



1198862

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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TICKET 25121

CHARGE TO: *Metrician Oil*  
ADDRESS  
CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS  
1. *Harold* WELL/PROJECT NO. *3-A* LEASE *Harold* COUNTY/PARISH *Becks* CITY *Becks* STATE *LA* DATE *10-17-13* OWNER  
2. *Moss Lake* CONTRACTOR *Metrician Oil Co* RIG NAME/NO. *#24 Tony* ORDER NO.  
3. SERVICE TYPE  SALES JOB PURPOSE *Comment 2-Stage L.S.* DELIVERED TO *Sw/ Zurich, LA* WELL LOCATION  
4. WELL TYPE *Oil* WELL CATEGORY *infield* WELL PERMIT NO.

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1		MILEAGE #113	4/1 mi				600	240.00
579		1		Pump Charge - cut Top Stage	1 ea	3822/A			200.00	200.00
281		1		Liquid HCl	4 gal				25.00	100.00
281		1		Mixed Flask	500 gal				1.25	625.00
290		1		D-Air	4 gal				41.00	168.00
402		1		Centrifuges	10 ea	5 1/2 IN			70.00	700.00
403		1		Comment Baskets	1 ea	5 1/2 IN			285.00	285.00
407		1		Fusant Flat Shoe w/ 4-6 in bell	1 ea	5 1/2 IN			375.00	375.00
408		1		D.V. Tool X Set	1 ea	5 1/2 IN			330.00	330.00
417		1		D.V. L.D. Plug & Baffle	1 ea	5 1/2 IN			300.00	300.00
419		1		Retaining Head Rental	1 ea	5 1/2 IN			300.00	300.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *Jeff Crawford* TIME SIGNED *10-17-13*  A.M.  P.M.

REMIT PAYMENT TO:  
SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY  
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
WE UNDERSTOOD AND MET YOUR NEEDS?  
OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL *8193.00*  
PAGE TOTAL *8767.65*  
Subtotal *17162.65*  
TAX *501.41*  
TOTAL *17964.06*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Abie Samma* APPROVAL

Thank You!





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 25121

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY.		LUM		UNIT PRICE	AMOUNT							
		LOC	ACCT			DF	QTY.	LUM	QTY.			LUM						
325		2			Structural Concrete	152	SFS	1410	1b	14.00	2100.00							
276		2			Fluoride	35	lb			2.00	70.00							
283		2			Salt	705	lb			2.00	1410.00							
284		2			Colseal	7	SFS			35.00	245.00							
286		2			Hebel-1	71	lb			8.00	568.00							
320		2			Sub base	225	SFS	2234	lb	17.00	3825.00							
276		2			Fluoride	57	lb			2.00	114.00							
581		2			Service Charge			375	SFS	2.00	750.00							
583		2			Mileage Charge			1141.65	TON MILE	1.00	1141.65							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">CUBIC FEET</td> <td style="width: 50%;">750.00</td> </tr> <tr> <td>LOADED MILES</td> <td>1141.65</td> </tr> <tr> <td>TOTAL WEIGHT</td> <td>35255 lb</td> </tr> <tr> <td>TON MILE</td> <td>1141.65</td> </tr> </table>											CUBIC FEET	750.00	LOADED MILES	1141.65	TOTAL WEIGHT	35255 lb	TON MILE	1141.65
CUBIC FEET	750.00																	
LOADED MILES	1141.65																	
TOTAL WEIGHT	35255 lb																	
TON MILE	1141.65																	
CONTINUATION TOTAL																		

846965

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7883

Date	10-10-13	Sec.	33	Twp.	9	Range	19	County	ROCKS	State	KS	On Location	9, 30pm	Finish	10, 30pm
------	----------	------	----	------	---	-------	----	--------	-------	-------	----	-------------	---------	--------	----------

