

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE A 6-28
Doc ID	1346352

Tops

Name	Top	Datum
Heebner	3658	-602
Lansing	3744	-688
B/KC	4224	-1168
Marmaton	4250	-1194
Pawnee	4348	-1292
Ft.Scott	4376	-1320
Cherokee	4388	-1332
Morrow	4684	-1628
St.Gen	4838	-1782

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE A 6-28
Doc ID	1346352

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4935'to 4945		



CHARGE TO: **AMERICAN WARRIOR**

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30201

PAGE 1 OF

SERVICE LOCATIONS
1. **NESS CITY, KS**

WELL/PROJECT NO. **LEE A 6-28** LEASE **KEARNY** COUNTY/PARISH **KS** STATE **LARIN, KS** CITY **14 JAN 17** DATE **OWNER**

2. TICKET TYPE SERVICE SALES CONTRACTOR **DUKE DRILLING RIGS** RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.

3. WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **8 5/8 SURFACE** WELL PERMIT NO. WELL LOCATION **75, 1/25, E IUTO**

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
575					MILEAGE #115	110	EA	5.00	550.00
576D					Pump CHARGE	1	JOB	1250.00	1250.00
400					GUIDE SHOE	1	EA	350.00	350.00
409					TURBIDALERS	3	EA	95.00	285.00
410					TOP PLUG	1	EA	120.00	120.00
194					PLUG CONTAINER RENTAL	1	JOB	200.00	200.00
231					MWD FLUSH	500	gal	1.25	625.00
221					KCL	2	gal	25.00	50.00
									3430.00

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 *Kenneth Milne*

DATE SIGNED **14 JAN 17** TIME SIGNED **1245** A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				14461 18
WE UNDERSTOOD AND MET YOUR NEEDS?				17891 18
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				809 17
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 18700 35

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 30201

CUSTOMER AMERICAN WARRIOR WELL LEE A 6'28 DATE 1/15/17 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
276						FLDCELE	165	lbs			2 ²⁴	371 ²⁵
290						D-AIR	5	gac			42 ⁰⁰	210 ⁰⁰
330						SMD CEMENT	650	bx			15 ⁷⁵	10237 ⁵⁰
581						SERVICE CHARGE					1 ⁵⁰	975 ⁰⁰
583						MILEAGE CHARGE	2465	TON MILES	3556.57		75	2667 ⁴³

CONTINUATION TOTAL 14,461¹⁸

JOB LOG.

SWIFT Services, Inc.

DATE 14 JAN 17 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE LEE A 6-28 JOB TYPE 8 5/8 SURFACE TICKET NO. 30201

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							ON LOCATION
	0830							START PIPE. 8 5/8-23# RTD @ 1825 SET @ 1817 SHOE JT. 4/2.22. CENTRALIZERS - 1, 19, 37
	1028				✓			CIRCULATE.
	09 1045	6	12		✓		200	Pump 500 gal MUD FLUSH
		6	20		✓		200	Pump 20 BBL KCL SPACER
	1051	6	70		✓			MIX 150sx @ 11.8 ppg
		6	115		✓			MIX 300sx @ 12.5 ppg.
		4	31		✓			MIX 100sx @ 13.5 ppg.
		4	26		✓			MIX 100sx @ 14.5 ppg.
	1151	6			✓			RELEASE PLUG - START DISPLACING
	1210	0	114		✓		650	PLUG DOWN - SHUT WELL IN.
								CIRCULATE CEMENT TO SURFACE.
	1213							WASH TRUCK
	1245							JOB COMPLETE
								THANKS # 115
								JASON DAVE PRESTON JOHN



CHARGE TO: **AMERICAN WARRIOR**

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30204

PAGE 1 OF 2

1. SERVICE LOCATIONS NESS CITY, KS.	WELL/PROJECT NO.	LEASE LEE A 6-28	COUNTY/PARISH KEARNEY	STATE KS.	CITY LAKIN, KS.	DATE 25 JAN 17	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DUKE DRILLING #5	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE S2 LONGSTRING #17	WELL PERMIT NO.	WELL LOCATION 7S/W, 1/2S, E IWO		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575					MILEAGE #115	100		MIL		5.00	500	00
578					Pump CHARGE	1		JOB		1250.00	1250	00
403					CEMENT BASKET	1		EA.		250.00	250	00
406					LATCH DOWN PLUG & BAFFLE	1		EA.		225.00	225	00
407					INSERT FLOAT SHOE W/FILL	1		EA.		300.00	300	00
409					TURBOLIZERS	10		EA.		75.00	750	00
419					ROTATING HEAD RENTAL	1		JOB		200.00	200	00
281					MUD FLUSH	500		gal		1.25	625	00
221					KCL	2		gal		25.00	50	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 *Kenneth M. Lue*

DATE SIGNED **25 JAN 17** TIME SIGNED **2245**

A.M.
 P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	4150	00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					5235	25
WE UNDERSTOOD AND MET YOUR NEEDS?					9385	25
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TAX	426	82
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	9812	07

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

SWIFT OPERATOR *J. K. Smith* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 30204

CUSTOMER AMERICAN WARRIOR WELL LEE A 6-28 DATE 25 JAN 17 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
276						FLOCELE	50	lbs			2 ²⁵	112 ⁵⁰	
279						GEL	4	bx			25 ⁰⁰	100 ⁰⁰	
283						SALT	1100	lbs			120	220 ⁰⁰	
292						HALAD 322	150	lbs			8 ⁰⁰	1200 ⁰⁰	
290						D-AIR	2	sq			42 ⁰⁰	84 ⁰⁰	
325						STANDARD CEMENT	200	bx			12 ²⁵	2450 ⁰⁰	
581						SERVICE CHARGE					1 ⁵⁰	300 ⁰⁰	
583						MILEAGE CHARGE	TOTAL WEIGHT 20500	LOADED MILES 100			75	768 ⁷⁵	
											CUBIC FEET 200 bx	1 ⁵⁰	300 ⁰⁰
											TON MILES 1025.0	75	768 ⁷⁵

CONTINUATION TOTAL 5235²⁵

JOB LOG

SWIFT Services, Inc.

DATE 25 JAN 17 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE LEE "A" 6-28 JOB TYPE 52 LONGSTRING TICKET NO. 30204

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11000							ON LOCATION
	1820							START PIPE - 5 1/2" 17# RTD @ 5050 SET @ 5049 SHOE JT. 4 1/2" 21' CENTRALIZERS 1,3,5,7,9,11,13,15,17,19 BASKET 6
	2049				✓			DROP BALL - CIRCULATE.
	2123	6	12		✓	200		Pump 500 gal MUD FLUSH
		6	20		✓	200		Pump 20 Bbl KCL SPACER
	2129		7.5					PLUG RH-30sx - MH-20sx
	2134	4 1/2	36		✓			MIX 150 sx STANDARD 2% BBL, 10% SALT
	2149							WASH OUT Pump & LINES.
	2152	6 1/2			✓			START DISPLACING PLUG.
	2210	Ø	116 1/2		✓	1500		PLUG DOWN - LATCH PLUG IN.
	2212				✓			RELEASE PSI - DRY
	2215							WASH TRUCK
	2300							JOB COMPLETE. THANKS #115 JASON DAVE PRESTON



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 87846

ATTN: Luke Thompson

Lee A #6-28

28-25s-36w Kearny,KS

Start Date: 2017.01.18 @ 15:25:17

End Date: 2017.01.18 @ 23:34:40

Job Ticket #: 61306 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.01.26 @ 13:46:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

28-25s-36w Kearny, KS

Lee A #6-28

Job Ticket: 61306

DST#: 1

Test Start: 2017.01.18 @ 15:25:17

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:59:10
 Time Test Ended: 23:34:40
 Interval: **3675.00 ft (KB) To 3730.00 ft (KB) (TVD)**
 Total Depth: 3750.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3056.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 11.00 ft

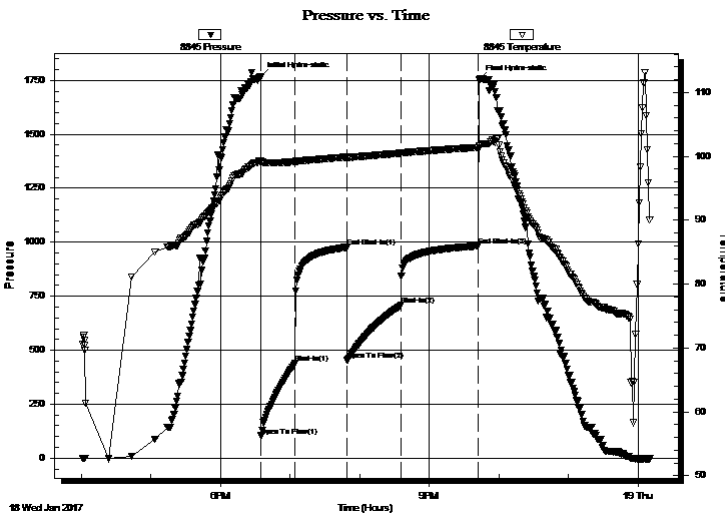
Serial #: 8845

Inside

Press@RunDepth: 707.66 psig @ 3676.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.18 End Date: 2017.01.19 Last Calib.: 2017.01.19
 Start Time: 16:01:05 End Time: 00:10:22 Time On Btm: 2017.01.18 @ 18:34:23
 Time Off Btm: 2017.01.18 @ 21:43:08

TEST COMMENT: IF: BOB @ 3 min.
 IS: No return.
 FF: BOB @ 4 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.29	99.36	Initial Hydro-static
1	102.62	99.04	Open To Flow (1)
30	437.93	99.17	Shut-In(1)
75	976.78	99.91	End Shut-In(1)
75	453.03	99.73	Open To Flow (2)
122	707.66	100.51	Shut-In(2)
188	982.58	101.43	End Shut-In(2)
189	1755.23	101.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	smcw 2m 98w (oil spots)	19.86
0.00	puddle of oil on top	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61306

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.01.18 @ 15:25:17

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 49.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3675.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	102.00 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			3649.00	
Shut In Tool	5.00			3654.00	
Hydraulic tool	5.00			3659.00	
Jars	5.00			3664.00	
Safety Joint	2.00			3666.00	
Packer	5.00			3671.00	27.00 Bottom Of Top Packer
Packer	4.00			3675.00	
Stubb	1.00			3676.00	
Recorder	0.00	8845	Inside	3676.00	
Recorder	0.00	8365	Outside	3676.00	
Perforations	12.00			3688.00	
Change Over Sub	1.00			3689.00	
Drill Pipe	31.00			3720.00	
Change Over Sub	1.00			3721.00	
Perforations	5.00			3726.00	
Blank Off Sub	1.00			3727.00	75.00 Tool Interval
Packer	3.00			3730.00	
Blank Spacing	1.00			3731.00	
Perforations	16.00			3747.00	
Recorder	0.00	8677	Below	3747.00	
Bullnose	3.00			3750.00	1000101.00 Bottom Packers & Anchor
Total Tool Length:	102.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61306

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.01.18 @ 15:25:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1570.00	smcw 2m 98w (oil spots)	19.864
0.00	puddle of oil on top	0.000

Total Length: 1570.00 ft Total Volume: 19.864 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

