



KANSAS CORPORATION COMMISSION 1047105
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

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 SLOW
- 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>08/23/2010</u>	<u>09/01/2010</u>	<u>09/28/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-20764-00-00

Spot Description: _____
_____ E2_NE Sec. 33 Twp. 18 S. R. 31 East West
1320 Feet from North / South Line of Section
660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Scott
Lease Name: Pfenninger Well #: 1C-33-1831
Field Name: _____

Producing Formation: Mississippi
Elevation: Ground: 2941 Kelly Bushing: 2972
Total Depth: 4804 Plug Back Total Depth: 4768
Amount of Surface Pipe Set and Cemented at: 393 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 3010 Feet
If Alternate II completion, cement circulated from: 3010
feet depth to: 0 w/ 370 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 13500 ppm Fluid volume: 1200 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: 12/09/2010
- Confidential Release Date: 12/08/2012
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 12/10/2010



1047105

Operator Name: FIML Natural Resources, LLCLease Name: PfenningerWell #: 1C-33-1831Sec. 33 Twp. 18 S. R. 31 East WestCounty: 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.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3891'	-942
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3937'	-988
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Marmaton	4334'	-1385
List All E. Logs Run:		Cherokee	4477	-1528
Triple Combo		Mississippi	4540'	-1591

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 ₂
Production	7.875	5.5	15.5	4803	ASC	275	2% gel, 10% salt, .25 flo, 6 gl

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 (Amount and Kind of Material Used)	Depth
1	4593-95' & 4596-4600'	Acidize w/ 1000 gal 15% MCA	4593-4600'
		DV tool set at 3010. Cemented with 370 sxs lite cement.	3010'

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>4744'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>10/18/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbbs. <u>86</u>	Gas Mcf	Water Bbbs. <u>161</u>	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4593-4600'</u>
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*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

December 09, 2010

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

Re: ACO1
API 15-171-20764-00-00
Pfenninger 1C-33-1831
NE/4 Sec.33-18S-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



PO BOX 31 Russell, KS 67665

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

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 AUG 30 2010

2347

INVOICE

Invoice Number: 124178

Invoice Date: Aug 23, 2010

Page: 1

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

Pfenninger 1C-33-1831

Customer ID	Well Name or Customer P.O.	Payment Terms	
FIML	Pfenninger#8-C33-1831	Net 30 Days	
Job Location	Same Location	Service Date	Due Date
KS1-01	Oakley	Aug 23, 2010	9/22/10

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	Miscellaneous	25.32	1,392.60

ALLIED CEMENTING CO., LLC. 038982

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

SERVICE POINT:
Oakley KS
8-24-10

DATE <u>8-23-10</u>	SEC <u>33</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>12:30pm</u>	JOB START <u>2:30am</u>	JOB FINISH <u>3:00am</u>
LEASE <u>Pfeiffer</u>		WELL # <u>1831</u>		LOCATION <u>Scot City C. Road</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				2" 25' <u>2 5/8"</u>			

CONTRACTOR Munson #21 OWNER _____

TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u> TD. <u>396'</u>	AMOUNT ORDERED <u>240 com 39 arc</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>395'</u>	<u>290 oil</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT _____	

COMMON	<u>240</u>	@	<u>15 45</u>	<u>3708⁰⁰</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>20⁰⁰</u>	<u>104⁰⁰</u>
CHLORIDE	<u>8</u>	@	<u>58²⁰</u>	<u>465⁶⁰</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>253</u>	@	<u>2 40</u>	<u>607²⁰</u>
MILEAGE	<u>.10494 mile</u>	@		<u>1391^{50/101}</u>
TOTAL				<u>6276^{30/101}</u>

REMARKS:

Cement did cementate
Approx 5 BBS

Plug down @ 2:40am
Start held

Thanks T-242

SERVICE

DEPTH OF JOB	<u>396'</u>
PUMP TRUCK CHARGE	<u>1018⁰⁰</u>
EXTRA FOOTAGE	<u>96 @ .85 w/c</u>
MILEAGE	<u>55 @ 7⁰⁰ 385⁰⁰</u>



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5568

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SEP 07 2010

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INVOICE

Invoice Number: 124305

Invoice Date: Sep 1, 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	Pfenninger1 C#33-1831	Net 30 Days	
Job Location	Game Location	Service Date	Due Date
KS1-02	Oakley	Sep 1, 2010	10/1/10

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. 038993

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

SERVICE POINT:
OKMUDS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
9-1-10	33	18	37		11:30am	11:30pm	12:00am
LEASE	WELL#		LOCATION		COUNTY	STATE	
Pennings	23-1851		S. A. City e. Taos		Soc	KS	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Rd 3 1/2 S 24 S 0				

CONTRACTOR	MudCo #21	OWNER	
TYPE OF JOB	2-stage bottom		
HOLE SIZE	7 7/8	T.D.	4906'
CASING SIZE	5 1/2 15.5	DEPTH	4803'
TUBING SIZE		DEPTH	
DRILL PIPE		DEPTH	
TOOL	DJ Tool	DEPTH	3010'
PRES. MAX		MINIMUM	
MEAS. LINE		SHOE JOINT	22'
CEMENT LEFT IN CSG.			22'
PERFS.			
DISPLACEMENT	113.6 Total		

CEMENT	
AMOUNT ORDERED	275 #s ASC
	270 gal 10% salt 5% G1/SK
	1/4" Special 500gal water

EQUIPMENT	
PUMP TRUCK	CEMENTER
# 471	HELPER
BULK TRUCK	
# 386	DRIVER
BULK TRUCK	
# 394	DRIVER

COMMON	@		
POZMIX	@		
GEL	@	20.00	104.00
CHLORIDE	@		
ASC	@	18.00	5115.00
	@		
Gilsonite	@	.89	1223.25
	@		
SALT	@	23.25	742.25
	@		
Glossol	@	2.50	172.50
	@		
WATER	@	1.22	635.00
HANDLING	@	2.40	849.00
MILEAGE			1947.00
			10789.31

REMARKS:

Pump 500gal water mix 275 #s cement, wash pump, hoses, 0.5 gal 1/2 gal place to float collar with 71.6 #s mud + 41.9 #s mud. Plus down @ 6:20 float held drop but bomb with ionics open hole @ 12:00 circ 4 hrs
Thanks Kizzet crew

SERVICE	
DEPTH OF JOB	4903'
PUMP TRUCK CHARGE	2185.00
EXTRA FOOTAGE	@
MILEAGE	55 @ 7.00
	@
	385.00



PO BOX 31 Russell, KS 67665

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

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SEP 07 2010

INVOICE

Invoice Number: 124306
Invoice Date: Sep 1, 2010
Page: 1

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

Customer ID	Web Name of Customer P.O.	Payment Terms	
FIML	Pfenninger1C#33-1831	Net 30 Days	
Job Location	Comm Location	Service Date	Due Date
KS1-02	Oakley	Sep 1, 2010	10/1/10

Quantity	Item	Description	Unit Price	Amount
420.00	MAT	Lightweight Class A	14.05	5,901.00
2,100.00	MAT	Gilsonite	0.89	1,869.00
105.00	MAT	Flo Seal	2.50	262.50
495.00	SER	handling	2.40	1,188.00

ALLIED CEMENTING CO., LLC. 038994

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

SERVICE POINT:
Earlville KS

Q-1-10	SEC. 33	TWP. 18	RANGE 31	CALLED OUT	ON LOCATION 11:30am	JOB START 11:30am	JOB FINISH 12:00pm
DATE	33-1981						
PEANINSON LEASE	WELL# 1-C	LOCATION Scott City & Taos Rd			COUNTY Scott	STATE KS	
OLD OR <u>NEW</u> (Circle one)				3 1/2" 15.5 casing			

CONTRACTOR M. W. #21
 TYPE OF JOB 2-stage (Top)
 HOLE SIZE 27 1/2" ID. 4806'
 CASING SIZE 5 1/2" 15.5 DEPTH 3010'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 71.6

OWNER _____
 CEMENT AMOUNT ORDERED 420 bbls
Closeal 5* 6 1/2' sk

EQUIPMENT
 PUMP TRUCK CEMENTER Fuzz
 # 431 HELPER Killy
 BULK TRUCK # 39 DRIVER Brandon
 BULK TRUCK # _____ DRIVER _____

COMMON	@	<u>80</u>	
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<u>hite</u>	@	<u>420</u>	<u>1405</u>
<u>Gilsonite</u>	@	<u>2100*</u>	<u>189</u>
<u>Closeal</u>	@	<u>105</u>	<u>230</u>
<u>Closeal</u>	@		<u>262</u>
HANDLING	@	<u>495</u>	<u>240</u>
MILEAGE	@	<u>110.45 km</u>	<u>1188</u>
TOTAL			<u>11943</u>

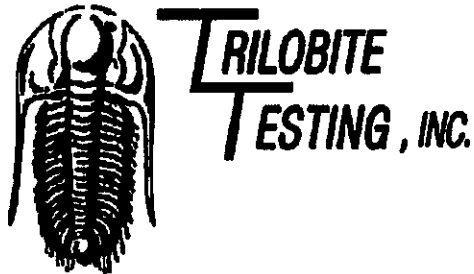
REMARKS:

Mix 2000s cement MH, mix 2000s cement RH
mix 2000s cement, wash pump
lines. Drop plug & displace to DU Tool
800' lift close tool @ 1600'
cement deal circulate approx
35 BBLs Plug down @ 11:45pm
Thanks to crew

SERVICE

DEPTH OF JOB		<u>3010'</u>	
PUMP TRUCK CHARGE			<u>1185</u>
EXTRA FOOTAGE	@		
MILEAGE	@	<u>55</u>	<u>70</u>
MANHOLE	@		<u>N/C</u>

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DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

Start Date: 2010.08.27 @ 10:58:00

End Date: 2010.08.27 @ 18:48:47

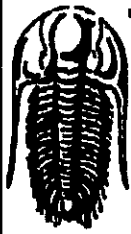
Job Ticket #: 40201 DST #: 1

ORIGINAL

*Add'l copies
in log file*

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5820

FIML Natural Resources LLC
Pfenninger 1C 33-1831
33-18-31 Scott KS
DST # 1
LKC 'G'
2010.08.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

F.M. Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

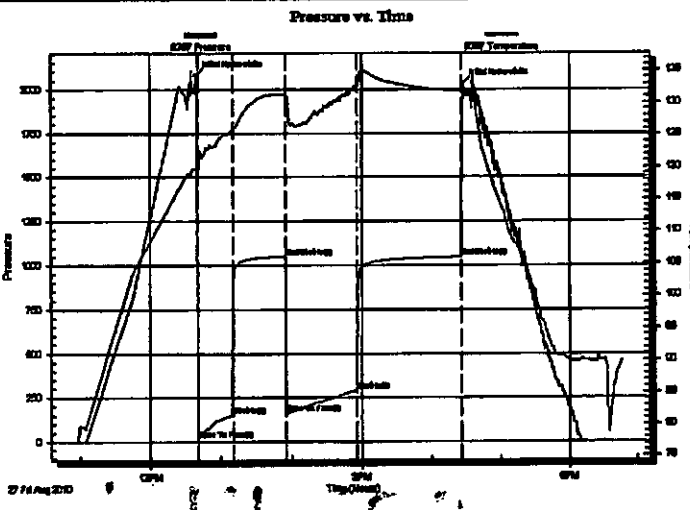
33-18-31 Scott KS
Job Ticket: 40201 DST#: 1
Test Start: 2010.08.27 @ 10:58:00

GENERAL INFORMATION:

Formation: **LKC 'G'**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **12:40:18**
 Tester: **Chuck Smith**
 Time Test Ended: **18:46:47**
 Unit No: **37**
 Interval: **4106.00 ft (KB) To 4153.00 ft (KB) (TVD)**
 Reference Elevations: **2950.00 ft (KB)**
 Total Depth: **4153.00 ft (KB) (TVD)**
2939.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **11.00 ft**

Serial #: 8357 Inside
 Press@RunDepth: **291.44 psig @ 4107.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.27** End Date: **2010.08.27** Last Calib.: **2010.08.27**
 Start Time: **10:58:05** End Time: **18:46:48** Time On Btm: **2010.08.27 @ 12:38:54**
 Time Off Btm:

TEST COMMENT: IF: B.O.B. @ 18 1/2 min.
 IS: No return.
 FF: B.O.B. @ 36 min.
 FSt: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.67	119.67	Initial Hydro-static
2	18.76	118.84	Open To Flow (1)
32	152.85	125.57	Shut-In(1)
77	1049.25	131.38	End Shut-In(1)
77	162.89	130.91	Open To Flow (2)
137	291.44	132.46	Shut-In(2)
228	1047.02	131.88	End Shut-In(2)
229	2031.65	132.12	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
240.00	MV 5%M 95%W	1.18
566.00	OSMV 40%M 60%W	7.94
5.00	OSMV 50%M 50%W	0.07

Gas Rates

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



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

Pfenninger 1C 33-1831

33-18-31 Scott KS

Job Ticket: 40201 DST#: 1
Test Start: 2010.08.27 @ 10:58:00

Tool Information

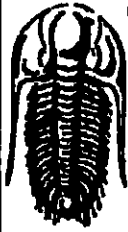
Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	55.35 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4106.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.50 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			4079.50	
Shut In Tool	5.00			4084.50	
Hydraulic tool	5.00			4089.50	
Jars	5.00			4094.50	
Safety Joint	2.50			4097.00	
Packer	5.00			4102.00	27.50 Bottom Of Top Packer
Packer	4.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	8357	inside	4107.00	
Recorder	0.00	6751	Outside	4107.00	
Perforations	10.00			4117.00	
Change Over Sub	1.00			4118.00	
Drill Pipe	31.00			4149.00	
Change Over Sub	1.00			4150.00	
Buffnose	3.00			4153.00	47.00 Bottom Packers & Anchor

Total Tool Length: 74.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Pfennlinger 1C 33-1831

410 17th Street
Suite 800
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40201 DST#: 1
Test Start: 2010.08.27 @ 10:58:00

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:	30000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.56 in*	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 Inches			

Recovery Information

Recovery Table

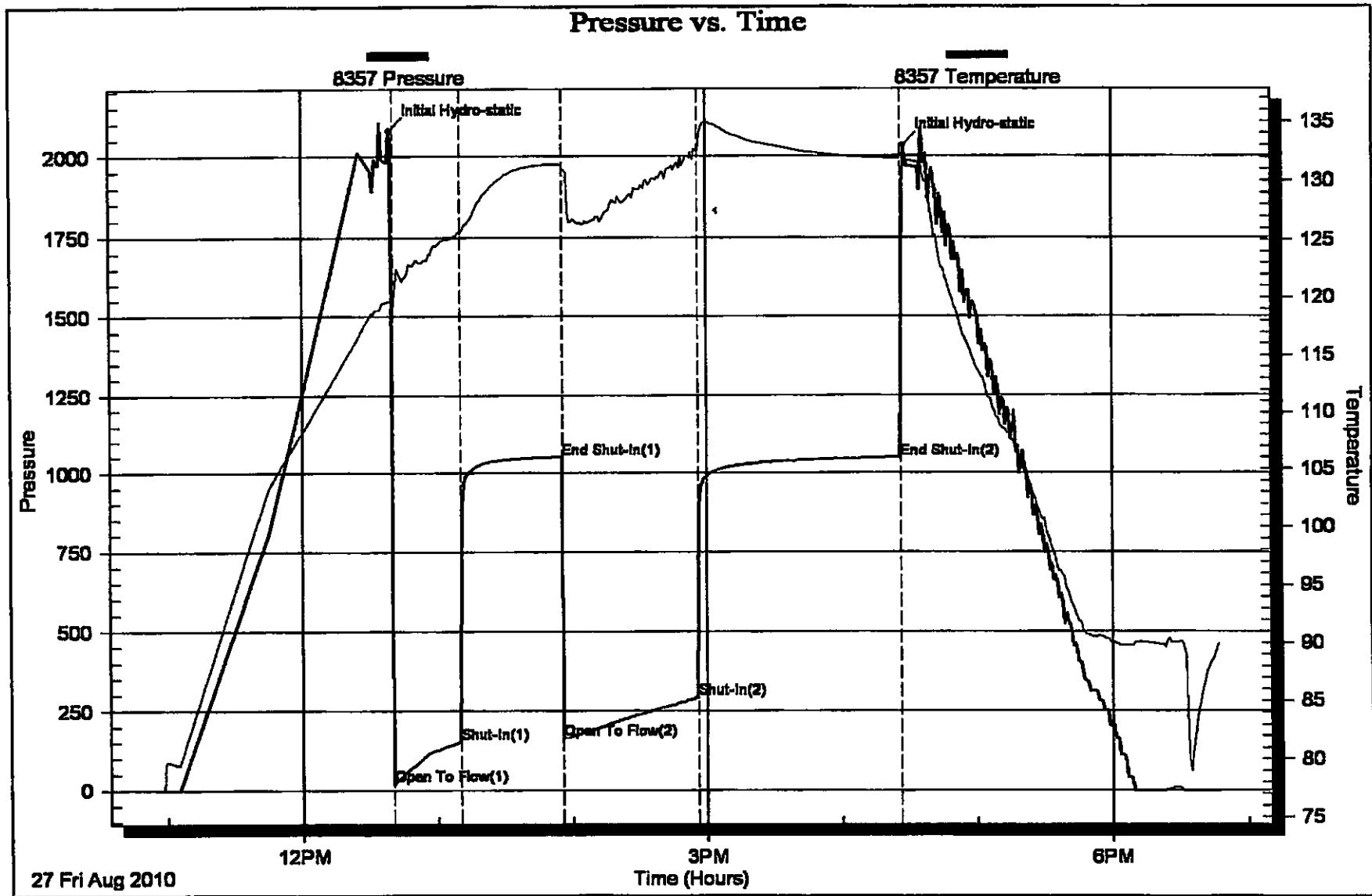
Length ft	Description	Volume bbl
240.00	MW 5%M 95%W	1.180
566.00	OSMW 40%M 60%W	7.939
5.00	OSMW 50%M 50%W	0.070

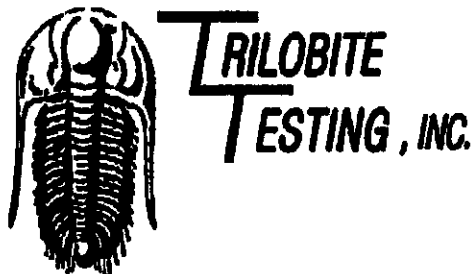
Total Length: 811.00 ft Total Volume: 9.189 bbl