Lease Hamel Location Zurich 1W 15 1/2 E 1/4  
Well No. 3 A Owner \_\_\_\_\_

Contractor Martin 24 To Quality Oilwell Cementing, Inc.  
Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 221 Charge To Meridian Energy  
Csg. 8 5/8 Depth \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. 20 FT Shoe Joint 20 FT Cement Amount Ordered 150 COM 3% CC  
Meas Line \_\_\_\_\_ Displace 13 BBL 2% gel

**EQUIPMENT**  
Common 150

Pumptrk	15	No.	Cementer	<u>Matt</u>	Poz. Mix
			Helper		
Bulktrk	14	No.	Driver	<u>Mark</u>	Gel. <u>3</u>
			Driver		
Bulktrk	<u>pa</u>	No.	Driver	<u>Clayton</u>	Calcium <u>5</u>
			Driver		

**JOB SERVICES & REMARKS**  
Remarks: \_\_\_\_\_

Rat Hole \_\_\_\_\_ Salt \_\_\_\_\_  
Mouse Hole \_\_\_\_\_ Flowseal \_\_\_\_\_

Centralizers \_\_\_\_\_ Mud CLR 48 \_\_\_\_\_  
Baskets \_\_\_\_\_ CFL-117 or CD110 CAF 38 \_\_\_\_\_

D/V or Port Collar \_\_\_\_\_ Sand \_\_\_\_\_

Cement did Handling 158  
Circulate Mileage \_\_\_\_\_

**FLOAT EQUIPMENT**  
Guide Shoe \_\_\_\_\_

Centralizer \_\_\_\_\_  
Baskets \_\_\_\_\_

AFU Inserts \_\_\_\_\_  
Float Shoe \_\_\_\_\_

Latch Down \_\_\_\_\_

Pumptrk Charge Surface  
Mileage 33

Tax \_\_\_\_\_

Discount \_\_\_\_\_

Total Charge \_\_\_\_\_  
Signature Anthony Martin



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Neal Lafon Realty Inc  
 1475 Ward Dr  
 Franktown Co 80116  
 ATTN: Pat Deenihan

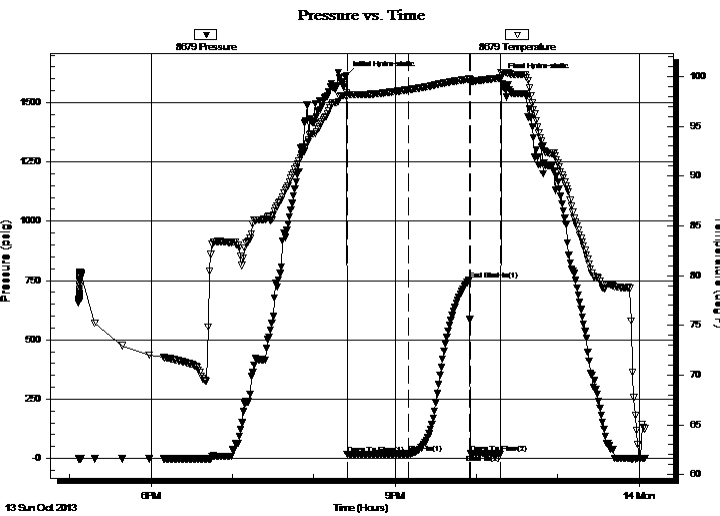
**33-9s-19w**  
**Hamel 3A**  
 Job Ticket: 52537      **DST#: 1**  
 Test Start: 2013.10.13 @ 17:06:34

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:24:34  
 Time Test Ended: 00:05:34  
 Interval: **3359.00 ft (KB) To 3383.00 ft (KB) (TVD)**  
 Total Depth: 3383.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jeff Brown  
 Unit No: 67  
 Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8679      Inside**  
 Press @ Run Depth: 20.48 psig @ 3360.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.13      End Date: 2013.10.14      Last Calib.: 2013.10.14  
 Start Time: 17:06:35      End Time: 00:04:34      Time On Btm: 2013.10.13 @ 20:24:04  
 Time Off Btm: 2013.10.13 @ 22:18:04