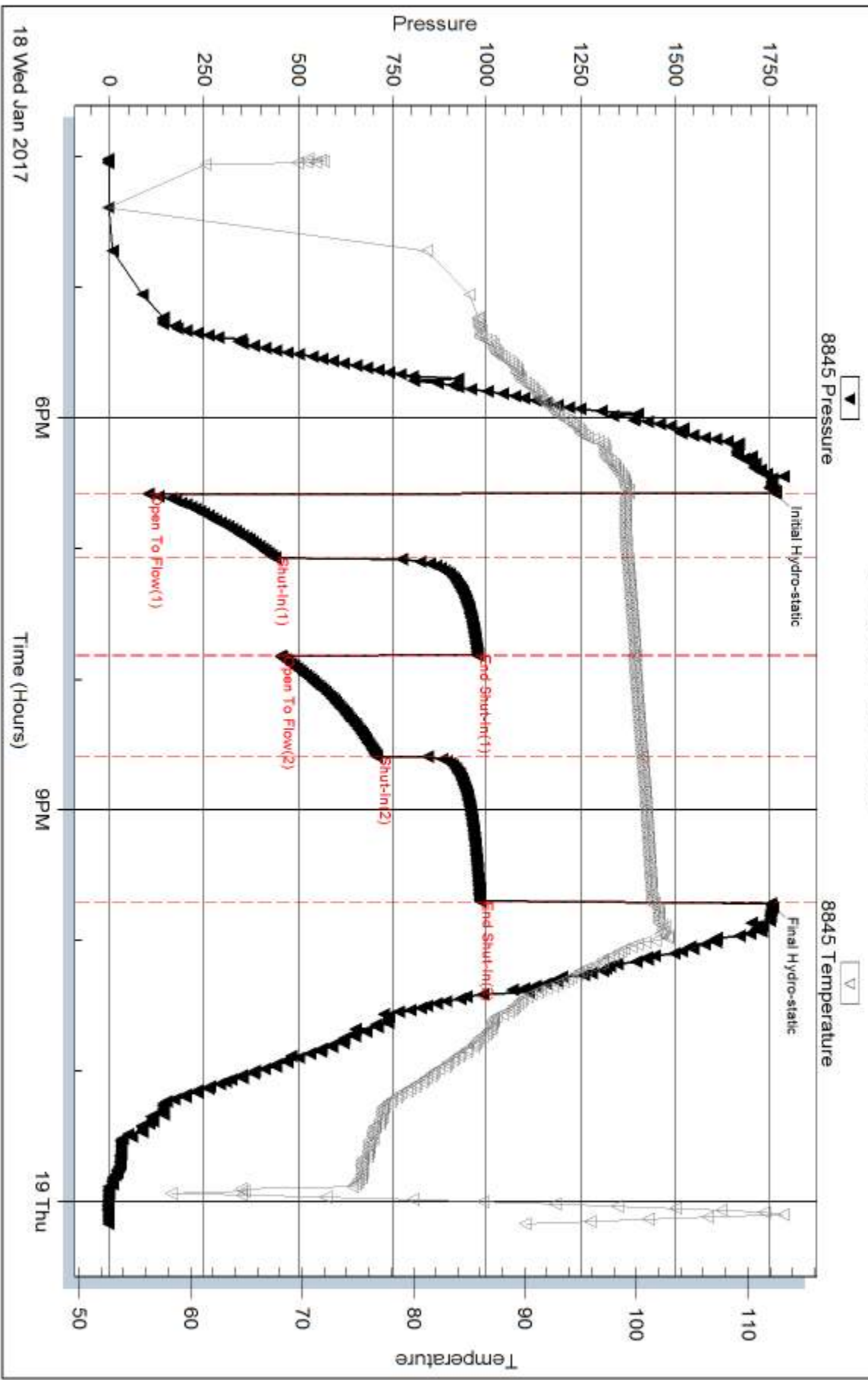
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .330 @ 38 F = 41000ppm

Pressure vs. Time



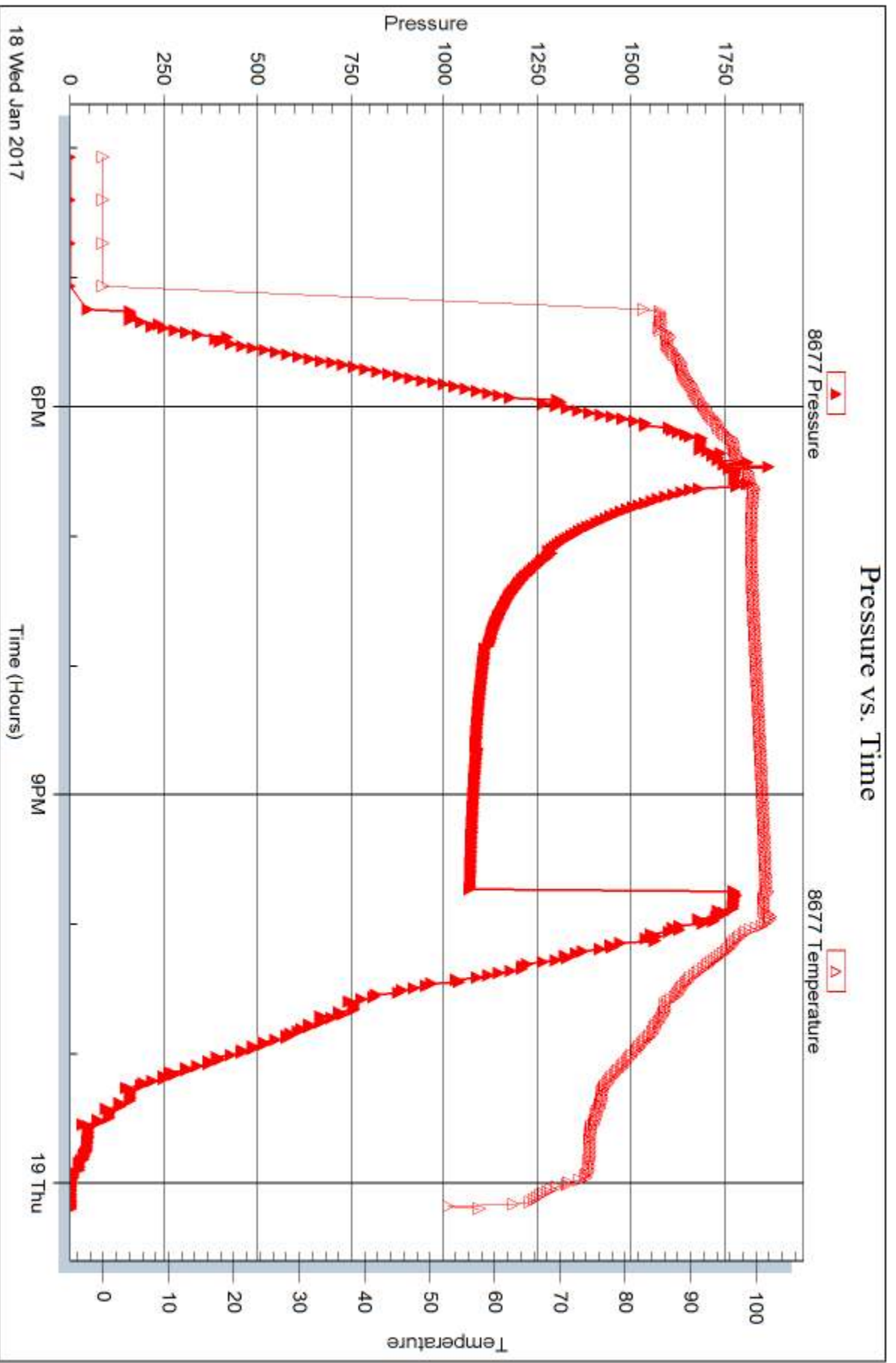
18 Wed Jan 2017

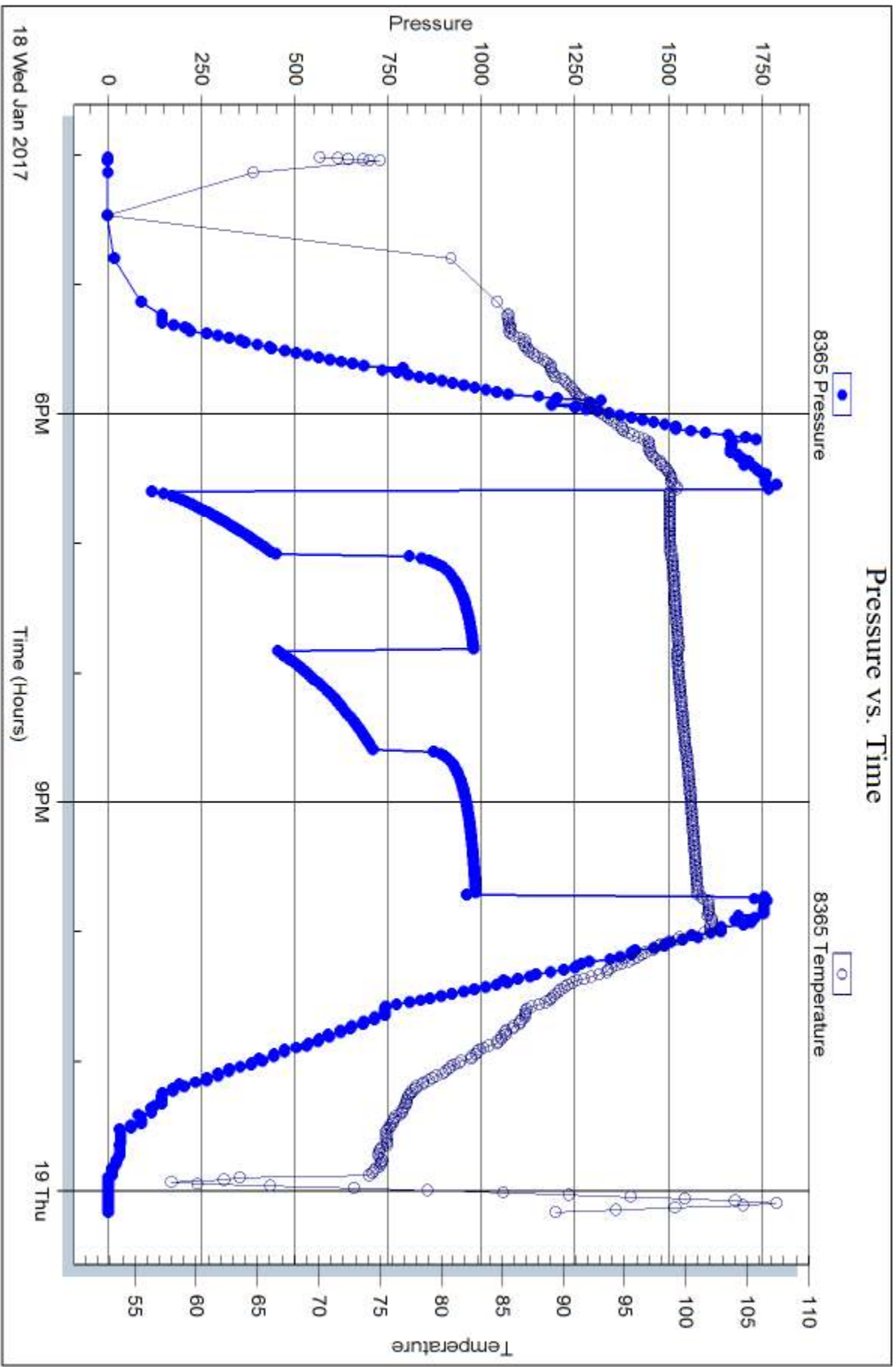
6PM

Time (Hours)

9PM

19 Thu







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 87846

ATTN: Luke Thompson

Lee A #6-28

28-25s-36w Kearny,KS

Start Date: 2017.01.19 @ 17:30:00

End Date: 2017.01.20 @ 01:41:00

Job Ticket #: 61307 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.01.26 @ 13:45:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

