

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1203206

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- | | | | |
|--|---|-------------------------------------|-------------------------------|
| ☐ New Well | ☐ Re-Entry | ☐ Workover | |
| ☐ Oil | ☐ WSW | ☐ SWD | ☐ SIOW |
| ☐ Gas | ☐ D&A | ☐ ENHR | ☐ SIGW |
| ☐ OG | ☐ GSW | ☐ Temp. Abd. | |
| ☐ CM (Coal Bed Methane) | | | |
| ☐ Cathodic | ☐ Other (Core, Expl., etc.): _____ | | |

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- | | | | |
|--|---------------------------------------|--|---------------------------------------|
| ☐ Deepening | ☐ Re-perf. | ☐ Conv. to ENHR | ☐ Conv. to SWD |
| ☐ Plug Back | ☐ Conv. to GSW | ☐ Conv. to Producer | |
| ☐ Commingled | Permit #: _____ | | |
| ☐ Dual Completion | Permit #: _____ | | |
| ☐ SWD | Permit #: _____ | | |
| ☐ ENHR | Permit #: _____ | | |
| ☐ GSW | Permit #: _____ | | |

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

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

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:			☐ Yes	☐ No
Date of First, Resumed Production, SWD or ENHR.			Producing Method:						
			☐ Flowing	☐ Pumping	☐ Gas Lift	☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	FIML Natural Resources, LLC
Well Name	Hibbert 04D-20-2029
Doc ID	1203206

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	437	Class A	275	2%gel, 3%Cacl



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 142302

Invoice Date: Apr 4, 2014

Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
FIML	62028	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 4, 2014	5/4/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hibbert #04D-20-2029		
270.00	CEMENT MATERIALS	Class A Common	17.90	4,833.00
5.00	CEMENT MATERIALS	Gel	23.40	117.00
10.00	CEMENT MATERIALS	Chloride	64.00	640.00
67.50	CEMENT MATERIALS	Flo Seal	2.97	200.48
296.46	CEMENT SERVICE	Cubic Feet Charge	2.48	735.22
668.00	CEMENT SERVICE	Ton Mileage Charge	2.60	1,736.80
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
4.00	EQUIPMENT SALES	8-5/8 Centralizer	75.00	300.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Adam Flipse		
1.00	JOB DISCOUNT	Job Discount if paid within terms	2,450.59	-2,450.59

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

\$

ONLY IF PAID ON OR BEFORE
Apr 29, 2014

Subtotal	8,504.16
Sales Tax	435.47
Total Invoice Amount	8,939.63
Payment/Credit Applied	
TOTAL	8,939.63

ALLIED OIL & GAS SERVICES, LLC 062028

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>4-4-14</u>	SEC. <u>20</u>	TWP. <u>20</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30am</u>	JOB FINISH <u>1:00am</u>
LEASE <u>Hibbert</u>	WELL # <u>040-20-2029</u>	LOCATION <u>Dighton 13.5 SW</u>	COUNTY <u>Lane</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)			<u>3/4 N E into</u>				

CONTRACTOR H2 rig 1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 438'

CASINO SIZE 8 5/8 DEPTH 436.77'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 1.5'

PERFS.

DISPLACEMENT 26.87 bbl water

EQUIPMENT

PUMP TRUCK CEMENTER Paul Braver

431 HELPER Tyler Flipse

BULK TRUCK

326 DRIVER Adam Flipse

BULK TRUCK

DRIVER

REMARKS:

mix 270 sks Com 3% CC 2% gel

1/4# Flo-seal

Displace w/ water

cement did circulate

Thank You!

Paul & Tyler

CHARGE TO: FIML

STREET

CITY STATE ZIP

OWNER Same

CEMENT

AMOUNT ORDERED 270 sks Com 3% CC

2% gel 1/4# Flo-seal

COMMON 270 sks @ 17.90 4833.00

POZMIX @

GEL 5 sks @ 23.40 117.00

CHLORIDE 10 sks @ 64.00 640.00

ASC @

Flo-seal 67.5# @ 2.97 200.48

HANDLING 296.46 ft³ @ 2.48 735.22

MILEAGE 13.36 hrs @ 50 mi x 2.60 1736.80

TOTAL 8262.50

SERVICE

DEPTH OF JOB 438'

PUMP TRUCK CHARGE 1,512.25

EXTRA FOOTAGE @

MILEAGE milv 50 @ 7.70 385.00

MANIFOLD swadge 50 @ 4.40 220.00

milv 50 @ 4.40 220.00

TOTAL 2392.25

PLUG & FLOAT EQUIPMENT

Weatherford 8 5/8

83200 @ 3.60 3000.00

Centralizers 4 @ 75.00 300.00

TOTAL 3300.00

500.00

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME Gary Dole

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 10,954.75

DISCOUNT 2,450.59 (23%) IF PAID IN 30 DAYS

8,504.15 Net.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 142608
Invoice Date: Apr 13, 2014
Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
FIML	63387	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 13, 2014	5/13/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hibbert 04D #20-2029		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
120.00	CEMENT MATERIALS	Pozmix	9.35	1,122.00
10.00	CEMENT MATERIALS	Gel	23.40	234.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
322.20	CEMENT SERVICE	Cubic Feet Charge	2.48	799.06
672.70	CEMENT SERVICE	Ton Mileage Charge	2.60	1,749.02
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Kevin Weighous		
1.00	JOB DISCOUNT	Job Discount if paid within terms	2,400.60	-2,400.60

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

\$

ONLY IF PAID ON OR BEFORE
May 8, 2014

Subtotal	8,036.82
Sales Tax	746.27
Total Invoice Amount	8,783.09
Payment/Credit Applied	
TOTAL	8,783.09



DRILL STEM TEST REPORT

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

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

Hibbert #04D-20-2029

20-20s-29w Lane,KS

Start Date: 2014.04.07 @ 14:10:00

End Date: 2014.04.07 @ 21:28:30

Job Ticket #: 56460 DST #: 1

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

Printed: 2014.04.15 @ 16:23:43



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56460

DST#: 1

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.07 @ 14:10:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:30

Time Test Ended: 21:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: 3998.00 ft (KB) To 4045.00 ft (KB) (TVD)

Reference Elevations: 2892.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

2882.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press@RunDepth: 547.47 psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.07

End Date:

2014.04.07

Last Calib.: 2014.04.07

Start Time: 02:10:15

End Time:

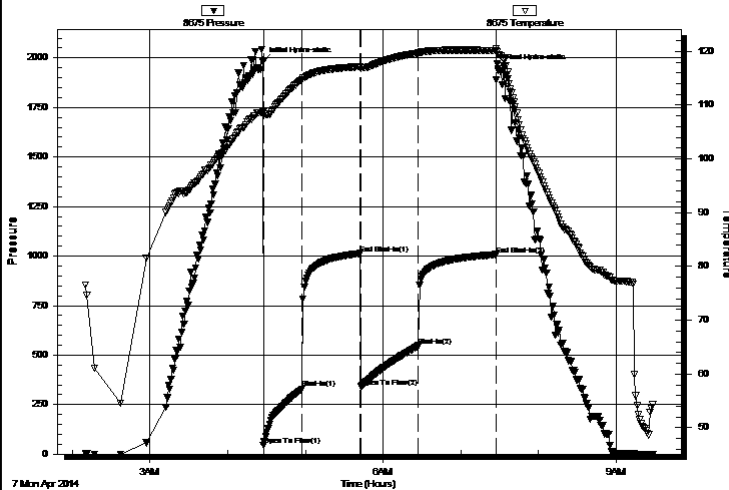
09:28:30

Time On Btm: 2014.04.07 @ 04:27:15

Time Off Btm: 2014.04.07 @ 07:28:45

TEST COMMENT: B.O.B. in 5 1/2 min.
Bled off for 5 min. No return blow
B.O.B. in 9 min.
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.09	108.84	Initial Hydro-static
1	45.07	108.09	Open To Flow (1)
31	330.42	114.80	Shut-In (1)
75	1012.61	117.15	End Shut-In (1)
76	340.03	116.92	Open To Flow (2)
120	547.47	119.70	Shut-In (2)
180	1007.24	120.14	End Shut-In (2)
182	1946.81	119.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
646.00	100% Water	5.74
282.00	mcw 20%M 80%W	3.96
236.00	mcw 50%M 50%W	3.31

Gas Rates

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

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

20-20s-29w Lane, KS

Hibbert #04D-20-2029

Job Ticket: 56460

DST#: 1

Test Start: 2014.04.07 @ 14:10:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:27:30

Time Test Ended: 21:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: 3998.00 ft (KB) To 4045.00 ft (KB) (TVD)

Total Depth: 4045.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 3999.00 ft (KB)

Start Date: 2014.04.07

End Date:

2014.04.07

Start Time: 02:10:15

End Time:

09:28:15

Capacity: 8000.00 psig

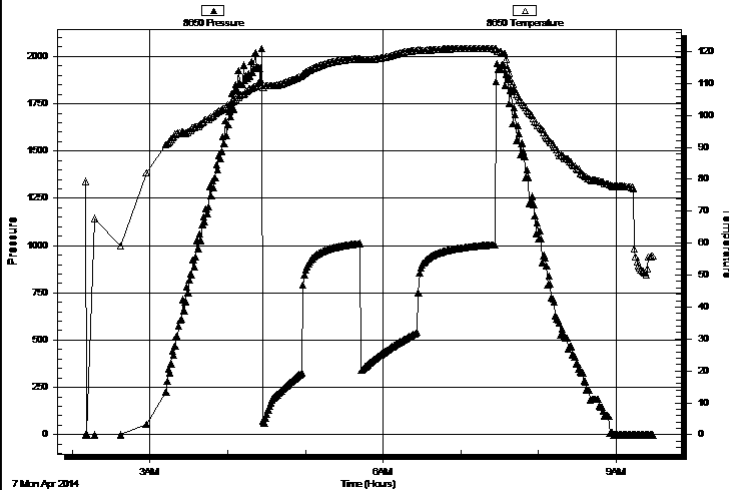
Last Calib.: 2014.04.07

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 5 1/2 min.
Bled off for 5 min. No return blow
B.O.B. in 9 min.
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
646.00	100%Water	5.74
282.00	mcw 20%M 80%W	3.96
236.00	mcw 50%M 50%W	3.31

