

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235187
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
-----------------------------------	-----------------	---

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: _____

1235187

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	American Land And Energy LLC
Well Name	Dreiling 1
Doc ID	1235187

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	American Land And Energy LLC
Well Name	Dreiling 1
Doc ID	1235187

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3228-3232	250 Gal 20% HCL 1 Inhibitor,.5 Silt Suspender,.5 Clay Stabilizer	
4	3252-3258	250 Gal 20% HCL 1 Inhibitor,.5 Silt Suspender,.5 Clay Stabilizer	
4	3308-3312	1500 Gal 20% HCL 4.5 INH, 650 Rock Salt 3 Silt Suspender, 3 Clay Stabilizer	
4	3318-3324	1750 Gal 20% HCL 5 INH, 3.5 Silt Suspender, 3.5 Clay Stabilizer	
4	3396-3400	500 Gal 20% HCL, 2 Inhibitor, 350lbs Rock Salt. 2.5 Silt Suspender, 2.5 Clay Stabilizer	
4	3404-3406	500 Gal 20% HCL, 2 Inhibitor, 350lbs Rock Salt. 2.5 Silt Suspender, 2.5 Clay Stabilizer	

GLOBAL CEMENTING, L.L.C.

1479

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Missouri

DATE <u>11-21-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>De-icing</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>WV</u>	STATE <u>MS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Royal Drilling

TYPE OF JOB Long Surface

HOLE SIZE 12 1/4 T.D. 10.5

CASING SIZE 6 5/8 DEPTH 1117

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 1005 MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 5.12

PERFS

DISPLACEMENT 625 lbs

EQUIPMENT

PUMP TRUCK CEMENTER Wroth

01 HELPER Cody

BULK TRUCK DRIVER Bud

131

BULK TRUCK DRIVER

OWNER

CEMENT AMOUNT ORDERED 425 sq ft 3% 66 2 bags!

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:
Run 28 bags of 66 casing and est circulation. Make up 425 sq ft of de-icing plug and disp. 66 66 2 bags. 110- bag bucket @ scoops.

Cement Did Circulate to surface

CHARGE TO: American Land & Energy

STREET

CITY STATE ZIP

Global Cementing, 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 Tom Blake

SIGNATURE Tom Blake

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

1-50 lb Rubber Plug @

3-50 lb Can @

1-50 lb bucket @

1-50 lb bucket @

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

GLOBAL CEMENTING, L.L.C.

1545

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT:
Russell, KS

DATE <u>12-9-2011</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH	
LEASE <u>Deering</u>	WELL #.	LOCATION			COUNTY	STATE		
OLD OR NEW (CIRCLE ONE)							<u>Edwards</u>	<u>KS</u>

CONTRACTOR Royal Deering #2

TYPE OF JOB Land Service

HOLE SIZE 7 7/8" T.D.

CASING SIZE 5 7/8" 83 joints DEPTH 3561'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 15000PSI MINIMUM _____

MEAS. LINE _____ SHOE JOINT 3541'

CEMENT LEFT IN CSG. 200+

PERFS _____

DISPLACEMENT 26 1/2"

EQUIPMENT

PUMP TRUCK # 1 CEMENTER Brad HELPER Dan

BULK TRUCK # 3 DRIVER Mark

BULK TRUCK # _____ DRIVER _____

OWNER _____

CEMENT AMOUNT ORDERED 20000 lb 10% salt & 4% gel

COMMON _____	@ _____
POZMIX _____	@ _____
GEL _____	@ _____
CHLORIDE _____	@ _____
ASC _____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
HANDLING _____	@ _____
MILEAGE _____	@ _____
TOTAL _____	

REMARKS:
Ran in 83 joints 5 7/8" casing - cemented for 1 hr - worked up cement - pumped 100 plus - 200 lb of cement - pumped plus with 200 lb of gel - plugged annulus w/ 30 lb - plugged annulus w/ 20 lb - worked up - plug worked to 1500 - returned to field

CHARGE TO: American Land & Energy

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, 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 Tom Blake

SIGNATURE _____

SERVICE

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

PLUG & FLOAT EQUIPMENT

<u>5 - cement</u> _____	@ _____
<u>1 - basket</u> _____	@ _____
<u>1 - 5" float shoe</u> _____	@ _____
<u>1 - 5" float plug</u> _____	@ _____
<u>5000 lb sand fill</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
Castle Rock CO 80108

ATTN: Lyle Herrman

Dreiling #1

24-14s-17w Ellis,KS

Start Date: 2014.12.01 @ 11:40:00

End Date: 2014.12.01 @ 17:18:15

Job Ticket #: 62540 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:56:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62540

DST#: 1

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:15

Time Test Ended: 17:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3238.00 ft (KB) To 3293.00 ft (KB) (TVD)

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8957

Inside

Press@RunDepth: 23.59 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01

End Date:

2014.12.01

Last Calib.: 2014.12.01

Start Time: 11:40:05

End Time:

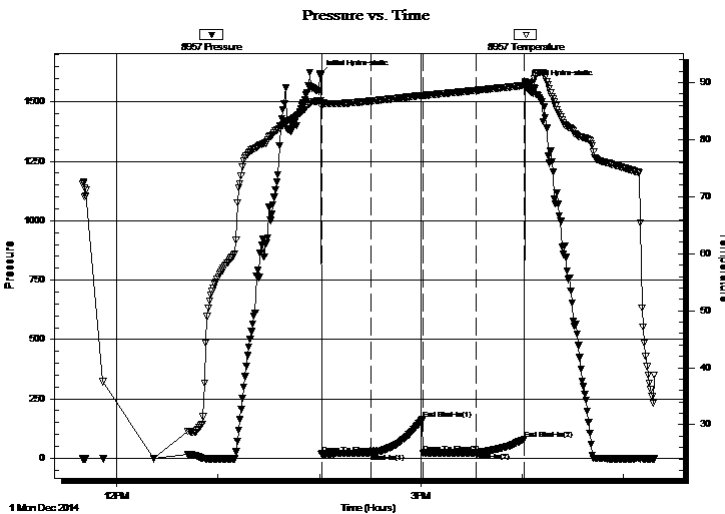
17:18:14

Time On Btm: 2014.12.01 @ 14:00:30

Time Off Btm: 2014.12.01 @ 16:02:00

TEST COMMENT: IF-3/4" blow
IS-No blow
FF-Weak surface blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.28	86.78	Initial Hydro-static
1	17.97	85.80	Open To Flow (1)
30	20.47	86.76	Shut-In(1)
61	165.90	87.76	End Shut-In(1)
61	20.77	87.67	Open To Flow (2)
93	23.59	88.64	Shut-In(2)
121	79.54	89.48	End Shut-In(2)
122	1573.13	89.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OS Mud	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62540