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 Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

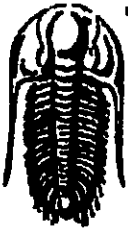
Pfenninger 1C 33-1831

Start Date: 2010.08.28 @ 03:22:00

End Date: 2010.08.28 @ 09:58:00

Job Ticket #: 40202 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

FML Natural Resources LLC
410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

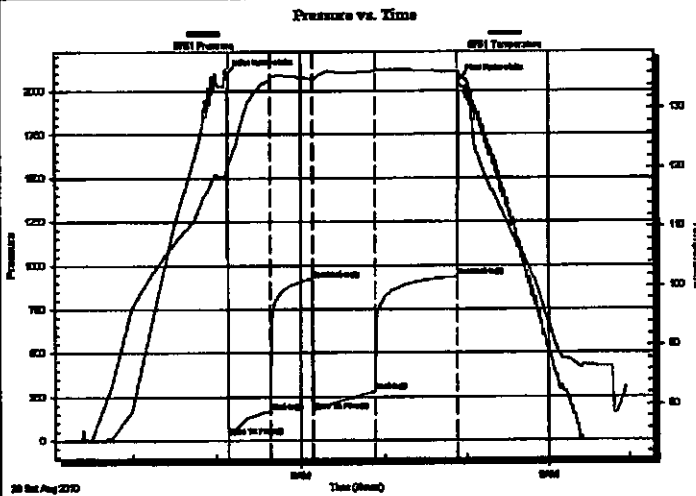
Pfenninger 1C 33-1831
33-18-31 Scott KS
Job Ticket: 40202 DST#: 2
Test Start: 2010.08.28 @ 03:22:00

GENERAL INFORMATION:

Formation: LKC 1P
Deviated: No Whipstock ft (KB)
Time Tool Opened: 05:08:00
Time Test Ended: 09:58:00
Interval: 4181.00 ft (KB) To 4206.00 ft (KB) (TVD)
Total Depth: 4206.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37
Reference Elevations: 2950.00 ft (KB)
2939.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 Outside
Press@RunDepth: 279.69 psig @ 4183.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.08.28 End Date: 2010.08.28 Last Calib.: 2010.08.28
Start Time: 03:22:05 End Time: 09:57:59 Time On Btm: 2010.08.28 @ 05:06:30
Time Off Btm: 2010.08.28 @ 07:54:30

TEST COMMENT: IF: B.O.B @ 15 min.
IST: No return.
FF: B.O.B @ 20 min.
FSt: No return.



PRESSURE SUMMARY

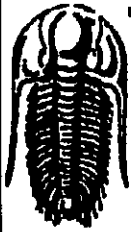
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.08	118.81	Initial Hydro-static
2	26.35	118.43	Open To Flow (1)
32	168.16	135.01	Shut-in(1)
62	923.44	135.10	End Shut-in(1)
63	173.41	134.82	Open To Flow (2)
107	279.69	136.37	Shut-in(2)
167	935.48	136.20	End Shut-in(2)
168	2065.18	135.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
550.00	MW 5%M 95%W	5.53
34.00	SOCMW 1%O 15%M 84%W	0.48
1.00	Clean Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

Pfenninger 1C 33-1831

33-18-31 Scott KS
Job Ticket: 40202 DST#: 2
Test Start: 2010.08.28 @ 03:22:00

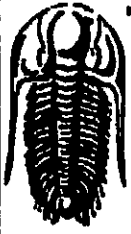
Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight: 2500.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	56.24 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4181.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.50 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			4154.50	
Shut In Tool	5.00			4159.50	
Hydraulic tool	5.00			4164.50	
Jars	5.00			4169.50	
Safety Joint	2.50			4172.00	
Packer	5.00			4177.00	27.50 Bottom Of Top Packer
Packer	4.00			4181.00	
Stubb	1.00			4182.00	
Perforations	1.00			4183.00	
Recorder	0.00	8357	Inside	4183.00	
Recorder	0.00	6751	Outside	4183.00	
Perforations	20.00			4203.00	
Bullnose	3.00			4206.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40202 DST#: 2
Test Start: 2010.08.28 @ 03:22:00

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:	31000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.56 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 Inches			

Recovery Information

Recovery Table

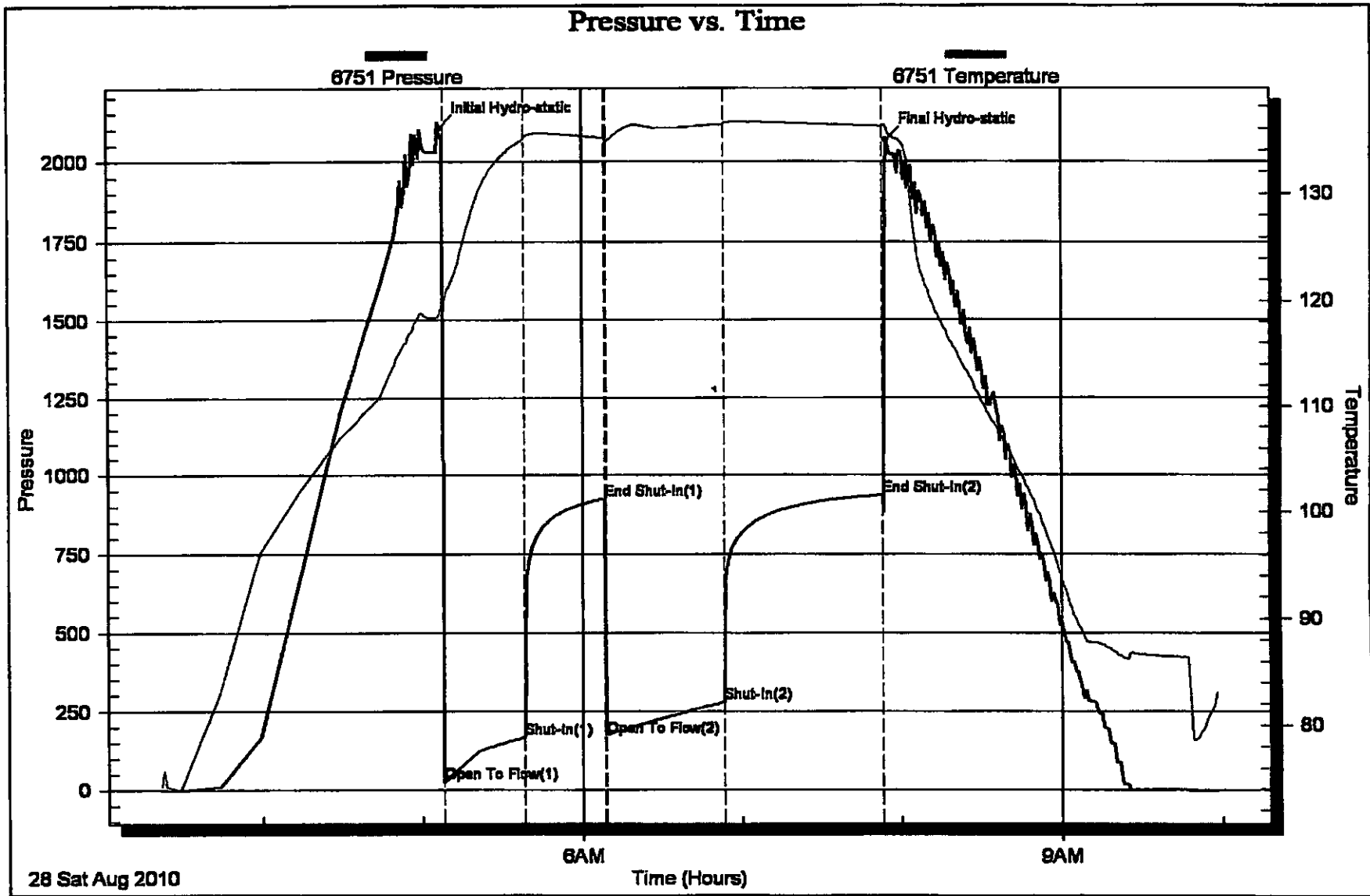
Length ft	Description	Volume bbl
550.00	MW 5%M 95%W	5.529
34.00	SOCMW 1%O 15%M 84%W	0.477
1.00	Clean Oil	0.014

Total Length: 585.00 ft Total Volume: 6.020 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 Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

Start Date: 2010.08.29 @ 01:27:30

End Date: 2010.08.29 @ 08:12:12

Job Ticket #: 40203 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

FIML Natural Resources LLC

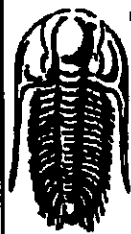
Pfenninger 1C 33-1831

33-18-31 Scott KS

DST # 3

LRC "JL"

