



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1173185
OIL & GAS CONSERVATION DIVISION

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
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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: _____

1173185

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
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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: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Land And Energy LLC
Well Name	Leiker 8-15 1
Doc ID	1173185

All Electric Logs Run

Compensated Sonic
Micro Resistivity
Cement Bond
Compensated Density Neutron
Dual Induction
Radiation Guard

SCHIPPER'S OIL FIELD SERVICES, L.L.C. 1165

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE <u>12-4-13</u>	SEC. <u>8</u>	TWP. <u>15</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION	JOB START <u>7:45pm</u>	JOB FINISH <u>2:45pm</u>
LEASE <u>Land</u>		WELL #. <u>1</u>		LOCATION		COUNTY	STATE
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR Royal #1
 TYPE OF JOB long surface
 HOLE SIZE 12 1/4 T.D. 1066
 CASING SIZE 8 5/8 DEPTH 1066 #
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 600psi MINIMUM 200psi
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS
 DISPLACEMENT 679 bbl
 EQUIPMENT

OWNER
 CEMENT AMOUNT ORDERED 4255x com 3% (11 2) gel
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @
 TOTAL

PUMP TRUCK CEMENTER Heath
 # P1 HELPER Cody
 BULK TRUCK DRIVER Mark
 # B1
 BULK TRUCK DRIVER

REMARKS:
Ran 2455 of 8 5/8 casing and landing
of circulation and hook up and mixed
4255x - shut down released plug and
disg 679 bbl of 429 - plug landed @
600psi - cement did circulate to
surface

T HANK YOU!!
 CHARGE TO: American Land and energy
 STREET
 CITY STATE ZIP

Schippers Oil Field Services, L.L.C.,
 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
 SIGNATURE

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @
 TOTAL

PLUG & FLOAT EQUIPMENT
1- 6 5/16 bucket @
3- 8 5/16 cent @
1- Rubber Plug @
1- bottle plate @
 TOTAL

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

SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1170

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT:
Russell, KS

DATE <u>12-12-13</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>12:45pm</u>	JOB FINISH <u>1:45pm</u>
LEASE <u>Lojkar</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR <u>Royal #1</u>	OWNER
TYPE OF JOB <u>Long string</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>3697</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>3607</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>16 ft</u>	
PERFS	
DISPLACEMENT <u>87.6 bbl</u>	
EQUIPMENT	

PUMP TRUCK # <u>P1</u>	CEMENTER <u>Heath</u>	HELPER <u>Coody</u>
BULK TRUCK # <u>B4</u>	DRIVER <u>Mark</u>	
BULK TRUCK #	DRIVER	

CEMENT AMOUNT ORDERED <u>220 sy com 10% Salt + 1% gel 2% Plaster</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
HANDLING	@
MILEAGE	
TOTAL	

REMARKS:

Ran 7 sy of 5% casing - hook up and circulation plug RT - 30 sy MA - 15 sy - hook up to 5% and mix 170 sy - shut down released plug and wash pump and lines clean - hook up and J. 5087.6 bbl of H₂O. 1.54 pressure @ 600 psig plug landed @ 1000 psig - Released and float VED.

CHARGE TO: American Land & Energy
STREET _____
CITY _____ STATE _____ ZIP _____

Schippers Oil Field Services, L.L.C.,
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. Thank You!

PRINTED NAME Doug Budig
SIGNATURE Doug Budig

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@
TOTAL	

PLUG & FLOAT EQUIPMENT

<u>1-MEU shoe</u>	@
<u>2-COP</u>	@
<u>2-bosser</u>	@
<u>2-D plug and bottle</u>	@
<u>50 gal mud flush</u>	@
TOTAL	

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



DRILL STEM TEST REPORT

Prepared For: **American Land & Energy LLC**

7277 Tenby Way Box 2287
Castle Rock CO 80104

ATTN: Rod Anderson

Leiker 8-15 #1

8 15s 16w Ellis,KS

Start Date: 2013.12.08 @ 15:47:00

End Date: 2013.12.08 @ 22:26:00

Job Ticket #: 55800 DST #: 1

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

Printed: 2013.12.13 @ 13:39:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 55800

DST#: 1

ATTN: Rod Anderson

Test Start: 2013.12.08 @ 15:47:00

GENERAL INFORMATION:

Formation: **LKC " A - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:15

Time Test Ended: 22:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: 3182.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 126.29 psig @ 3188.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.08

End Date:

2013.12.08

Last Calib.:

2013.12.08

Start Time: 15:47:02

End Time:

22:26:00

Time On Btm:

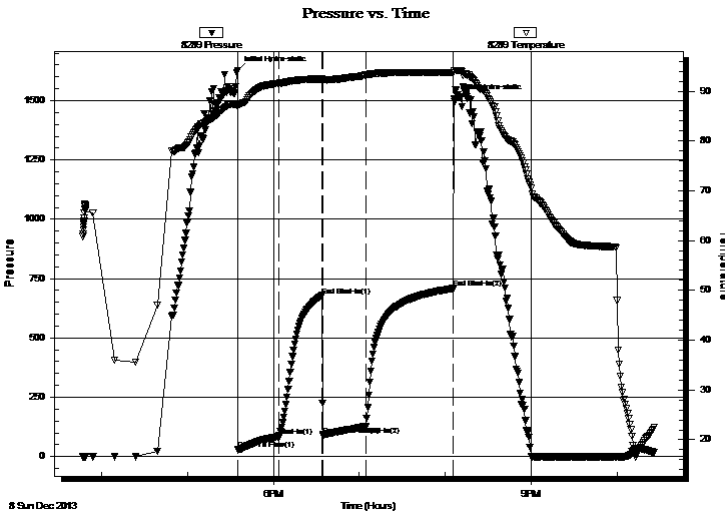
2013.12.08 @ 17:35:00

Time Off Btm:

2013.12.08 @ 20:06:15

TEST COMMENT: 30-IFP- BOB in 2 min.
30-ISIP- Surface Blow Died Back in 8min.
30-FFP- BOB in 1min 10sec.
60-FSIP- BOB in 16min Died Back in 28min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.42	87.52	Initial Hydro-static
1	29.62	86.96	Open To Flow (1)
29	84.20	91.56	Shut-In(1)
59	678.40	92.47	End Shut-In(1)
60	89.73	92.30	Open To Flow (2)
90	126.29	93.23	Shut-In(2)
151	708.77	93.80	End Shut-In(2)
152	1508.92	94.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
254.00	WMCGO 10%w 15%m 15%g 60%o	3.56
30.00	Mud 100%	0.42
0.00	792 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 55800

DST#: 1

ATTN: Rod Anderson

Test Start: 2013.12.08 @ 15:47:00

Tool Information

Drill Pipe:	Length: 3169.00 ft	Diameter: 3.80 inches	Volume: 44.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 44.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3182.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	109.00 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			3162.00	
Shut In Tool	5.00			3167.00	
Hydraulic tool	5.00			3172.00	
Packer	5.00			3177.00	21.00 Bottom Of Top Packer
Packer	5.00			3182.00	
Stubb	1.00			3183.00	
Perforations	4.00			3187.00	
Change Over Sub	1.00			3188.00	
Recorder	0.00	8789	Inside	3188.00	
Recorder	0.00	8289	Outside	3188.00	
Blank Spacing	63.00			3251.00	
Change Over Sub	1.00			3252.00	
Perforations	15.00			3267.00	
Bullnose	3.00			3270.00	88.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 55800

DST#: 1

ATTN: Rod Anderson

Test Start: 2013.12.08 @ 15:47:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 9.50 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
254.00	WMCGO 10%w 15%m 15%g 60%o	3.563
30.00	Mud 100%	0.421
0.00	792 GIP	0.000

Total Length: 284.00 ft Total Volume: 3.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