DST#: 1

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:15

Time Test Ended: 17:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3238.00 ft (KB) To 3293.00 ft (KB) (TVD)

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8736

Outside

Press@RunDepth: psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01 End Date: 2014.12.01

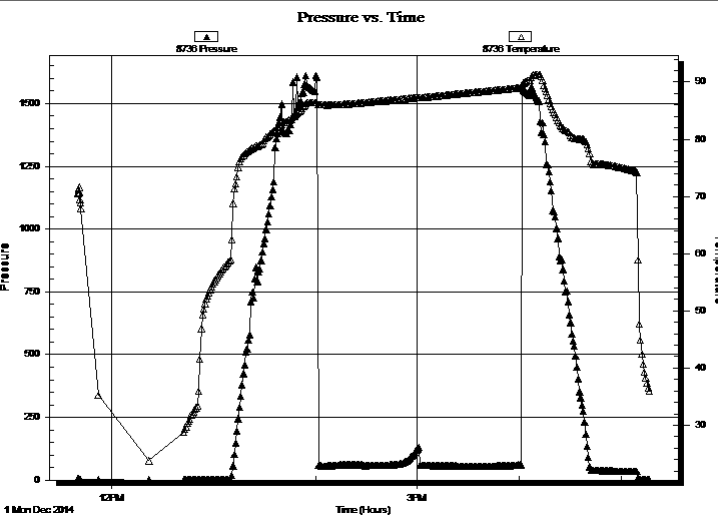
Last Calib.: 2014.12.01

Start Time: 11:40:05 End Time: 17:17:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-3/4" blow
IS-No blow
FF-Weak surface blow
FS-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OS Mud	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62540

DST#: 1

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

Tool Information

Drill Pipe:	Length: 3248.00 ft	Diameter: 3.80 inches	Volume: 45.56 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	65000.00 lb
			<u>Total Volume: 45.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3238.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3223.00	
Hydraulic tool	5.00			3228.00	
Packer	5.00			3233.00	20.00 Bottom Of Top Packer
Packer	5.00			3238.00	
Stubb	1.00			3239.00	
Recorder	0.00	8957	Inside	3239.00	
Recorder	0.00	8736	Outside	3239.00	
Perforations	2.00			3241.00	
Change Over Sub	1.00			3242.00	
Drill Pipe	32.00			3274.00	
Change Over Sub	1.00			3275.00	
Perforations	15.00			3290.00	
Bullnose	3.00			3293.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62540

DST#: 1

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

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:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	OS Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

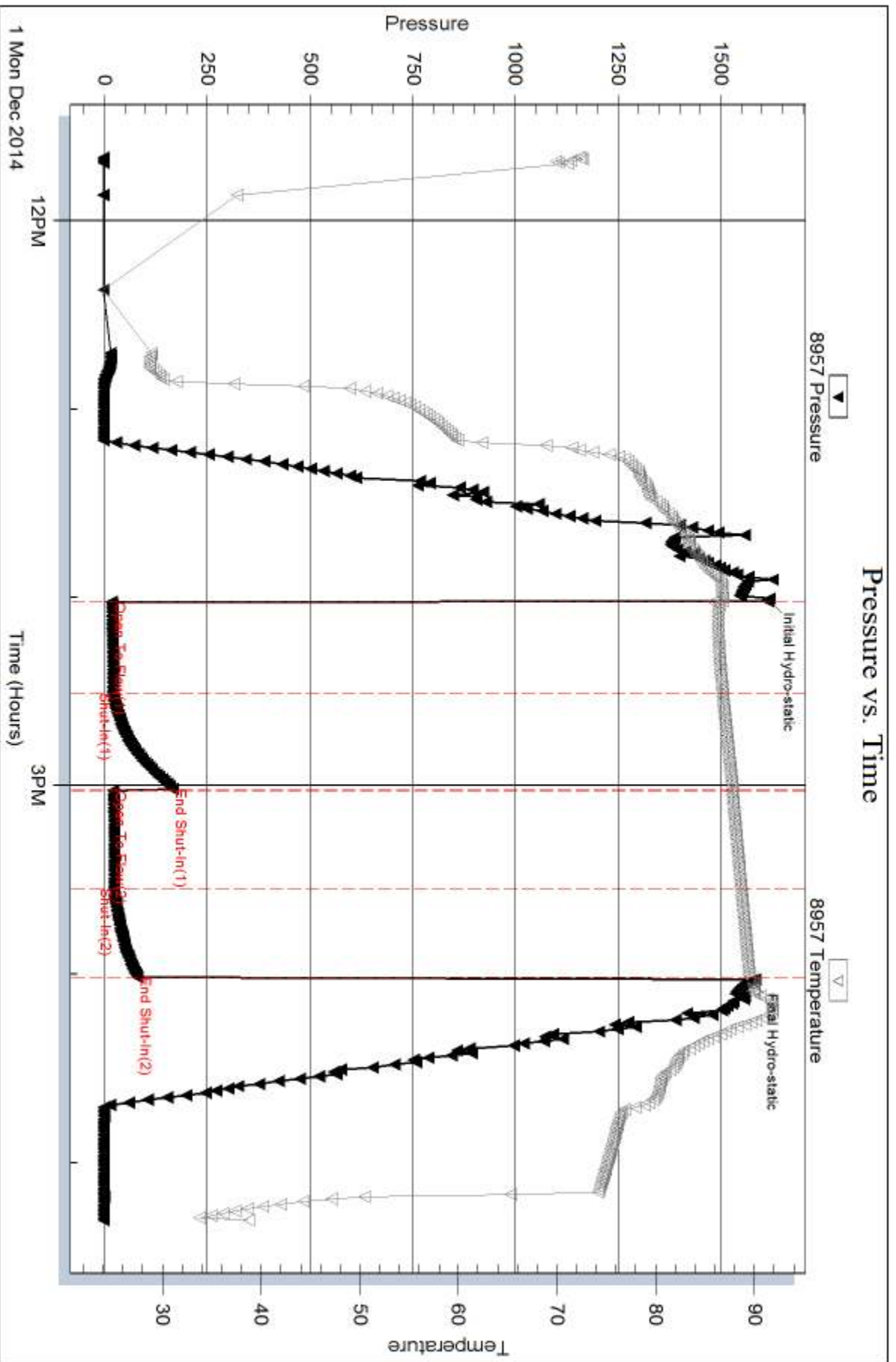
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