2010.08.29



**TRILOBITE
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DRILL STEM TEST REPORT

FML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS

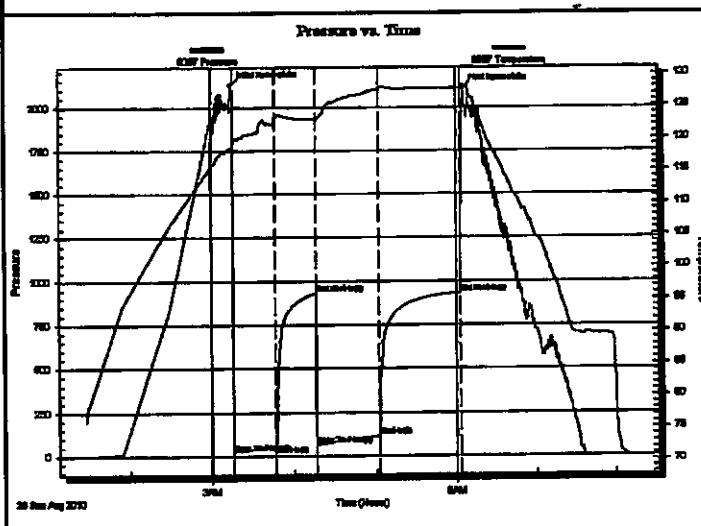
Job Ticket: 40203 DST#: 3
Test Start: 2010.08.29 @ 01:27:30

GENERAL INFORMATION:

Formation: LKC "J-L"	Test Type: Conventional Bottom Hole
Deviated: No Whipstock ft (KB)	Tester: Chuck Smith
Time Tool Opened: 03:16:12	Unit No: 37
Time Test Ended: 08:12:12	Reference Elevations: 2950.00 ft (KB)
Interval: 4210.00 ft (KB) To 4319.00 ft (KB) (TVD)	2939.00 ft (CF)
Total Depth: 4319.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8357 Inside	Capacity: 8000.00 psig
Press@RunDepth: 114.95 psig @ 4211.00 ft (KB)	Last Calib.: 2010.08.29
Start Date: 2010.08.29 End Date: 2010.08.29	Time On Btm: 2010.08.29 @ 03:14:18
Start Time: 01:27:35 End Time: 08:12:12	Time Off Btm: 2010.08.29 @ 06:04:54

TEST COMMENT: F: 3 1/2" Blow.
ISF: No return.
FF: 2 1/2" Blow.
FSt: No return.



PRESSURE SUMMARY

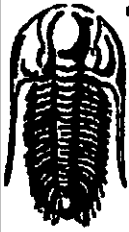
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.88	118.46	Initial Hydro-static
2	24.64	117.64	Open To Flow (1)
33	59.11	123.14	Shut-in(1)
63	933.29	123.01	End Shut-in(1)
63	65.13	122.53	Open To Flow (2)
108	114.95	127.70	Shut-in(2)
169	934.76	127.82	End Shut-in(2)
171	2103.61	128.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCWM 3%O 25%W 72%M	0.30
120.00	OSM 100%M	0.59
30.00	SOCM 1%O 99%M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

Pfenninger 1C 33-1831

33-18-31 Scott KS

Job Ticket: 40203

DST#: 3

Test Start: 2010.08.29 @ 01:27:30

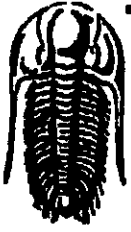
Tool Information

Drill Pipe:	Length: 3956.00 ft	Diameter: 3.80 inches	Volume: 55.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	56.67 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.50 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4210.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.00 ft			
Tool Length:	136.50 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			4183.50	
Shut In Tool	5.00			4188.50	
Hydraulic tool	5.00			4193.50	
Jars	5.00			4198.50	
Safety Joint	2.50			4201.00	
Packer	5.00			4206.00	27.50 Bottom Of Top Packer
Packer	4.00			4210.00	
Stubb	1.00			4211.00	
Recorder	0.00	8357	Inside	4211.00	
Recorder	0.00	6751	Outside	4211.00	
Perforations	10.00			4221.00	
Change Over Sub	1.00			4222.00	
Drill Pipe	93.00			4315.00	
Change Over Sub	1.00			4316.00	
Bullnose	3.00			4319.00	109.00 Bottom Packers & Anchor

Total Tool Length: 136.50



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DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
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Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40203 DST#: 3
Test Start: 2010.08.29 @ 01:27:30

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.94 in³
Resistivity: 0.00 ohm.m
Salinity: 1300.00 ppm
Filter Cake: 1.00 inches

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

OI/API: 0 deg API
Water Salinity: 27000 ppm

Recovery Information

Recovery Table

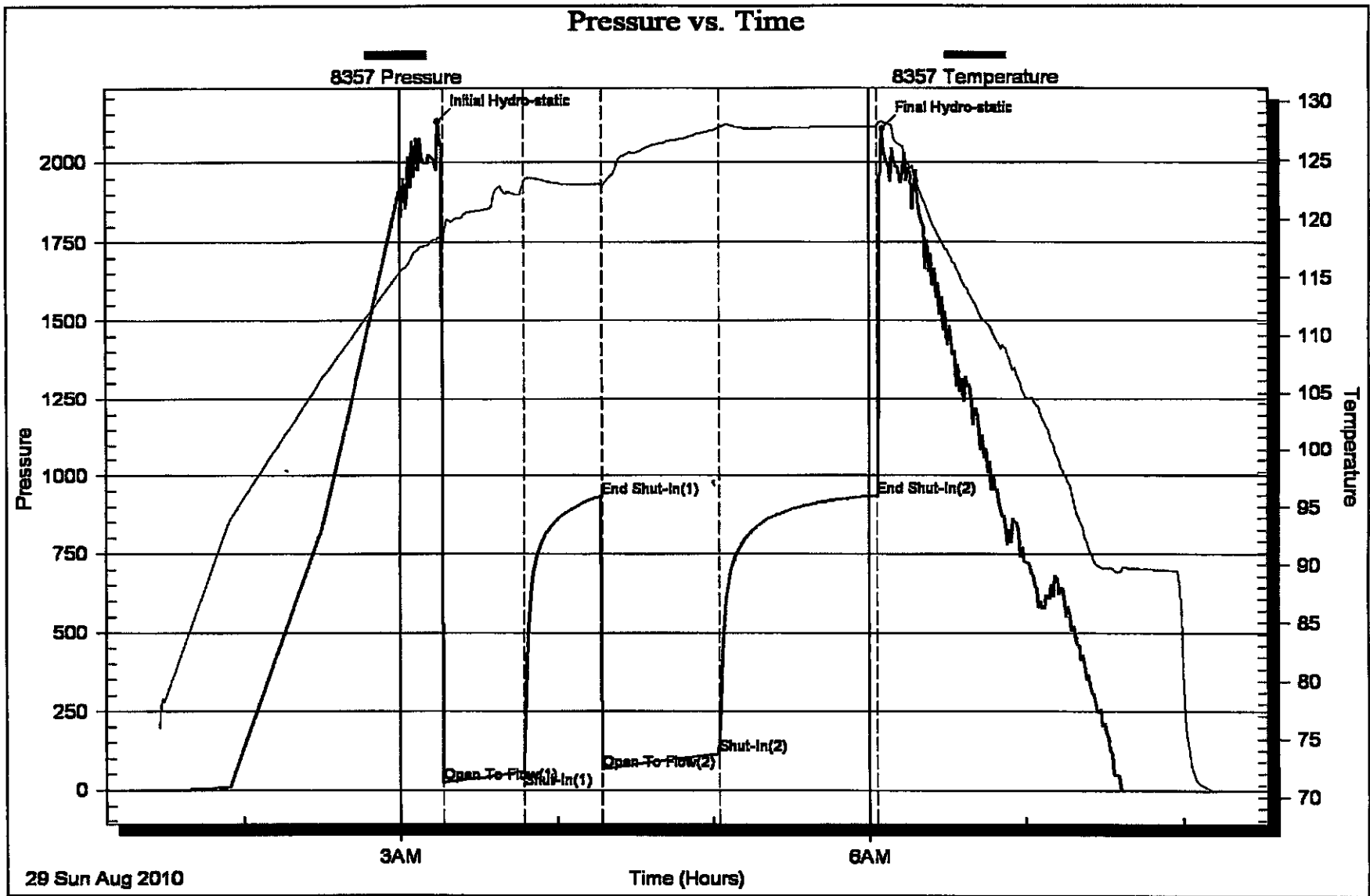
Length ft	Description	Volume bbl
60.00	SOCWM 3%O 25%W 72%M	0.295
120.00	OSM 100%M	0.590
30.00	SOCM 1%O 99%M	0.148

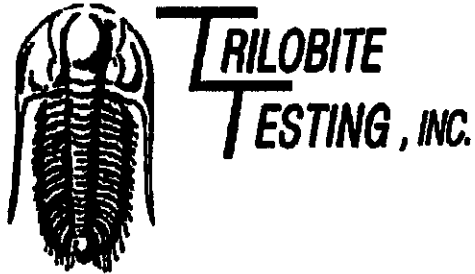
Total Length: 210.00 ft Total Volume: 1.033 bbl

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 Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

Start Date: 2010.08.29 @ 20:38:00

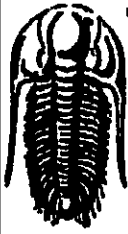
End Date: 2010.08.30 @ 00:51:54

Job Ticket #: 40204 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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DRILL STEM TEST REPORT