28-25s-36w Kearny,KS

Lee A #6-28

Job Ticket: 61307

DST#: 2

Test Start: 2017.01.19 @ 17:30:00

GENERAL INFORMATION:

Formation: **Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:12:45
 Time Test Ended: 01:41:00
 Interval: **3928.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3056.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 11.00 ft

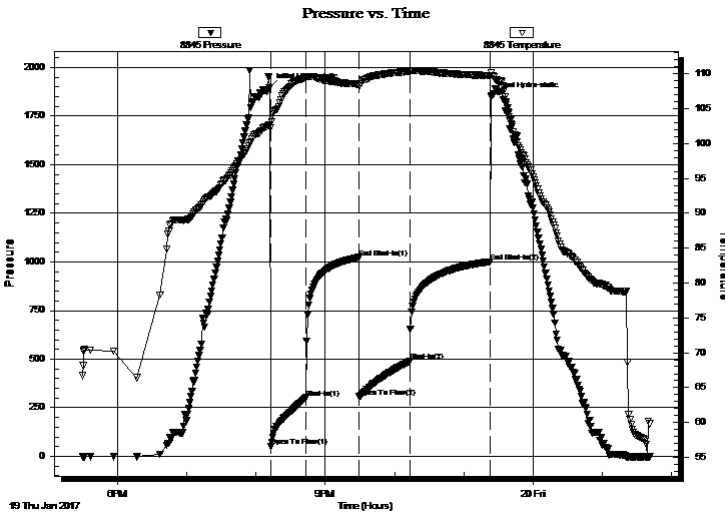
Serial #: 8845

Outside

Press@RunDepth: 490.38 psig @ 3929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.19 End Date: 2017.01.20 Last Calib.: 2017.01.20
 Start Time: 17:30:05 End Time: 01:40:59 Time On Btm: 2017.01.19 @ 20:12:00
 Time Off Btm: 2017.01.19 @ 23:23:30

TEST COMMENT: IF: BOB @ 6 min.
 IS: No return.
 FF: BOB @ 8 min.
 FSI No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.81	102.67	Initial Hydro-static
1	49.26	102.30	Open To Flow (1)
32	301.04	109.45	Shut-In(1)
77	1022.89	108.53	End Shut-In(1)
78	306.10	108.23	Open To Flow (2)
122	490.38	110.30	Shut-In(2)
191	1001.22	109.78	End Shut-In(2)
192	1850.43	110.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1070.00	smcw 3m 97w (oil spots in tool)	12.85

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

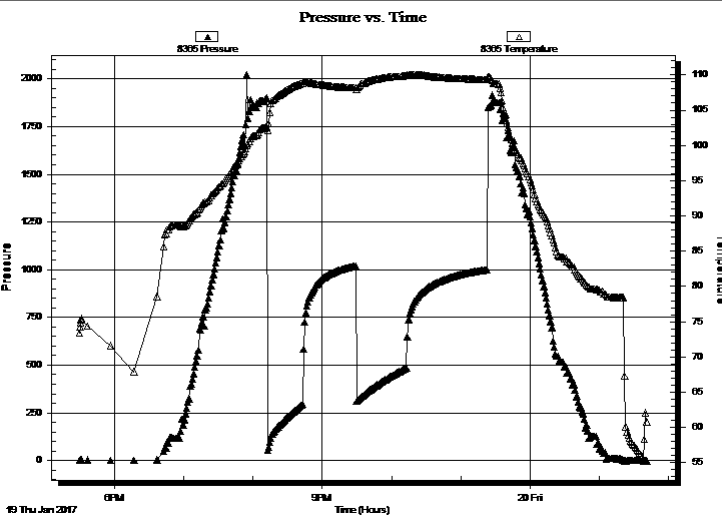
28-25s-36w Kearny, KS
Lee A #6-28
 Job Ticket: 61307 **DST#: 2**
 Test Start: 2017.01.19 @ 17:30:00

GENERAL INFORMATION:

Formation: **Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:12:45
 Time Test Ended: 01:41:00
 Interval: **3928.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3056.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8365 Inside
 Press@RunDepth: psig @ 3929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.19 End Date: 2017.01.20 Last Calib.: 2017.01.20
 Start Time: 17:30:05 End Time: 01:40:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 6 min.
 IS: No return.
 FF: BOB @ 8 min.
 FSI No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1070.00	smcw 3m 97w (oil spots in tool)	12.85

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61307

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.01.19 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.80 inches	Volume: 51.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3928.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			3902.00	
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	2.00			3919.00	
Packer	5.00			3924.00	27.00 Bottom Of Top Packer
Packer	4.00			3928.00	
Stubb	1.00			3929.00	
Recorder	0.00	8365	Inside	3929.00	
Recorder	0.00	8845	Outside	3929.00	
Perforations	15.00			3944.00	
Change Over Sub	1.00			3945.00	
Drill Pipe	31.00			3976.00	
Change Over Sub	1.00			3977.00	
Bullnose	3.00			3980.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61307

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.01.19 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

49000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1070.00	smcw 3m 97w (oil spots in tool)	12.850

Total Length: 1070.00 ft Total Volume: 12.850 bbf

Num Fluid Samples: 0

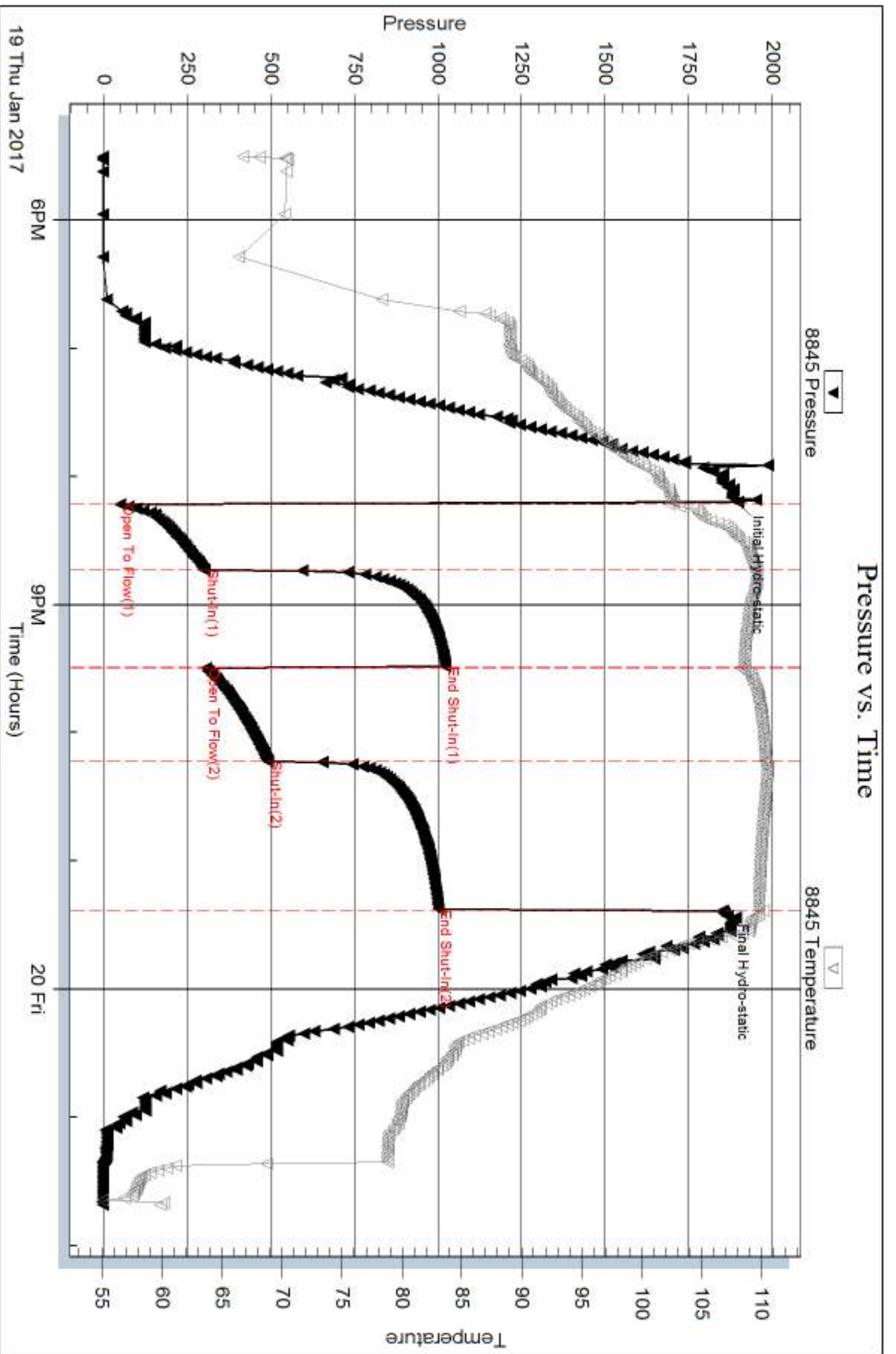
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .249 @ 44f = 49000ppm



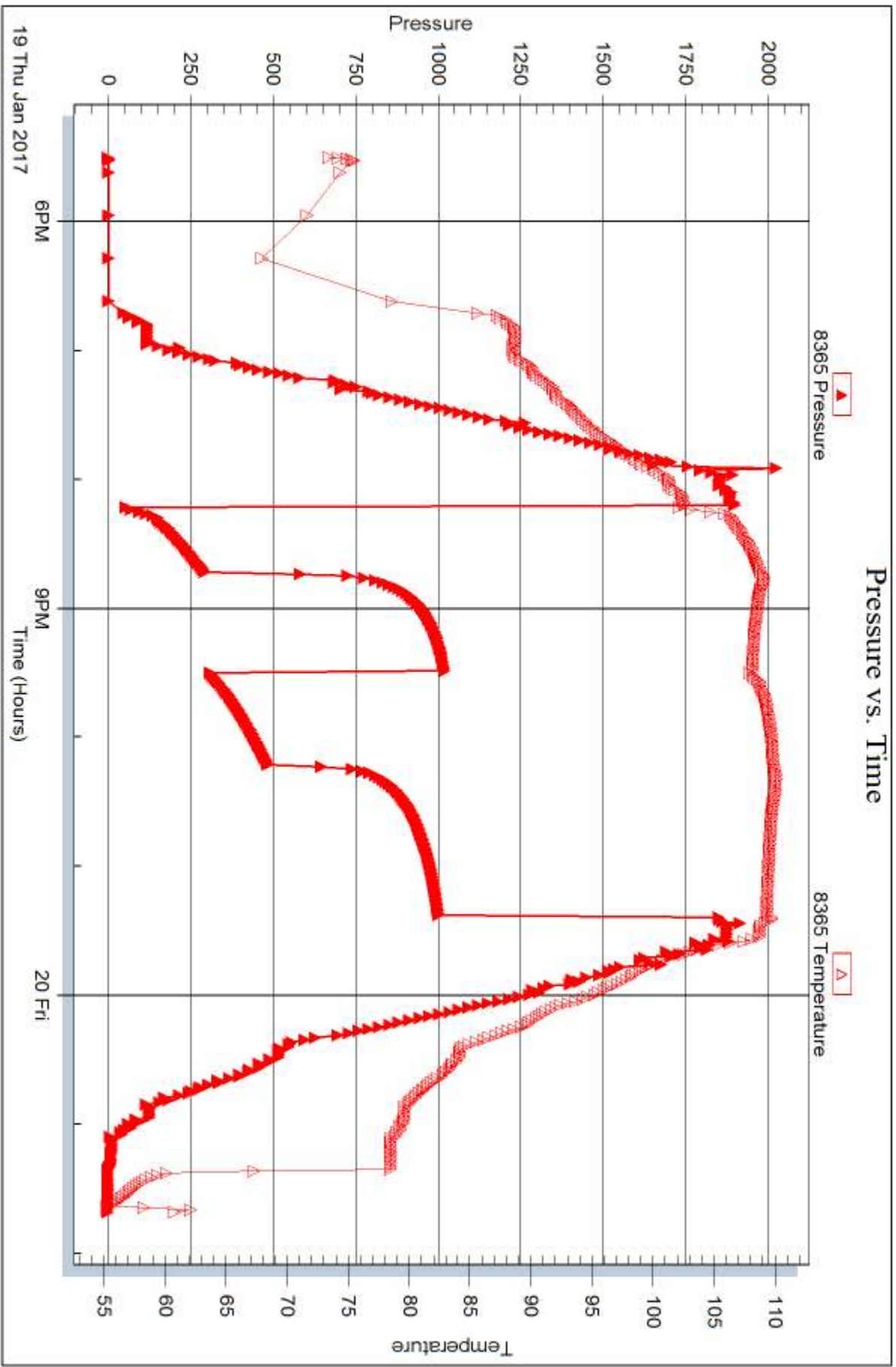
Serial #: 8365

Inside

American Warrior, Inc

Lee A #6-28

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 61307

Printed: 2017.01.26 @ 13:45:51



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 87846

ATTN: Luke Thompson

Lee A #6-28

28-25s-36w Kearny,KS

Start Date: 2017.01.21 @ 02:35:00

End Date: 2017.01.21 @ 10:49:30

Job Ticket #: 61308 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.01.26 @ 13:40:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc
PO Box 399
Garden City, KS 87846
ATTN: Luke Thompson