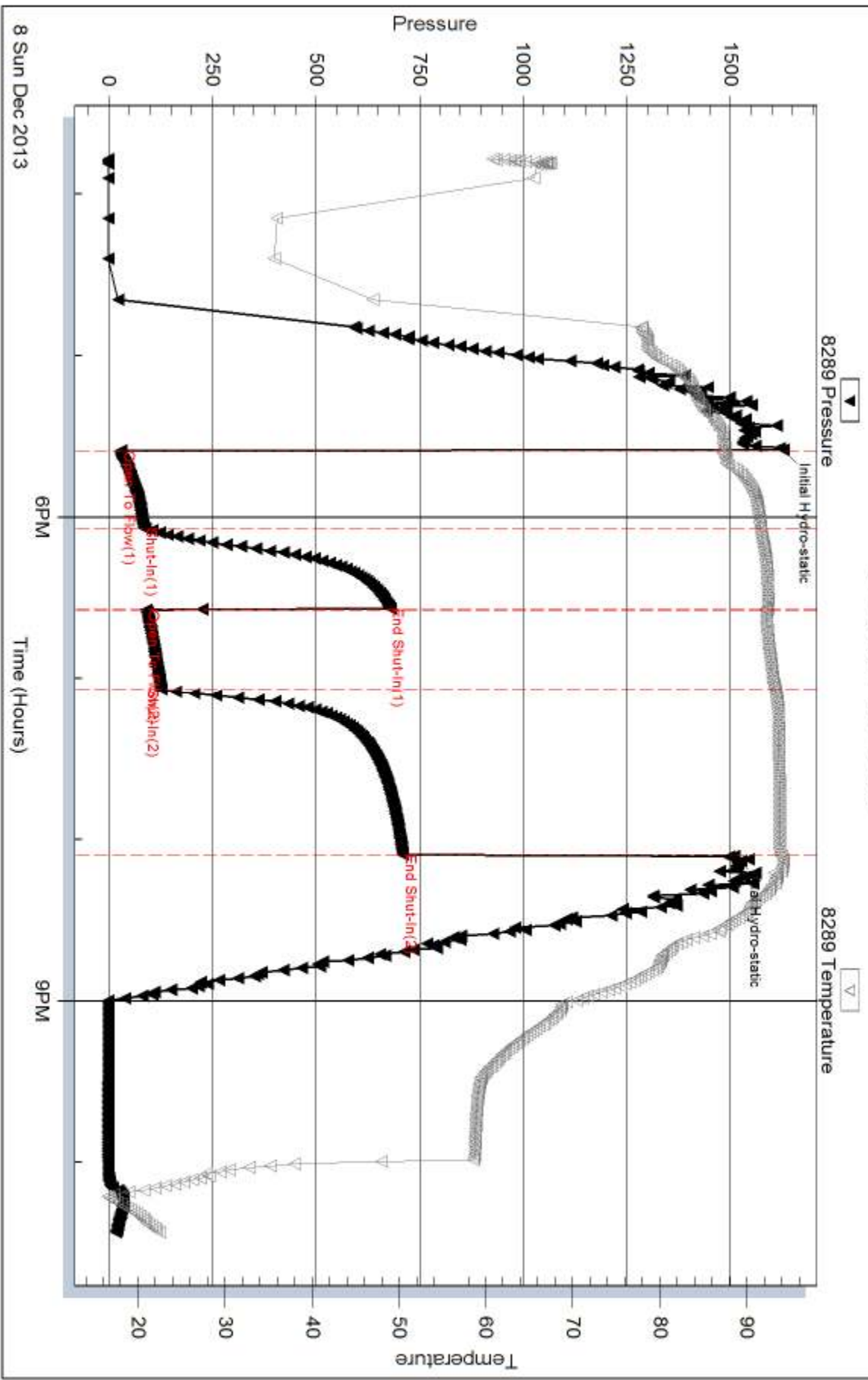
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



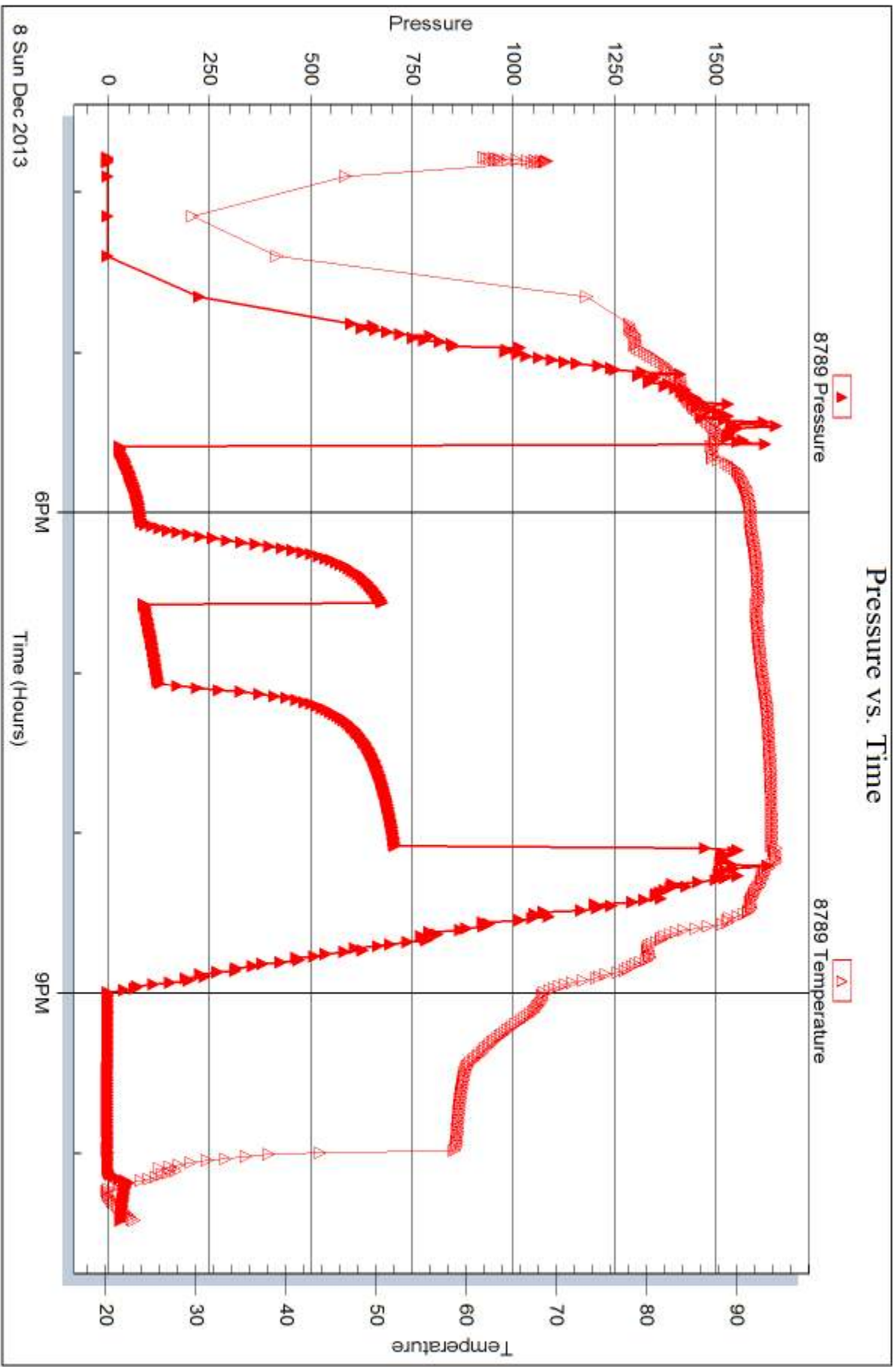
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Inside

American Land & Energy LLC

Leiker 8-15 #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 55800

Printed: 2013.12.13 @ 13:40:01



DRILL STEM TEST REPORT

Prepared For: **American Land & Energy LLC**

7277 Tenby Way Box 2287
Castle Rock CO 80104

ATTN: Rod Anderson

Leiker 8-15 #1

8 15s 16w Ellis,KS

Start Date: 2013.12.09 @ 07:04:00

End Date: 2013.12.09 @ 14:03:00

Job Ticket #: 50401 DST #: 2

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

Printed: 2013.12.13 @ 13:39:23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50401

DST#: 2

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 07:04:00

GENERAL INFORMATION:

Formation: **LKC " E - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:15

Time Test Ended: 14:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3270.00 ft (KB) To 3335.00 ft (KB) (TVD)

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 83.92 psig @ 3276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.09 End Date: 2013.12.09

Last Calib.: 2013.12.09

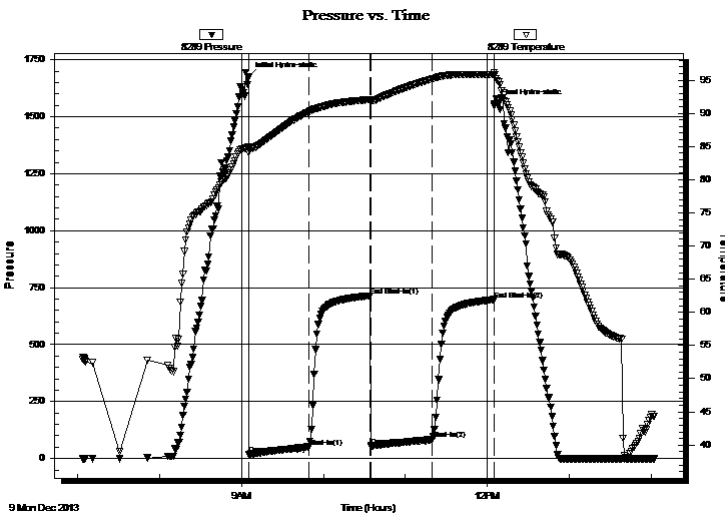
Start Time: 07:04:02 End Time: 14:03:00

Time On Btm: 2013.12.09 @ 09:05:00

Time Off Btm: 2013.12.09 @ 12:05:00

TEST COMMENT: 45-IFP- Surface Blow For 18min. BOB in 19min.
45-ISIP- Surface Blow in 9min.
45-FFP- Surface Blow Building to 8 1/2in.
45-FSIP- Surface Blow in 4min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.70	84.89	Initial Hydro-static
1	18.99	84.04	Open To Flow (1)
45	51.65	90.20	Shut-In(1)
90	714.28	92.06	End Shut-In(1)
90	55.28	91.83	Open To Flow (2)
135	83.92	95.17	Shut-In(2)
180	697.55	95.87	End Shut-In(2)
180	1557.27	96.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
146.00	OSMCW 25%w 75%w	2.05
0.00	170' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50401