FML Natural Resources LLC

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ATTN: Jim Musgrove

Pfenninger 1C 33-1831

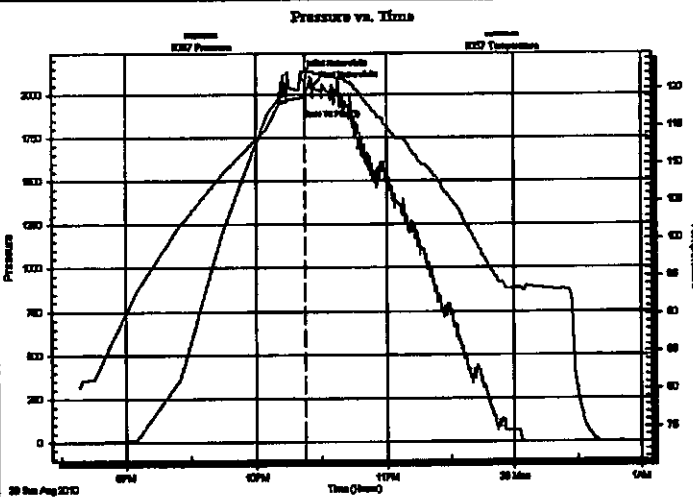
33-18-31 Scott KS
Job Ticket: 40204 DST#: 4
Test Start: 2010.08.29 @ 20:38:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **22:22:36**
Time Test Ended: **00:51:54**
Interval: **4301.00 ft (KB) To 4400.00 ft (KB) (TVD)**
Total Depth: **4400.00 ft (KB) (TVD)**
Hole Diameter: **7.88 Inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2950.00 ft (KB)**
2939.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: **8357** inside
Press@RunDepth: psig @ **4304.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.29** End Date: **2010.08.30** Last Calib.: **2010.08.30**
Start Time: **20:38:05** End Time: **00:51:54** Time On Btrr: **2010.08.29 @ 22:20:48**
Time Off Btrr: **2010.08.29 @ 22:26:06**

TEST COMMENT: **F: Packer seat failed, reset tool, packer seat failed, pulled tool.**



PRESSURE SUMMARY

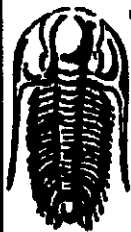
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.52	118.85	Initial Hydro-static
2	1860.91	120.64	Open To Flow (1)
6	2048.28	122.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
457.00	DM 100%M	4.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40204 **DST#: 4**
Test Start: 2010.08.29 @ 20:38:00

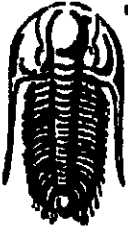
Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.80 inches	Volume: 56.81 bbl	Tool Weight: 2500.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 64000.00 lb
		Total Volume:	57.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4301.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.00 ft			
Tool Length:	126.50 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			4274.50	
Shut In Tool	5.00			4279.50	
Hydraulic tool	5.00			4284.50	
Jars	5.00			4289.50	
Safety Joint	2.50			4292.00	
Packer	6.00			4297.00	27.50 Bottom Of Top Packer
Packer	4.00			4301.00	
Stubb	1.00			4302.00	
Perforations	2.00			4304.00	
Recorder	0.00	8357	Inside	4304.00	
Recorder	0.00	6751	Outside	4304.00	
Perforations	29.00			4333.00	
Change Over Sub	1.00			4334.00	
Drill Pipe	62.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	99.00 Bottom Packers & Anchor
Total Tool Length:	126.50				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
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Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40204 DST#: 4
Test Start: 2010.08.29 @ 20:38:00

Mud and Cushion Information

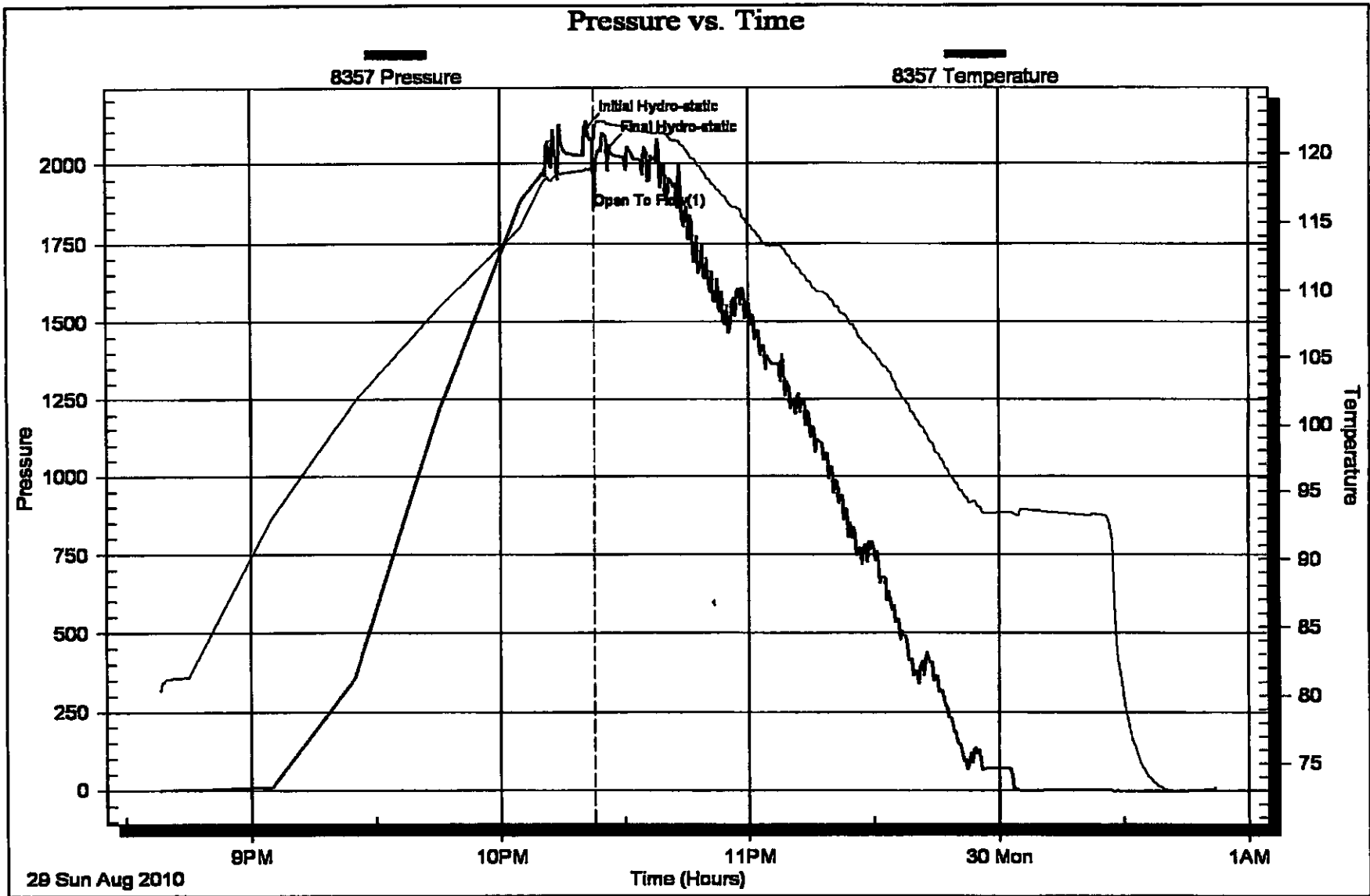
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
457.00	DM 100%M	4.224

Total Length: 457.00 ft Total Volume: 4.224 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 Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

Start Date: 2010.08.30 @ 01:03:00

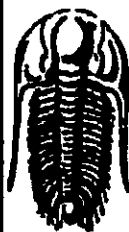
End Date: 2010.08.30 @ 10:21:47

Job Ticket #: 40205 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

FML Natural Resources LLC

410 17th Street
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ATTN: Jim Musgrove

Pfenninger 1C 33-1831

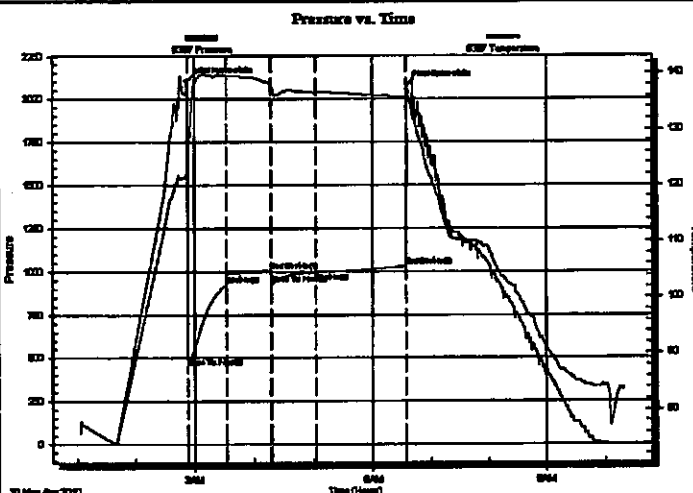
33-18-31 Scott KS
Job Ticket: 40205 DST#: 6
Test Start: 2010.08.30 @ 01:03:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **02:53:30**
Time Test Ended: **10:21:47**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Interval: **4287.00 ft (KB) To 4400.00 ft (KB) (TVD)**
Reference Elevations: **2950.00 ft (KB)**
Total Depth: **4400.00 ft (KB) (TVD)** **2939.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Good** **KB to GR/CF: 11.00 ft**

Serial #: **8357** Inside
Press@RunDepth: **995.75 psig @ 4292.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.30** End Date: **2010.08.30** Last Calib.: **2010.08.30**
Start Time: **01:03:05** End Time: **10:21:48** Time On Btm: **2010.08.30 @ 02:52:12**
Time Off Btm: **2010.08.30 @ 06:35:12**

TEST COMMENT: **F: B.O.B. @ 1 min.**
1st B.O.B. @ 16 min.
FF: B.O.B. @ 4 min.
FSt Weak return died @ 7 min.