TEST COMMENT: IFP=Weak blow built to 1/4 in  
 ISI=Dead no blow back  
 FFP=Dead no blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.24	98.32	Initial Hydro-static
1	17.82	98.05	Open To Flow (1)
46	20.48	98.68	Shut-In(1)
91	752.99	99.74	End Shut-In(1)
92	20.74	99.49	Open To Flow (2)
114	19.38	99.85	Shut-In(2)
114	1605.83	100.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud with oil spots	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Neal Lafon Realty Inc  
1475 Ward Dr  
Franktown Co 80116  
ATTN: Pat Deenihan

**33-9s-19w**  
**Hamel 3A**  
Job Ticket: 52537      **DST#: 1**  
Test Start: 2013.10.13 @ 17:06:34

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 76.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

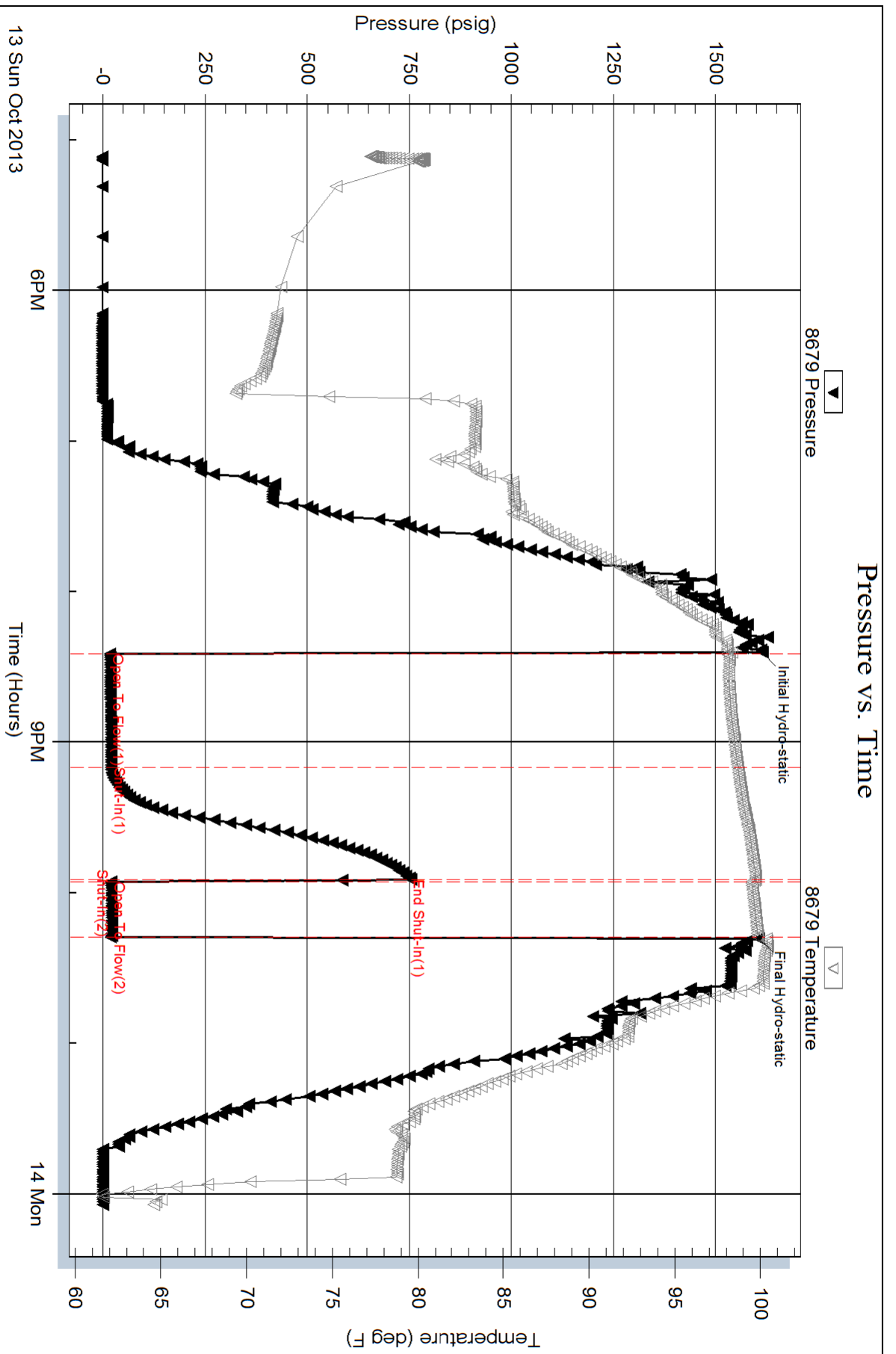
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud with oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Neal Lafon Realty Inc  
 1475 Ward Dr  
 Franktown Co 80116  
 ATTN: Pat Deenihan