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56460

DST#: 1

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.07 @ 14:10:00

Tool Information

Drill Pipe:	Length:	3617.88 ft	Diameter:	3.80 inches	Volume:	50.75 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	364.99 ft	Diameter:	2.25 inches	Volume:	1.79 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	52.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.87 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		3998.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.00 ft						
Tool Length:		68.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3978.00	
Shut In Tool	5.00		Fluid	3983.00	
Hydraulic tool	5.00			3988.00	
Packer	5.00			3993.00	21.00 Bottom Of Top Packer
Packer	5.00			3998.00	
Stubb	1.00			3999.00	
Recorder	0.00	8675	Inside	3999.00	
Recorder	0.00	8650	Outside	3999.00	
Perforations	10.00		Outside	4009.00	
Change Over Sub	1.00		Outside	4010.00	
Drill Pipe	31.00			4041.00	
Change Over Sub	1.00			4042.00	
Bullnose	3.00			4045.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56460

DST#: 1

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.07 @ 14:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 55000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
646.00	100%Water	5.737
282.00	mcw 20%M 80%W	3.956
236.00	mcw 50%M 50%W	3.310

Total Length: 1164.00 ft Total Volume: 13.003 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

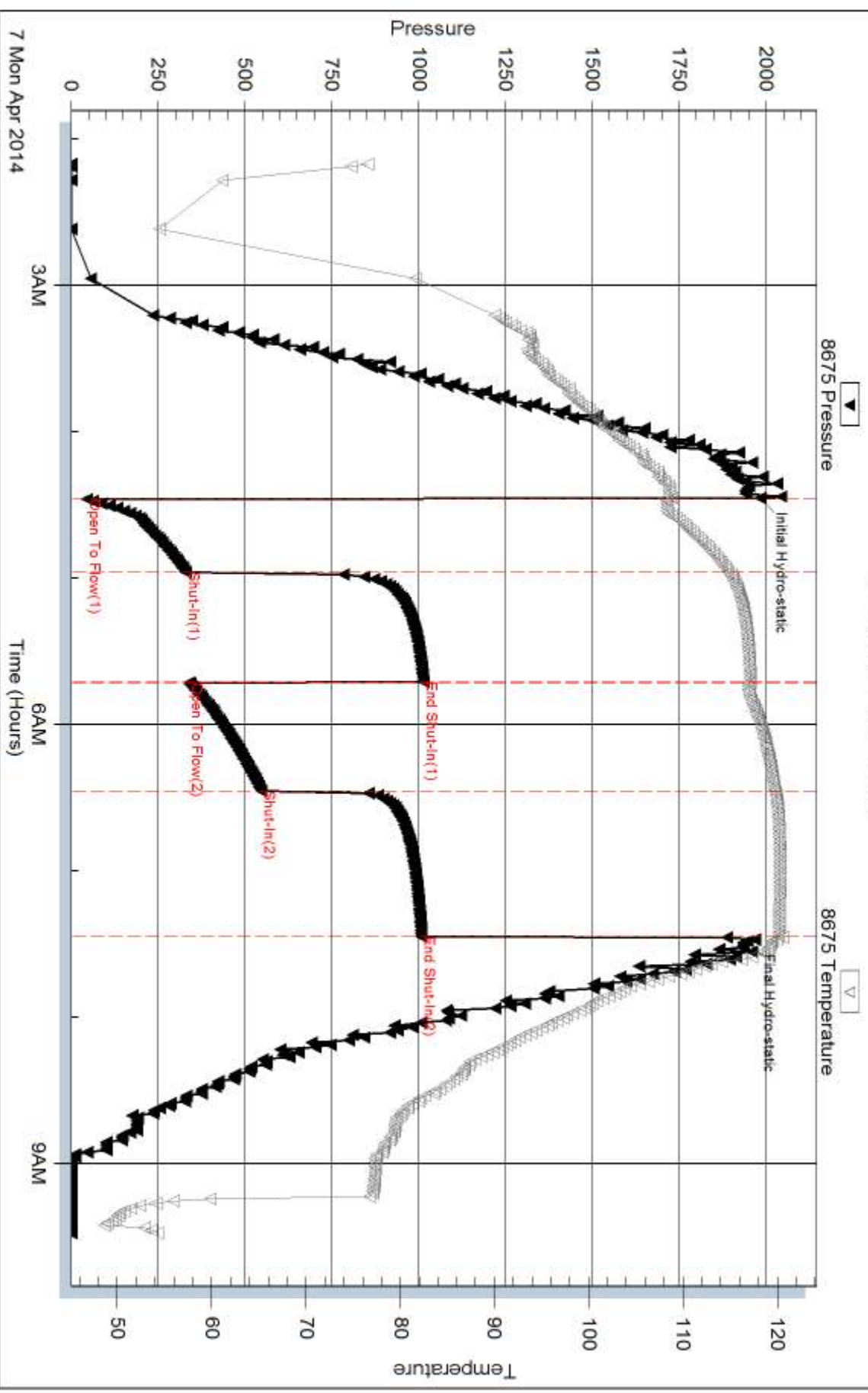
Serial #:

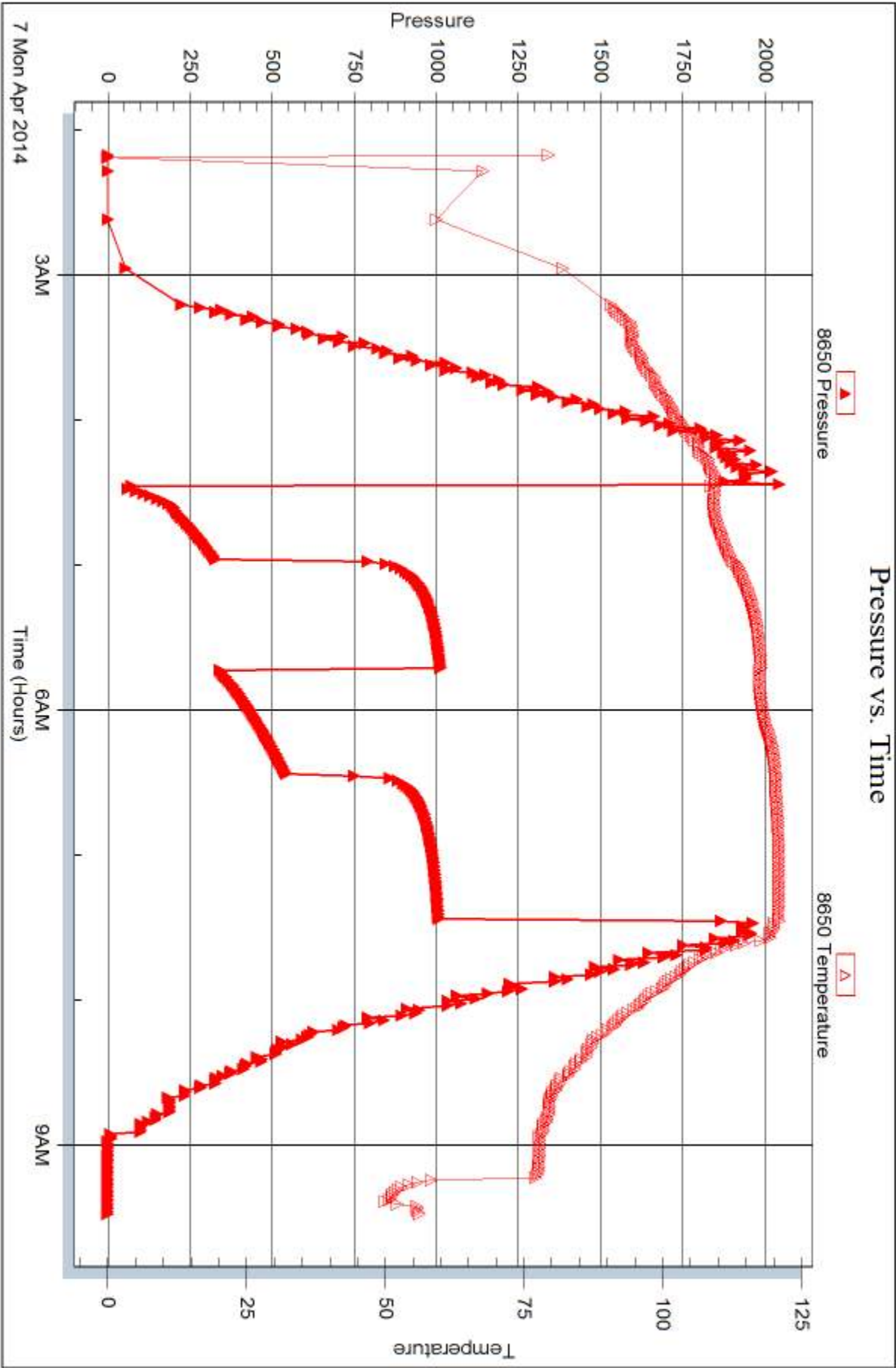
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .20 @ 40 F= 55,000

Pressure vs. Time







DRILL STEM TEST REPORT

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

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

Hibbert #04D-20-2029

20-20s-29w Lane,KS

Start Date: 2014.04.08 @ 14:20:00

End Date: 2014.04.08 @ 22:08:15

Job Ticket #: 56461 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.15 @ 16:23:16



Test Start: 2014.04.08 @ 14:20:00

KB to GR/CF: 10.00 ft

Time Off Btm: 2014.04.08 @ 19:57:30

Printed: 2014.04.15 @ 16:23:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56461

DST#: 2

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.08 @ 14:20:00

GENERAL INFORMATION:

Formation: **LKC "J & K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:57:00

Time Test Ended: 22:08:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4335.00 ft (KB) To 4400.00 ft (KB) (TVD)

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4336.00 ft (KB)

Start Date: 2014.04.08

End Date:

2014.04.08

Start Time: 14:45:15

End Time:

22:08:15

Capacity: 8000.00 psig

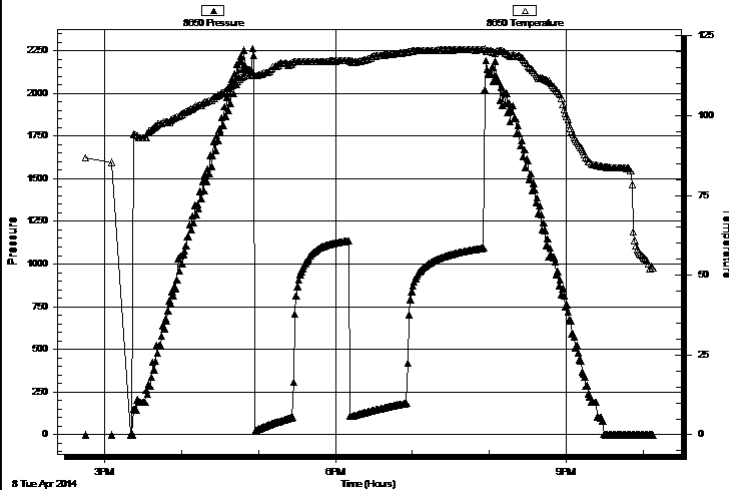
Last Calib.: 2014.04.08

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 5 1/2" blow
Bled off for 3 min. No return blow
Built to 3 1/2" blow
Bled off for 3 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
285.00	w cm 20%W 80%M	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56461

DST#: 2

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.08 @ 14:20:00

Tool Information

Drill Pipe:	Length:	3965.79 ft	Diameter:	3.80 inches	Volume:	55.63 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	364.99 ft	Diameter:	2.25 inches	Volume:	1.79 bbl	Weight to Pull Loose:	78000.00 lb
					Total Volume:	57.42 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.78 ft					String Weight: Initial	68000.00 lb
Depth to Top Packer:		4335.00 ft					Final	68000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		65.00 ft						
Tool Length:		85.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4316.00	
Shut In Tool	5.00			4321.00	
Hydraulic tool	5.00			4326.00	
Packer	5.00			4331.00	20.00 Bottom Of Top Packer
Packer	4.00			4335.00	
Stubb	1.00			4336.00	
Recorder	0.00	8675	Inside	4336.00	
Recorder	0.00	8650	Outside	4336.00	
perforations	27.00			4363.00	
Change Over Sub	1.00			4364.00	
Drill Pipe	32.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56461

DST#: 2

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.08 @ 14:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	w cm 20%W 80%M	1.402

Total Length: 285.00 ft Total Volume: 1.402 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .30 @ 55 F = 30,000

Serial #: 8675

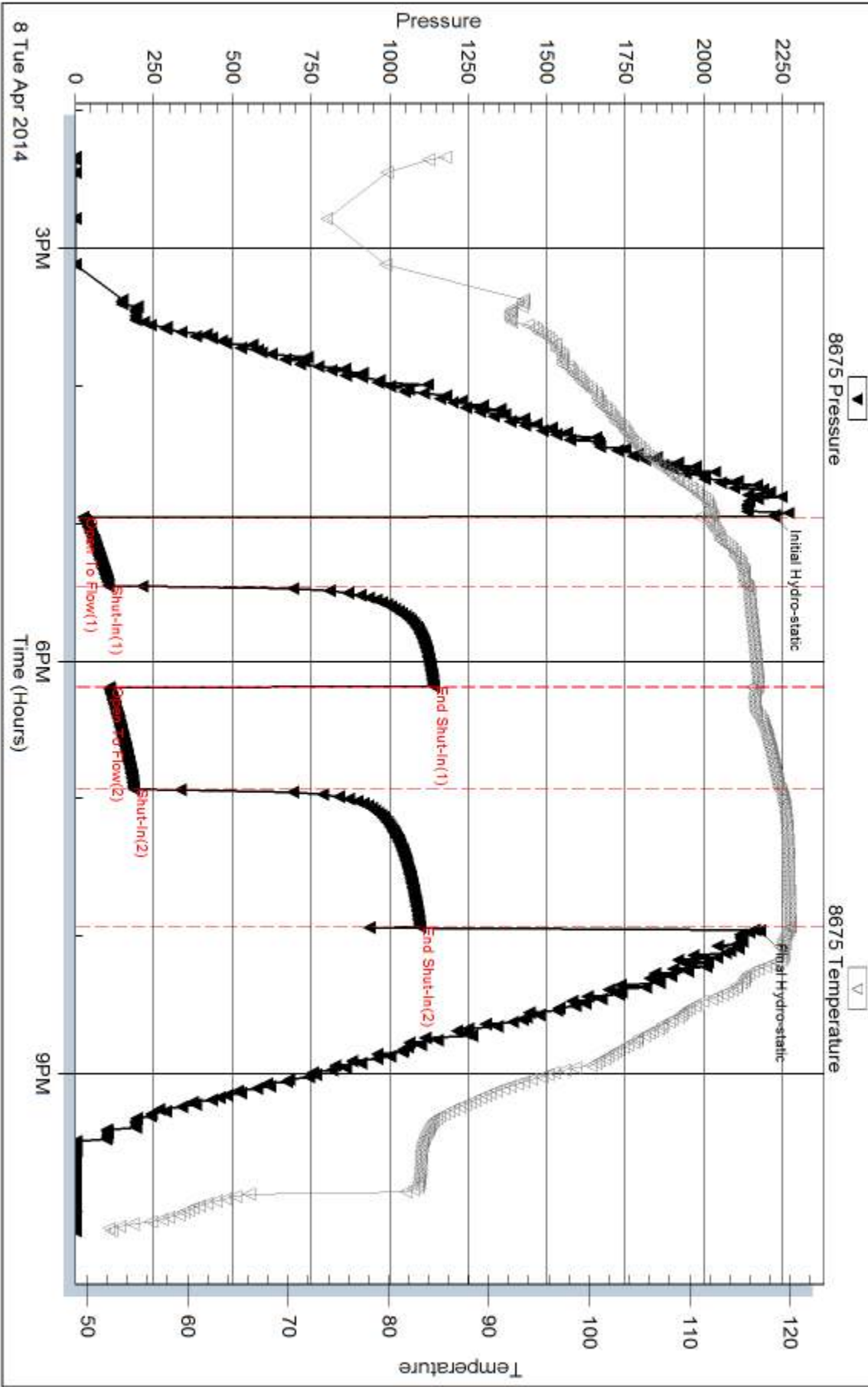
Inside

FILM Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 2

Pressure vs. Time

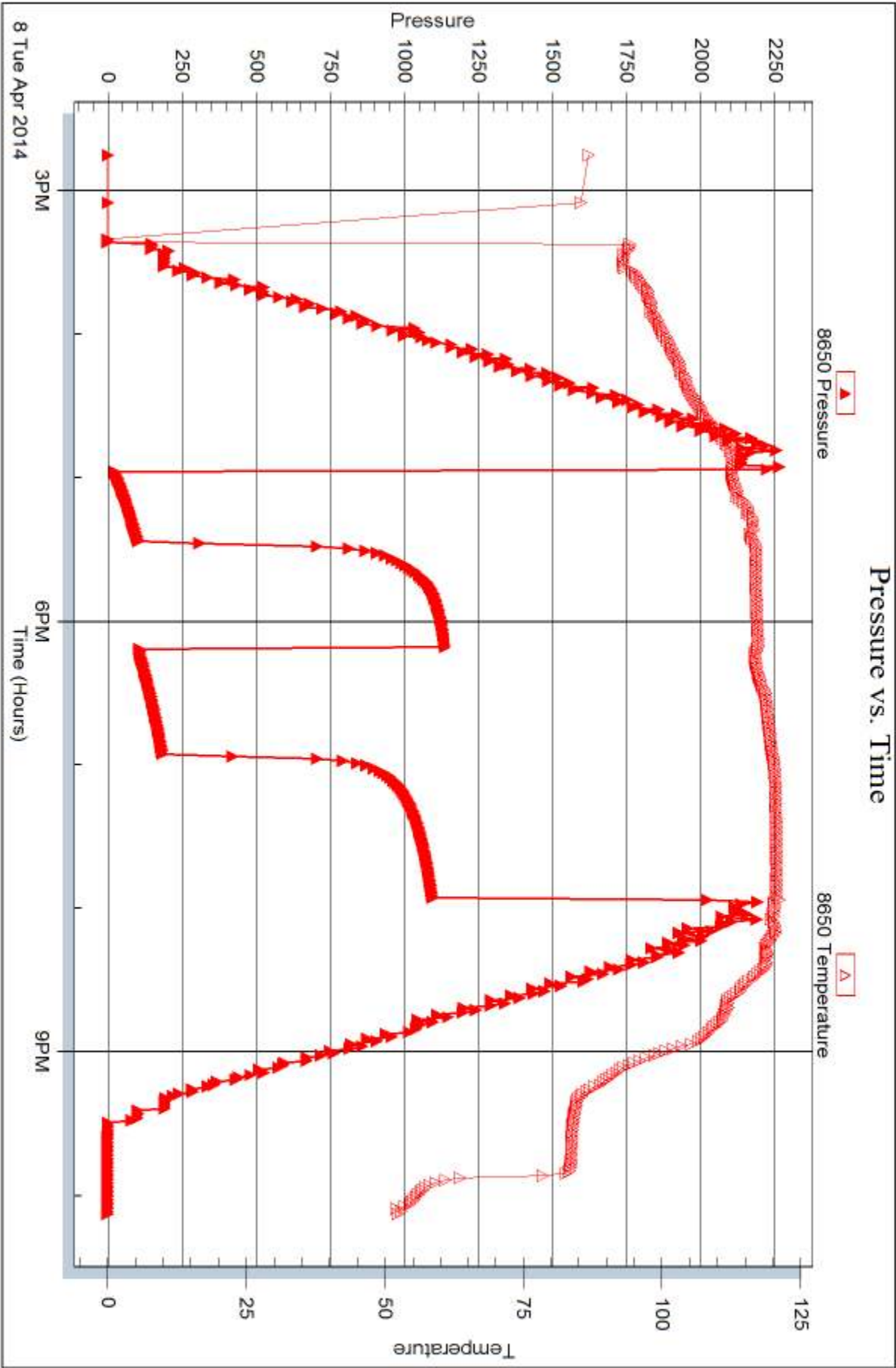


Serial #: 8650

Outside FILM Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 2





DRILL STEM TEST REPORT

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

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

Hibbert #04D-20-2029

20-20s-29w Lane,KS

Start Date: 2014.04.09 @ 14:15:00

End Date: 2014.04.09 @ 22:10:45

Job Ticket #: 56462 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.15 @ 16:22:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56462