28-25s-36w Kearny,KS

Lee A #6-28

Job Ticket: 61308

DST#: 3

Test Start: 2017.01.21 @ 02:35:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:02:00
 Tester: Bradley Walter
 Time Test Ended: 10:49:30
 Unit No: 78
 Interval: **4259.00 ft (KB) To 4333.00 ft (KB) (TVD)**
 Reference Elevations: 3056.00 ft (KB)
 Total Depth: 4333.00 ft (KB) (TVD)
 3045.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

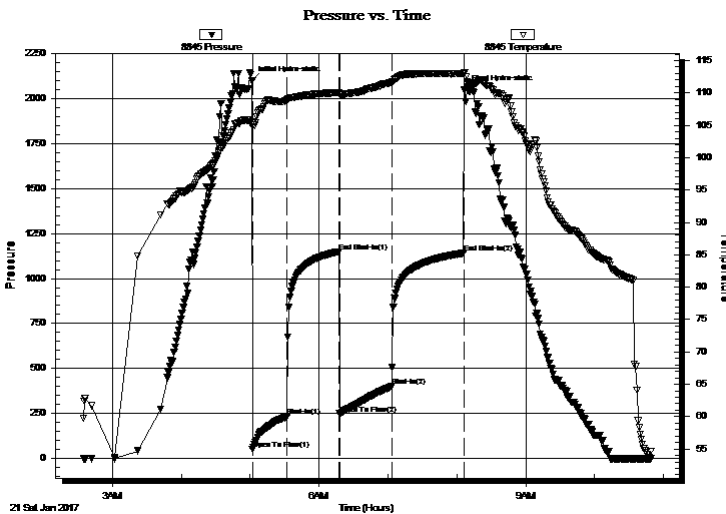
Serial #: 8845

Outside

Press@RunDepth: 401.54 psig @ 4260.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.21 End Date: 2017.01.21 Last Calib.: 2017.01.21
 Start Time: 02:35:05 End Time: 10:49:29 Time On Btm: 2017.01.21 @ 05:01:45
 Time Off Btm: 2017.01.21 @ 08:07:00

TEST COMMENT: IF: BOB @ 9 min.
 IS: 5" return, receded to 1".
 FF: BOB @ 8 min.
 FS: 9" return, receded to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.26	105.48	Initial Hydro-static
1	50.96	104.81	Open To Flow (1)
31	234.17	108.90	Shut-In(1)
76	1149.18	110.05	End Shut-In(1)
76	248.07	109.82	Open To Flow (2)
122	401.54	111.62	Shut-In(2)
185	1140.98	112.94	End Shut-In(2)
186	2048.10	113.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	Water 100w	2.47
300.00	somcw 3o 5m 92w	4.21
120.00	gw ocm 20g 20w 30o 30m	1.68
130.00	go 15g 85o	1.82
0.00	560' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc

28-25s-36w Kearny, KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61308

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.01.21 @ 02:35:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:02:00

Time Test Ended: 10:49:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4259.00 ft (KB) To 4333.00 ft (KB) (TVD)

Reference Elevations: 3056.00 ft (KB)

Total Depth: 4333.00 ft (KB) (TVD)

3045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8365

Inside

Press@RunDepth: psig @ 4260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.21

End Date:

2017.01.21

Last Calib.:

1899.12.30

Start Time: 02:35:05

End Time:

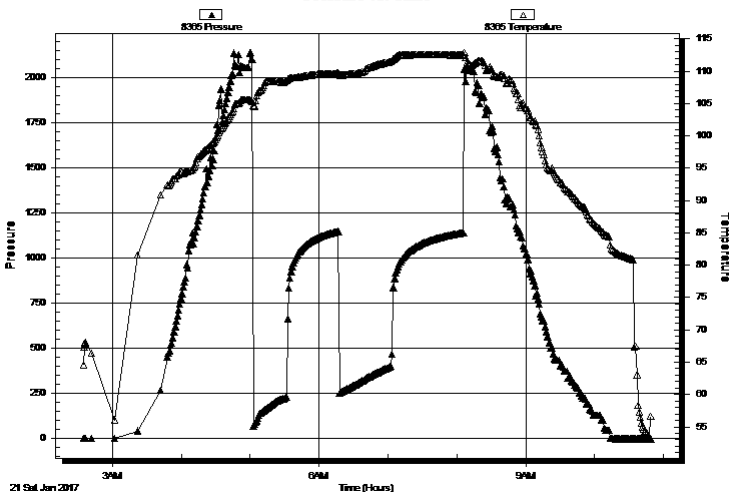
10:49:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 9 min.
IS: 5" return, receded to 1".
FF: BOB @ 8 min.
FS: 9" return, receded to 3"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
330.00	Water 100w	2.47
300.00	somcw 3o 5m 92w	4.21
120.00	gw ocm 20g 20w 30o 30m	1.68
130.00	go 15g 85o	1.82
0.00	560' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61308

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.01.21 @ 02:35:00

Tool Information

Drill Pipe:	Length: 4000.00 ft	Diameter: 3.80 inches	Volume: 56.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 57.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4259.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 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			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	2.00			4250.00	
Packer	5.00			4255.00	27.00 Bottom Of Top Packer
Packer	4.00			4259.00	
Stubb	1.00			4260.00	
Recorder	0.00	8365	Inside	4260.00	
Recorder	0.00	8845	Outside	4260.00	
Perforations	5.00			4265.00	
Change Over Sub	1.00			4266.00	
Drill Pipe	63.00			4329.00	
Change Over Sub	1.00			4330.00	
Bullnose	3.00			4333.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61308

DST#: 3

ATTN: Luke Thompson

Test Start: 2017.01.21 @ 02:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
330.00	Water 100w	2.470
300.00	somcw 3o 5m 92w	4.208
120.00	gw ocm 20g 20w 30o 30m	1.683
130.00	go 15g 85o	1.824
0.00	560' GIP	0.000