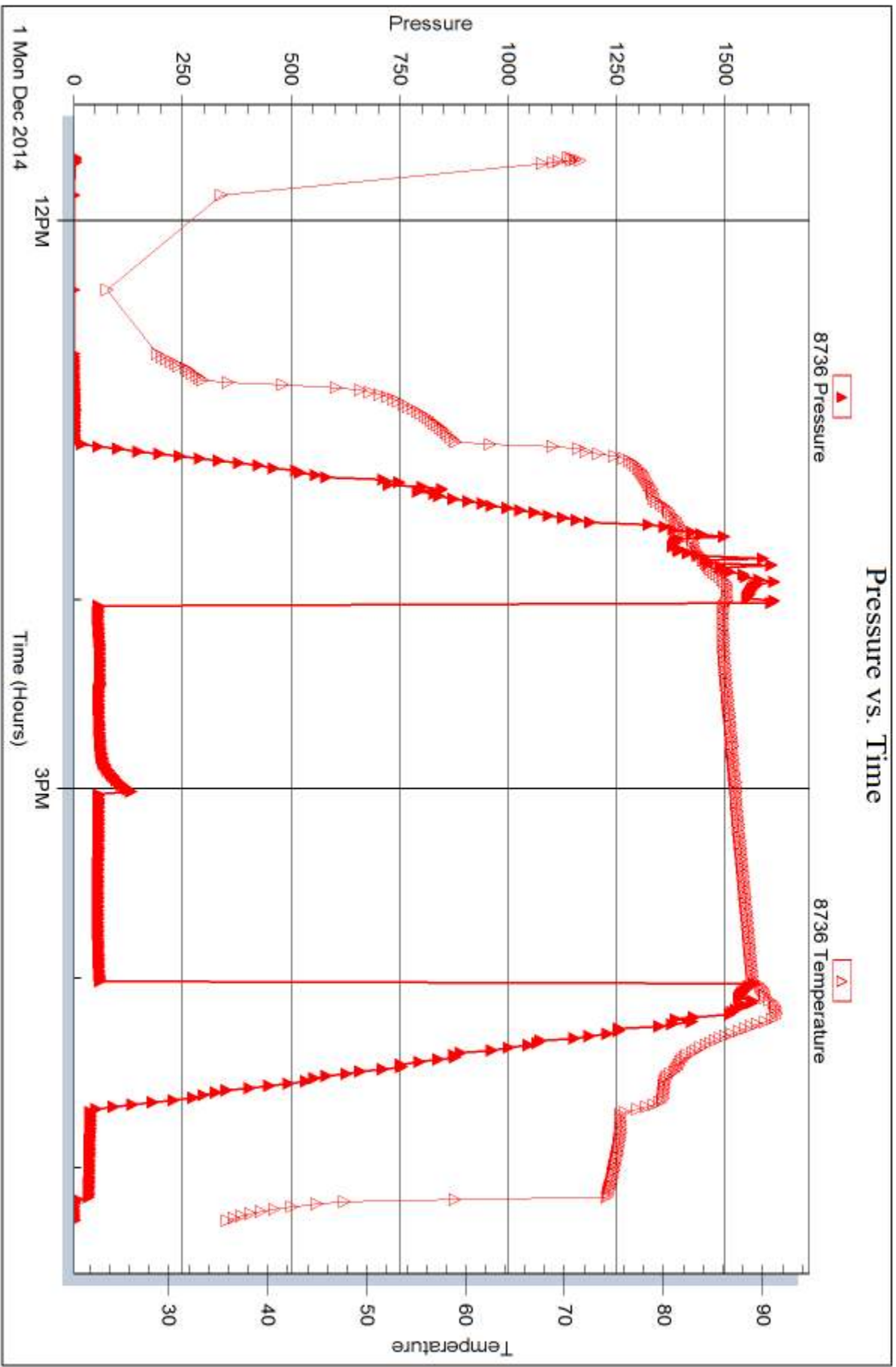


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62540

Printed: 2014, 12:05 @ 10:56:27



DRILL STEM TEST REPORT

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

7277 Tenby Way
Castle Rock CO 80108

ATTN: Lyle Herrman

Dreiling #1

24-14s-17w Ellis,KS

Start Date: 2014.12.01 @ 22:57:00

End Date: 2014.12.02 @ 04:37:45

Job Ticket #: 62541 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:56:03

American Land & Energy LLC
24-14s-17w Ellis,KS
Dreiling #1
DST # 2
KC"E-F"
2014.12.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62541

DST#: 2

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

GENERAL INFORMATION:

Formation: **KC"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:15

Time Test Ended: 04:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3285.00 ft (KB) To 3320.00 ft (KB) (TVD)

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8957

Inside

Press@RunDepth: 34.67 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01

End Date:

2014.12.02

Last Calib.: 2014.12.02

Start Time: 22:57:05

End Time:

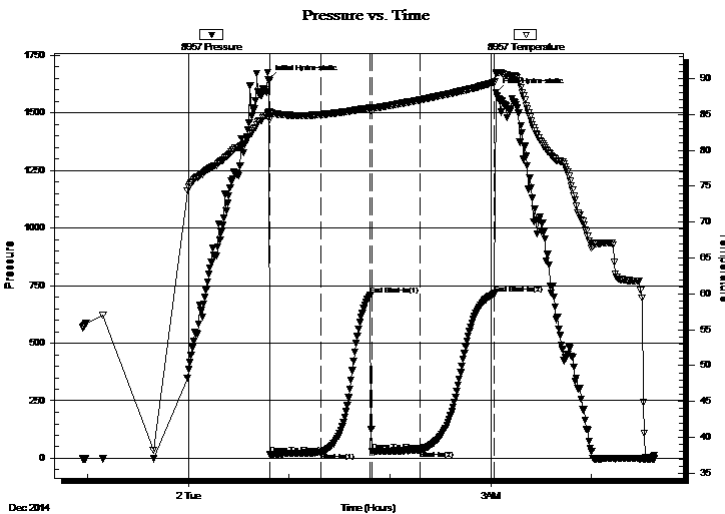
04:37:44

Time On Btm: 2014.12.02 @ 00:47:30

Time Off Btm: 2014.12.02 @ 03:03:15

TEST COMMENT: IF-3" blow
IS-No blow
FF-2" blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.10	85.21	Initial Hydro-static
1	17.47	84.26	Open To Flow (1)
32	25.29	84.98	Shut-In(1)
61	709.60	85.91	End Shut-In(1)
62	30.17	85.84	Open To Flow (2)
91	34.67	87.02	Shut-In(2)
135	715.61	89.48	End Shut-In(2)
136	1586.22	90.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SOCM 10%O 90%M	0.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

ATTN: Lyle Herrman

Job Ticket: 62541

DST#: 2

Test Start: 2014.12.01 @ 22:57:00

GENERAL INFORMATION:

Formation: **KC"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:15

Time Test Ended: 04:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3285.00 ft (KB) To 3320.00 ft (KB) (TVD)

Total Depth: 3320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1956.00 ft (KB)

1950.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8736

Outside

Press@RunDepth: psig @ 3286.00 ft (KB)

Start Date: 2014.12.01

End Date:

2014.12.02

Start Time: 22:57:05

End Time:

04:37:44

Capacity: 8000.00 psig

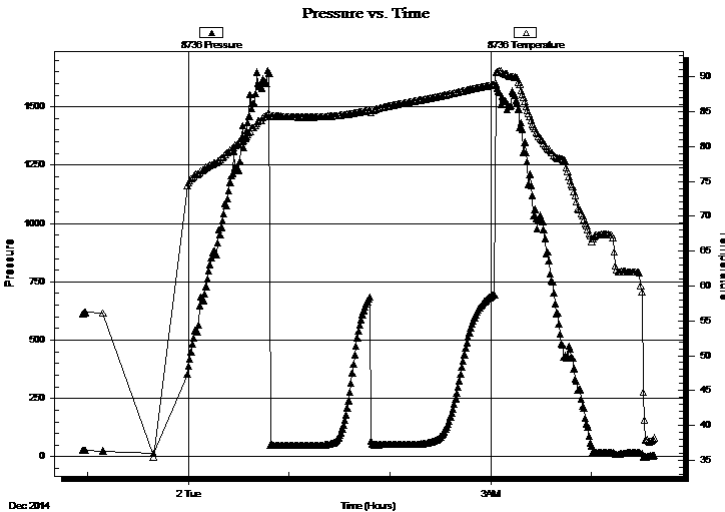
Last Calib.: 2014.12.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-3" blow
IS-No blow
FF-2" blow
FS-No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	SOCM 10%O 90%M	0.77

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62541

DST#: 2

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

Tool Information

Drill Pipe:	Length: 3281.00 ft	Diameter: 3.80 inches	Volume: 46.02 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 46.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3285.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3270.00	
Hydraulic tool	5.00			3275.00	
Packer	5.00			3280.00	20.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Stubb	1.00			3286.00	
Recorder	0.00	8957	Inside	3286.00	
Recorder	0.00	8736	Outside	3286.00	
Perforations	2.00			3288.00	
Perforations	29.00			3317.00	
Bullnose	3.00			3320.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62541