**33-9s-19w**

**Hamel 3A**

Job Ticket: 52538

**DST#: 2**

Test Start: 2013.10.14 @ 11:24:22

## GENERAL INFORMATION:

Formation: **LKC- C&D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:20:52  
 Time Test Ended: 19:00:52  
 Interval: **3453.00 ft (KB) To 3494.00 ft (KB) (TVD)**  
 Total Depth: 3494.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jeff Brown  
 Unit No: 67  
 Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

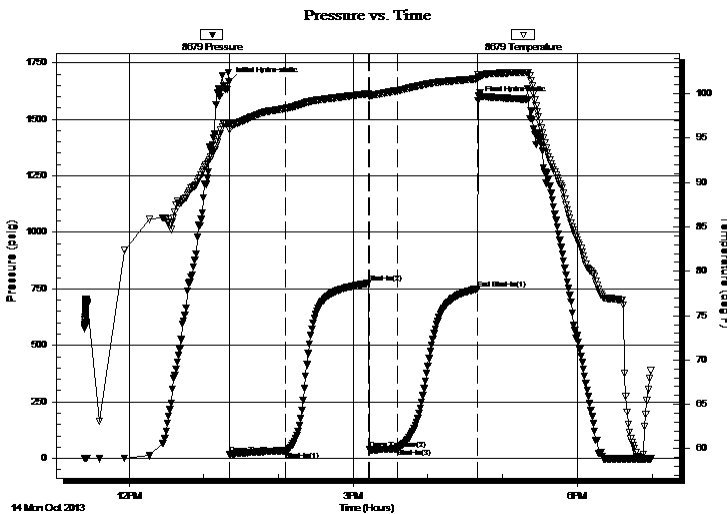
**Serial #: 8679**

**Inside**

Press @ Run Depth: 33.53 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.14 End Date: 2013.10.14 Last Calib.: 2013.10.14  
 Start Time: 11:24:23 End Time: 18:58:52 Time On Btm: 2013.10.14 @ 13:20:22  
 Time Off Btm: 2013.10.14 @ 16:40:22

**TEST COMMENT:** IFP=Weak blow built to 2 in  
 ISI=Dead no blow back  
 FFP=Weak surface blow built to 1/4 in died out in 8 min  
 FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.42	96.76	Initial Hydro-static
1	18.31	95.92	Open To Flow (1)
46	33.53	98.36	Shut-In(1)
112	775.10	100.02	Shut-In(2)
113	39.87	99.68	Open To Flow (2)
136	45.02	100.35	Shut-In(3)
200	750.63	101.69	End Shut-In(1)
200	1581.76	102.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 10%O 90%M	0.30