DST#: 2

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 07:04:00

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	57000.00 lb
			<u>Total Volume: 45.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3270.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	86.00 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			3250.00	
Shut In Tool	5.00			3255.00	
Hydraulic tool	5.00			3260.00	
Packer	5.00			3265.00	21.00 Bottom Of Top Packer
Packer	5.00			3270.00	
Stubb	1.00			3271.00	
Perforations	4.00			3275.00	
Change Over Sub	1.00			3276.00	
Recorder	0.00	8789	Inside	3276.00	
Recorder	0.00	8289	Outside	3276.00	
Blank Spacing	32.00			3308.00	
Change Over Sub	1.00			3309.00	
Perforations	23.00			3332.00	
Bullnose	3.00			3335.00	65.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50401

DST#: 2

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 07:04:00

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:

82500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.48 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
146.00	OSMCW 25% m 75% w	2.048
0.00	170' GIP	0.000

Total Length: 146.00 ft Total Volume: 2.048 bbl

Num Fluid Samples: 0

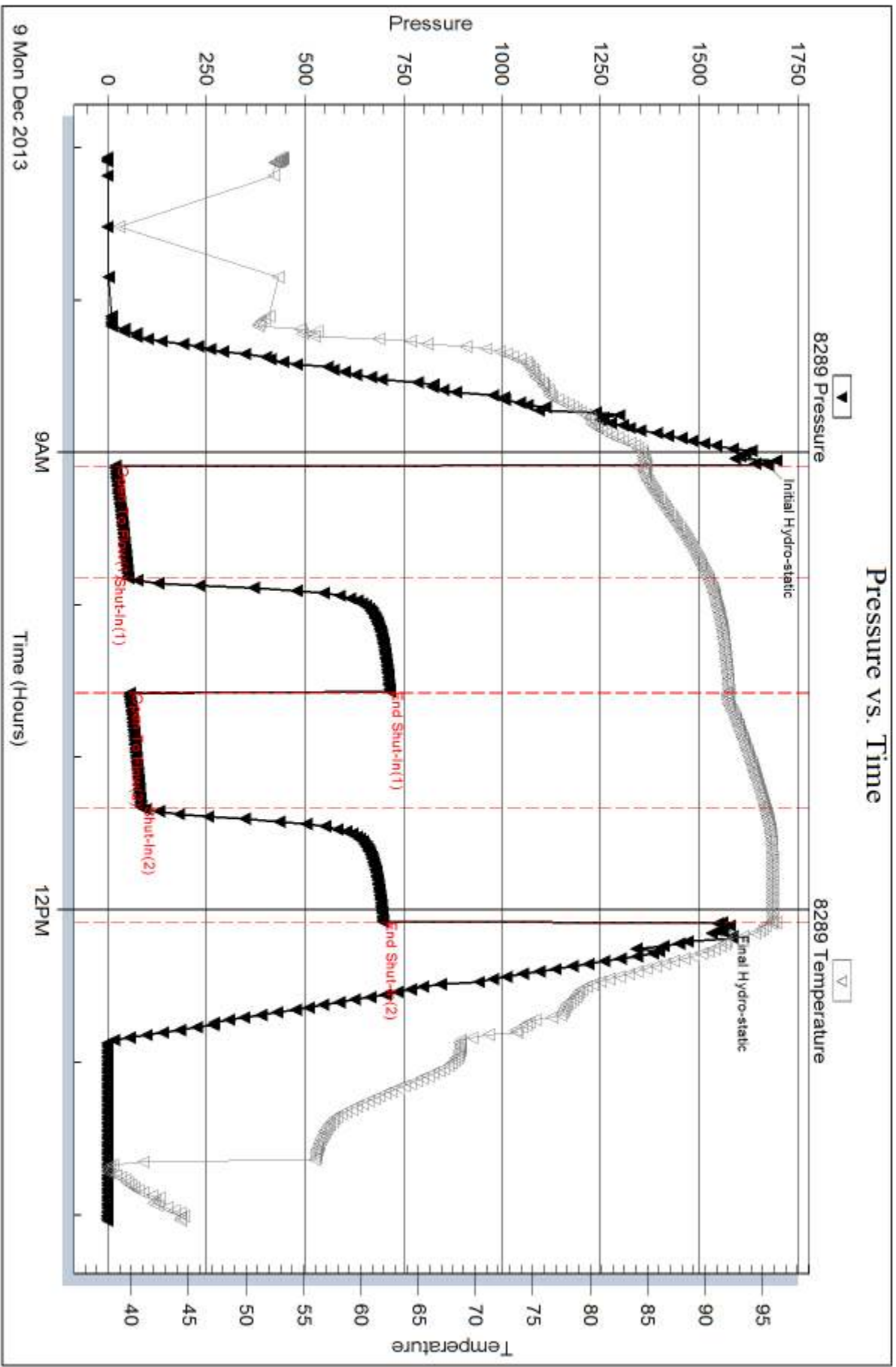
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .150 @ 45



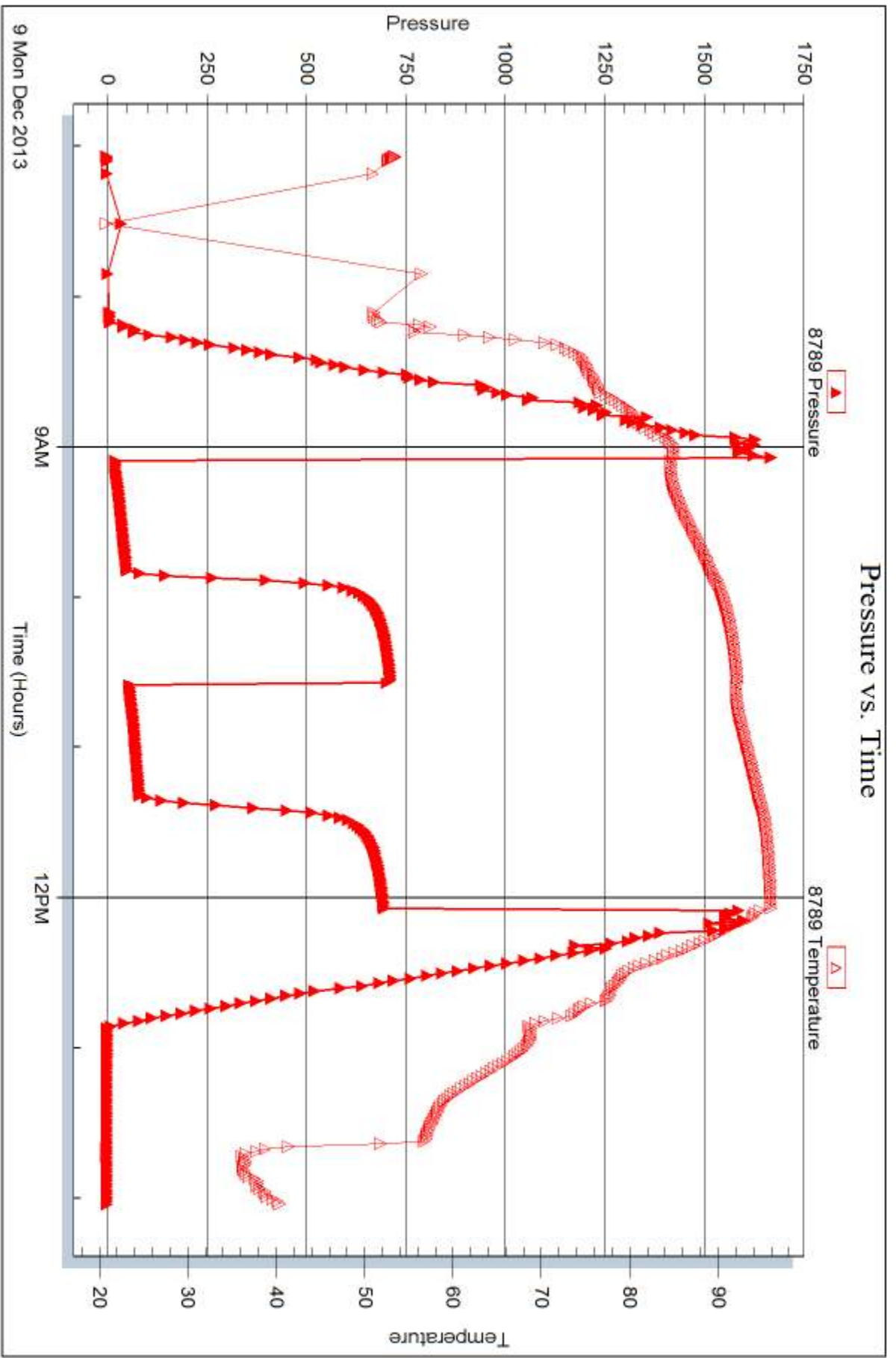
Serial #: 8789

Inside

American Land & Energy LLC

Leiker 8-15 #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 50401

Printed: 2013.12.13 @ 13:39:25



DRILL STEM TEST REPORT

Prepared For: **American Land & Energy LLC**

7277 Tenby Way Box 2287
Castle Rock CO 80104

ATTN: Rod Anderson

Leiker 8-15 #1

8 15s 16w Ellis,KS

Start Date: 2013.12.09 @ 22:11:00

End Date: 2013.12.10 @ 04:07:00

Job Ticket #: 50402 DST #: 3

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

Printed: 2013.12.13 @ 13:38:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50402