DST#: 2

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	SOCM 10%O 90%M	0.772

Total Length: 55.00 ft Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

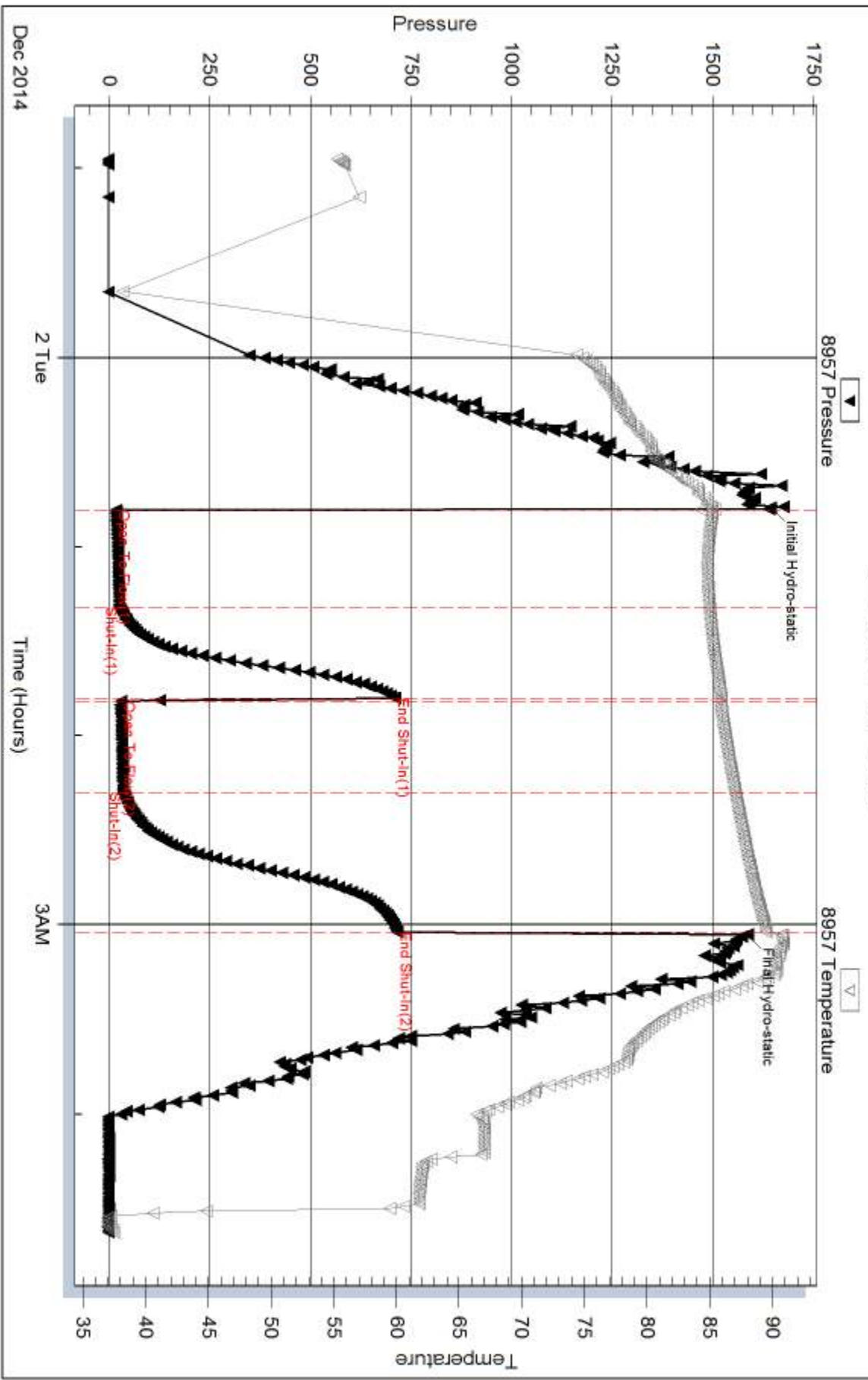
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

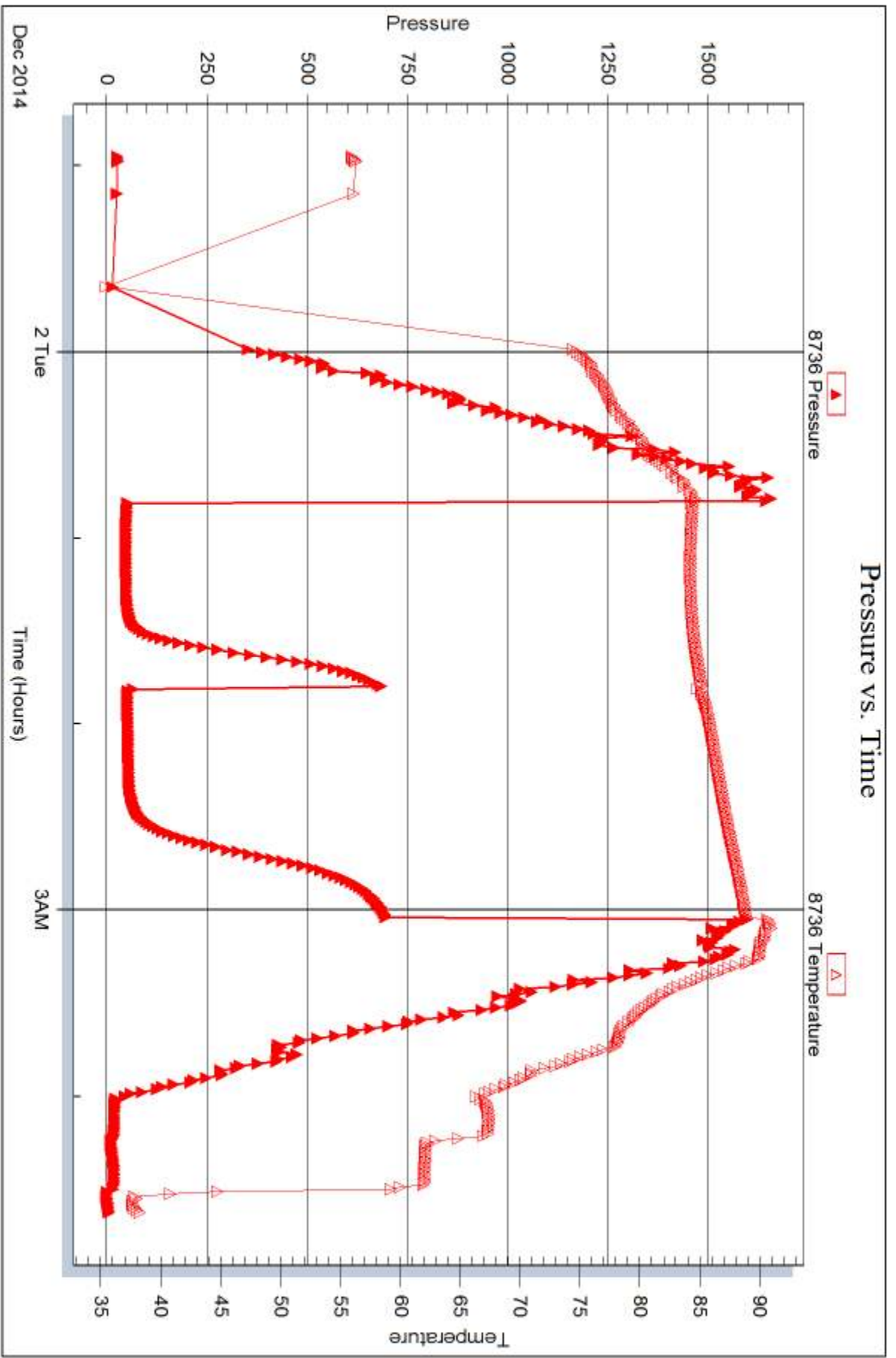


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 2





DRILL STEM TEST REPORT

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

7277 Tenby Way
Castle Rock CO 80108

ATTN: Lyle Herrman

Dreiling #1

24-14s-17w Ellis,KS

Start Date: 2014.12.02 @ 17:35:00

End Date: 2014.12.02 @ 22:55:00

Job Ticket #: 62542 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:54:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62542