DST#: 3

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.09 @ 14:15:00

GENERAL INFORMATION:

Formation: **KC "L" Marm. A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:28:00

Time Test Ended: 22:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4410.00 ft (KB) To 4526.00 ft (KB) (TVD)

Total Depth: 4526.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press@RunDepth: 138.20 psig @ 4411.00 ft (KB)

Start Date: 2014.04.09

End Date:

2014.04.09

Start Time: 14:15:15

End Time:

22:10:45

Capacity: 8000.00 psig

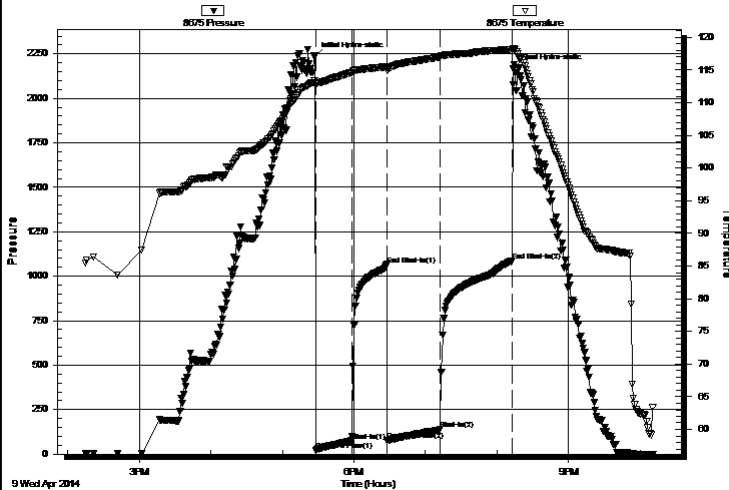
Last Calib.: 2014.04.09

Time On Btm: 2014.04.09 @ 17:27:00

Time Off Btm: 2014.04.09 @ 20:13:45

TEST COMMENT: Built to 3" blow
No return blow
Built to 1 1/2" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.99	113.37	Initial Hydro-static
1	22.68	112.85	Open To Flow (1)
31	74.22	114.64	Shut-In(1)
61	1065.85	115.52	End Shut-In(1)
61	76.27	114.99	Open To Flow (2)
106	138.20	117.02	Shut-In(2)
166	1085.89	118.14	End Shut-In(2)
167	2164.77	118.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	100% Mud	0.98

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

20-20s-29w Lane, KS

Hibbert #04D-20-2029

Job Ticket: 56462

DST#: 3

Test Start: 2014.04.09 @ 14:15:00

GENERAL INFORMATION:

Formation: **KC "L" Marm. A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:28:00

Time Test Ended: 22:10:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4410.00 ft (KB) To 4526.00 ft (KB) (TVD)

Total Depth: 4526.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4411.00 ft (KB)

Start Date: 2014.04.09

End Date:

2014.04.09

Start Time: 14:25:15

End Time:

22:10:30

Capacity: 8000.00 psig

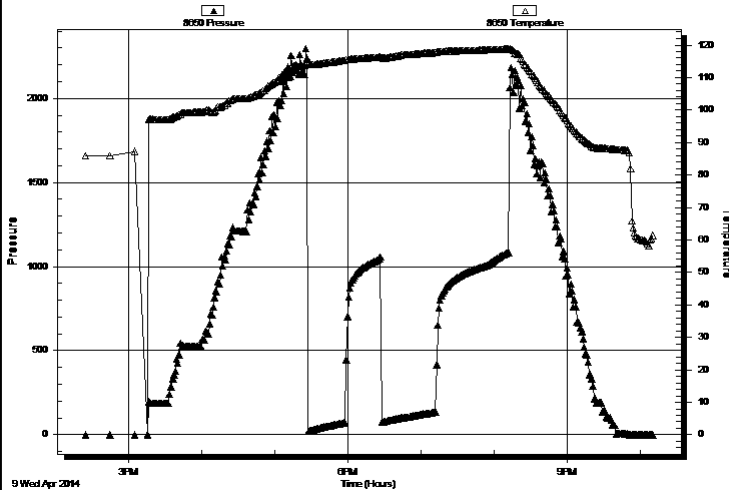
Last Calib.: 2014.04.09

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 3" blow
No return blow
Built to 1 1/2" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
200.00	100% Mud	0.98

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56462

DST#: 3

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.09 @ 14:15:00

Tool Information

Drill Pipe:	Length:	4029.14 ft	Diameter:	3.80 inches	Volume:	56.52 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	364.99 ft	Diameter:	2.25 inches	Volume:	1.79 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	58.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		4.13 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4410.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		216.00 ft						
Tool Length:		236.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4391.00	
Shut In Tool	5.00			4396.00	
Hydraulic tool	5.00			4401.00	
Packer	5.00			4406.00	20.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	8675	Inside	4411.00	
Recorder	0.00	8650	Outside	4411.00	
perforations	2.00			4413.00	
Change Over Sub	1.00			4414.00	
Drill Pipe	94.00			4508.00	
Change Over Sub	1.00			4509.00	
Bullnose	117.00			4626.00	216.00 Bottom Packers & Anchor

Total Tool Length: 236.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56462

DST#: 3

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.09 @ 14:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 6.58 in³