Total Length: 880.00 ft Total Volume: 10.185 bbf

Num Fluid Samples: 0

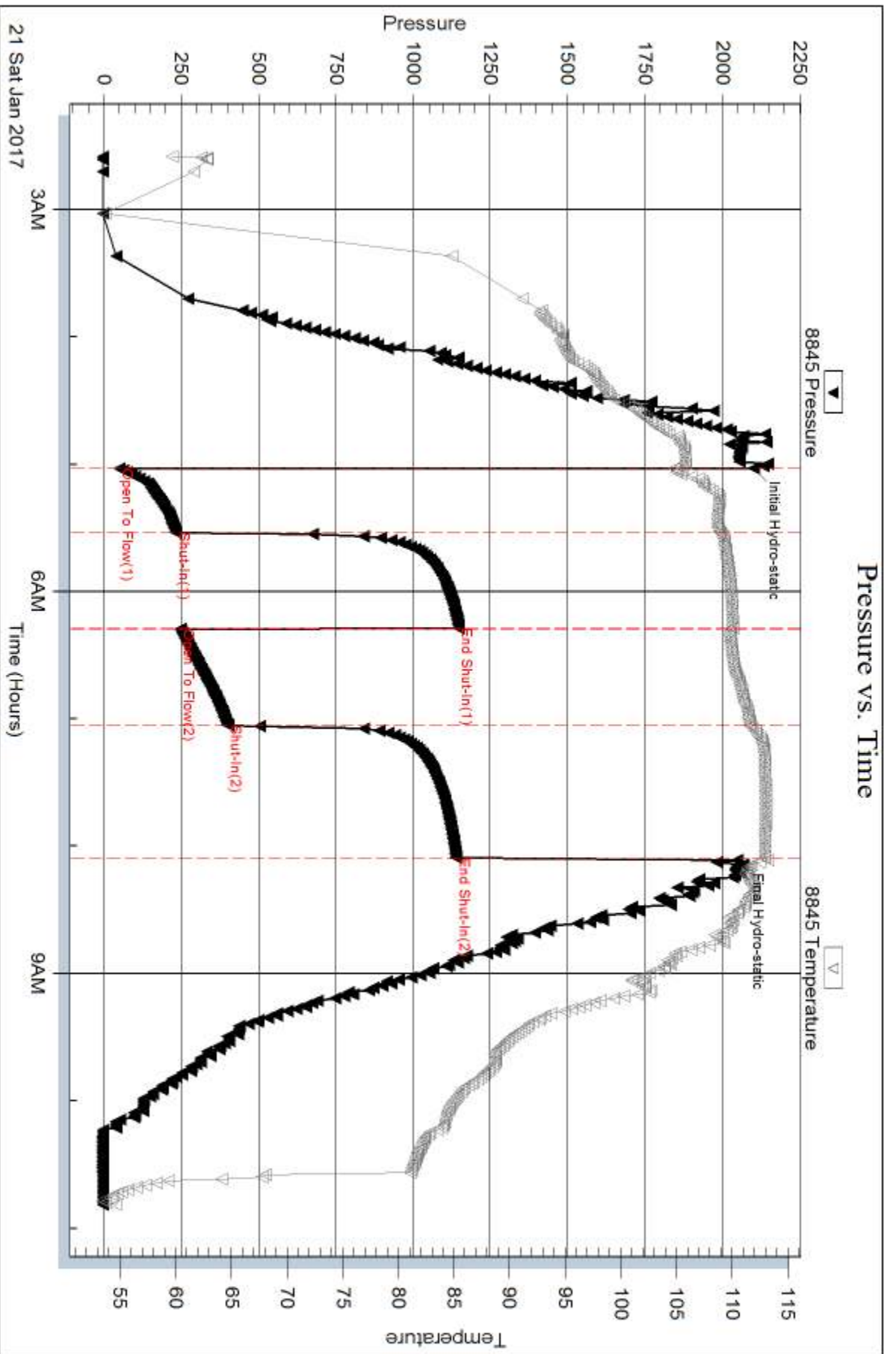
Num Gas Bombs: 0

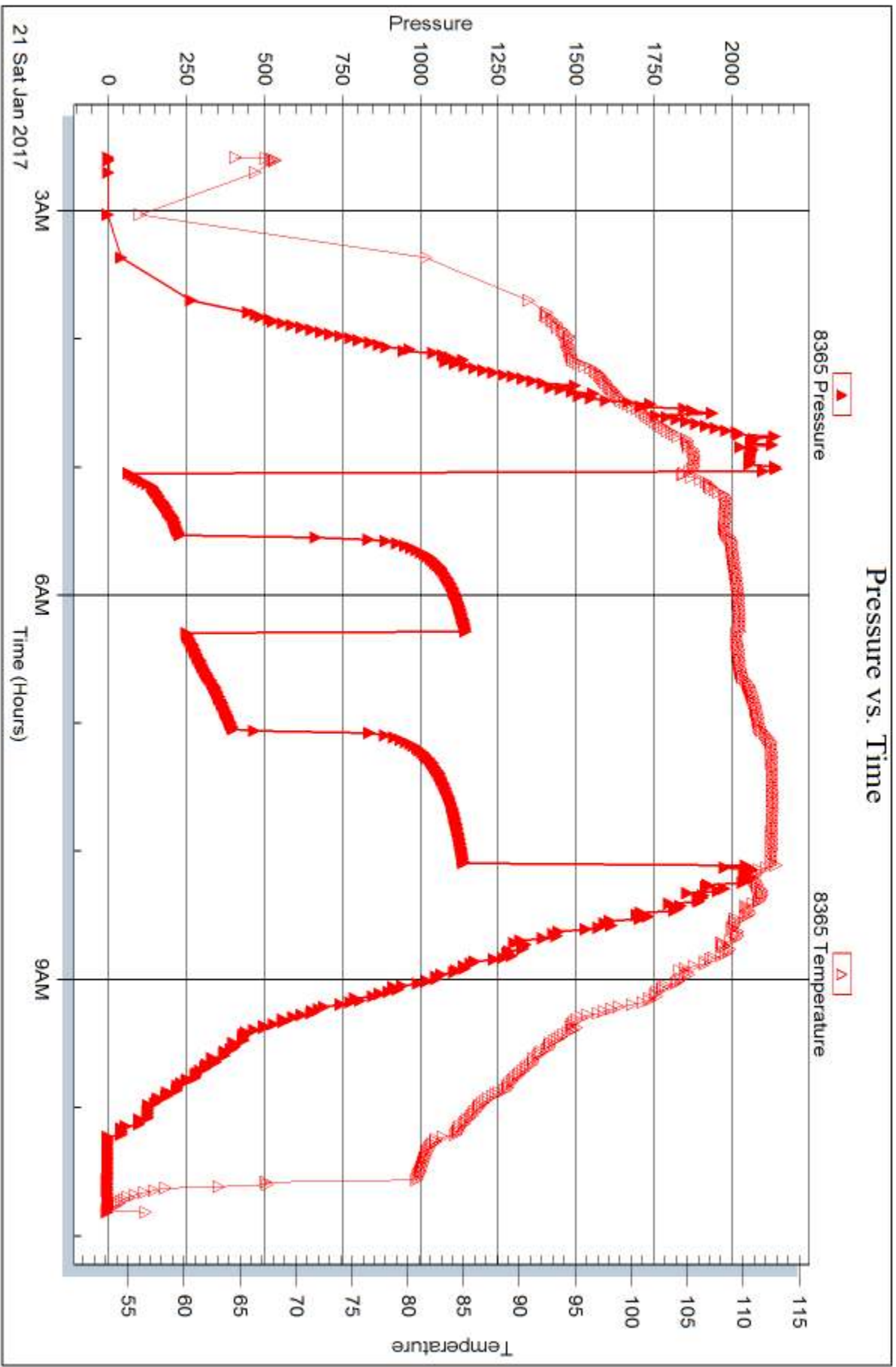
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .351 @ 42f = 37000ppm







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 87846

ATTN: Luke Thompson

Lee A #6-28

28-25s-36w Kearny,KS

Start Date: 2017.01.23 @ 06:42:00

End Date: 2017.01.23 @ 12:42:30

Job Ticket #: 61309 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.01.26 @ 13:40:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

28-25s-36w Kearny,KS

Lee A #6-28

Job Ticket: 61309

DST#: 4

Test Start: 2017.01.23 @ 06:42:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:07:00

Time Test Ended: 12:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4810.00 ft (KB) To 4845.00 ft (KB) (TVD)

Reference Elevations: 3056.00 ft (KB)

Total Depth: 4845.00 ft (KB) (TVD)

3045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press@RunDepth: 23.01 psig @ 4811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.23

End Date: 2017.01.23

Last Calib.: 2017.01.23

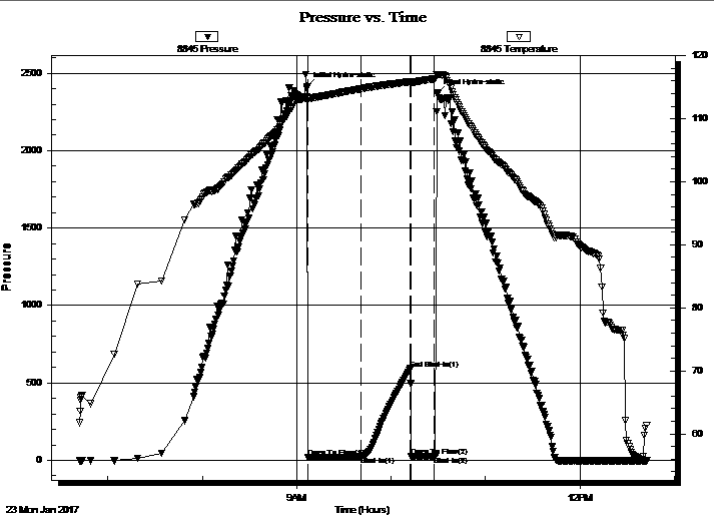
Start Time: 06:42:05

End Time: 12:42:29

Time On Btm: 2017.01.23 @ 09:06:45

Time Off Btm: 2017.01.23 @ 10:29:15

TEST COMMENT: IF: 3/4" blow.
 IS: No return.
 FF: No Blow, pulled test.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2410.64	113.59	Initial Hydro-static
1	18.34	112.86	Open To Flow (1)
34	23.01	114.75	Shut-In(1)
66	591.69	115.88	End Shut-In(1)
66	23.97	115.76	Open To Flow (2)
81	25.90	116.33	Shut-In(2)
83	2365.22	117.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m (oil spots)	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

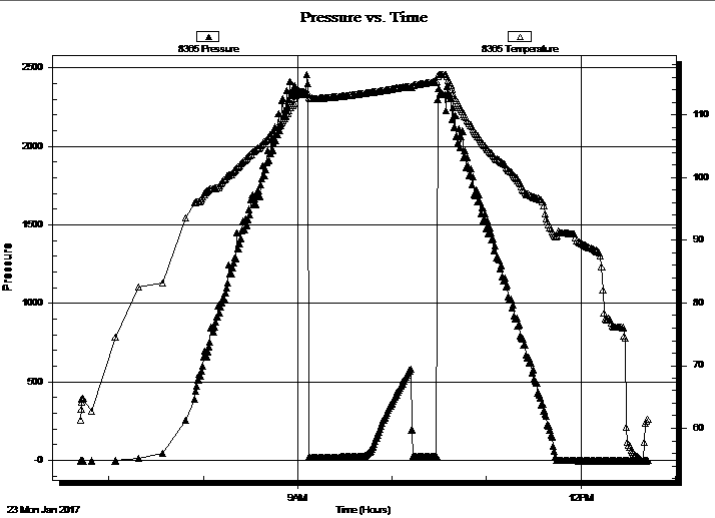
28-25s-36w Kearny, KS
Lee A #6-28
 Job Ticket: 61309 **DST#: 4**
 Test Start: 2017.01.23 @ 06:42:00

GENERAL INFORMATION:

Formation:	Morrow		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	09:07:00		Tester: Bradley Walter
Time Test Ended:	12:42:30		Unit No: 78
Interval:	4810.00 ft (KB) To 4845.00 ft (KB) (TVD)		Reference Elevations: 3056.00 ft (KB)
Total Depth:	4845.00 ft (KB) (TVD)		3045.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft

Serial #: 8365	Inside		
Press@RunDepth:	psig @ 4811.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.01.23	End Date:	2017.01.23
Start Time:	06:42:05	End Time:	12:42:29
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: 3/4" blow.
 IS: No return.
 FF: No Blow , pulled test.



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	mud 100m (oil spots)	0.05

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61309

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.01.23 @ 06:42:00

Tool Information

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 65.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4810.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 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
Change Over Sub	1.00			4784.00	
Shut In Tool	5.00			4789.00	
Hydraulic tool	5.00			4794.00	
Jars	5.00			4799.00	
Safety Joint	2.00			4801.00	
Packer	5.00			4806.00	27.00 Bottom Of Top Packer
Packer	4.00			4810.00	
Stubb	1.00			4811.00	
Recorder	0.00	8365	Inside	4811.00	
Recorder	0.00	8845	Outside	4811.00	
Perforations	31.00			4842.00	
Bullnose	3.00			4845.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61309

DST#: 4

ATTN: Luke Thompson

Test Start: 2017.01.23 @ 06:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100m (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