DST#: 3

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:15

Time Test Ended: 22:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3448.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8957 Inside

Press@RunDepth: 22.66 psig @ 3449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.02 End Date: 2014.12.02

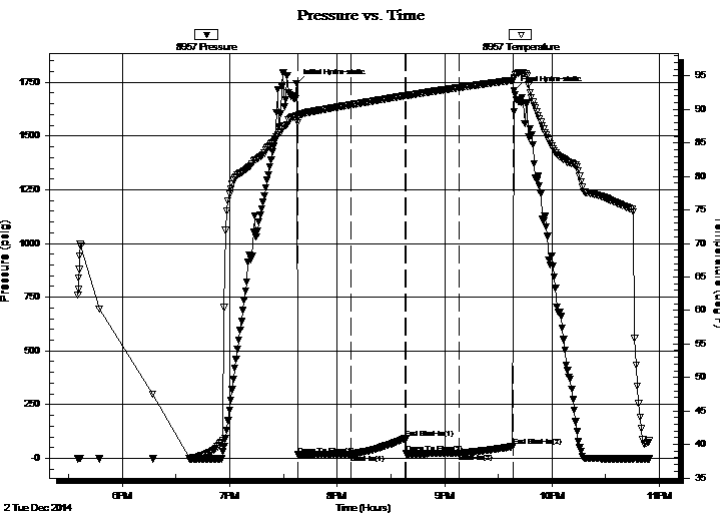
Last Calib.: 2014.12.02

Start Time: 17:35:05 End Time: 22:54:59

Time On Btm: 2014.12.02 @ 19:37:15

Time Off Btm: 2014.12.02 @ 21:39:00

TEST COMMENT: IF-1" blow
IS-Very weak surface blow died in 18 min
FF-Very weak surface blow
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.03	89.06	Initial Hydro-static
1	15.56	88.80	Open To Flow (1)
31	18.10	90.69	Shut-In(1)
61	92.57	92.03	End Shut-In(1)
61	20.94	92.02	Open To Flow (2)
91	22.66	93.26	Shut-In(2)
121	54.61	94.34	End Shut-In(2)
122	1710.24	94.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OS Mud	0.28

* 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

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62542

DST#: 3

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

GENERAL INFORMATION:

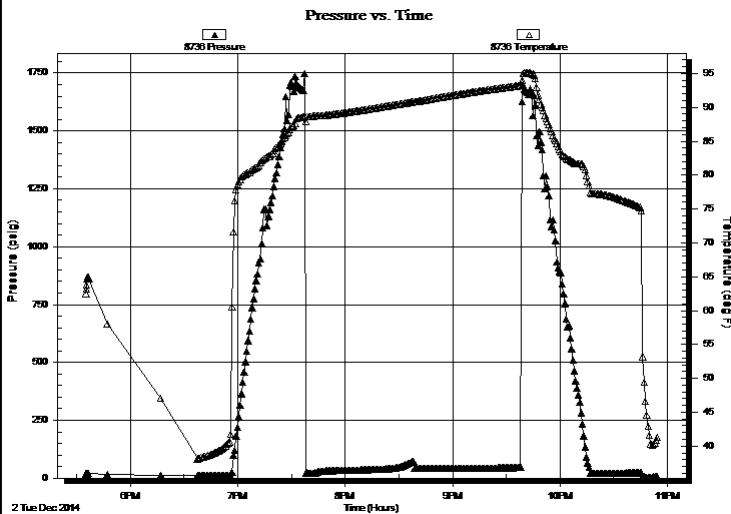
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:38:15
 Tester: Brett Dickinson
 Time Test Ended: 22:55:00
 Unit No: 59
 Interval: **3448.00 ft (KB) To 3490.00 ft (KB) (TVD)**
 Reference Elevations: 1956.00 ft (KB)
 Total Depth: 3490.00 ft (KB) (TVD)
 1950.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 6.00 ft

Serial #: 8736

Outside

Press@RunDepth: psig @ 3449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02
 Start Time: 17:35:05 End Time: 22:54:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-1" blow
 IS-Very weak surface blow died in 18 min
 FF-Very weak surface blow
 FS-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OS Mud	0.28

* 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

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62542

DST#: 3

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	65000.00 lb
			<u>Total Volume: 48.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3448.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3433.00	
Hydraulic tool	5.00			3438.00	
Packer	5.00			3443.00	20.00 Bottom Of Top Packer
Packer	5.00			3448.00	
Stubb	1.00			3449.00	
Recorder	0.00	8957	Inside	3449.00	
Recorder	0.00	8736	Outside	3449.00	
Perforations	2.00			3451.00	
Change Over Sub	1.00			3452.00	
Drill Pipe	32.00			3484.00	
Change Over Sub	1.00			3485.00	
Perforations	2.00			3487.00	
Bullnose	3.00			3490.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Land & Energy LLC

24-14s-17w Ellis,KS

7277 Tenby Way
Castle Rock CO 80108

Dreiling #1

Job Ticket: 62542

DST#: 3

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

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: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 12000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OS Mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