Resistivity: ohm.m

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	100% Mud	0.984

Total Length: 200.00 ft

Total Volume: 0.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

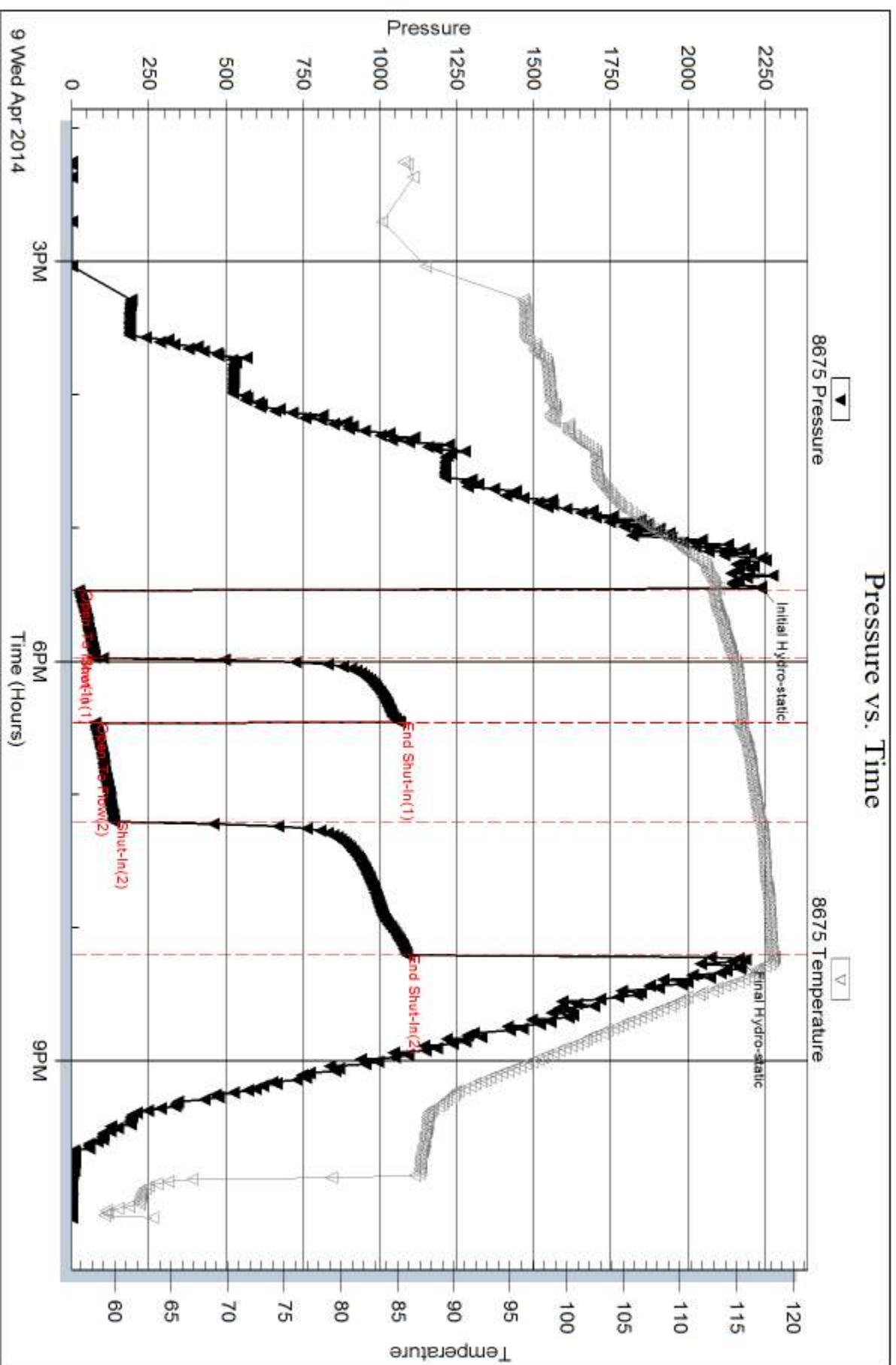
Serial #: 8675

Inside

FIML Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 3

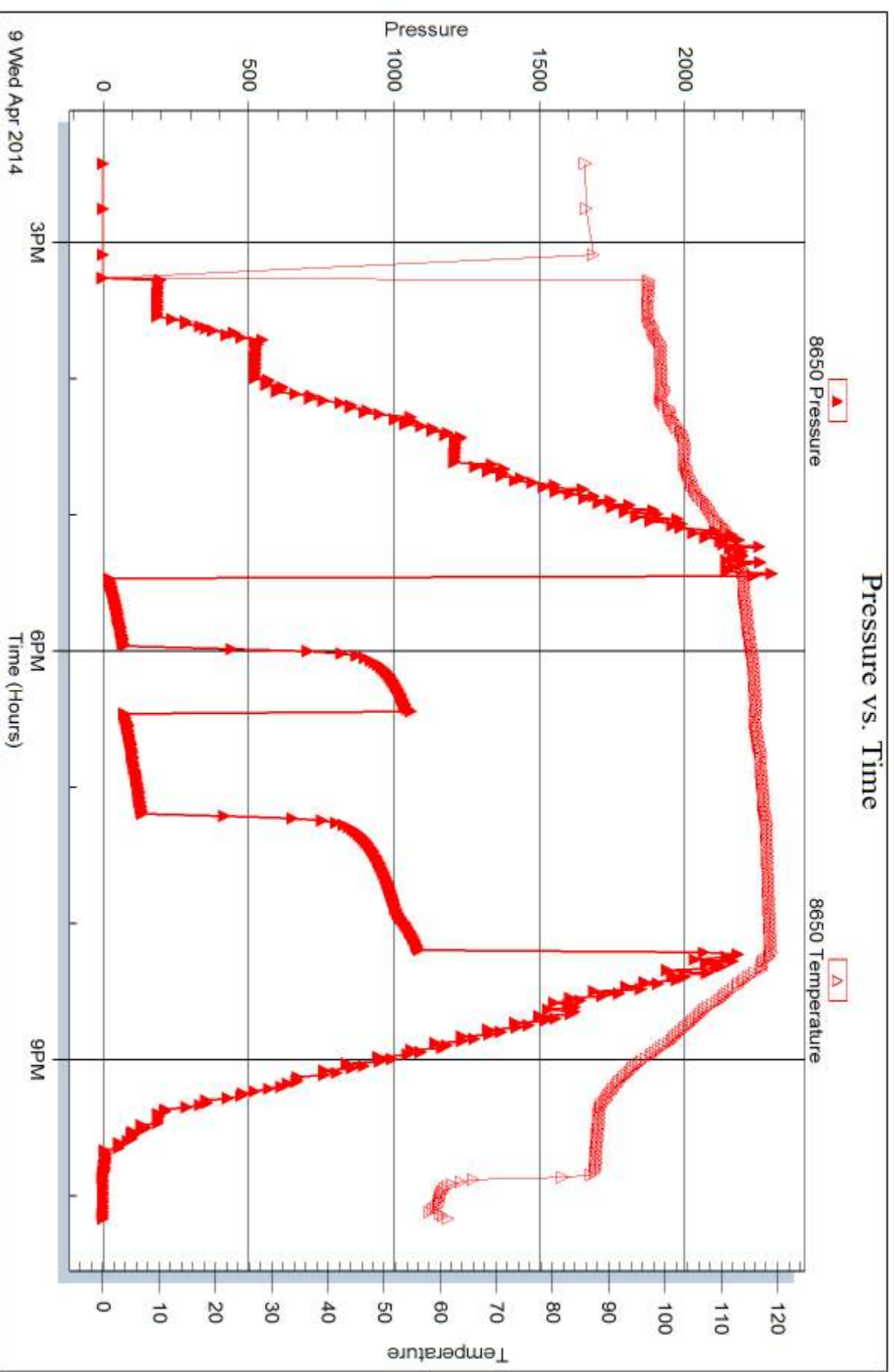


Serial #: 8650

Outside FILM Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 3





DRILL STEM TEST REPORT

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

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

Hibbert #04D-20-2029

20-20s-29w Lane,KS

Start Date: 2014.04.10 @ 12:55:00

End Date: 2014.04.10 @ 19:30:45

Job Ticket #: 56463 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.15 @ 16:22:22

FIML Natural Resources, LLC

20-20s-29w Lane,KS

Hibbert #04D-20-2029

DST # 4

Pawnee - Top Cherokee

2014.04.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56463

DST#: 4

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.10 @ 12:55:00

GENERAL INFORMATION:

Formation: **Pawnee - Top Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:35:30

Time Test Ended: 19:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4530.00 ft (KB) To 4630.00 ft (KB) (TVD)

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press@RunDepth: 45.58 psig @ 4531.00 ft (KB)

Start Date: 2014.04.10

End Date:

2014.04.10

Start Time: 12:55:15

End Time:

19:30:45

Capacity: 8000.00 psig

Last Calib.: 2014.04.10

Time On Btm: 2014.04.10 @ 15:35:15

Time Off Btm: 2014.04.10 @ 17:51:30

TEST COMMENT: Built to 1" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.04	110.91	Initial Hydro-static
1	21.94	109.51	Open To Flow (1)
31	33.16	111.96	Shut-In(1)
60	1072.15	113.43	End Shut-In(1)
61	36.06	113.05	Open To Flow (2)
91	45.58	114.15	Shut-In(2)
136	1081.93	115.69	End Shut-In(2)
137	2251.36	115.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% Mud	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56463

DST#: 4

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.10 @ 12:55:00

GENERAL INFORMATION:

Formation: **Pawnee - Top Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:35:30

Time Test Ended: 19:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4530.00 ft (KB) To 4630.00 ft (KB) (TVD)

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4531.00 ft (KB)

Start Date: 2014.04.10

End Date:

2014.04.10

Start Time: 12:55:15

End Time:

19:30:45

Capacity: 8000.00 psig

Last Calib.:

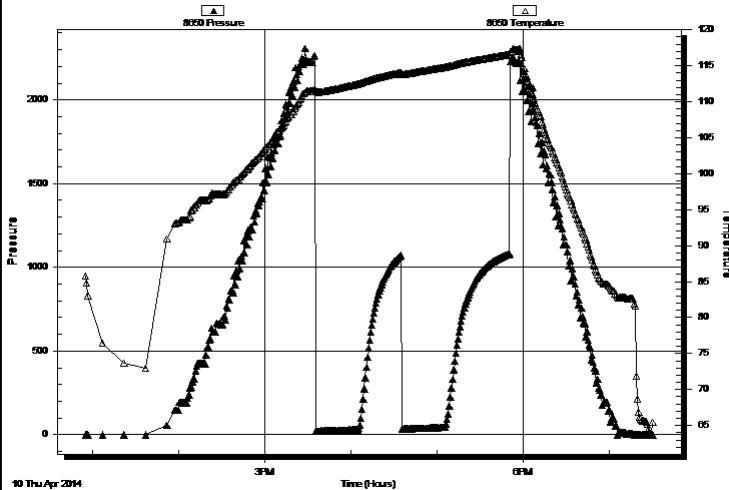
2014.04.10

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 1" blow
No return blow
No blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
20.00	100% Mud	0.10

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

20-20s-29w Lane,KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56463

DST#: 4

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.10 @ 12:55:00

Tool Information

Drill Pipe:	Length:	4154.75 ft	Diameter:	3.80 inches	Volume:	58.28 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	364.99 ft	Diameter:	2.25 inches	Volume:	1.79 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	60.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		9.74 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4530.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		100.00 ft						
Tool Length:		120.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4511.00	
Shut In Tool	5.00			4516.00	
Hydraulic tool	5.00			4521.00	
Packer	5.00			4526.00	20.00 Bottom Of Top Packer
Packer	4.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	8675	Inside	4531.00	
Recorder	0.00	8650	Outside	4531.00	
perforations	6.00			4537.00	
Change Over Sub	1.00			4538.00	
Drill Pipe	63.00			4601.00	
Change Over Sub	1.00			4602.00	
Bullnose	28.00			4630.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56463

DST#: 4

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.10 @ 12:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% Mud	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