PRESSURE SUMMARY

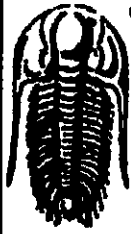
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.06	122.03	Initial Hydro-static
2	454.48	123.66	Open To Flow (1)
41	924.40	139.62	Shut-in(1)
86	1005.36	138.17	End Shut-in(1)
86	931.09	138.04	Open To Flow (2)
131	995.75	138.53	Shut-in(2)
222	1030.71	135.69	End Shut-in(2)
224	2079.29	138.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GOCM 10%G 20%O 70%M	0.89
620.00	GO 20%G 80%O	8.15
1825.00	GO 30%G 70%O	25.60
0.00	340 Feet Weak GP	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

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40205 **DST#: 5**
Test Start: 2010.08.30 @ 01:03:00

Tool Information

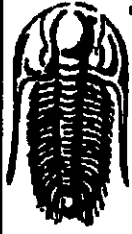
Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	58.00 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	27.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4287.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.00 ft			
Tool Length:	140.50 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			4284.50	
Shut In Tool	5.00			4289.50	
Hydraulic tool	5.00			4274.50	
Jars	5.00			4279.50	
Safety Joint	2.50			4282.00	
Packer	5.00			4287.00	23.50 Bottom Of Top Packer
Packer - Shale	4.00			4291.00	
Stubb	1.00			4292.00	
Recorder	0.00	8357	Inside	4292.00	
Recorder	0.00	6751	Outside	4292.00	
Perforations	14.00			4306.00	
Change Over Sub	1.00			4307.00	
Drill Pipe	93.00			4400.00	
Change Over Sub	1.00			4401.00	
Bulhose	3.00			4404.00	117.00 Anchor Tool

Total Tool Length: 140.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Pfanninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40205 DST#: 5
Test Start: 2010.08.30 @ 01:03:00

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:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

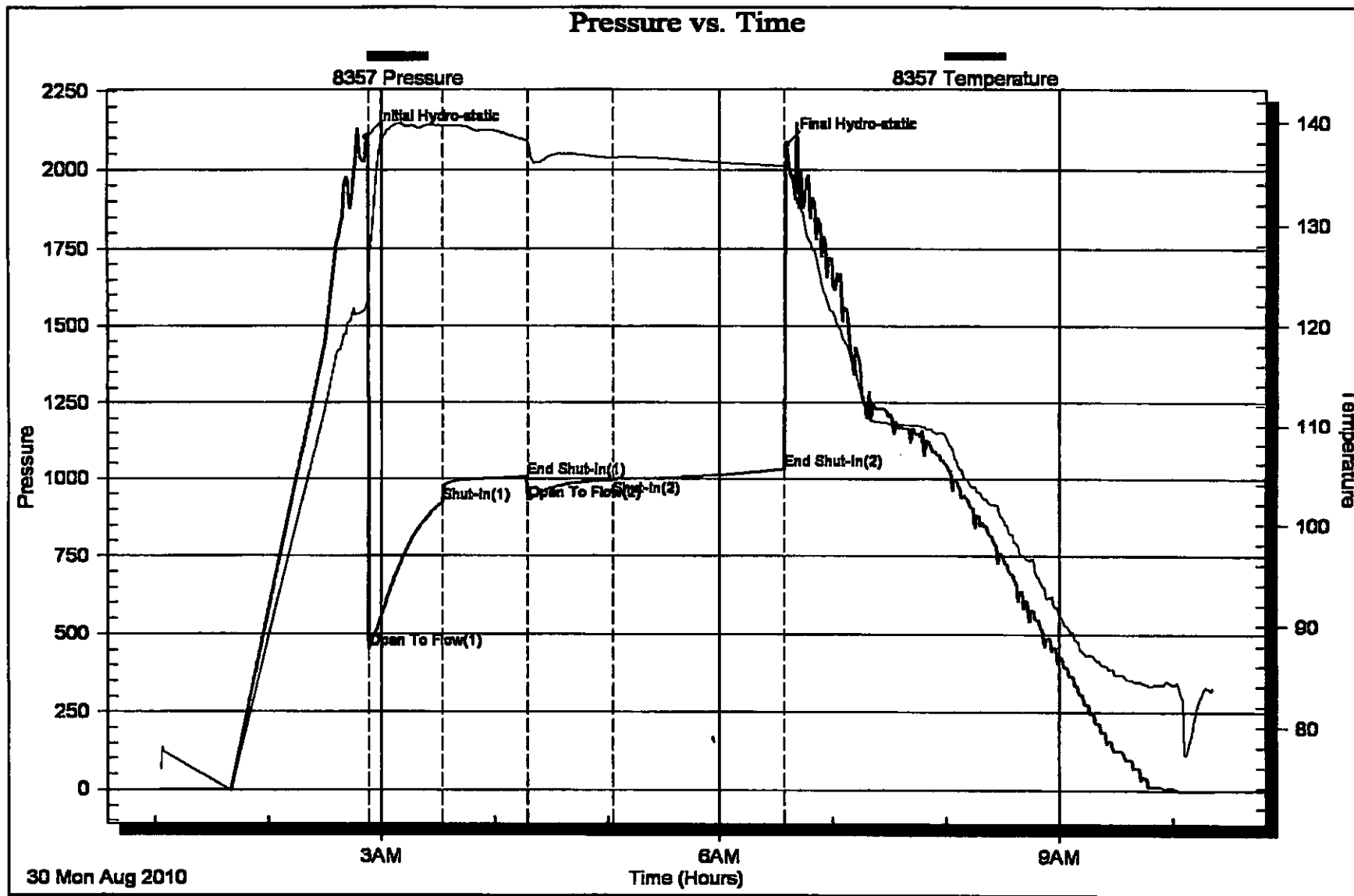
Length ft	Description	Volume bbl
180.00	GOCM 10%G 20%O 70%M	0.885
620.00	GO 20%G 80%O	8.150
1825.00	GO 30%G 70%O	25.600
0.00	340 Feet Weak GIP	0.000

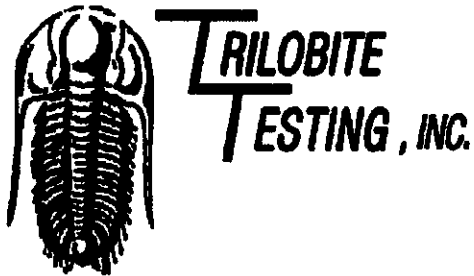
Total Length: 2625.00 ft Total Volume: 34.635 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API 29 @ 60 Degrees F = 29





DRILL STEM TEST REPORT

Prepared For: **FIML Natural Resources LLC**

410 17th Street
Suite 900
Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

Start Date: 2010.08.31 @ 04:41:00

End Date: 2010.08.31 @ 12:48:54

Job Ticket #: 40206 DST #: 6

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

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

Pfenninger 1C 33-1831

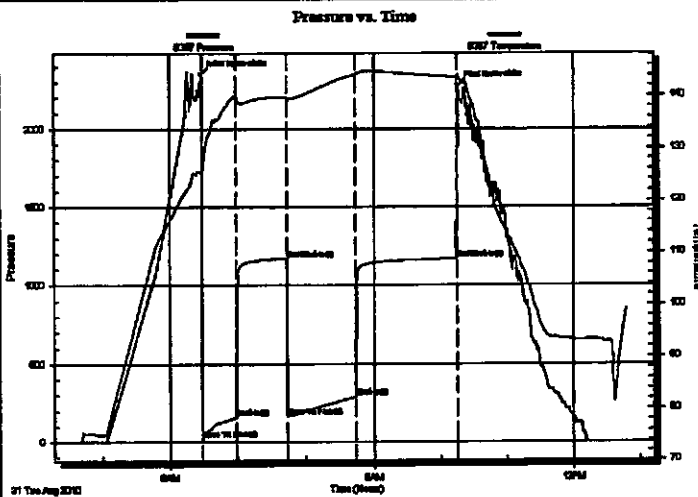
33-18-31 Scott KS
Job Ticket: 40206 DST#: 6
Test Start: 2010.08.31 @ 04:41:00

GENERAL INFORMATION:

Formation: **Spergen**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **06:28:54**
Time Test Ended: **12:48:54**
Interval: **4578.00 ft (KB) To 4604.00 ft (KB) (TVD)**
Total Depth: **4604.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2950.00 ft (KB)**
2939.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: **8357** Inside
Press@RunDepth: **290.57 psig @ 4581.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.31** End Date: **2010.08.31** Last Calib.: **2010.08.31**
Start Time: **04:41:05** End Time: **12:48:54** Time On Btm: **2010.08.31 @ 06:27:24**
Time Off Btm: **2010.08.31 @ 10:15:36**

TEST COMMENT: **F: B.O.B. @ 22 min.**
St 2" Return.
FF: B.O.B. @ 16 min.
FSt 1 1/2" Return.