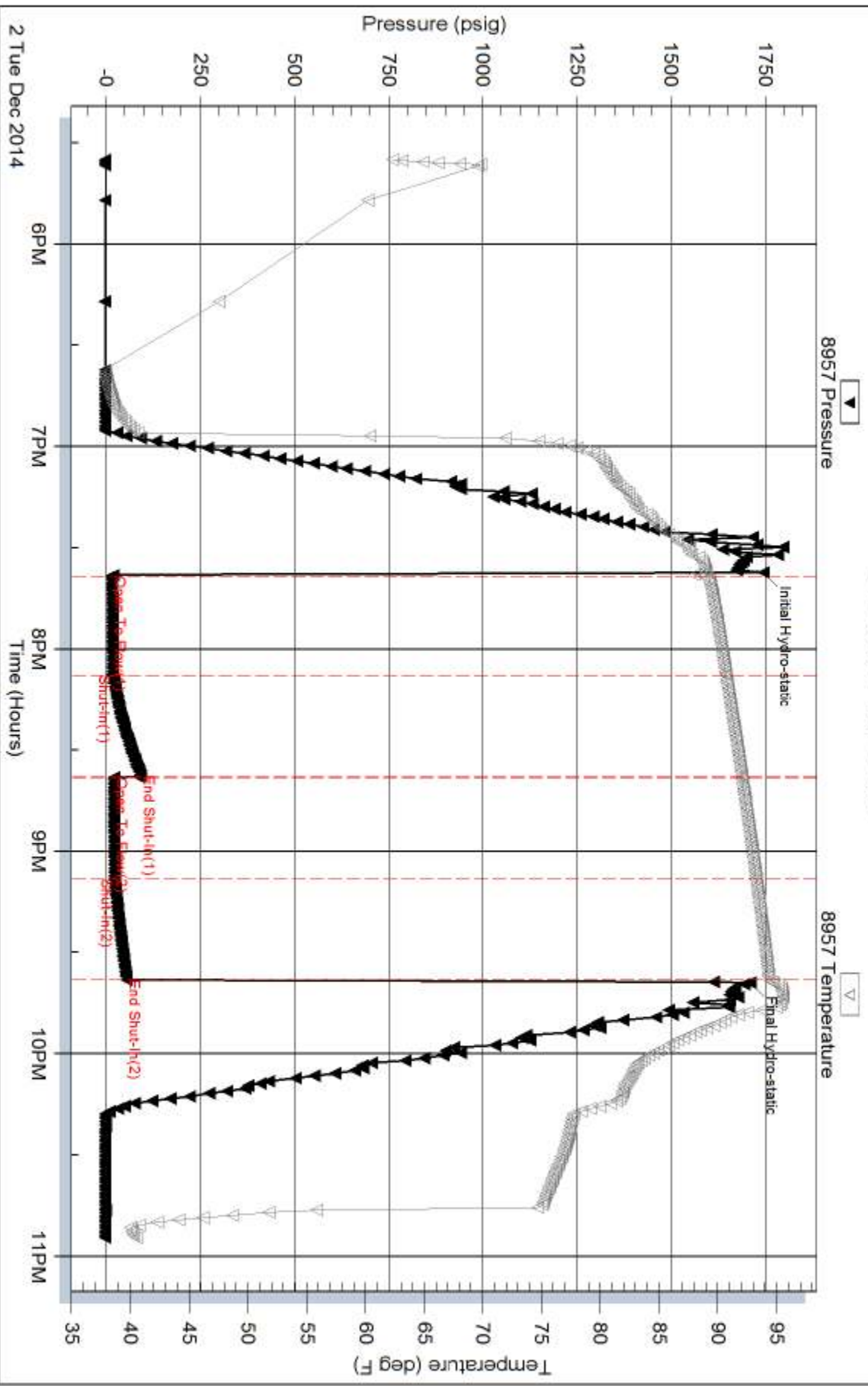
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