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Neal Lafon Realty Inc  
1475 Ward Dr  
Franktown Co 80116  
ATTN: Pat Deenihan

**33-9s-19w**  
**Hamel 3A**  
Job Ticket: 52538      **DST#: 2**  
Test Start: 2013.10.14 @ 11:24:22

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

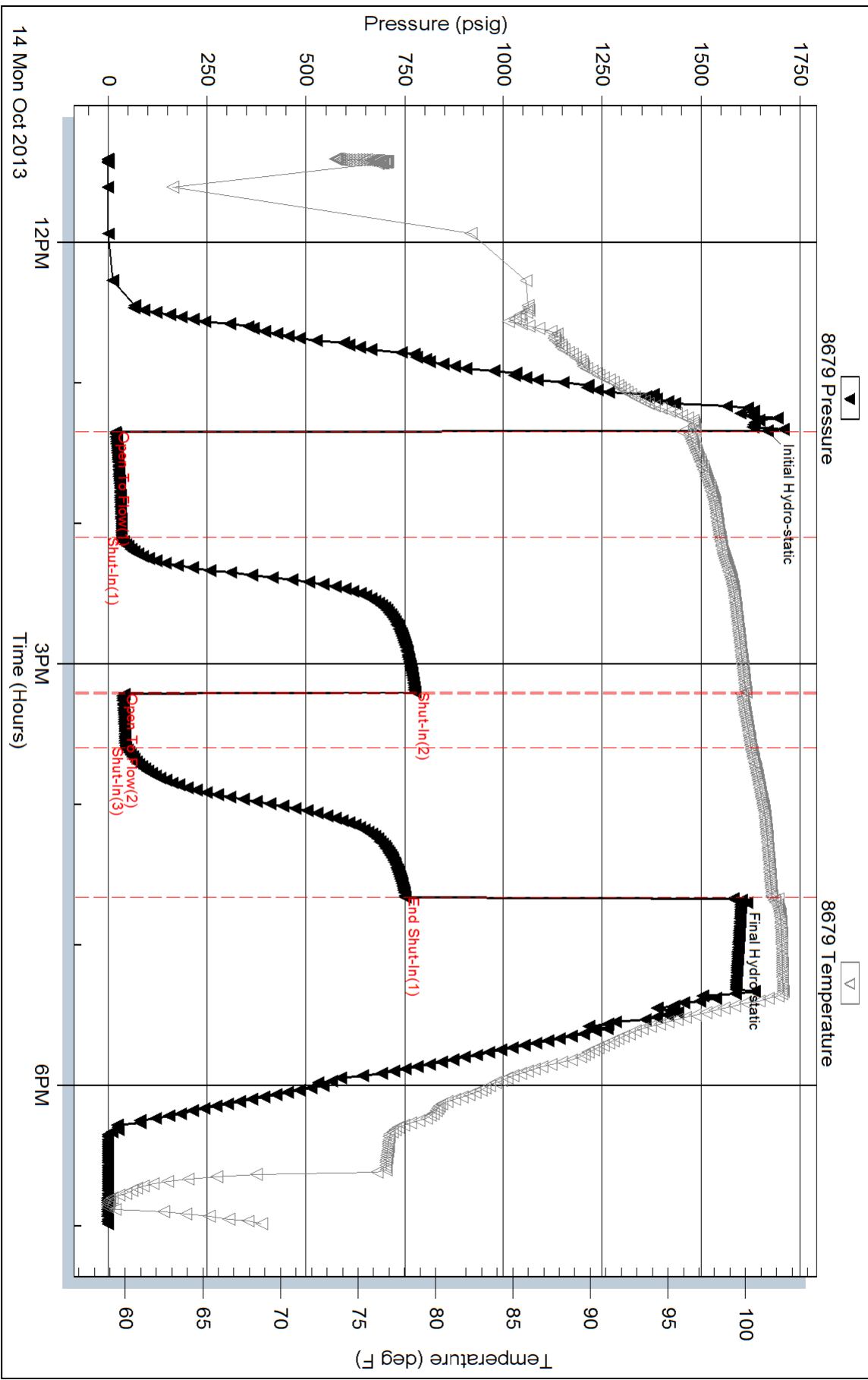
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 10%O 90%M	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Meridian Energy Inc  
 1475 Ward Dr  
 Franktown Co 80116  
 ATTN: Pat Deenihan