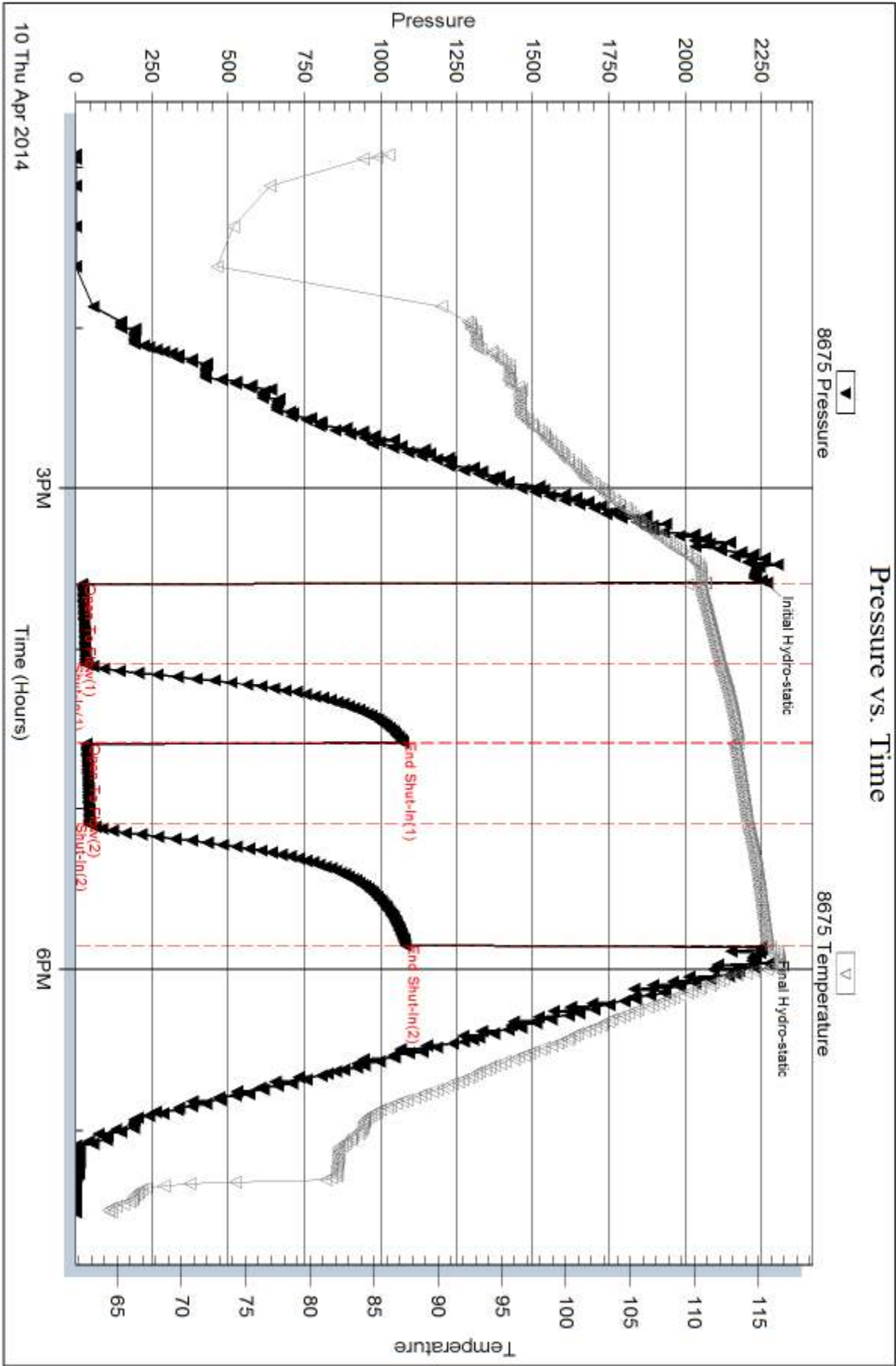
Serial #: 8675

Inside

FIML Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 4

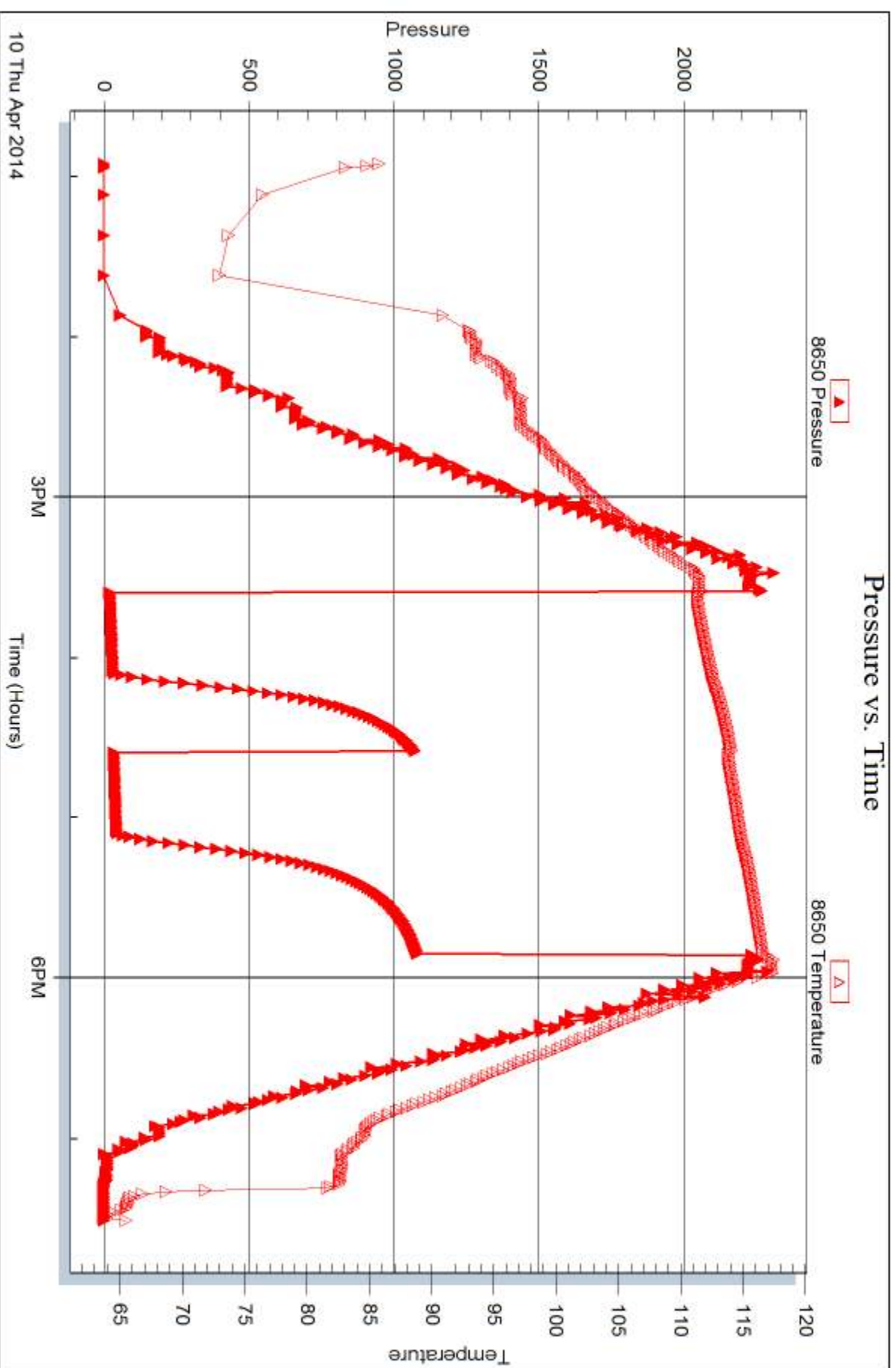


Serial #: 8650

Outside FIML Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 4





DRILL STEM TEST REPORT

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

410 17ST STE 900
Denver CO 80202-4420

ATTN: Kurt Talbot & Gary D

Hibbert #04D-20-2029

20-20s-29w Lane,KS

Start Date: 2014.04.11 @ 08:45:00

End Date: 2014.04.11 @ 15:29:30

Job Ticket #: 56464 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.15 @ 16:21:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56464

DST#: 5

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.11 @ 08:45:00

GENERAL INFORMATION:

Formation: **Johnson Zone - Sperg**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:30

Time Test Ended: 15:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4624.00 ft (KB) To 4712.00 ft (KB) (TVD)

Total Depth: 4712.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2892.00 ft (KB)

2882.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press@RunDepth: 163.71 psig @ 4625.00 ft (KB)

Start Date: 2014.04.11

End Date:

2014.04.11

Start Time: 08:45:15

End Time:

15:29:30

Capacity: 8000.00 psig

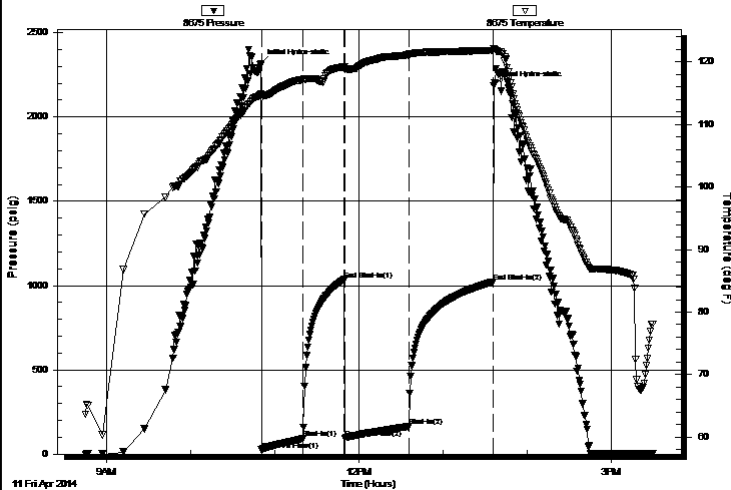
Last Calib.: 2014.04.11

Time On Btm: 2014.04.11 @ 10:50:15

Time Off Btm: 2014.04.11 @ 13:36:15

TEST COMMENT: Built to 4 1/2" blow
No return blow
Built to 2" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.46	114.94	Initial Hydro-static
1	24.88	114.22	Open To Flow (1)
30	91.47	117.11	Shut-In(1)
60	1035.08	119.16	End Shut-In(1)
60	95.16	118.81	Open To Flow (2)
106	163.71	121.13	Shut-In(2)
166	1020.80	121.82	End Shut-In(2)
166	2185.82	122.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
288.00	w cm 5%W 95%M	1.42

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56464

DST#: 5

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.11 @ 08:45:00

GENERAL INFORMATION:

Formation: **Johnson Zone - Sperg**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:30

Time Test Ended: 15:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4624.00 ft (KB) To 4712.00 ft (KB) (TVD)

Reference Elevations: 2892.00 ft (KB)

Total Depth: 4712.00 ft (KB) (TVD)

2882.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.11

End Date:

2014.04.11

Last Calib.:

2014.04.11

Start Time: 08:45:15

End Time:

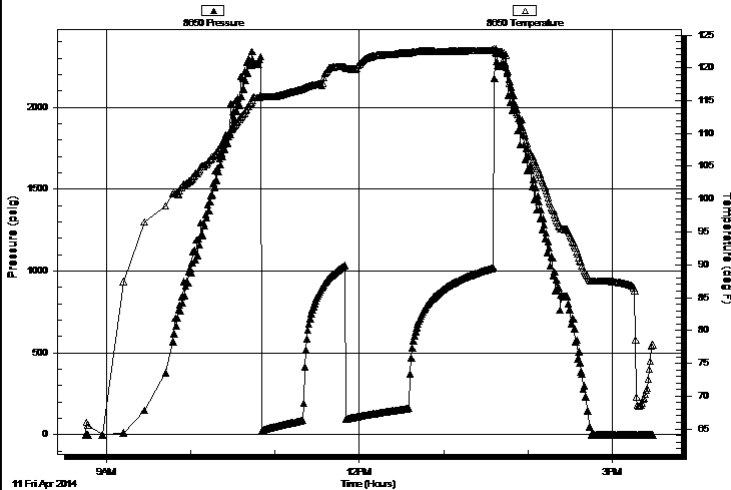
15:29:15

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 4 1/2" blow
No return blow
Built to 2" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
288.00	w cm 5%W 95%M	1.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56464