PRESSURE SUMMARY

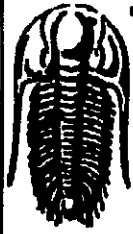
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2350.20	125.39	Initial Hydro-static
2	23.71	124.79	Open To Flow (1)
32	159.01	140.21	Shut-in(1)
77	1169.88	139.70	End Shut-in(1)
77	169.06	139.24	Open To Flow (2)
137	290.57	144.05	Shut-in(2)
228	1167.70	143.58	End Shut-in(2)
229	2276.66	143.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	OSMW 15%M 85%W	1.18
124.00	GOMCW 5%G 10%O 15%M 70%W	1.74
341.00	GO 20%G 80%O	4.78
0.00	341 Feet GIP	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

Pfenninger 1C 33-1831

410 17th Street
Suite 800
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS

Job Ticket: 40206

DST#: 6

Test Start: 2010.08.31 @ 04:41:00

Tool Information

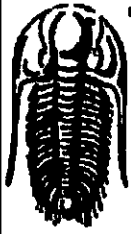
Drill Pipe:	Length: 4336.00 ft	Diameter: 3.80 inches	Volume: 60.82 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	62.00 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4578.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4559.00	
Shut In Tool	5.00			4564.00	
Hydraulic tool	5.00			4569.00	
Packer	5.00			4574.00	20.00 Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Perforations	2.00			4581.00	
Recorder	0.00	8357	inside	4581.00	
Recorder	0.00	6751	Outside	4581.00	
Perforations	20.00			4601.00	
Bullnose	3.00			4604.00	26.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Pfenninger 1C 33-1831

410 17th Street
Suite 900
Denver, CO 80202-4420
ATTN: Jim Musgrove

33-18-31 Scott KS
Job Ticket: 40206 **DST#: 6**
Test Start: 2010.08.31 @ 04:41:00

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: 13000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

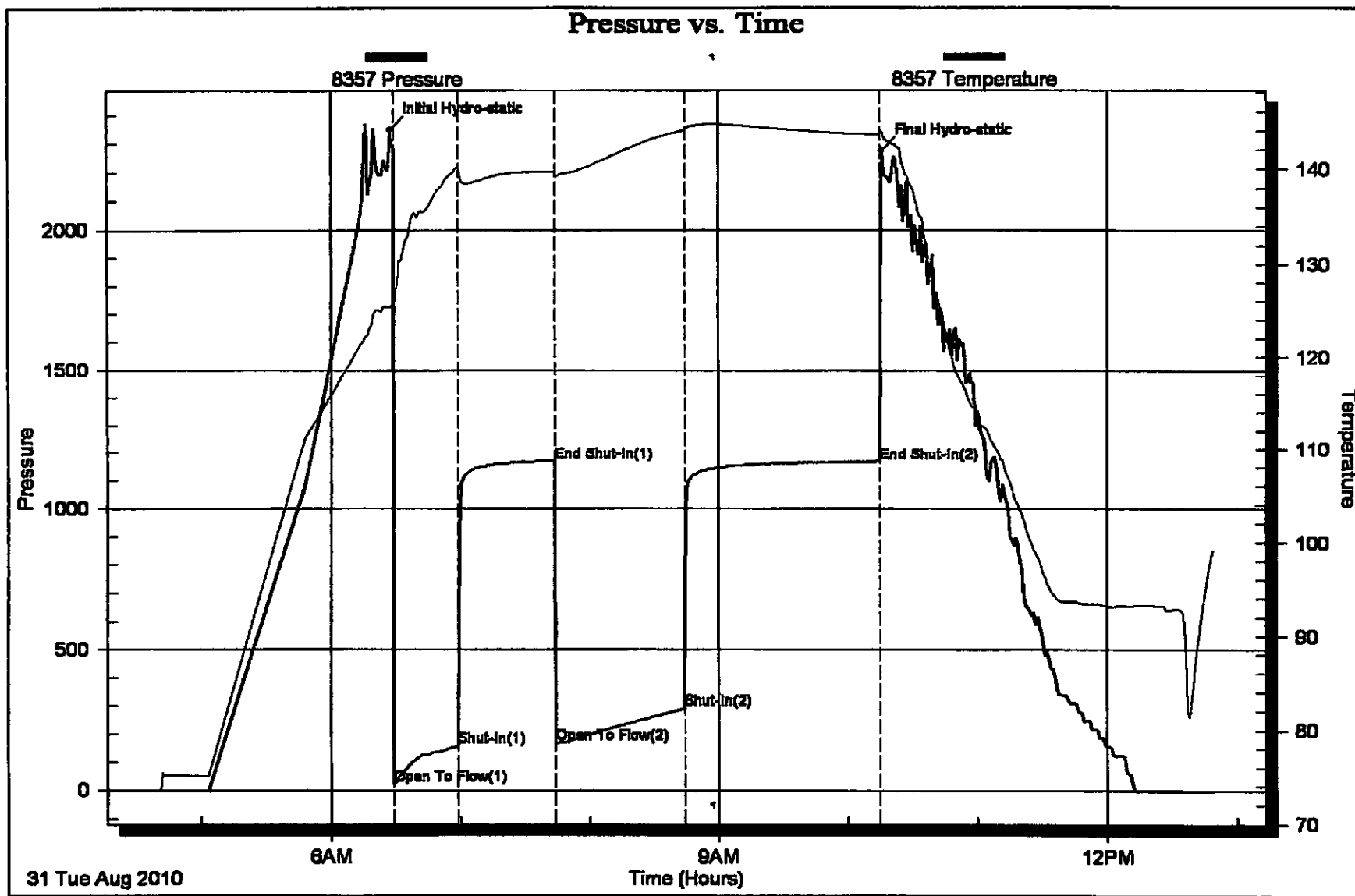
Length ft	Description	Volume bbl
240.00	OSMW 15%M 85%W	1.180
124.00	GOMCW 5%G 10%O 15%M 70%W	1.739
341.00	GO 20%G 80%O	4.783
0.00	341 Feet GIP	0.000

Total Length: 705.00 ft Total Volume: 7.702 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API: 33 @ 100 Degrees F=29.





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

NO. 040201

Well Name & No. Pfenninger 1C 33-1831 Test No. 1 Date 8-27-10
 Company FIML Elevation 2950 KB 2939 GL
 Address 410 17th St. Ste. 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrave Rig M-21
 Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State Ks

Interval Tested 4106 - 4153 Zone Tested LKC '6'
 Anchor Length 47 Drill Pipe Run 3862 Mud Wt. 9.2
 Top Packer Depth 4102 Drill Collars Run 240 Vis 48
 Bottom Packer Depth 4106 Wt. Pipe Run 0 WL 7.6
 Total Depth 4153 Chlorides 1,100 ppm System LCM 8
 Blow Description IF: B.O.B. @ 18 1/2 min
ISE: No return
FF: B.O.B. @ 36 min
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>OSMW</u>	%gas	%oil <u>50</u>	%water <u>50</u>	%mud
Rec <u>566</u>	Feet of <u>OSMW</u>	%gas	%oil <u>60</u>	%water <u>40</u>	%mud
Rec <u>240</u>	Feet of <u>MW</u>	%gas	%oil <u>95</u>	%water <u>5</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 811 BHT 132 Gravity - API RW .175 @ 91 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 2079 Test 1,225" T-On Location 10:20
 (B) First Initial Flow 19 Jars 250" T-Started 10:58
 (C) First Final Flow 153 Safety Joint 75 T-Open 12:40
 (D) Initial Shut-In 1049 Circ Sub NIC T-Pulled 16:26
 (E) Second Initial Flow 163 Hourly Standby T-Out 18:47
 (F) Second Final Flow 291 Mileage 24RT 30" Comments
 (G) Final Shut-In 1047 Sampler
 (H) Final Hydrostatic 2032 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1580
 Accessibility MP/DST Disc't
 Sub Total 1580

Approved By [Signature] Our Representative Chuck Smith

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 1739 • Hays, Kansas 67601

RECEIVED
SEP 02 2010
BY: _____

Test Ticket

NO. 040202

Well Name & No. Pfenninger IC 33-1831 Test No. 2 Date 8-28-10
 Company FIML Elevation 2950 KB 2939 GL
 Address 410 17th St. Ste. 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrave Rig MDC #21
 Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State Ks

Interval Tested 4181-4206 Zone Tested LKC 'I'
 Anchor Length 25 Drill Pipe Run 3925 Mud Wt. 9.4
 Top Packer Depth 4177 Drill Collars Run 240 Vis 50
 Bottom Packer Depth 4181 Wt. Pipe Run 0 WL 7.6
 Total Depth 4206 Chlorides 1,100 ppm System LCM 5
 Blow Description IF: B.O.B. @ 15 min.
IST: No return.
FF: B.O.B. @ 20 min.
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>CO</u>	%gas <u>100</u>	%oil	%water	%mud
Rec <u>34</u>	Feet of <u>SOCMW</u>	%gas <u>1</u>	%oil <u>84</u>	%water <u>15</u>	%mud
Rec <u>550</u>	Feet of <u>MW</u>	%gas	%oil <u>95</u>	%water <u>5</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 585 BHT 136 Gravity — API RW .200 @ 77 °F Chlorides 31,000 ppm

(A) Initial Hydrostatic <u>2102</u>	<input type="checkbox"/> Test <u>1,225</u>	T-On Location <u>3:10</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>1:22</u>
(C) First Final Flow <u>168</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:08</u>
(D) Initial Shut-In <u>923</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:53</u>
(E) Second Initial Flow <u>173</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:58</u>
(F) Second Final Flow <u>280</u>	<input type="checkbox"/> Mileage <u>24RT 30'</u>	Comments _____
(G) Final Shut-In <u>9.35</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2,065</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1580</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1580</u>	

Approved By [Signature] Our Representative Chuck Smith

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.