**33-9s-19w**

**Hamel 3A**

Job Ticket: 52539

**DST#: 3**

Test Start: 2013.10.15 @ 05:24:55

## GENERAL INFORMATION:

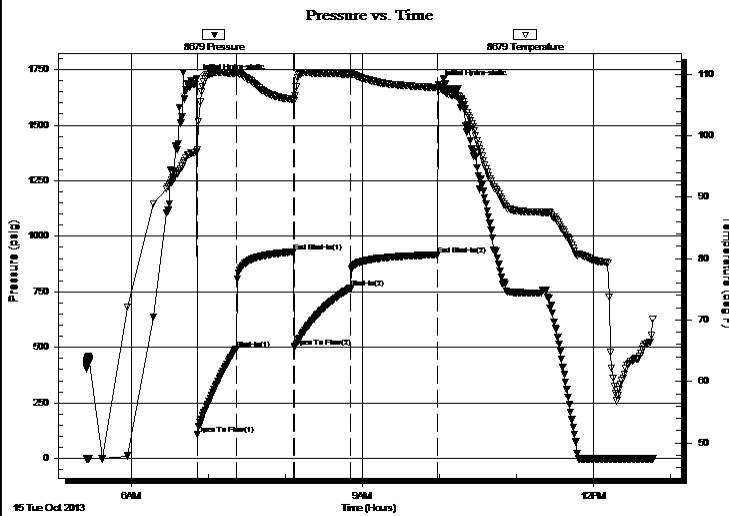
Formation: **LKC=H & I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:51:25  
 Time Test Ended: 12:48:55  
 Interval: **3548.00 ft (KB) To 3588.00 ft (KB) (TVD)**  
 Total Depth: 3588.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jeff Brown  
 Unit No: 67  
 Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8679

Inside

Press @ Run Depth: 765.43 psig @ 3552.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.15 End Date: 2013.10.15 Last Calib.: 2013.10.15  
 Start Time: 05:24:56 End Time: 12:46:55 Time On Btm: 2013.10.15 @ 06:50:25  
 Time Off Btm:

TEST COMMENT: IFP=Strong blow BOB in 3 min  
 ISI=Dead no blow back  
 FFP=Weak blow built to 4 in died back to 1/8 in  
 FSI=Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.08	97.32	Initial Hydro-static
1	107.54	97.78	Open To Flow (1)
31	492.46	110.22	Shut-In(1)
76	929.93	105.90	End Shut-In(1)
77	501.27	105.74	Open To Flow (2)
121	765.43	110.02	Shut-In(2)
188	917.06	107.75	End Shut-In(2)
189	1682.09	107.72	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1550.00	MW 15%M 85%W	20.70

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Meridian Energy Inc

**33-9s-19w**

1475 Ward Dr  
Franktown Co 80116

**Hamel 3A**

Job Ticket: 52539

**DST#: 3**

ATTN: Pat Deenihan

Test Start: 2013.10.15 @ 05:24:55

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1550.00	MW 15%M 85%W	20.704

Total Length: 1550.00 ft      Total Volume: 20.704 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

