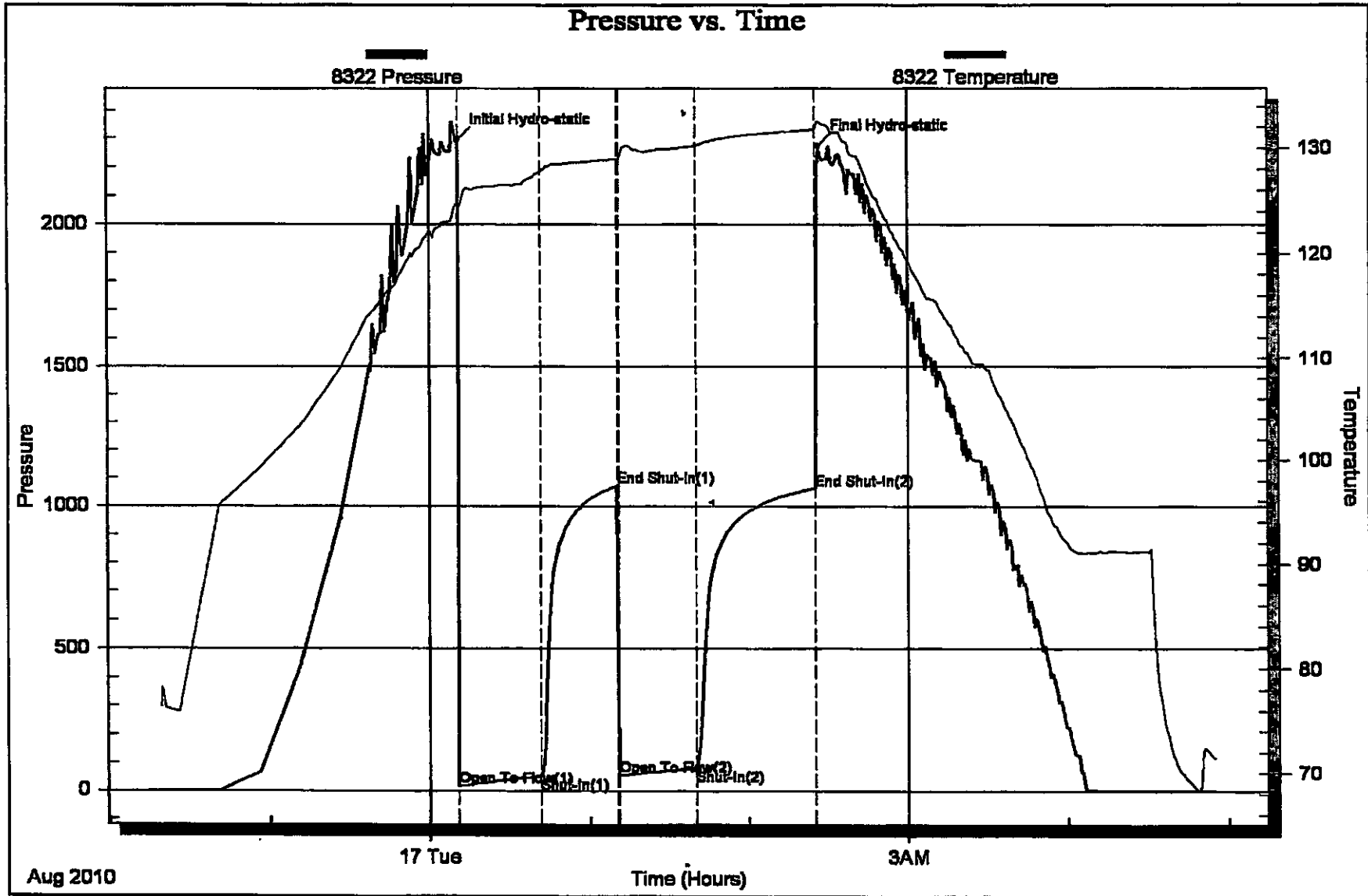
Num Gas Bombs: 0

Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments:





PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

2347

INVOICE

RECEIVED
 AUG 20 2010

Invoice Number: 123975
 Invoice Date: Aug 10, 2010
 Page: 1

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

Customer ID	Well Name or Customer P.O.	Payment Terms	
FIML	Grube #13A - 21-1231	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 10, 2010	9/9/10

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	15.45	3,708.00
5.00	MAT	Gel	20.80	104.00
8.00	MAT	Chloride	58.20	465.60
253.00	SER	Handling	2.40	607.20
55.00	SER	Mileage 253 ex @ 10 per ex per mi	25.20	1,386.00

ALLIED CEMENTING CO., LLC. 039065

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

SERVICE POINT:
Oakley

DATE <u>8-10-10</u>	SEC. <u>21</u>	TWP. <u>18s</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00Am</u>	JOB FINISH <u>12:00Am</u>
LEASE <u>Grube</u>	WELL # <u>13 A</u>		LOCATION <u>Scott city 8E 34S</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			E into				

CONTRACTOR <u>Murkin Drilling Rig 21</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>393'</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>395'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.33'</u>
CEMENT LEFT IN CSG. <u>42.33'</u>	
PERFS.	
DISPLACEMENT <u>22.46 BBL</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Andrew</u>	
# <u>423-281</u>	HELPER <u>Larene</u>	
BULK TRUCK		
# <u>386</u>	DRIVER <u>Wil</u>	
BULK TRUCK		
#	DRIVER	

CEMENT			
AMOUNT ORDERED <u>290 sks com</u>			
<u>390cc 2% gel</u>			
COMMON <u>290 sks</u>	@ <u>15.45</u>	<u>3708.00</u>	
POZMIX	@		
GEL <u>5 sks</u>	@ <u>20.80</u>	<u>104.00</u>	
CHLORIDE <u>8 sks</u>	@ <u>58.20</u>	<u>465.60</u>	
ASC	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <u>253 sks</u>	@ <u>2.40</u>	<u>607.20</u>	
MILEAGE <u>10^{1/2} sk/mile</u>		<u>1391.50</u>	
		<u>TOTAL 6276.32</u>	

REMARKS:

Cement did circulate

SERVICE

DEPTH OF JOB <u>395'</u>			
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE <u>95'</u>	@ <u>.85</u>	<u>80.75</u>	
MILEAGE <u>55 miles</u>	@ <u>7.00</u>	<u>385.00</u>	
MANIFOLD	@		



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

RECEIVED
AUG 25 2010

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INVOICE

Invoice Number: 124090

Invoice Date: Aug 17, 2010

Page: 1

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

Customer ID	Well Name of Customer P.O.	Payment Terms	
FIML	Grube Grube 13A #21-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Aug 17, 2010	9/16/10

Quantity	Item	Description	Unit Price	Amount
5.00	MAT	Gel	20.80	104.00
275.00	MAT	ASC Class A	18.60	5,115.00
1,375.00	MAT	Gilsonite	0.89	1,223.75
31.00	MAT	Salt	23.95	742.45

ALLIED CEMENTING CO., LLC. 038977

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

SERVICE POINT:

On the job

DATE	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
8-17-10	21	18	31		8:30pm	9:00am	9:30am
LEASE	WELL#		LOCATION	COUNTY	STATE		
Brube 13A	21-1831		Scott City e-Texas Rd	Scott	KS		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murkin #21
 TYPE OF JOB 2-stage bottom
 HOLE SIZE 7 7/8 T.D. 4775'
 CASING SIZE 5 1/2 15.5 DEPTH 4772'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL DU Tool DEPTH 2985'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 21
 CEMENT LEFT IN CSG. 21
 PERFS. _____
 DISPLACEMENT 71.0 mud 41.9 water

OWNER _____
 CEMENT AMOUNT ORDERED 275 lbs ASC 2900
100 gal salt, 50 gal / sk 1/4" Clostral
500 gal WFE