TRIOBITE TESTING INC.

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RECEIVED
SEP 02 2010

Test Ticket

NO. 040203

BY: _____

Well Name & No. Pfenninger 1C 33-1831 Test No. 3 Date 8-29-10

Company ETML Elevation 2950 KB 2939 GL _____

Address 410 17th St. Ste. 900 Denver, CO 80202

Co. Rep / Geo. Gary Duke, Jim Musgrave Rig MDC #21

Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State Ks

Interval Tested 4210 - 4319 Zone Tested LKC 'J, K, L'

Anchor Length 4206 109 Drill Pipe Run 3956 Mud Wt. 9.3

Top Packer Depth 4206 Drill Collars Run 240 Vis 51

Bottom Packer Depth 4210 Wt. Pipe Run 0 WL 8.0

Total Depth 4319 Chlorides 1,300 ppm System LCM 5

Blow Description IF: 3 1/2" Blow

IST: No return

FF: 2 1/2" Blow

FST: No return

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>30</u>	Feet of <u>SOCM</u>	%gas	<u>1</u> %oil	%water <u>99</u>	%mud
Rec <u>120</u>	Feet of <u>OSM</u>	%gas	%oil	%water <u>100</u>	%mud
Rec <u>60</u>	Feet of <u>SOCWM</u>	%gas	<u>3</u> %oil	<u>25</u> %water	<u>72</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 210 BHT 128 Gravity — API RW 250 @ 70 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 2126 Test 1225 T-On Location 1:10

(B) First Initial Flow 25 Jars 250 T-Started 1:27

(C) First Final Flow 59 Safety Joint 75 T-Open 3:16

(D) Initial Shut-In 933 Circ Sub NK T-Pulled 6:03

(E) Second Initial Flow 65 Hourly Standby _____ T-Out 8:12

(F) Second Final Flow 115 Mileage 24 30 Comments _____

(G) Final Shut-In 935 Sampler _____

(H) Final Hydrostatic 2104 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____

Initial Shut-In 30 Extra Packer _____ Ruined Packer _____

Final Flow 45 Extra Recorder _____ Extra Copies _____

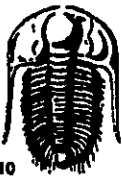
Final Shut-In 60 Day Standby _____ Sub Total 0

Accessibility _____ Total 1580

Sub Total 1580 MP/DST Disc't _____

Approved By [Signature] Our Representative Chuck Smith

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personal 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

RECEIVE

SEP 02 2010

Test Ticket

NO. 040204

Well Name & No. Pfeenneger 1C 33-1831 Test No. 4 Date 8-29-10
 Company FIML Elevation 2950 KB 2939 GL
 Address 410 17th St. Ste. 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrave Rig MDC #21
 Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State K5

Interval Tested 4301-4400 Zone Tested Marmaton
 Anchor Length 99 Drill Pipe Run 4050 Mud Wt. 9.2
 Top Packer Depth 4297 Drill Collars Run 240 Vis 54
 Bottom Packer Depth 4301 Wt. Pipe Run 0 WL 7.2
 Total Depth 4400 Chlorides 1,200 ppm System LCM 4
 Blow Description IP: Packer seat failed, reset tool, packer seat failed, pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>457</u>	Feet of <u>DM</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 457 BHT - Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2114</u>	<input type="checkbox"/> Test <u>1,025-</u>	T-On Location <u>20:20</u>
(B) First Initial Flow <u>1,861</u>	<input type="checkbox"/> Jars <u>250-</u>	T-Started <u>20:38</u>
(C) First Final Flow <u>N/A</u>	<input type="checkbox"/> Safety Joint <u>75-</u>	T-Open <u>22:23</u>
(D) Initial Shut-In <u> }</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>22:26</u>
(E) Second Initial Flow <u> }</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:52</u>
(F) Second Final Flow <u> }</u>	<input type="checkbox"/> Mileage <u>24</u> <u>30-</u>	Comments
(G) Final Shut-In <u> }</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2048</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>N/A</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u> }</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u> }</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u> }</u>	<input type="checkbox"/> Day Standby	Total <u>1380-</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1380-</u>	

Approved By [Signature] Our Representative Chuck Smith
 Trilobite Testing Inc. shall not be liable for damages 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.



TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
SEP 02 2010
BY: _____

Test Ticket

NO. 040205

Well Name & No. Pfenneger 1C 33-1831 Test No. 5 Date 8-30-10
 Company ETML Elevation 2950 KB 2938 GL
 Address 410 17th St. Ste 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrave Rig MDC #21
 Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State Ks

Interval Tested 4287-4400 Zone Tested Marmaton
 Anchor Length 113 Drill Pipe Run 40.51 Mud Wt. 9.2
 Top Packer Depth 4283 Drill Collars Run 240 Vis 54
 Bottom Packer Depth 4287 Wt. Pipe Run 0 WL 2.2
 Total Depth 4400 Chlorides 1,200 ppm System LCM 4

Blow Description IF: B.O.B. 1 min.
IST: B.O.B. @ 16 min.
FF: B.O.B. @ 4 min.
FST: Weak return died @ 7 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1825</u>	Feet of <u>60</u>	<u>30</u> %gas	<u>70</u> %oil	%water	%mud
Rec <u>620</u>	Feet of <u>60</u>	<u>20</u> %gas	<u>80</u> %oil	%water	%mud
Rec <u>180</u>	Feet of <u>60CM</u>	<u>10</u> %gas	<u>20</u> %oil	%water	<u>70</u> %mud

Rec Total 2625 BHT 134 Gravity 29 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2103</u>	<input type="checkbox"/> Test <u>1,225</u>	T-On Location <u>10:53</u>
(B) First Initial Flow <u>454</u>	<input type="checkbox"/> Jars <u>250-</u>	T-Started <u>1:03</u>
(C) First Final Flow <u>924</u>	<input type="checkbox"/> Safety Joint <u>75-</u>	T-Open <u>2:54</u>
(D) Initial Shut-In <u>1005</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>6:34</u>
(E) Second Initial Flow <u>931</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:22</u>
(F) Second Final Flow <u>996</u>	<input type="checkbox"/> Mileage <u>24 get shale 30-</u>	Comments <u>340' GI (Weak)</u>
(G) Final Shut-In <u>1031</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2,079</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

Initial Open 38 (slip problems) Extra Packer
 Initial Shut-In 45 Extra Recorder
 Final Flow 45 Day Standby
 Final Shut-In 90 Accessibility
 Sub Total 1830'

Approved By [Signature] Our Representative Chuck Smith

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personal 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. 040206

RECEIVED
SEP 02 2010

Well Name & No. Pfenninger 1C 33-1831 Test No. 6 Date 8-31-10
 Company FIMK BY: _____ Elevation 29.50 KB 29.38 GL _____
 Address 410 17th St. Ste 900 Denver, CO 80202
 Co. Rep / Geo. Gary Duke / Jim Musgrave Rig MDC #21
 Location: Sec. 33 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4578-4604 Zone Tested Spergen
 Anchor Length 24 26 Drill Pipe Run 4336 Mud Wt. 9.2
 Top Packer Depth 4574 Drill Collars Run 240 Vis 57
 Bottom Packer Depth 4578 Wt. Pipe Run 0 WL 6.4
 Total Depth 4604 Chlorides 1300 ppm System LCM 6

Blow Description IF: B.O.B. @ 22 min.
ISL: 2" Return.
FF: B.O.B. @ 16 min.
FSL: 1 1/2" Return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>34</u>	Feet of <u>60</u>	<u>20</u> %gas	<u>80</u> %oil	%water	%mud
Rec <u>124</u>	Feet of <u>GOMCV</u>	<u>5</u> %gas	<u>10</u> %oil	<u>70</u> %water	<u>15</u> %mud
Rec <u>240</u>	Feet of <u>OSMW</u>	%gas	%oil	<u>85</u> %water	<u>15</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 705 BHT 144 Gravity 29 API RW .360 @ 102 °F Chlorides 13,000 ppm

(A) Initial Hydrostatic 2350 Test 1225 T-On Location 4:15
 (B) First Initial Flow 24 Jars _____ T-Started 4:41
 (C) First Final Flow 159 Safety Joint _____ T-Open 6:29
 (D) Initial Shut-In 1,170 Circ Sub NIC T-Pulled 10:15
 (E) Second Initial Flow 169 Hourly Standby _____ T-Out 12:49
 (F) Second Final Flow 291 Mileage 24 30 Comments _____
 (G) Final Shut-In 1,168 Sampler _____ 341' GIP
 (H) Final Hydrostatic 2,277 Straddle _____

Ruined Shale Packer _____
 Ruined Packer 250
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90
 Sub Total 2105
 Total 1515
 MP/DST Disc't _____
 Sub Total 1255

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