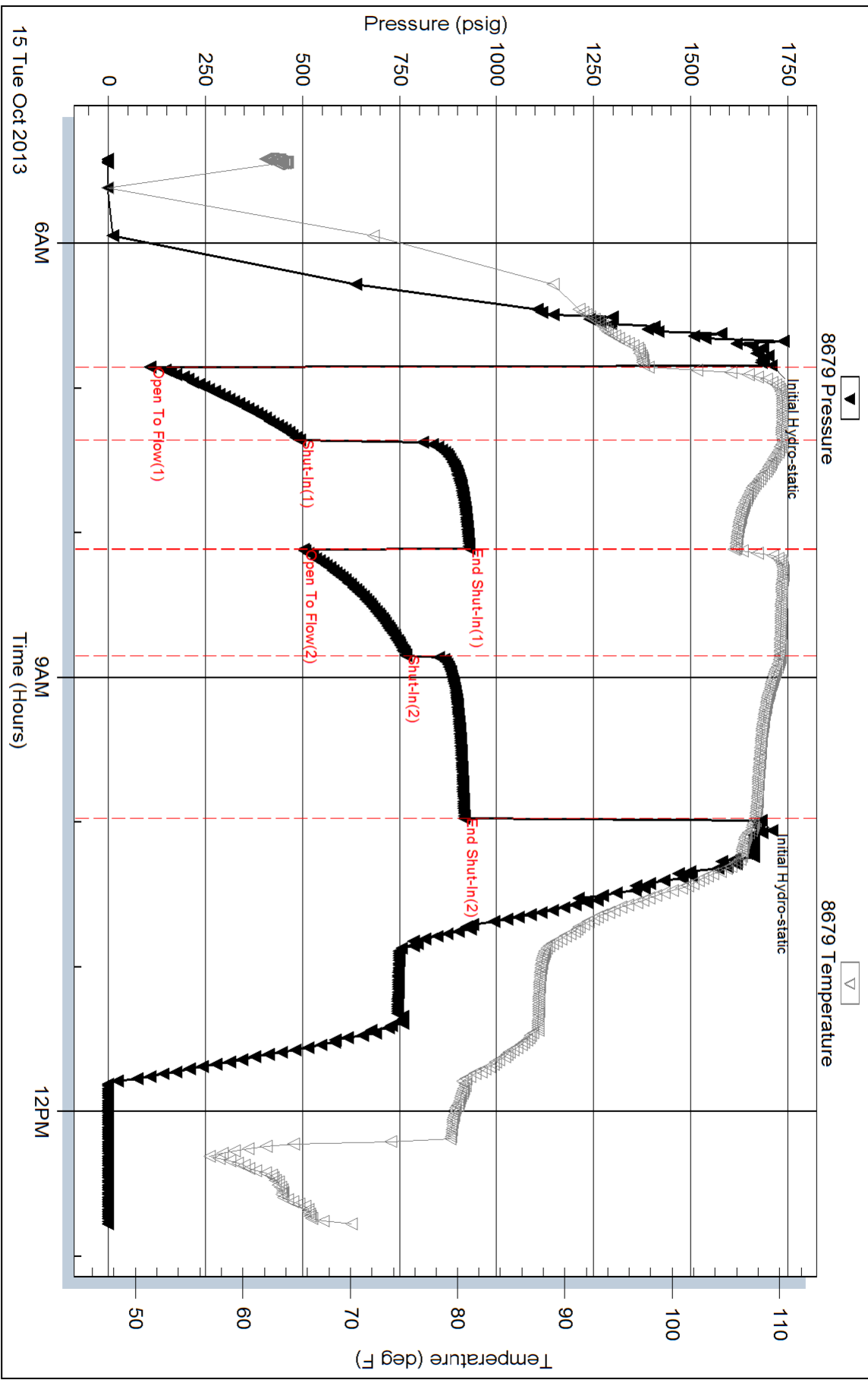
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Meridian Energy Inc

**33-9s-19w**

1475 Ward Dr  
Franktown Co 80116

**Hamel 3A**

Job Ticket: 52540

**DST#: 4**

ATTN: Pat Deenihan

Test Start: 2013.10.15 @ 21:22:48

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud with oil spots	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