DST#: 3

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 22:11:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:45

Time Test Ended: 04:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3334.00 ft (KB) To 3395.00 ft (KB) (TVD)

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 23.15 psig @ 3337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.09 End Date: 2013.12.10

Last Calib.: 2013.12.10

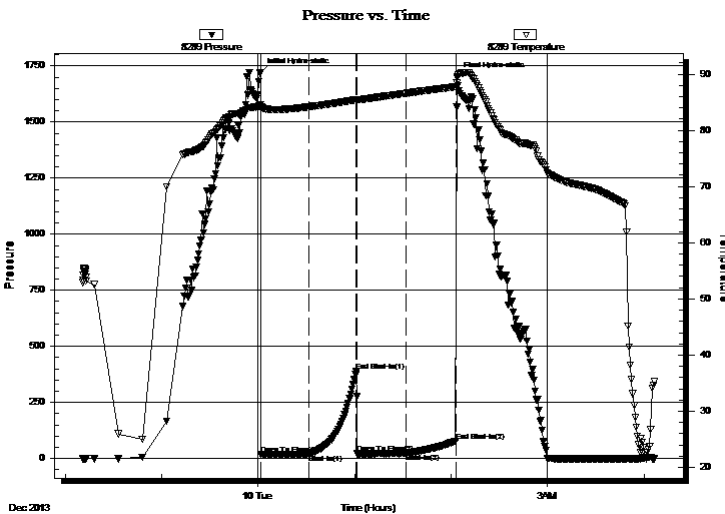
Start Time: 22:11:02 End Time: 04:07:00

Time On Btm: 2013.12.10 @ 00:01:30

Time Off Btm: 2013.12.10 @ 02:03:45

TEST COMMENT: 30-IFP- Good Surge on Tool Open -- No Blow
30-ISIP- No Blow
30-FFP- Weak Surface Blow
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.44	84.54	Initial Hydro-static
1	17.74	83.94	Open To Flow (1)
30	20.46	84.18	Shut-In(1)
60	389.26	85.45	End Shut-In(1)
60	21.57	85.36	Open To Flow (2)
91	23.15	86.58	Shut-In(2)
122	78.95	87.78	End Shut-In(2)
123	1702.88	89.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil Speck Mud 100%	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50402

DST#: 3

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 22:11:00

GENERAL INFORMATION:

Formation: **LKC " H - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:45

Time Test Ended: 04:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: **3334.00 ft (KB) To 3395.00 ft (KB) (TVD)**

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.09 End Date: 2013.12.10

Last Calib.: 2013.12.10

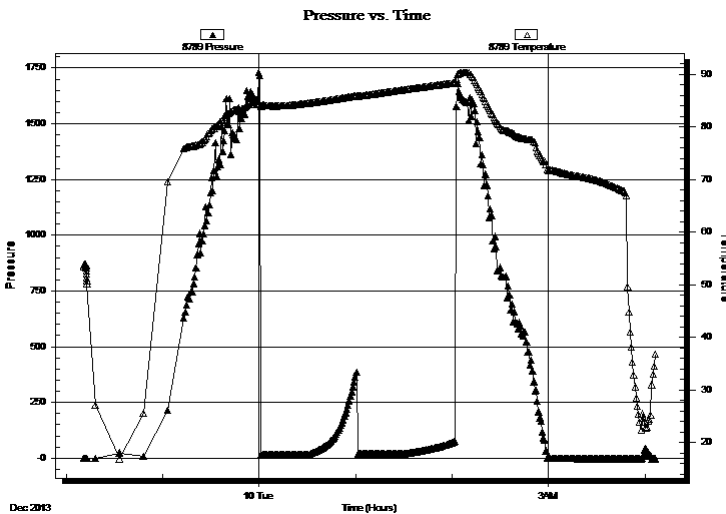
Start Time: 22:11:02 End Time: 04:06:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- Good Surge on Tool Open -- No Blow
30-ISIP- No Blow
30-FFP- Weak Surface Blow
30-FSIP- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil Speck Mud 100%	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50402

DST#: 3

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 22:11:00

Tool Information

Drill Pipe:	Length: 3331.00 ft	Diameter: 3.80 inches	Volume: 46.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 46.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3334.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	82.00 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			3314.00	
Shut In Tool	5.00			3319.00	
Hydraulic tool	5.00			3324.00	
Packer	5.00			3329.00	21.00 Bottom Of Top Packer
Packer	5.00			3334.00	
Stubb	1.00			3335.00	
Perforations	1.00			3336.00	
Change Over Sub	1.00			3337.00	
Recorder	0.00	8789	Inside	3337.00	
Recorder	0.00	8289	Outside	3337.00	
Blank Spacing	31.00			3368.00	
Change Over Sub	1.00			3369.00	
Perforations	23.00			3392.00	
Bullnose	3.00			3395.00	61.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50402

DST#: 3

ATTN: Rod Anderson

Test Start: 2013.12.09 @ 22:11:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Oil Speck Mud 100%	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

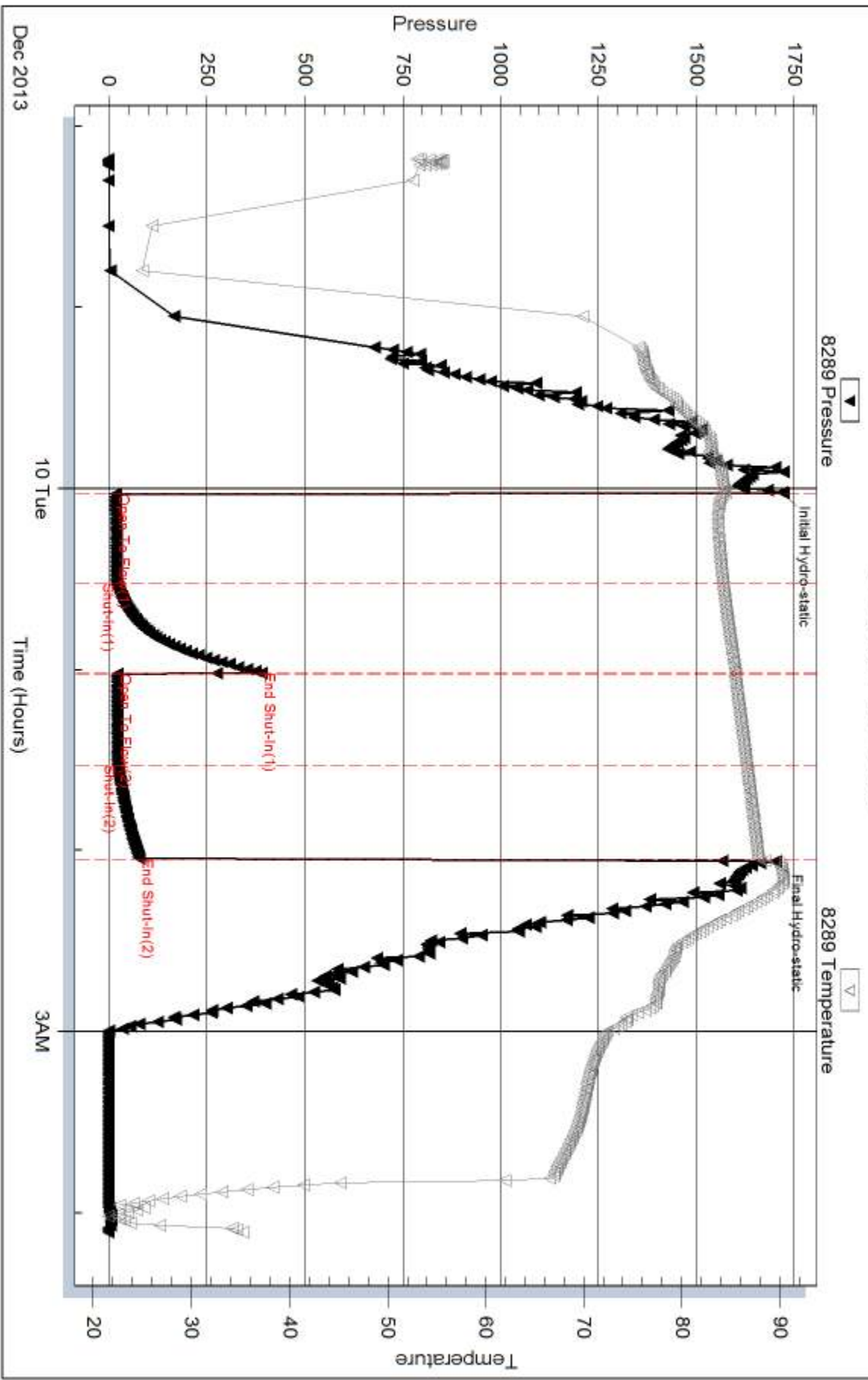
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