DST#: 5

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.11 @ 08:45:00

Tool Information

Drill Pipe:	Length: 4249.19 ft	Diameter: 3.80 inches	Volume: 59.60 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 364.99 ft	Diameter: 2.25 inches	Volume: 1.79 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	61.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.18 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4624.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	88.00 ft				
Tool Length:	108.00 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			4605.00	
Shut In Tool	5.00			4610.00	
Hydraulic tool	5.00			4615.00	
Packer	5.00			4620.00	20.00 Bottom Of Top Packer
Packer	4.00			4624.00	
Stubb	1.00			4625.00	
Recorder	0.00	8675	Inside	4625.00	
Recorder	0.00	8650	Outside	4625.00	
perforations	5.00			4630.00	
Change Over Sub	1.00			4631.00	
Drill Pipe	63.00			4694.00	
Change Over Sub	1.00			4695.00	
Bullnose	17.00			4712.00	88.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources, LLC

20-20s-29w Lane, KS

410 17ST STE 900
Denver CO 80202-4420

Hibbert #04D-20-2029

Job Ticket: 56464

DST#: 5

ATTN: Kurt Talbot & Gary D

Test Start: 2014.04.11 @ 08:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
288.00	w cm 5%W 95%M	1.416

Total Length: 288.00 ft

Total Volume: 1.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

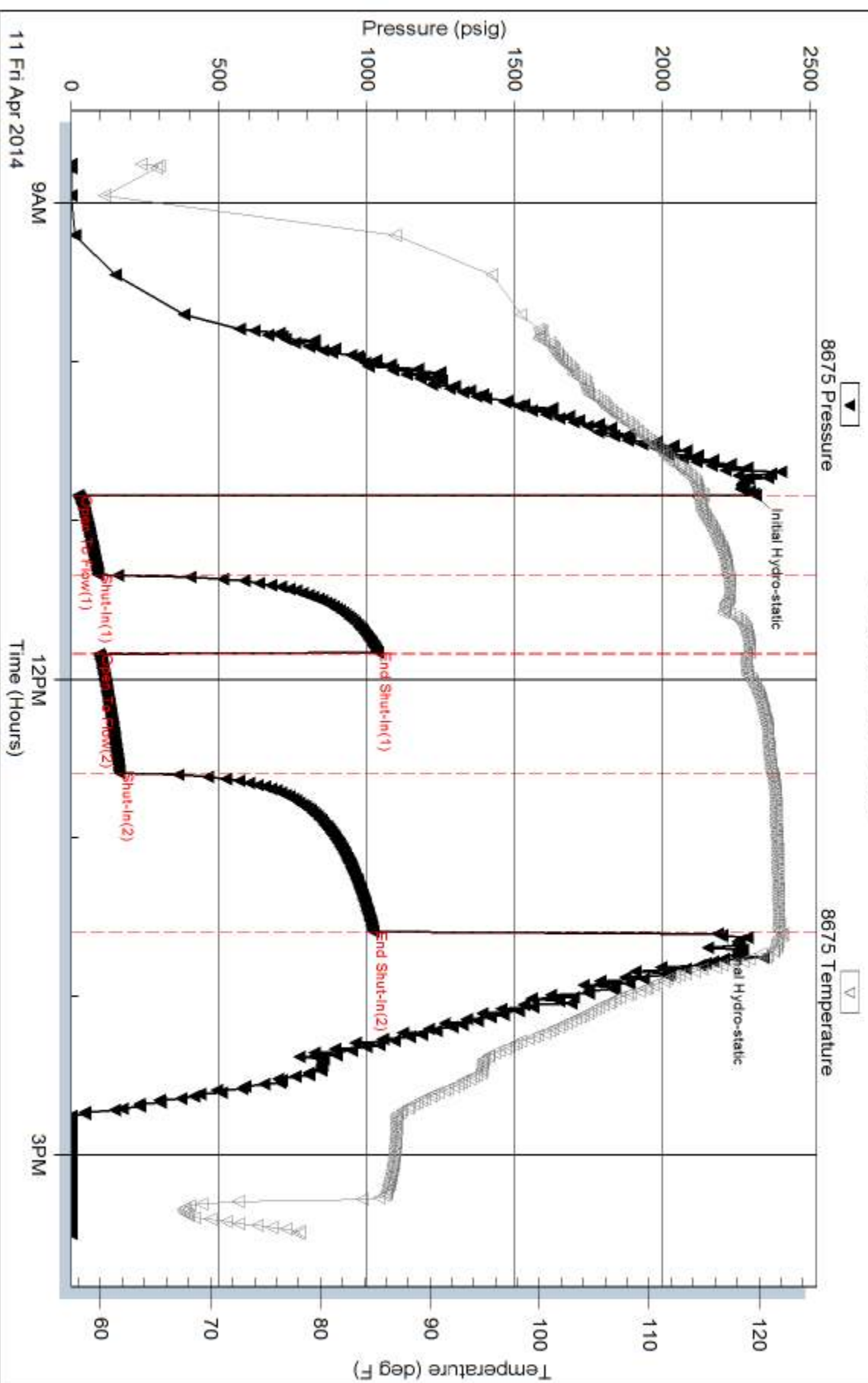
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

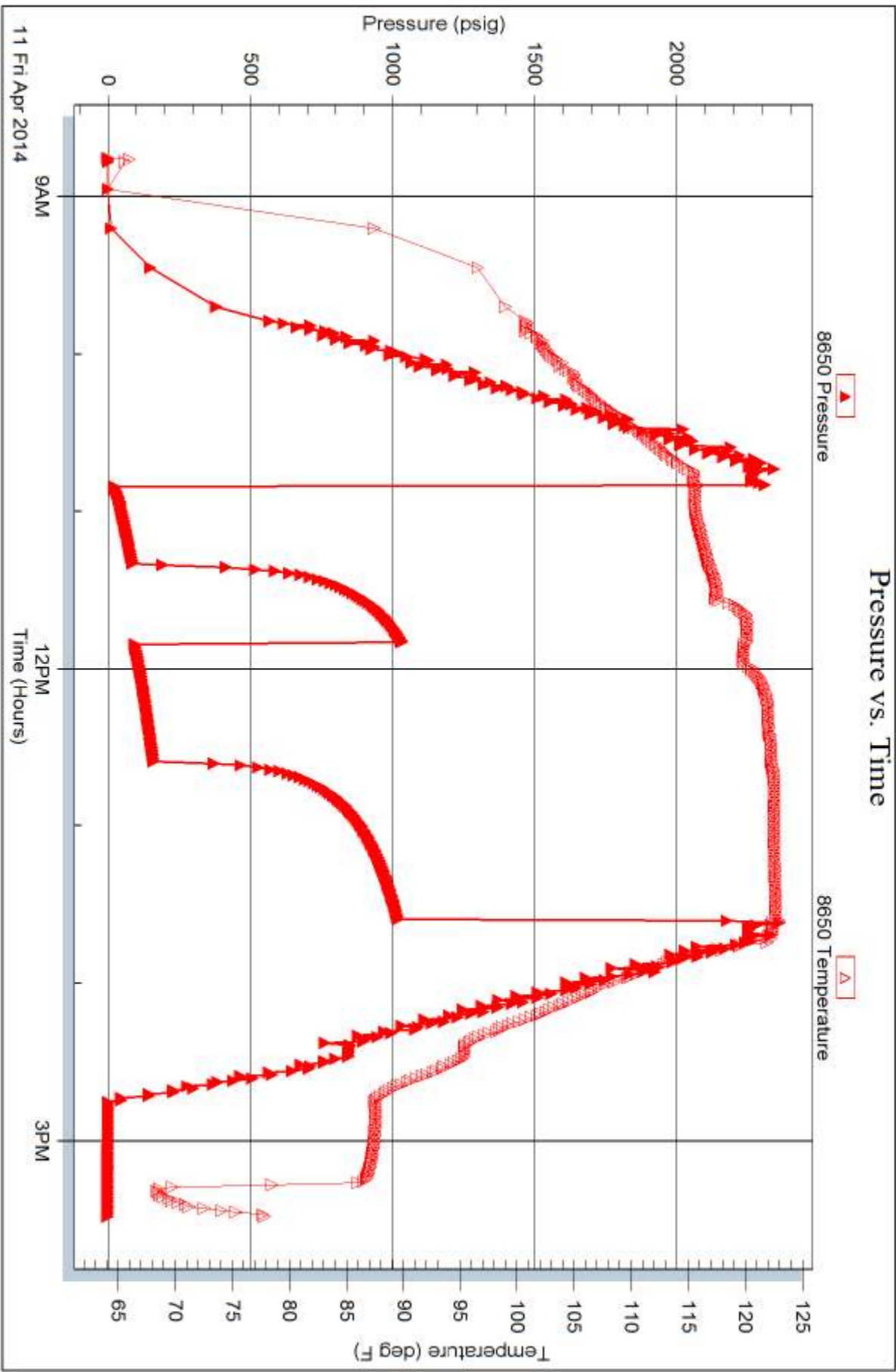


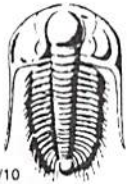
Serial #: 8650

Outside FILM Natural Resources, LLC

Hibbert #04D-20-2029

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56460**

Well Name & No. Hildebert 04D-20-2029 Test No. 1 Date 4/7/14
 Company FIM Natural Resources, LLC Elevation 2892 KB 2882 GL
 Address 410 17th ST STE 900, Denver CO. 80202-4420
 Co. Rep / Geo. Kurt Tallent & Gary Duke Rig H2 Rig 1
 Location: Sec. 20 Twp. 20s Rge. 29w Co. Lane County State Kansas

Interval Tested 3998-4045 Zone Tested Toronto
 Anchor Length 47 Drill Pipe Run 3617.88 Mud Wt. 8.8
 Top Packer Depth 3994 Drill Collars Run 364.99 Vis 64
 Bottom Packer Depth 3998 Wt. Pipe Run WL 6.4
 Total Depth 4045 Chlorides 3,500 ppm System LCM 3#

Blow Description B.O.B. in 5 1/2 min.
Bled off for 5 min. No return below
B.O.B. in 9 min.