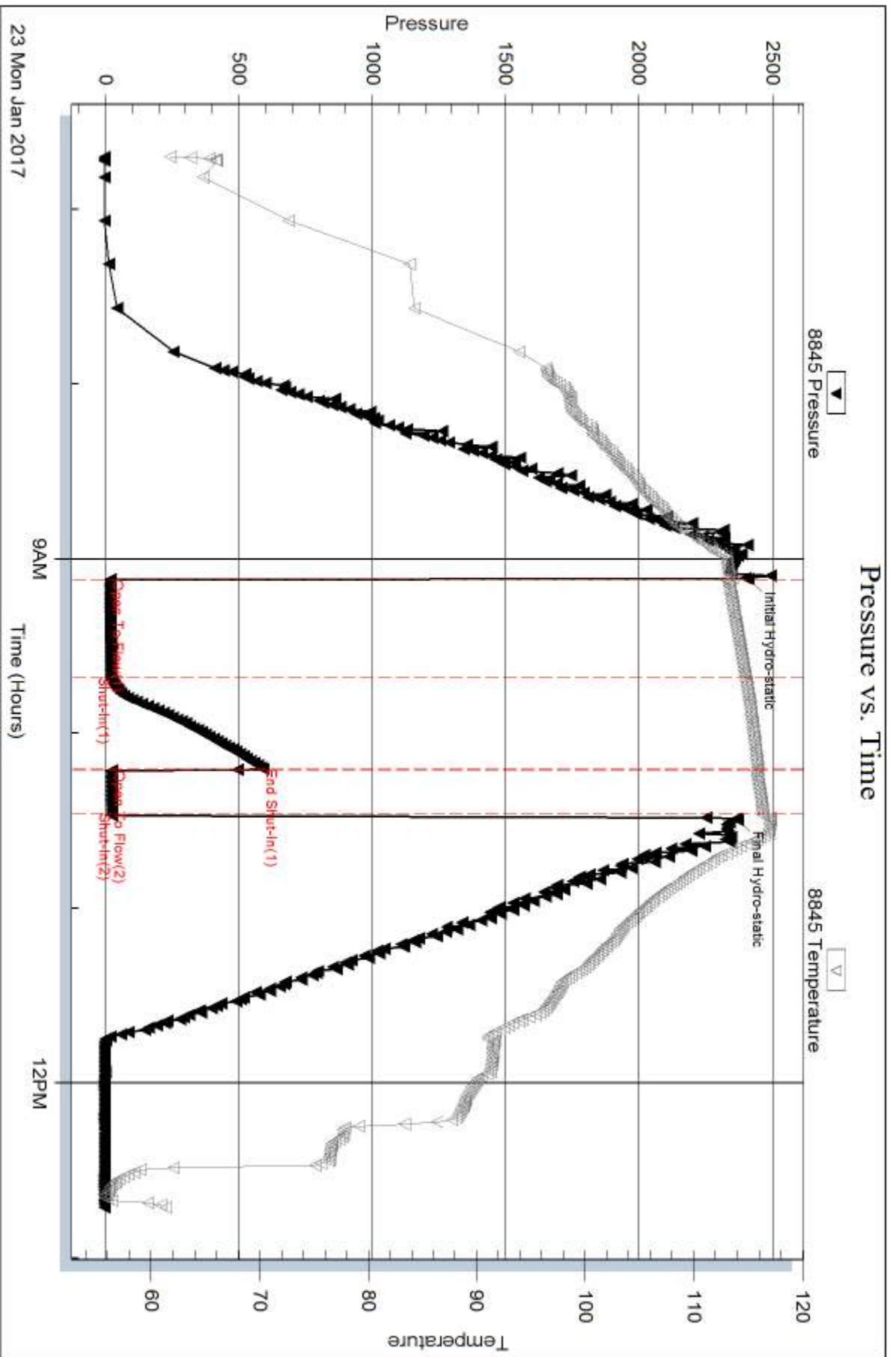
Num Gas Bombs: 0

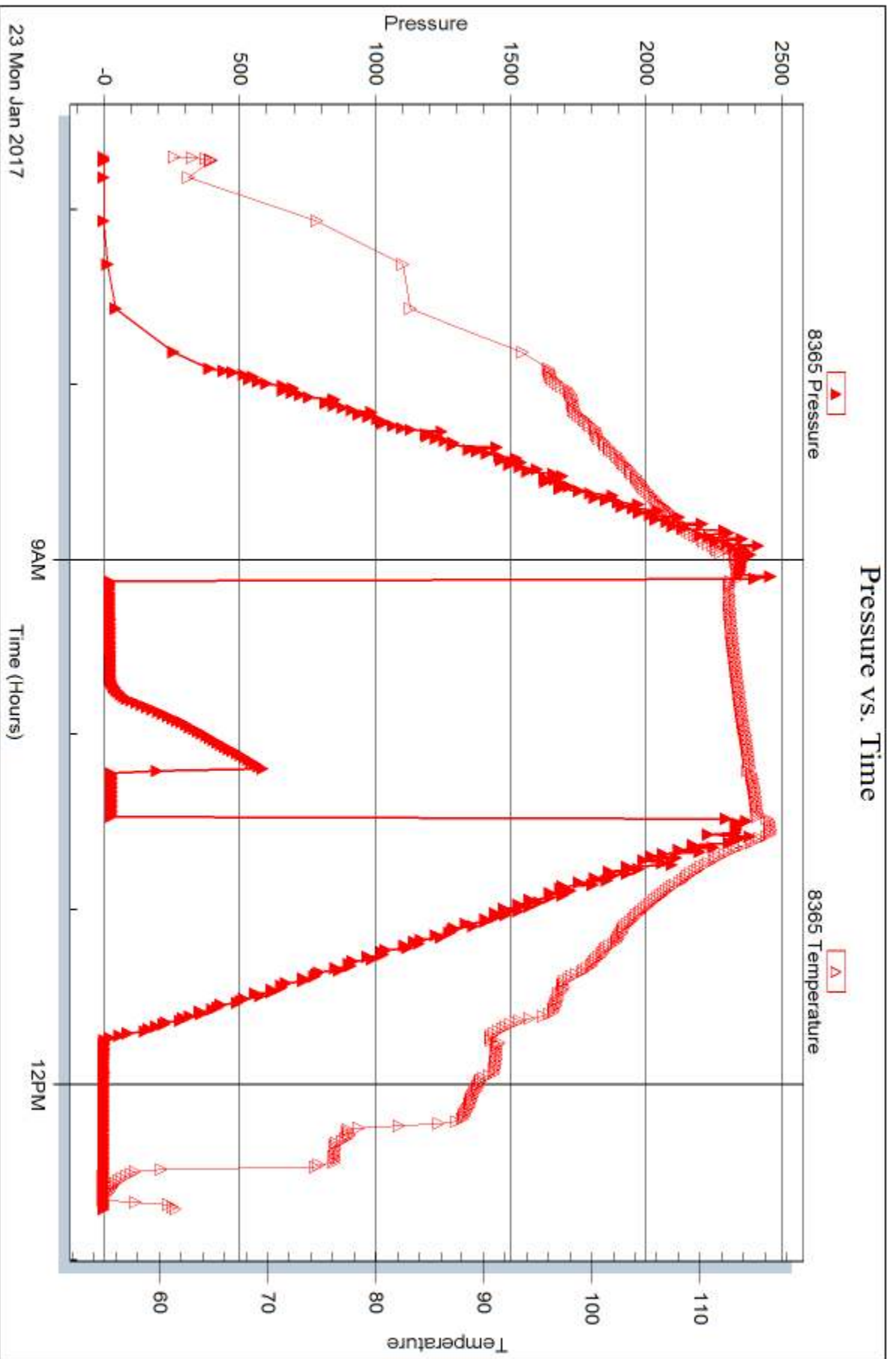
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 87846

ATTN: Luke Thompson

Lee A #6-28

28-25s-36w Kearny,KS

Start Date: 2017.01.24 @ 05:45:00

End Date: 2017.01.24 @ 13:13:45

Job Ticket #: 61310 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.01.26 @ 13:29:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc
 PO Box 399
 Garden City, KS 87846
 ATTN: Luke Thompson

28-25s-36w Kearny, KS

Lee A #6-28

Job Ticket: 61310

DST#: 5

Test Start: 2017.01.24 @ 05:45:00

GENERAL INFORMATION:

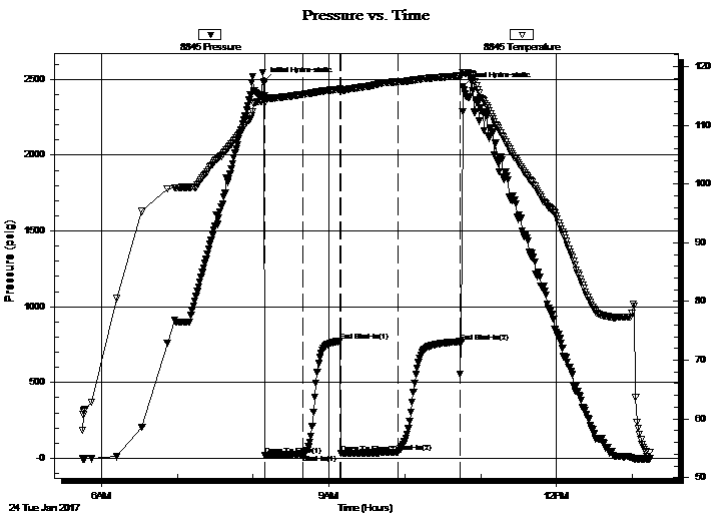
Formation: **St Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:09:30
 Time Test Ended: 13:13:45
 Interval: **4915.00 ft (KB) To 4950.00 ft (KB) (TVD)**
 Total Depth: 4950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3056.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press@RunDepth: 41.34 psig @ 4916.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.24 End Date: 2017.01.24 Last Calib.: 2017.01.24
 Start Time: 05:45:05 End Time: 13:13:44 Time On Btm: 2017.01.24 @ 08:08:15
 Time Off Btm: 2017.01.24 @ 10:46:00

TEST COMMENT: IF: 1 1/2" blow .
 IS: No return.
 FF: 1/2" receded to surface.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2485.84	114.80	Initial Hydro-static
2	19.50	113.80	Open To Flow (1)
32	27.42	115.26	Shut-In(1)
61	773.49	116.13	End Shut-In(1)
62	34.66	116.00	Open To Flow (2)
107	41.34	117.39	Shut-In(2)
156	769.58	118.40	End Shut-In(2)
158	2450.52	118.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	gocm 20g 35o 45m	0.20
40.00	go 10g 90o	0.20
0.00	100' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61310

DST#: 5

ATTN: Luke Thompson

Test Start: 2017.01.24 @ 05:45:00

GENERAL INFORMATION:

Formation: **St Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:30

Time Test Ended: 13:13:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4915.00 ft (KB) To 4950.00 ft (KB) (TVD)

Reference Elevations: 3056.00 ft (KB)

Total Depth: 4950.00 ft (KB) (TVD)

3045.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4916.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.24

End Date:

2017.01.24

Last Calib.:

2017.01.24

Start Time: 05:45:05

End Time:

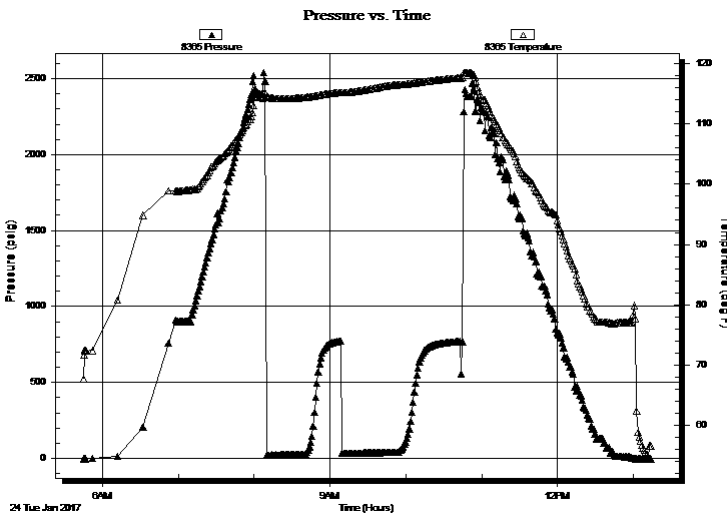
13:13:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1 1/2" blow.
IS: No return.
FF: 1/2" receded to surface.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	gocm 20g 35o 45m	0.20
40.00	go 10g 90o	0.20
0.00	100' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61310

DST#: 5

ATTN: Luke Thompson

Test Start: 2017.01.24 @ 05:45:00

Tool Information

Drill Pipe:	Length: 4660.00 ft	Diameter: 3.80 inches	Volume: 65.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 66.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4915.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 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
Change Over Sub	1.00			4889.00	
Shut In Tool	5.00			4894.00	
Hydraulic tool	5.00			4899.00	
Jars	5.00			4904.00	
Safety Joint	2.00			4906.00	
Packer	5.00			4911.00	27.00 Bottom Of Top Packer
Packer	4.00			4915.00	
Stubb	1.00			4916.00	
Recorder	0.00	8365	Inside	4916.00	
Recorder	0.00	8845	Outside	4916.00	
Perforations	31.00			4947.00	
Bullnose	3.00			4950.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc

28-25s-36w Kearny,KS

PO Box 399
Garden City, KS 87846

Lee A #6-28

Job Ticket: 61310

DST#: 5

ATTN: Luke Thompson

Test Start: 2017.01.24 @ 05:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 775.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	gocm 20g 35o 45m	0.197
40.00	go 10g 90o	0.197
0.00	100' GIP	0.000