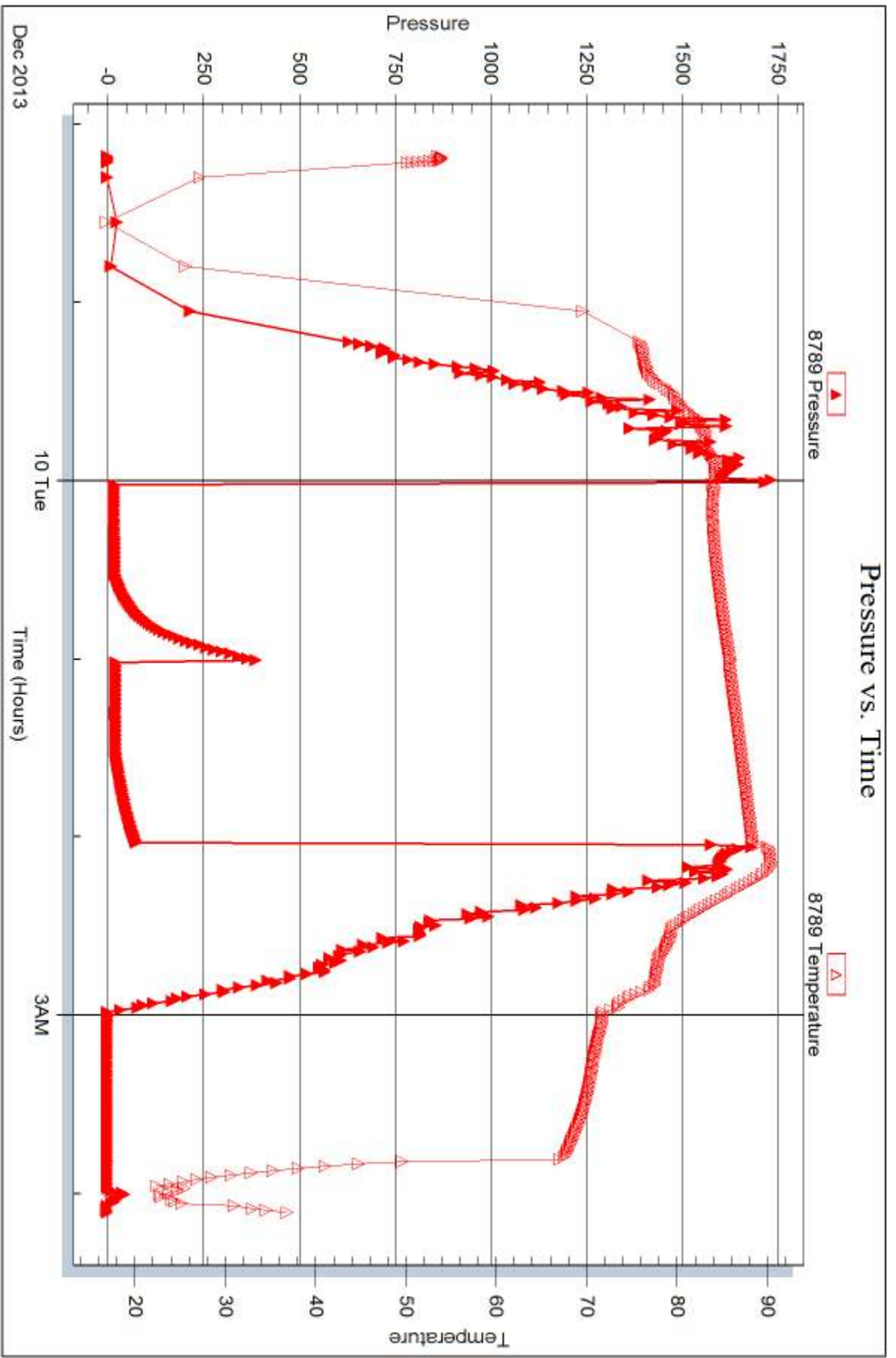
Serial #: 8789

Inside

American Land & Energy LLC

Leiker 8-15 #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50402

Printed: 2013.12.13 @ 13:38:48



DRILL STEM TEST REPORT

Prepared For: **American Land & Energy LLC**

7277 Tenby Way Box 2287
Castle Rock CO 80104

ATTN: Rod Anderson

Leiker 8-15 #1

8 15s 16w Ellis,KS

Start Date: 2013.12.10 @ 12:37:00

End Date: 2013.12.10 @ 17:30:00

Job Ticket #: 50403 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.13 @ 13:38:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50403

DST#: 4

ATTN: Rod Anderson

Test Start: 2013.12.10 @ 12:37:00

GENERAL INFORMATION:

Formation: **LKC " K & L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:04:15

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3396.00 ft (KB) To 3445.00 ft (KB) (TVD)

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3445.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 18.28 psig @ 3404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.10

End Date:

2013.12.10

Last Calib.:

2013.12.10

Start Time: 12:37:02

End Time:

17:29:45

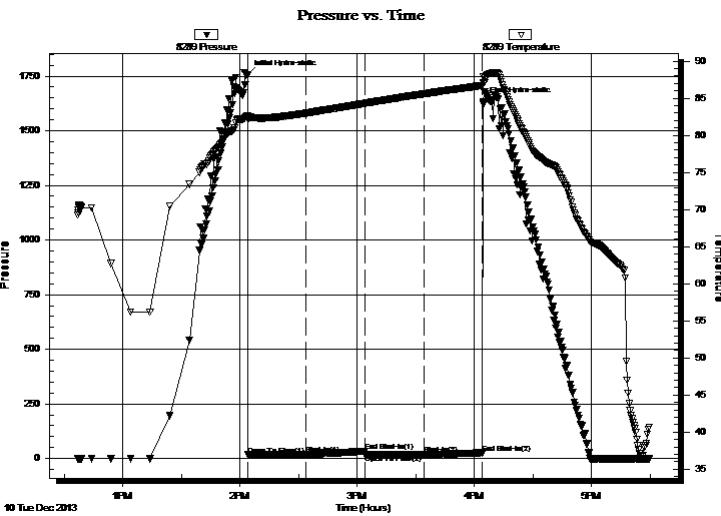
Time On Btm:

2013.12.10 @ 14:04:00

Time Off Btm:

2013.12.10 @ 16:04:30

TEST COMMENT: 30-IFP- Surging Surface Blow Building to 1/2"
30-ISIP- No Blow
30-FFP- Surface Blow Building to 1/4"
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.29	82.66	Initial Hydro-static
1	16.66	82.20	Open To Flow (1)
30	17.97	83.00	Shut-In(1)
60	33.29	84.31	End Shut-In(1)
61	18.32	84.32	Open To Flow (2)
90	18.28	85.58	Shut-In(2)
121	26.05	86.73	End Shut-In(2)
121	1633.15	87.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	OSM 100%	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50403

DST#: 4

ATTN: Rod Anderson

Test Start: 2013.12.10 @ 12:37:00

Tool Information

Drill Pipe:	Length: 3393.00 ft	Diameter: 3.80 inches	Volume: 47.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 47.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3396.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	70.00 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			3376.00	
Shut In Tool	5.00			3381.00	
Hydraulic tool	5.00			3386.00	
Packer	5.00			3391.00	21.00 Bottom Of Top Packer
Packer	5.00			3396.00	
Stubb	1.00			3397.00	
Perforations	6.00			3403.00	
Change Over Sub	1.00			3404.00	
Recorder	0.00	8789	Inside	3404.00	
Recorder	0.00	8289	Outside	3404.00	
Blank Spacing	32.00			3436.00	
Change Over Sub	1.00			3437.00	
Perforations	5.00			3442.00	
Bullnose	3.00			3445.00	49.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50403

DST#: 4

ATTN: Rod Anderson

Test Start: 2013.12.10 @ 12:37:00

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: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 10000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	OSM 100%	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