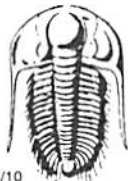
Bled off for 5 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>236</u>	<u>muw</u>		<u>50</u>	<u>50</u>	
<u>282</u>	<u>muw</u>		<u>80</u>	<u>20</u>	
<u>646</u>	<u>water</u>		<u>100</u>		

Rec Total 1164 BHT 120 Gravity API RW 20 @ 40 °F Chlorides 55,000 ppm
 (A) Initial Hydrostatic 1,983 ☒ Test 1250 T-On Location 01:20
 (B) First Initial Flow 45 ☐ Jars T-Started 02:10
 (C) First Final Flow 330 ☐ Safety Joint T-Open 04:27
 (D) Initial Shut-In 1,013 ☒ Circ Sub N/C T-Pulled 07:27
 (E) Second Initial Flow 340 ☐ Hourly Standby T-Out 09:28
 (F) Second Final Flow 547 ☒ Mileage 86 RT 133.30 Comments
 (G) Final Shut-In 1,007 ☐ Sampler
 (H) Final Hydrostatic 1,947 ☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☒ Accessibility 150
 Sub Total 1533.30

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1533.30
 MP/DST Disc't

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56461

Well Name & No. Hildcrest 040-20-2029 Test No. 2 Date 4/8/14
Company Firm Natural Resources, LLC Elevation 2892 KB 2882 GL
Address 410 17th STE 900, Denver CO. 80202-4420
Co. Rep / Geo. Kurt Talbot & Gary Duke Rig H2 Rig 1
Location: Sec. 20 Twp. 20s Rge. 24w Co. Lane County State Kansas

Interval Tested 4335-4400 Zone Tested Kansas City "J+K"
Anchor Length 65 Drill Pipe Run 3965.79 Mud Wt. 9.3
Top Packer Depth 4331 Drill Collars Run 364.99 Vis 52
Bottom Packer Depth 4335 Wt. Pipe Run WL 6.8
Total Depth 4400 Chlorides 3500 ppm System LCM 4#

Blow Description Built to 5 1/2" below
Bled off for 3 min. No return below
Built to 3 1/2" below

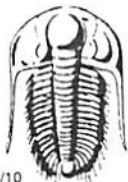
Bled off for 3 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>285</u>	<u>20cm</u>			<u>20</u>	<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total	BHT	Gravity	API RW	@	°F	Chlorides	ppm
<u>285</u>	<u>120</u>		<u>30</u>	<u>55</u>		<u>30,000</u>	
(A) Initial Hydrostatic	<u>2,223</u>	☒ Test	<u>1250</u>	T-On Location <u>13:50</u>			
(B) First Initial Flow	<u>25</u>	☐ Jars		T-Started <u>14:20</u>			
(C) First Final Flow	<u>107</u>	☐ Safety Joint		T-Open <u>16:57</u>			
(D) Initial Shut-In	<u>1,139</u>	☒ Circ Sub <u>N/C</u>		T-Pulled <u>19:57</u>			
(E) Second Initial Flow	<u>107</u>	☐ Hourly Standby		T-Out <u>22:08</u>			
(F) Second Final Flow	<u>187</u>	☒ Mileage <u>86.41</u>	<u>133.30</u>	Comments			
(G) Final Shut-In	<u>1,095</u>	☐ Sampler					
(H) Final Hydrostatic	<u>2,178</u>	☐ Straddle					

Initial Open	Initial Shut-In	Final Flow	Final Shut-In	Sub Total	Total	MP/DST Disc't
<u>30</u>	<u>45</u>	<u>45</u>	<u>60</u>	<u>141.67</u>	<u>1674.97</u>	
Sub Total <u>1533.30</u>						

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56462

Well Name & No. Hildeart 040-20-2029 Test No. 3 Date 4/9/14
Company FIML Natural Resources, LLC Elevation 2892 KB 2882 GL
Address 410 17th STE 900, Denver CO. 80202-4420
Co. Rep / Geo. Kurt Talbot & Gary Dole Rig H2 Rig 1
Location: Sec. 20 Twp. 20s Rge. 29w Co. Lane County State Kansas

Interval Tested 4410 - 4526 Zone Tested Kansas City "L" - Marmaton "A" & "B"
Anchor Length 116 Drill Pipe Run 4029.14 Mud Wt. 9.15
Top Packer Depth 4406 Drill Collars Run 364.99 Vis 57
Bottom Packer Depth 4410 Wt. Pipe Run WL 6.66
Total Depth 4526 Chlorides 3,700 ppm System LCM 3H

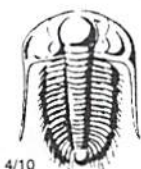
Blow Description Built to 3" below
No return below
Built to
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total	BHT	Gravity	API RW	@	F	Chlorides	ppm
<u>200</u>	<u>118</u>						
(A) Initial Hydrostatic	<u>2,237</u>	☒ Test	<u>1250</u>			T-On Location	<u>14:00</u>
(B) First Initial Flow	<u>23</u>	☐ Jars				T-Started	<u>14:15</u>
(C) First Final Flow	<u>74</u>	☐ Safety Joint				T-Open	<u>17:28</u>
(D) Initial Shut-In	<u>1,066</u>	☒ Circ Sub	<u>n/c</u>			T-Pulled	<u>20:13</u>
(E) Second Initial Flow	<u>76</u>	☐ Hourly Standby				T-Out	<u>22:10</u>
(F) Second Final Flow	<u>138</u>	☒ Mileage	<u>86 AT</u>	<u>133.30</u>		Comments	
(G) Final Shut-In	<u>1,086</u>	☐ Sampler					
(H) Final Hydrostatic	<u>2,165</u>	☐ Straddle				☐ Ruined Shale Packer	

Initial Open	Initial Shut-In	Final Flow	Final Shut-In	Sub Total	Total	MP/DST Disc't
<u>30</u>	<u>30</u>	<u>45</u>	<u>60</u>			
				<u>1533.30</u>	<u>1533.30</u>	

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56463**

Well Name & No. Hilbert 04D-20-2029 Test No. 4 Date 4/10/14
 Company FIML Natural Resources, LLC Elevation 2892 KB 2882 GL
 Address 410 17th STE 900, Denver CO. 80202-4420
 Co. Rep / Geo. Jim Mastropaul & Corey Dake Rig H2 Rig 1
 Location: Sec. 20 Twp. 20s Rge. 29w Co. Lane County State Kansas

Interval Tested 4530-4630 Zone Tested Pawnee, Myric Station, Fort Scott, & Top of Cherokee
 Anchor Length 100 Drill Pipe Run 4154.75 Mud Wt. 9.2
 Top Packer Depth 4526 Drill Collars Run 364.99 Vis 51
 Bottom Packer Depth 4530 Wt. Pipe Run WL 6.4
 Total Depth 4630 Chlorides 2800 ppm System LCM 3#

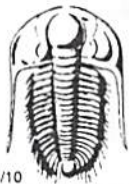
Blow Description Built to 1' below
No return below
No below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 116 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2,268 ☒ Test 1250 T-On Location 12:05
 (B) First Initial Flow 22 ☐ Jars T-Started 12:55
 (C) First Final Flow 33 ☐ Safety Joint T-Open 15:35
 (D) Initial Shut-In 1,072 ☒ Circ Sub N/C T-Pulled 17:50
 (E) Second Initial Flow 36 ☐ Hourly Standby T-Out 19:30
 (F) Second Final Flow 46 ☒ Mileage 86 Rt 133.30 Comments
 (G) Final Shut-In 1,082 ☐ Sampler
 (H) Final Hydrostatic 2,251 ☐ Straddle
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☒ Accessibility 150
 Sub Total 1533.30
 Sub Total 0
 Total 1533.30
 MP/DST Disc't

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56464

Well Name & No. Hildebert 04D-20-2029 Test No. 5 Date 4/11/14
Company FEM Natural Resources, LLC Elevation 2892 KB 2882 GL
Address 410 17th STE 900, Denver CO. 80202-4420
Co. Rep / Geo. Tom Musgrave & Gary Duke Rig H2 Ryz 1
Location: Sec. 20 Twp. 20S Rge. 29W Co. Lincoln County State Kansas

Interval Tested 4624-4712 Zone Tested Schubert Zone - Miss Spurgeon
Anchor Length 88 Drill Pipe Run 4249.19 Mud Wt. 9.4
Top Packer Depth 4620 Drill Collars Run 364.99 Vis 52
Bottom Packer Depth 4624 Wt. Pipe Run WL 64
Total Depth 4712 Chlorides 3,400 ppm System LCM 3#

Blow Description Built to 4 1/2" below
No return below
Built to 8" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>288</u>	<u>100m</u>			<u>5</u>	<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 288 BHT 122 Gravity API RW @ °F Chlorides ppm
(A) Initial Hydrostatic 2314 ☒ Test 1250 T-On Location 08:30
(B) First Initial Flow 25 ☐ Jars T-Started 08:45
(C) First Final Flow 91 ☐ Safety Joint T-Open 10:51
(D) Initial Shut-In 1.0 35 ☒ Circ Sub N/C T-Pulled 13:36
(E) Second Initial Flow 95 ☒ Hourly Standby N/C T-Out 15:29
(F) Second Final Flow 164 ☒ Mileage 86 RT 133.30 Comments
(G) Final Shut-In 1.0 21 ☐ Sampler
(H) Final Hydrostatic 2186 ☐ Straddle

Initial Open 30 ☐ Shale Packer
Initial Shut-In 30 ☐ Shale Packer
Final Flow 45 ☐ Extra Packer
Final Shut-In 60 ☐ Extra Recorder
☐ Day Standby Sub Total 0
☒ Accessibility 150 Total 1533.30
Sub Total 1533.30 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]
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