Total Length: 80.00 ft Total Volume: 0.394 bbl

Num Fluid Samples: 0

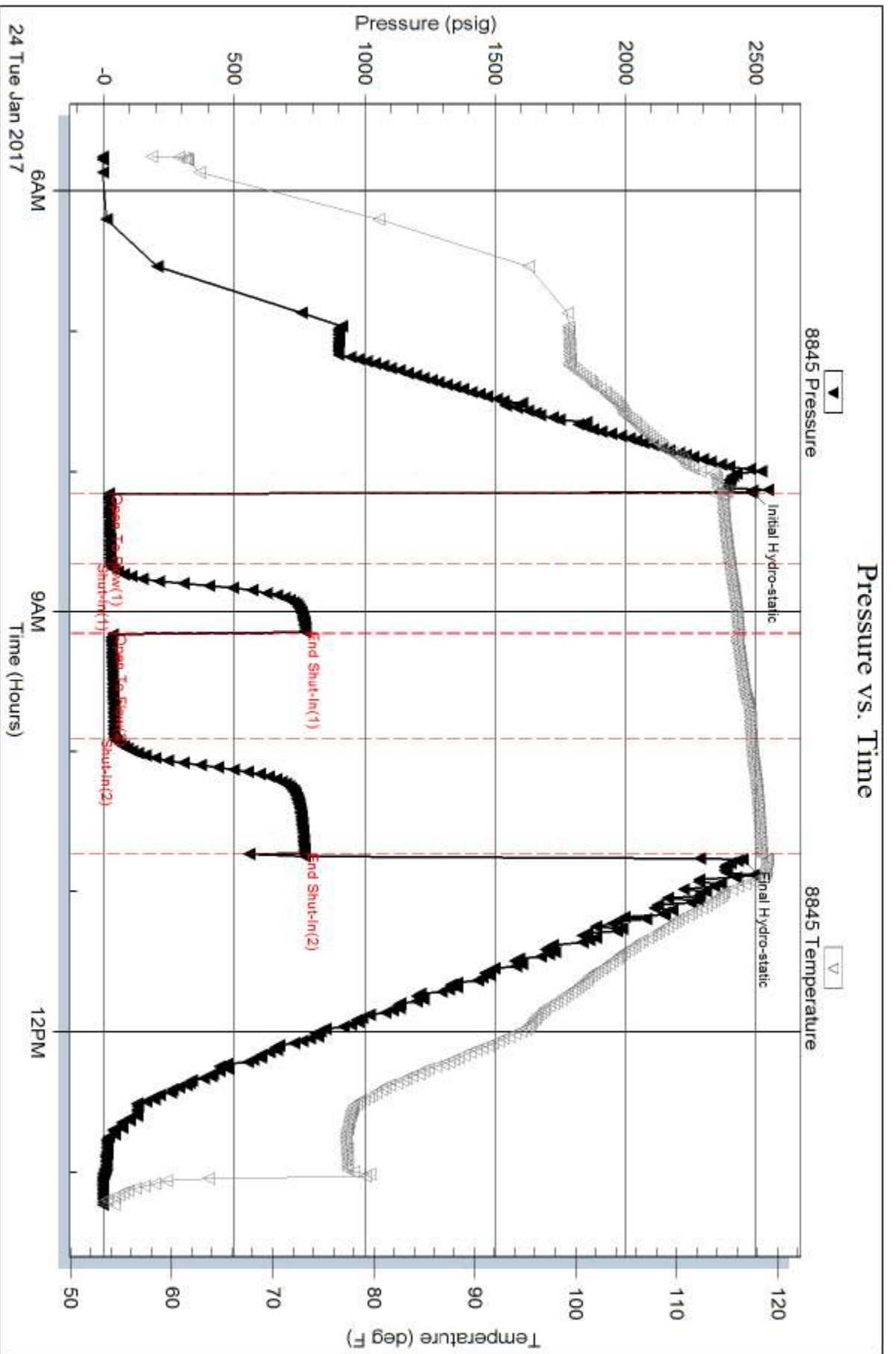
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



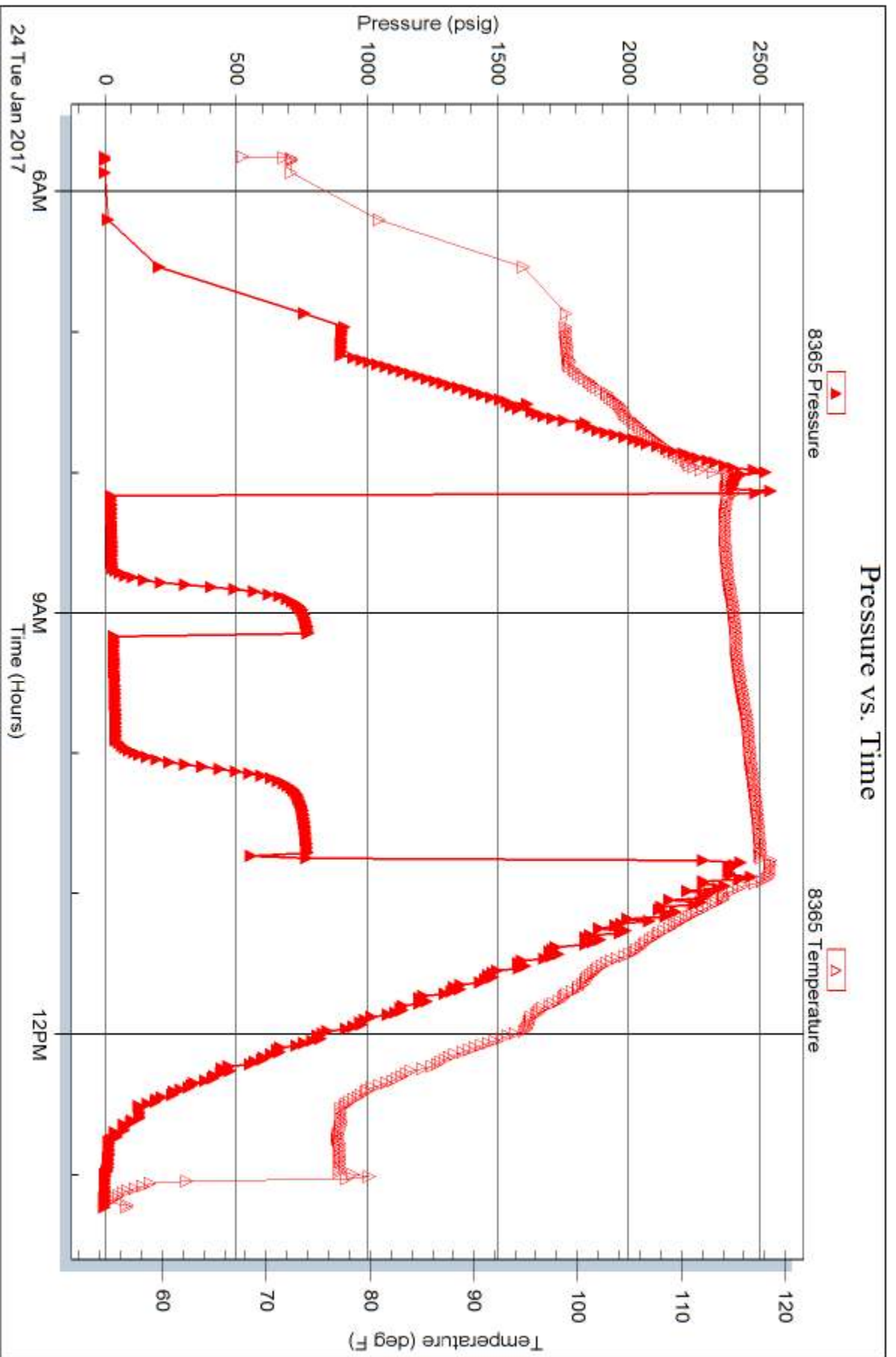
Serial #: 8365

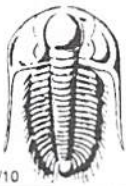
Inside

American Warrior, Inc

Lee A #6-28

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61306

Well Name & No. Lee A #6-28 Test No. 1 Date 1/18/2017
 Company American Warrior, Inc Elevation 3056 KB 5045 GL
 Address PO Box 399 Garden City, ks 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 28 Twp. 25S Rge. 36W Co. Kearny State Ks

Interval Tested 3675 - 3730 Zone Tested Toronto
 Anchor Length 55 20' Tail Drill Pipe Run 3430 Mud Wt. 8.9
 Top Packer Depth 3670 Drill Collars Run 237 Vis 46
 Bottom Packer Depth 3675 3730 str Wt. Pipe Run 0 WL 8.0
 Total Depth 3750 Chlorides 1200 ppm System LCM 1.5

Blow Description IF BOB @ 3 min.
ISI No return.
IF BOB @ 4 min.
ISI No return.

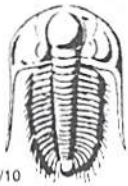
Rec	Feet of	%gas	%oil	%water	%mud
<u>1570</u>	<u>SNOW</u>		<u>98</u>	<u>2</u>	
	<u>OTL spots and puddle</u>				
	<u>on top</u>				

Rec Total 1570 BHT 102 Gravity — API RW 330 @ 38 °F Chlorides 41000 ppm

(A) Initial Hydrostatic <u>1766</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1515</u>
(B) First Initial Flow <u>103</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1601</u>
(C) First Final Flow <u>438</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1834</u>
(D) Initial Shut-In <u>977</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2134</u>
(E) Second Initial Flow <u>453</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0010</u>
(F) Second Final Flow <u>708</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT</u> <u>96.75</u>	Comments _____
(G) Final Shut-In <u>983</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1755</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>2321.75</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2321.75</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61307**

4/10

Well Name & No. <u>Lee A 6-28</u>	Test No. <u>2</u>	Date <u>1/19/2017</u>
Company <u>American Warrior, Inc</u>	Elevation <u>3056</u>	KB <u>3045</u> GL
Address <u>PO Box 399 Garden City, ks 67846</u>		
Co. Rep / Geo. <u>Lukas Thompson</u>	Rig <u>Dute S</u>	
Location: Sec. <u>29</u> Twp. <u>25s</u> Rge. <u>36w</u> Co. <u>Kearney</u> State <u>ks</u>		

Interval Tested <u>3927-3980</u>	Zone Tested <u>Lansing</u>	
Anchor Length <u>52</u>	Drill Pipe Run <u>3680</u>	Mud Wt. <u>9.6</u>
Top Packer Depth <u>3923</u>	Drill Collars Run <u>237</u>	Vis <u>53</u>
Bottom Packer Depth <u>3928</u>	Wt. Pipe Run <u>Ø</u>	WL <u>7.6</u>
Total Depth <u>3980</u>	Chlorides <u>1400</u> ppm System	LCM <u>2#</u>

Blow Description JF BOB @ 6 min
IST No return.
FF BOB @ 8 min.
FSI No return.

Rec	Feet of	oil spots in tool	%gas	%oil	%water	%mud
<u>1070</u>	<u>SMCW</u>			<u>97</u>	<u>3</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

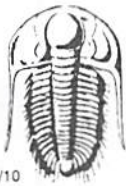
Rec Total 1070 BHT 110 Gravity — API RW 249 @ 44 °F Chlorides 49000 ppm

(A) Initial Hydrostatic <u>1895</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1700</u>
(B) First Initial Flow <u>49</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1730</u>
(C) First Final Flow <u>301</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2012</u>
(D) Initial Shut-In <u>1023</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2312</u>
(E) Second Initial Flow <u>306</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0141</u>
(F) Second Final Flow <u>490</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT</u> <u>96.75</u>	Comments
(G) Final Shut-In <u>1001</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1850</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1471.75</u>
	Sub Total <u>1471.75</u>	MP/DST Disc't

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61308

Well Name & No. Lee A 6-28 Test No. 3 Date 1/21/2017
 Company American Warrior, Inc Elevation 3056 KB 3045 GL
 Address PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Dote #5
 Location: Sec. 28 Twp. 25S Rge. 36W Co. Kearny State KS

Interval Tested 4259 - 4333 Zone Tested Marmaton
 Anchor Length 74' Drill Pipe Run 4000 Mud Wt. 9.2
 Top Packer Depth 4254 Drill Collars Run 237 Vis 58
 Bottom Packer Depth 4259 Wt. Pipe Run 0 WL 7.6
 Total Depth 4333 Chlorides 1400 ppm System LCM 2nd

Blow Description IF BOB @ 9 min.
ISI 5" return recoded to 1".
FF BOB @ 8 min, recoded to 3".
FSI 9" return, recoded to 3".