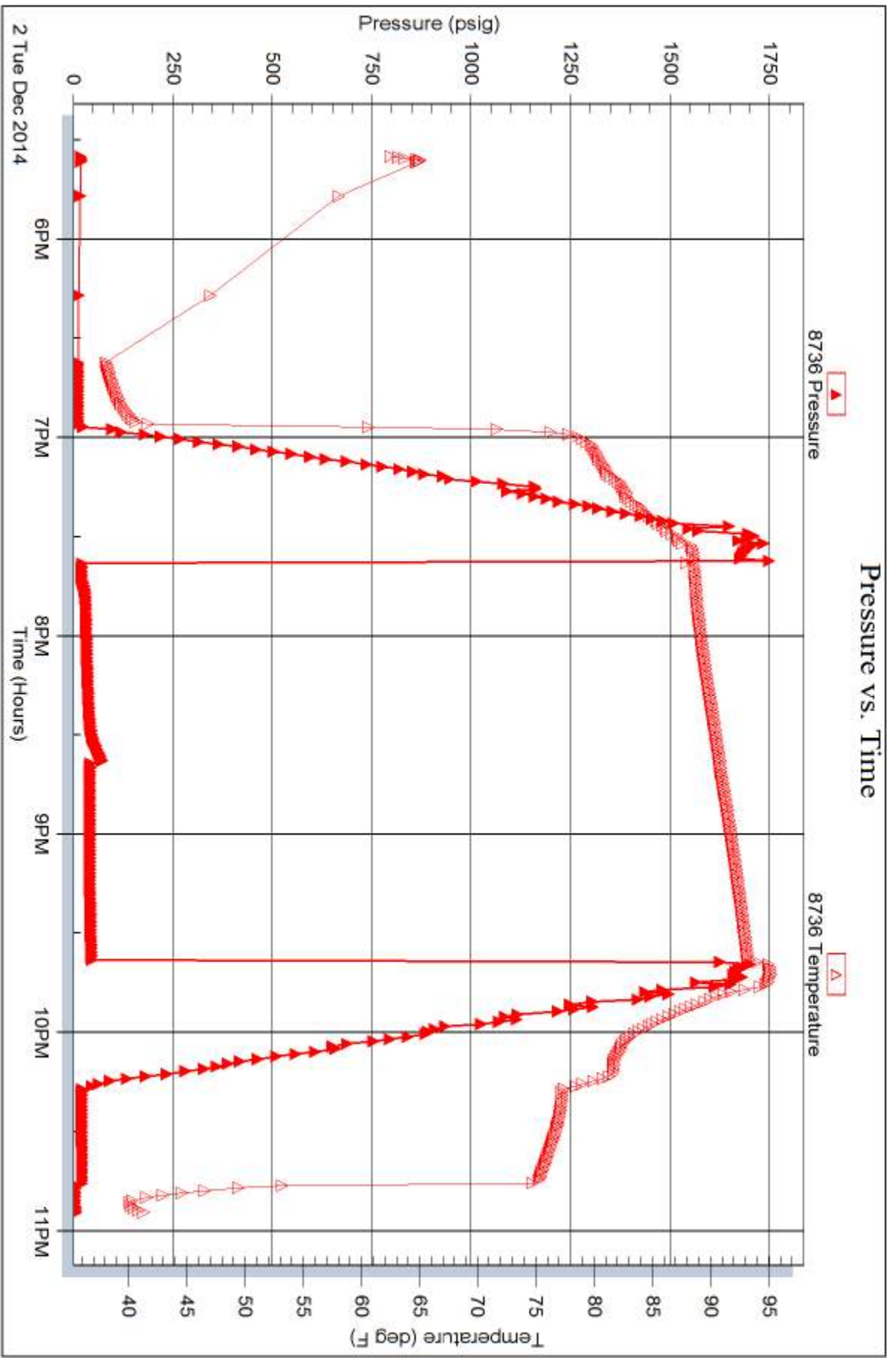


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62542

Printed: 2014, 12:05 @ 10:54:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

785-639-1270

Test Ticket

NO. 62540

Well Name & No. Dreiling #1 Test No. 1 Date 12-1-14
 Company American Land & Energy LLC Elevation 1956 KB 1950 GL
 Address 7277 Tenby Way Castle Rock CO 80108
 Co. Rep / Geo. Lyle Herman Rig Royal #2
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3238-3293 Zone Tested KC" C-D"
 Anchor Length 55 Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3233 Drill Collars Run _____ Vis 52
 Bottom Packer Depth 3238 Wt. Pipe Run _____ WL 8.0
 Total Depth 3293 Chlorides 8,000 ppm System LCM 17
 Blow Description IF - 3/4 in blow
ISF - No blow
FF - weak surface blow
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OS mud</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 15 BHT 89 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1614 Test 1150 T-On Location 10:45
 (B) First Initial Flow 18 Jars _____ T-Started 11:40
 (C) First Final Flow 20 Safety Joint _____ T-Open 14:00
 (D) Initial Shut-In 166 Circ Sub _____ T-Pulled 16:00
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 17:15
 (F) Second Final Flow 24 Mileage 23RT 35.65 Comments _____
 (G) Final Shut-In 80 Sampler _____
 (H) Final Hydrostatic 1574 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1185.65
 MP/DST Disc't _____

Approved By _____ Our Representative Bert Dickinson

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62541

Well Name & No. Drieling #1 Test No. 2 Date 12-1-14
 Company American Land & Energy Elevation 1956 KB 1950 GL
 Address _____
 Co. Rep / Geo. Lyle Herrman Rig Royal #2
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3285 - 3320 Zone Tested KC "E-F"
 Anchor Length 35 Drill Pipe Run 3281 Mud Wt. 9.0
 Top Packer Depth 3280 Drill Collars Run — Vis 52
 Bottom Packer Depth 3285 Wt. Pipe Run — WL 8.0
 Total Depth 3320 Chlorides 8,000 ppm System LCM 1#
 Blow Description IF - 3in blow
ISI - No blow
FF - 2in blow
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>SOCM</u>	<u>10</u>		<u>90</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 55 BHT 89 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1,644 Test 1150 T-On Location 22:40
 (B) First Initial Flow 17 Jars _____ T-Started 22:55
 (C) First Final Flow 25 Safety Joint _____ T-Open 00:47
 (D) Initial Shut-In 710 Circ Sub _____ T-Pulled 3:02
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 4:35
 (F) Second Final Flow 35 Mileage 23rt 35.65 Comments _____
 (G) Final Shut-In 716 Sampler _____
 (H) Final Hydrostatic 1,586 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1185.65

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45

Sub Total 1185.65

Approved By _____ Our Representative Bill Dickinson

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62542

Well Name & No. Drieling #1 Test No. 3 Date 12/2/14
 Company American Land & Energy Elevation 1956 KB 1950 GL
 Address _____
 Co. Rep / Geo. Lyle Herrman Rig Royal #2
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3448-3490 Zone Tested Arbuckle
 Anchor Length 42 Drill Pipe Run 3444 Mud Wt. 9.2
 Top Packer Depth 3443 Drill Collars Run — Vis 56
 Bottom Packer Depth 3448 Wt. Pipe Run — WL 11.2
 Total Depth 3490 Chlorides ~~12,000~~ ppm System LCM 1#

Blow Description IF - 1 in blow
ISI - very weak surface blow died in 18 min
FF - very weak surface blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0.5 Mud</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 94 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1745 Test 1150 T-On Location 16:05
 (B) First Initial Flow 16 Jars _____ T-Started 15:35
 (C) First Final Flow 18 Safety Joint _____ T-Open 19:35
 (D) Initial Shut-In 93 Circ Sub _____ T-Pulled 21:35
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 22:53
 (F) Second Final Flow 23 Mileage 23 rTX 2 Comments _____
 (G) Final Shut-In 55 Sampler 35.65+35.65 loaded Tools
 (H) Final Hydrostatic 1710 Straddle _____ 12/3/14
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 1221.30 Sub Total _____
 Total 1221.30 MP/DST Disc't _____

Approved By _____ Our Representative Burt Johnson

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.