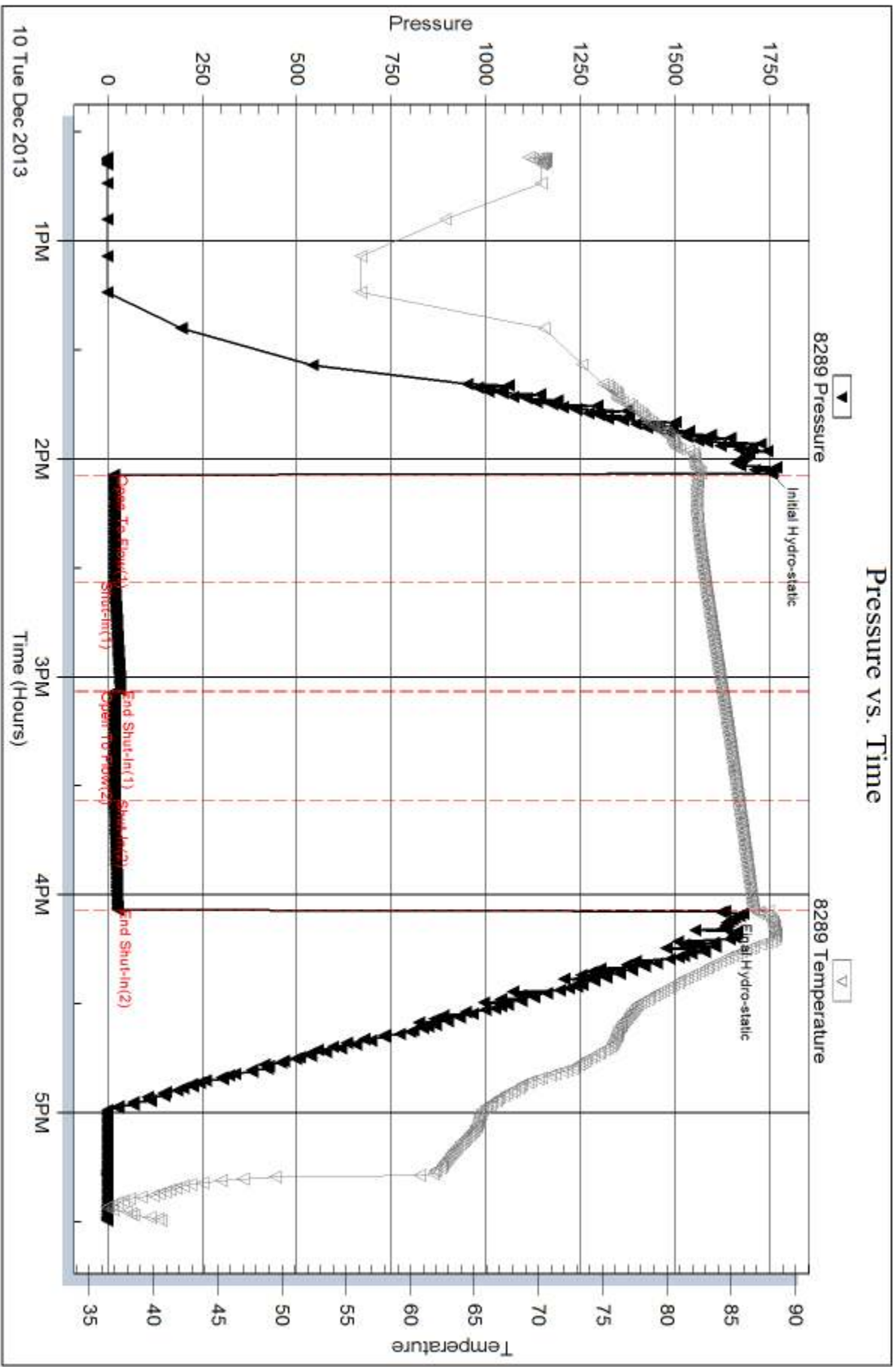
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



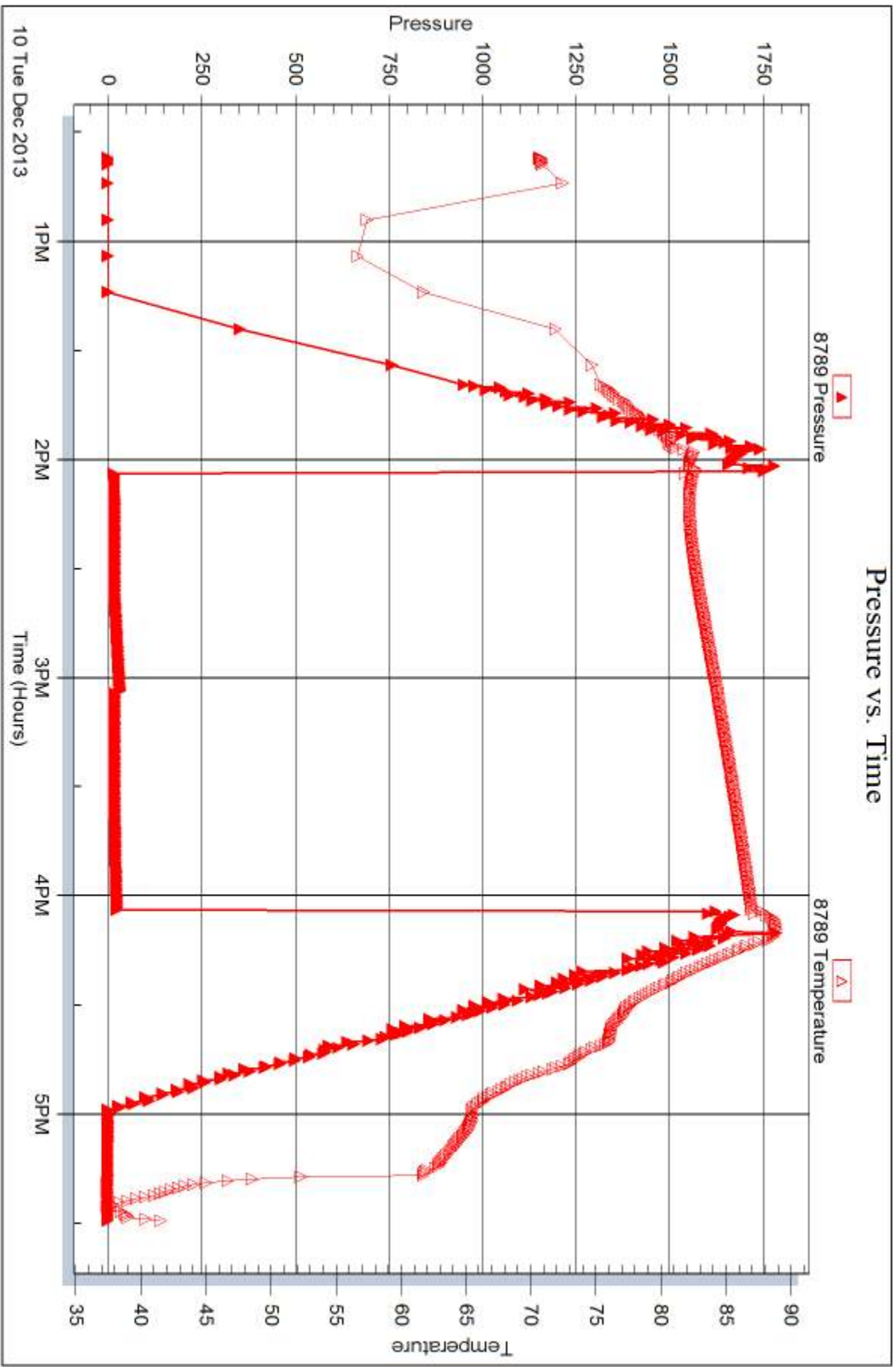
Serial #: 8789

Inside

American Land & Energy LLC

Leiker 8-15 #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 50403

Printed: 2013.12.13 @ 13:38:09



DRILL STEM TEST REPORT

Prepared For: **American Land & Energy LLC**

7277 Tenby Way Box 2287
Castle Rock CO 80104

ATTN: Rod Anderson

Leiker 8-15 #1

8 15s 16w Ellis,KS

Start Date: 2013.12.11 @ 00:05:00

End Date: 2013.12.11 @ 07:47:00

Job Ticket #: 50404 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.13 @ 13:37:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50404

DST#: 5

ATTN: Rod Anderson

Test Start: 2013.12.11 @ 00:05:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:30

Time Test Ended: 07:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3443.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1932.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

1925.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 50.74 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.11

End Date:

2013.12.11

Last Calib.:

2013.12.11

Start Time: 00:05:02

End Time:

07:09:45

Time On Btm:

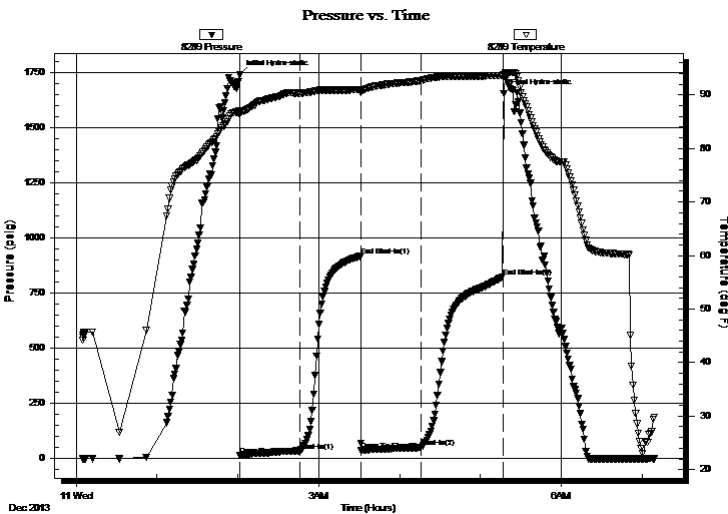
2013.12.11 @ 02:01:15

Time Off Btm:

2013.12.11 @ 05:17:15

TEST COMMENT: 45-IFP- Surface Blow Building to 8"
45-ISIP- No Blow
45-FFP- Surface Blow Building to 6 3/4"
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.17	86.95	Initial Hydro-static
1	15.31	86.36	Open To Flow (1)
45	34.87	90.30	Shut-In(1)
90	917.29	90.96	End Shut-In(1)
91	39.04	90.65	Open To Flow (2)
135	50.74	92.67	Shut-In(2)
196	823.04	93.64	End Shut-In(2)
196	1653.66	93.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM 25% o 75% m	0.88
32.00	CO 100%	0.45

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50404

DST#: 5

ATTN: Rod Anderson

Test Start: 2013.12.11 @ 00:05:00

Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3443.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	58.00 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			3423.00	
Shut In Tool	5.00			3428.00	
Hydraulic tool	5.00			3433.00	
Packer	5.00			3438.00	21.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	8789	Inside	3444.00	
Recorder	0.00	8289	Outside	3444.00	
Perforations	33.00			3477.00	
Bullnose	3.00			3480.00	37.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

8 15s 16w Ellis,KS

7277 Tenby Way Box 2287
Castle Rock CO 80104

Leiker 8-15 #1

Job Ticket: 50404

DST#: 5

ATTN: Rod Anderson

Test Start: 2013.12.11 @ 00:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OCM 25%o 75%m	0.884
32.00	CO 100%	0.449

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

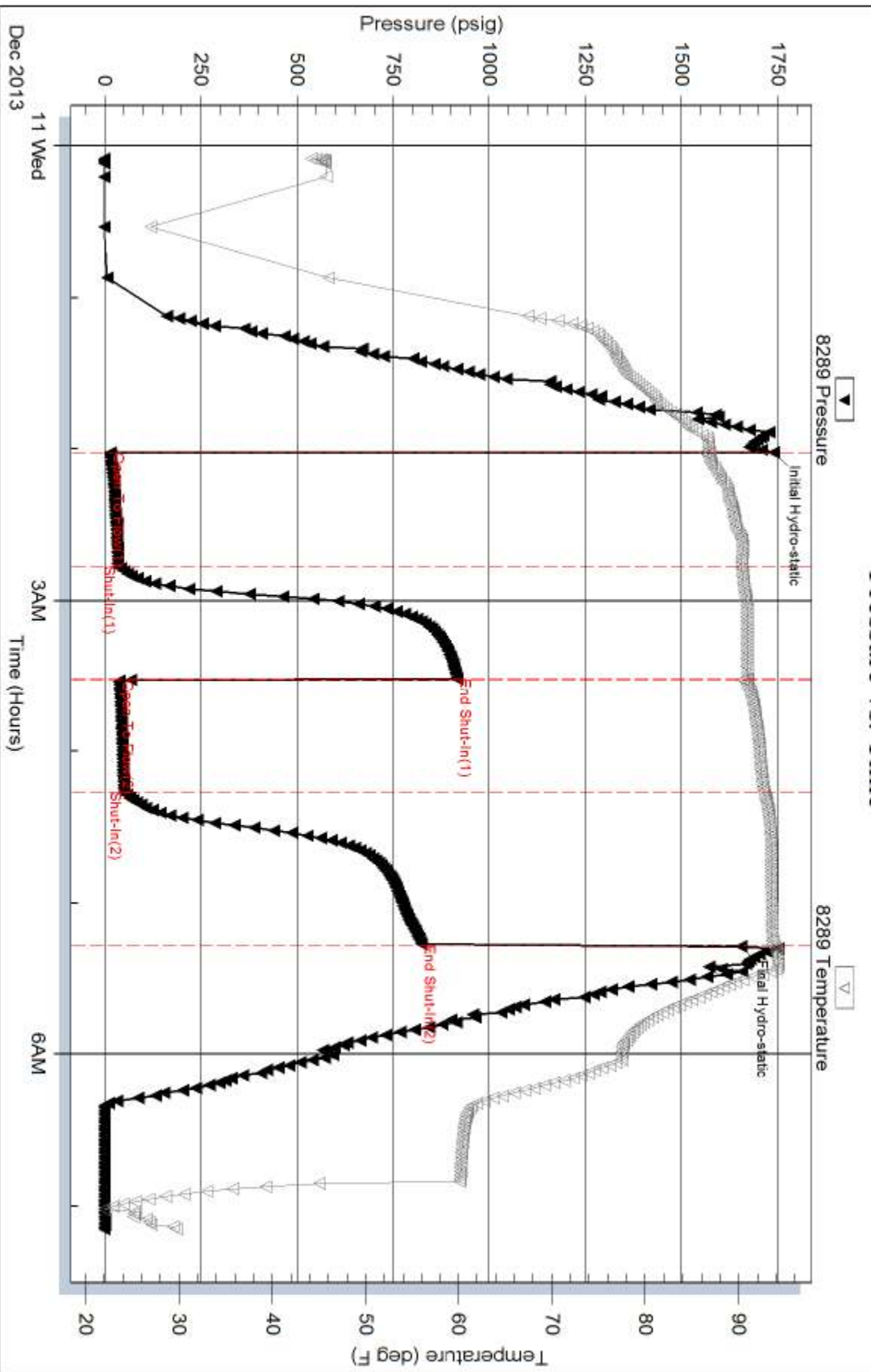
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



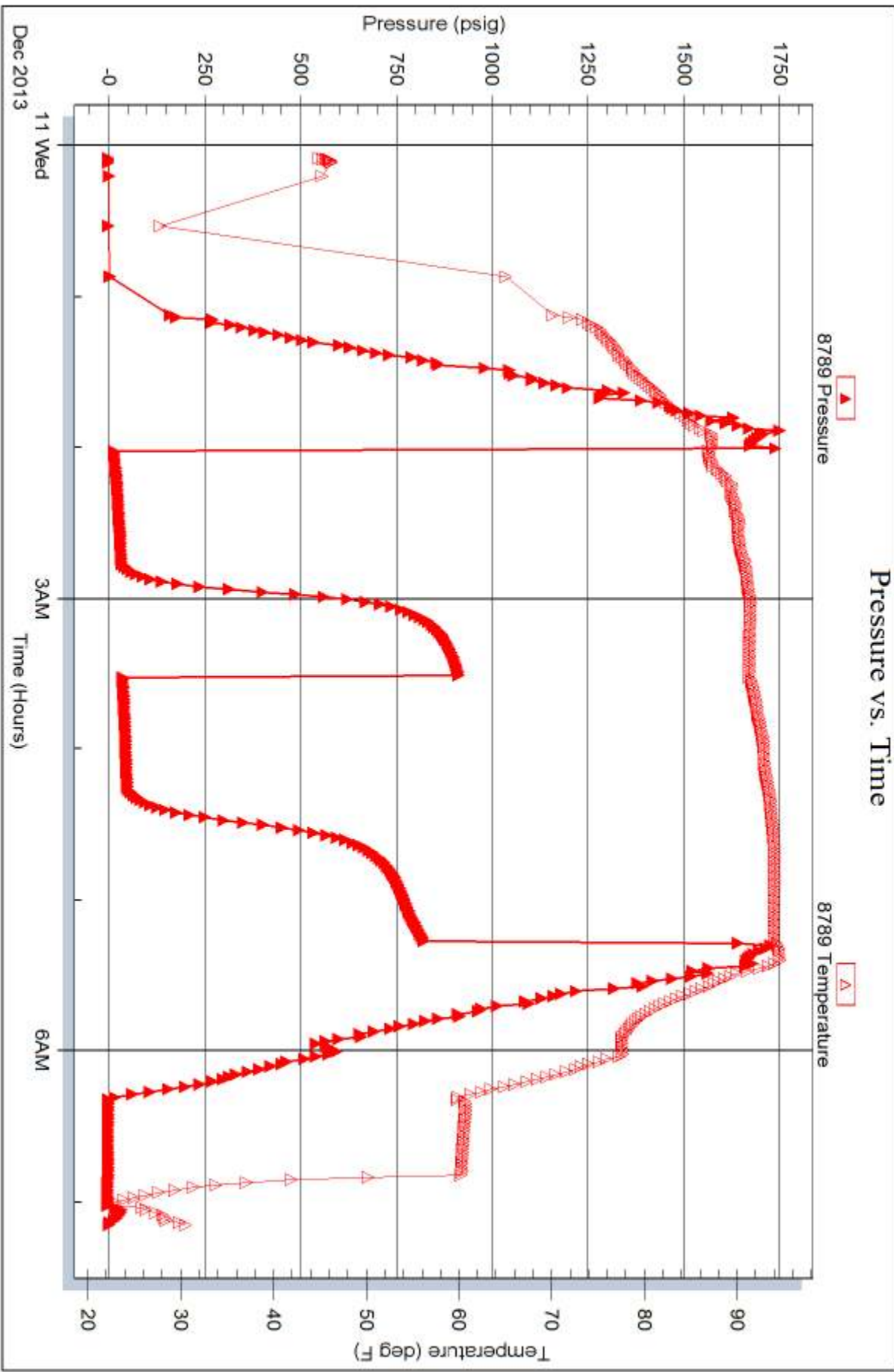
Serial #: 8789

Inside

American Land & Energy LLC

Leiker 8-15 #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 50404

Printed: 2013.12.13 @ 13:37:24



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55800**

4/10

Well Name & No. Leiker 8-15 #1 Test No. 1 Date 12-8-13
 Company American Land and Energy LLC Elevation 1930 KB 1925 GL
 Address 2277 Tenby Way Box 5287 Castle Rock CO 80104
 Co. Rep / Geo. Reda Mary Leiker Rig Royal #1
 Location: Sec. 8 Twp. 15^s Rge. 16^w Co. Ellis State KS