COMMON	@		
POZMIX	@		
GEL	@	<u>5</u>	<u>20.00</u>
CHLORIDE	@		
	@	<u>275</u>	<u>18.00</u>
	@		<u>5115.00</u>
<u>Gilsonite</u>	@	<u>1375</u>	<u>.89</u>
	@		<u>1223.75</u>
<u>Salt</u>	@	<u>31</u>	<u>23.95</u>
	@		<u>742.45</u>
<u>Clostral</u>	@	<u>69</u>	<u>2.50</u>
	@		<u>172.50</u>
<u>WFE</u>	@	<u>500</u>	<u>1.22</u>
	@		<u>635.00</u>
HANDLING	@	<u>354</u>	<u>2.40</u>
	@		<u>849.60</u>
MILEAGE	@	<u>104.9</u>	<u>19.47</u>
	@		<u>1947.00</u>
TOTAL			<u>10789.25</u>

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy
 # 431 HELPER Billy
 BULK TRUCK
 # 373 DRIVER Berry
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Pump 500 gal WFE, mix 275
lbs cement wash pump lines
Drop plug & displace to float collar
1500' hole 3500' land floathold
Plug down 9:30 am, Drop DU Bomb
wait 15 min open tool @ 1100'
circ 4 hrs.
Thanks Tim

SERVICE

DEPTH OF JOB		<u>4772'</u>
PUMP TRUCK CHARGE		<u>2185.00</u>
EXTRA FOOTAGE	@	
MILEAGE	@	<u>55</u>
	@	<u>7.00</u>
	@	<u>385.00</u>



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

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

RECEIVED
AUG 25 2010

2347

INVOICE

Invoice Number: 124091
Invoice Date: Aug 18, 2010
Page:

Customer ID	Well Name or Customer PO	Payment Terms	
FIML	Grube Grube 13A #21-1831	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Aug 18, 2010	8/17/10

Quantity	Item	Description	Unit Price	Amount
450.00	MAT	Lightweight Class A	14.05	6,322.50
2,250.00	MAT	Gilsontie	0.89	2,002.50
113.00	MAT	Flo Seal	2.50	282.50
530.00	SER	Handling	2.40	1,272.00

ALLIED CEMENTING CO., LLC. 038978

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

SERVICE POINT:

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
8-18-10	21	19	31		8:30am	2:00pm	2:30am
BRUBE LEASE	13a	21- WELL # 1831	LOCATION Scot City E. Truss Rd		Scot	MS	
OLD OR <u>NEW</u> (Circle one)				15-6-10			

8-17-10 021x165
8-18-10

CONTRACTOR Murkin + 21

TYPE OF JOB 2-stage (TOP)

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 1/2 DEPTH 2985'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 71.0 Bbls

OWNER _____

CEMENT AMOUNT ORDERED 450 lbs @ 114¢

Closeal 5+ @ 115¢

EQUIPMENT

PUMP TRUCK CEMENTER F224

431 HELPER 12x14

BULK TRUCK

394 DRIVER DARRIN

BULK TRUCK

_____ DRIVER _____

COMMON	@	_____	_____
POZMIX	@	_____	_____
GEL	@	_____	_____
CHLORIDE	@	_____	_____
ASC	@	_____	_____
<u>Lite</u>	@	<u>450</u>	<u>140¢</u> <u>6322.50</u>
<u>Gilsonite</u>	@	<u>2250</u>	<u>1.99</u> <u>2002.50</u>
<u>Closeal</u>	@	<u>113</u>	<u>2.50</u> <u>282.50</u>
HANDLING	@	<u>530</u>	<u>2.40</u> <u>1272.00</u>
MILEAGE	@	<u>10.45</u> mile	<u>2915.00</u>
TOTAL			<u>12284.50</u>

REMARKS:

mix 20% sand, mix 30% RH Pump
SBA Freshwater mix 40% cement
wash pump & lines, replace &
displace to PU Tool. 1400' @ 1.5¢
1800' land & close tool. cement
did circulate approx 50 Bbls.
plug down @ 2:30pm
Thanks Rusty crew

SERVICE

DEPTH OF JOB 2985'

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE @ _____

MILEAGE 55 @ _____ N/C

MAINTENANCE @ _____



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

December 07, 2010

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

Re: ACO1
API 15-171-20763-00-00
Grube 13A-21-1831
SW/4 Sec.21-18S-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