Interval Tested 3182-3270 Zone Tested LKC "A-D"
 Anchor Length 88 Drill Pipe Run 3169 Mud Wt. 9.1
 Top Packer Depth 3177 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3182 Wt. Pipe Run 0 WL 9.6
 Total Depth 3270 Chlorides 5000 ppm System LCM 1

Blow Description IFP - BOB in 2min
ISIP - Surface Blow Dried Back in 8min
FFP - BOB in 10 sec
FSIP - BOB in 16min Dried Back in 28min

Rec	Feet of	%gas	%oil	%water	%mud
<u>254</u>	<u>WMCSD</u>	<u>15</u>	<u>60</u>	<u>10</u>	<u>15</u>
<u>30</u>	<u>mud</u>				
	<u>792 DIP</u>				

Rec Total 284 BHT 94 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1627 Test 1150 T-On Location 13:47
 (B) First Initial Flow 29 Jars _____ T-Started 15:47
 (C) First Final Flow 84 Safety Joint _____ T-Open 17:35
 (D) Initial Shut-In 678 Circ Sub _____ T-Pulled 20:05
 (E) Second Initial Flow 89 Hourly Standby _____ T-Out 22:26
 (F) Second Final Flow 126 Mileage 30 RT 46.50 Comments _____
 (G) Final Shut-In 708 Sampler _____
 (H) Final Hydrostatic 1508 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1196.50
 Accessibility _____ MP/DST Disc't _____

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

Sub Total 1196.50

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
785 639 5864



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50401

Well Name & No. Leiker 8-15 #1 Test No. 2 Date 12-9-13
 Company American Land and Energy LLC Elevation 1932 KB 1925 GL
 Address 7277 Tenby Way Box 2287 Castle Rock CO, 80104
 Co. Rep / Geo. Rod Anderson Rig Royal #1
 Location: Sec. 8 Twp. 15^s Rge. 16^w Co. EPHs State KS

Interval Tested 3270-3335 Zone Tested LKC "E-A"
 Anchor Length 65 Drill Pipe Run 3264 Mud Wt. 9.1
 Top Packer Depth 3265 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3270 Wt. Pipe Run 0 WL 9.6
 Total Depth 3335 Chlorides 5000 ppm System LCM 1

Blow Description IFP - Surface Blow for 10 min. BOB in 19 min.
FSIP - Surface Blow in 9 min.
FFP - Surface Blow Building to 8 1/2 in.
FSIP - Surface Blow in 4 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>146</u>	<u>0.5 MCW</u>		<u>75</u>	<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>170 DIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 146 BHT 96 Gravity _____ API RW: 150 @ 45 °F Chlorides 82,500 ppm

(A) Initial Hydrostatic 1674 Test 1150 T-On Location 7:00
 (B) First Initial Flow 18 Jars _____ T-Started 7:04
 (C) First Final Flow 51 Safety Joint _____ T-Open 7:05
 (D) Initial Shut-In 714 Circ Sub _____ T-Pulled 12:05
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 14:03
 (F) Second Final Flow 83 Mileage 46.50 Comments _____
 (G) Final Shut-In 697 Sampler _____
 (H) Final Hydrostatic 1557 Straddle _____

Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1196.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1196.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50402

Well Name & No. Leiker 8-15 #1 Test No. 3 Date 12-9-13
 Company American Land and Energy LLC Elevation 1932 KB 1925 GL
 Address 7277 Tenby Way Box 22007 Castle Rock CO 80104
 Co. Rep / Geo. Rod Anderson Rig Royal #1
 Location: Sec. 8 Twp. 15S Rge. 16W Co. Ellis State KS

Interval Tested 3334 - 3395 Zone Tested LKC "H-J"
 Anchor Length 61 Drill Pipe Run 3331 Mud Wt. 9.4
 Top Packer Depth ~~3328~~ 3329 Drill Collars Run 0 Vis 60
 Bottom Packer Depth ~~3390~~ 3334 Wt. Pipe Run 0 WL 10.2
 Total Depth 3395 Chlorides 5000 ppm System LCM 1

Blow Description IFP - Good Surge on Tool open - No Blow
ISIP - No Blow
FFP - Very Weak Surface Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Oil Speck 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

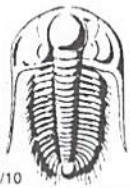
Rec Total 10 BHT 89 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1721 Test 1150 T-On Location 2200
 (B) First Initial Flow 17 Jars _____ T-Started 22:11
 (C) First Final Flow 20 Safety Joint _____ T-Open 00:02
 (D) Initial Shut-In 389 Circ Sub _____ T-Pulled 02:02
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 04:07
 (F) Second Final Flow 23 Mileage 46.50 Comments _____
 (G) Final Shut-In 78 Sampler _____
 (H) Final Hydrostatic 1702 Straddle _____

Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Sub Total 0
 Day Standby _____
 Total 1196.50
 Accessibility _____
 MP/DST Disc't _____
 Sub Total 1196.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50403**

Well Name & No. Leiker 8-15 #1 Test No. 4 Date 12-10-13
 Company American Landmark Energy LLC Elevation 1932 KB 1925 GL
 Address 7277 Tenby Way Box 5287 Castle Rock CO 80104
 Co. Rep / Geo. Rod Anderson Rig Royal #1
 Location: Sec. 8 Twp. 15^s Rge. 16^w Co. Ellis State KS

Interval Tested 3396 - 3445 Zone Tested LKC "K&L"
 Anchor Length 49 Drill Pipe Run 3393 Mud Wt. 9.4
 Top Packer Depth 3391 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3396 Wt. Pipe Run 0 WL 12
 Total Depth 3445 Chlorides 10,000 ppm System LCM 2

Blow Description IFP - Surging Surface Blow Building to 1/2 in.
ISIP - No Blow
FFP - Surface Blow in 8 min. Building to 1/4 in
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>0.5 m</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

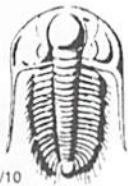
Rec Total 7 BHT 87 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1755</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>12:12</u>
(B) First Initial Flow	<u>16</u>	<input type="checkbox"/> Jars		T-Started	<u>12:37</u>
(C) First Final Flow	<u>17</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>14:04</u>
(D) Initial Shut-In	<u>33</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>16:04</u>
(E) Second Initial Flow	<u>18</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>17:30</u>
(F) Second Final Flow	<u>18</u>	<input checked="" type="checkbox"/> Mileage	<u>46.50</u>	Comments	
(G) Final Shut-In	<u>26</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1633</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby		Total	<u>1196.50</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1196.50</u>		

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50404

4/10

Well Name & No. Leiker 8-15 #1 Test No. 5 Date 12-11-13
 Company American Land And Energy LLC Elevation 1932 KB 1925 GL
 Address 277 Tenby Way Box 2287 Castle Rock CO 80104
 Co. Rep / Geo. Rod Anderson Rig Royal #1
 Location: Sec. 8 Twp. 15^s Rge. 16^w Co. Ellis State KS

Interval Tested 3443 - 3480 Zone Tested Congl. SAND
 Anchor Length 37 Drill Pipe Run 3455 Mud Wt. 9.4
 Top Packer Depth 3438 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3443 Wt. Pipe Run 0 WL 12
 Total Depth 3480 Chlorides 10000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 8 in.
ISIP - No Blow
FFP - Surface Blow Building to 6 3/4 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>0cm</u>	<u>25</u>		<u>75</u>	
<u>32</u>	<u>60</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 Total 95 BHT 93 Gravity 31 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1739</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>00:05</u>
(B) First Initial Flow	<u>15</u>	<input type="checkbox"/> Jars		T-Started	<u>00:42</u>
(C) First Final Flow	<u>34</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>02:39</u>
(D) Initial Shut-In	<u>917</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>05:54</u>
(E) Second Initial Flow	<u>39</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>07:47</u>
(F) Second Final Flow	<u>50</u>	<input checked="" type="checkbox"/> Mileage	<u>93</u>	Comments	<u>loaded tools 12/11 16:00</u>
(G) Final Shut-In	<u>823</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1653</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>45</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>45</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1243</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1243</u>		

Approved By _____ Our Representative [Signature]

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