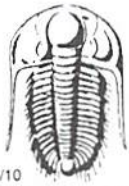
Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>GO</u>	<u>15</u>	<u>85</u>		
<u>120</u>	<u>GWOCM</u>	<u>20</u>	<u>30</u>	<u>20</u>	<u>30</u>
<u>300</u>	<u>somcw</u>		<u>3</u>	<u>92</u>	<u>5</u>
<u>330</u>	<u>Water</u>			<u>100</u>	
<u>560</u>	<u>GIP</u>				

Rec Total 880 BHT 113 Gravity 38 API RW .351 @ 42 °F Chlorides 37,000 ppm

(A) Initial Hydrostatic <u>2100</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0100</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0235</u>
(C) First Final Flow <u>234</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0442</u>
(D) Initial Shut-In <u>1149</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/1</u>	T-Pulled <u>0742</u>
(E) Second Initial Flow <u>248</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1049</u>
(F) Second Final Flow <u>402</u>	<input checked="" type="checkbox"/> Mileage <u>129 RT</u> <u>96.75</u>	Comments _____
(G) Final Shut-In <u>1141</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2048</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>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>1571.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1571.75</u>	

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61309

4/10

Well Name & No. Lee A 6-28 Test No. 4 Date 1/23/2016
 Company American Warrior, Inc Elevation 3050 KB 3045 GL
 Address PO Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 28 Twp. 25s Rge. 36w Co. Keavy State Ks

Interval Tested 4250-433 4810-4845 Zone Tested Morrow
 Anchor Length 35' Drill Pipe Run 4645 Mud Wt. 9.2
 Top Packer Depth 4805 Drill Collars Run 227 Vis 60
 Bottom Packer Depth 4810 Wt. Pipe Run 0 WL 6.4
 Total Depth 4845 Chlorides 800 ppm System LCM 2.5 #

Blow Description IF 3/4" blow
ISI No return
FF No blow
FBI Pulled test

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>nod</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 15 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2411 Test 1150 T-On Location 0615
 (B) First Initial Flow 18 Jars 250 T-Started 0642
 (C) First Final Flow 23 Safety Joint 75 T-Open 0810
 (D) Initial Shut-In 592 Circ Sub _____ T-Pulled 0925
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 1243
 (F) Second Final Flow 26 Mileage 12925 96.75 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2365 Straddle _____ Ruined Shale Packer _____

Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1571.75
 Total 1571.75
 MP/DST Disc't _____

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61310

Well Name & No. Lee A 6-28 Test No. 5 Date 1/24/2017
 Company American Warrior, Inc Elevation 3056 KB 3045 GL
 Address PO Box 399 Garden, Cnty, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke S
 Location: Sec. 28 Twp. 25s Rge. 36w Co. Keavay State KS

Interval Tested 4510-4845-4915-4950 Zone Tested St Louis
 Anchor Length 35' Drill Pipe Run 4660 Mud Wt. 9.2
 Top Packer Depth 4910 Drill Collars Run 237 Vis 68
 Bottom Packer Depth 4915 Wt. Pipe Run 0 WL 7.2
 Total Depth 4950 Chlorides 775 ppm System LCM 3#
 Blow Description IF 1 1/2" blow
ISI No return.
FF 1/2" blow recoded to surface
FSS No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>40</u>	<u>60CM</u>	<u>20</u>	<u>35</u>		<u>45</u>
	<u>100' GIP</u>				

Rec Total 80 BHT 118 Gravity 30 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2456</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0515</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0545</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0810</u>
(D) Initial Shut-In <u>773</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1040</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1314</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>129RT</u> <u>96.75</u>	Comments
(G) Final Shut-In <u>770</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2451</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>320</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1891.75</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1571.75</u>	

Approved By _____ Our Representative [Signature]

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Geological Report

American Warrior, Inc.

Lee A #6-28

381' FSL & 335' FWL

Sec 28, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Lee A #6-28
381' FSL & 335' FWL
Sec. 28, T25s, R36w
Kearny County, Kansas
API # 15-093-21952-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: January 12, 2017

Completion Date: January 26, 2017

Elevation 3045' G.L.
3056' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 7.2 miles South on Hwy 25 to RD. R – Now go South on Rd. R – East into

Casing: 1817' 8 5/8" #23 Surface Casing
5041' 5 1/2" #17 Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"
Stack Micro

Drillstem Tests: Five-Trilobite Testing "Bradley Walter"

Problems: none encountered

Formation Tops

Lee A #6-28

Sec. 28, T25s, R36w

381' FSL & 335' FWL

Heebner	3658' -602
Toronto	3671' -615
Lansing	3744' -688
Stark	4048' -992
Bkc	4224' -1168
Marmaton	4250' -1194
Pawnee	4348' -1292
Fort Scott	4376' -1320
Cherokee	4388' -1332
Morrow	4684' -1628
St. Gen	4838' -1782
RTD	5050' -1994
LTD	5050' -1994

Sample Zone Descriptions

Toronto (3718', -662): Covered in DST #1

Limestone, tan, sub crystalline, chalky, occasional fossil fragments, poor scattered pinpoint vuggy porosity, slight odor, poor stain and saturation, fair flush cut. Gas 13 units hotwire.

Lansing H (3950', -894): Covered in DST #2

Limestone, tan, sub crystalline, scattered oolitic packstone, chalky, scattered Dolomitic recrystallization, poor oolitic and inter-crystalline porosity, strong odor, fair stain and saturation, good stream cut. Gas 14 units hotwire.

Marmaton (4295', -1239): Covered in DST #3

Limestone, cream/tan, oolitic packstone, slightly chalky, scattered poor oolitic and pinpoint vuggy porosity, fair to poor odor, poor stain and saturation, slight show of free oil in porosity, poor slow stream cut. Gas 25 units hotwire.

Morrow (4814', -1758): Covered in DST #4

Sandstone, gray/green, very fine grain, sub round to sub angular, well sorted, fair cementation, medium hard, glauconitic, fair to good inter crystalline porosity, very strong odor, good show of free oil in porosity, fair stain, good saturation, slow string cut, fair amount of oil in cup with oil scum on water. Gas 100+ units hotwire.

St. Louis (4935', -1879): Covered in DST #5

Limestone, cream, oolitic packstone, chalky, poor oolitic porosity, slight odor, poor stain and saturation, slow stream cut. Gas 48 units hotwire.

Drill Stem Tests

Trilobite Testing
 “Bradley Walter”

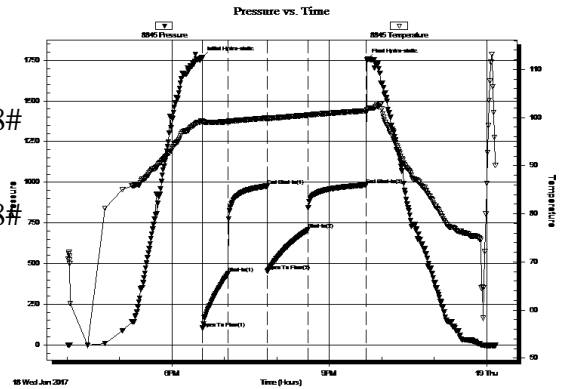
DST #1 Toronto

Interval (3675’ – 3730’) Anchor Length 55’

IHP - 1765 #
 IFP - 30” – BOB 3 min
 ISI - 45” – No Return
 FFP - 45” – BOB 4 min
 FSIP - 60” – No Return
 FHP - 1755 #
 BHT - 102° F

Recovery: 1570’ SMCW (oil spots)
 Puddle of oil in tool

103-438#
 977#
 453-708#
 983#



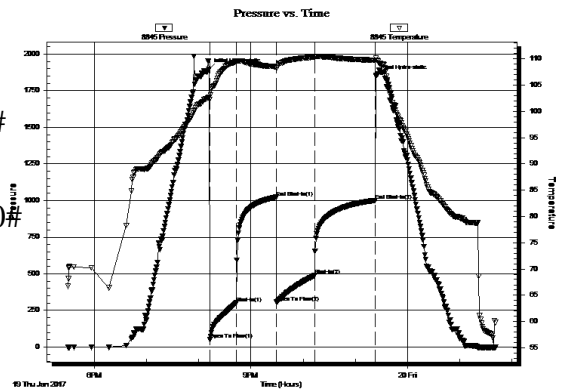
DST #2 Lansing H

Interval (3928’ – 3980’) Anchor Length 52’

IHP - 1895 #
 IFP - 30” – BOB 6 min
 ISI - 45” – No Return
 FFP - 45” – BOB 8 min
 FSIP - 60” – No Return
 FHP - 1850 #
 BHT - 110° F

Recovery: 1070’ SMCW (oil spots in tool)

49-301#
 1023#
 306-490#
 1001#



DST #3

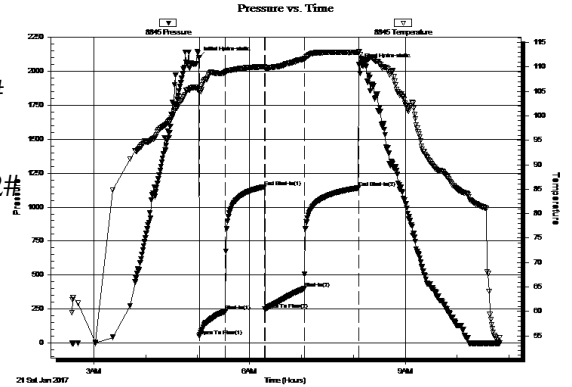
Marmaton

Interval (4259' – 4333') Anchor Length 74'

- IHP - 2100 #
- IFP - 30" – BOB 9 min
- ISI - 45" – 5" blow fell to 1"
- FFP - 45" – BOB 8 min
- FSIP - 60" – 9" blow fell to 3"
- FHP - 2048 #
- BHT - 113° F

Recovery: 560' GIP
 130' CGO
 120' GWOCM 30% O
 300' SOMCW 3% O
 330' W

51-234#
 1149#
 248-402#
 1141#



DST #4

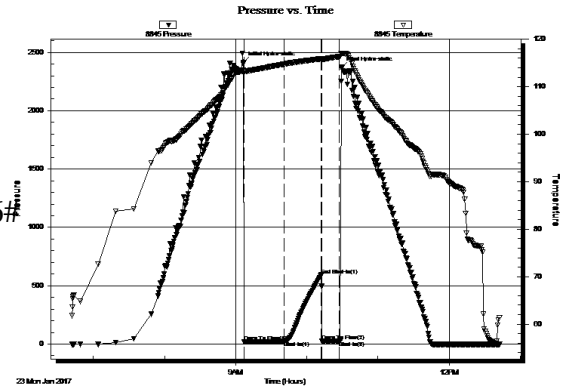
Morrow

Interval (4810' – 4845') Anchor Length 35'

- IHP - 2411 #
- IFP - 30" – 3/4" Blow
- ISI - 30" – No Return
- FFP - 10" – No Blow
- FSIP - Pulled Tool
- FHP - 2365 #
- BHT - 117° F

Recovery: 10' M (with oil spots)

18-23#
 592#
 115-116#



DST #5

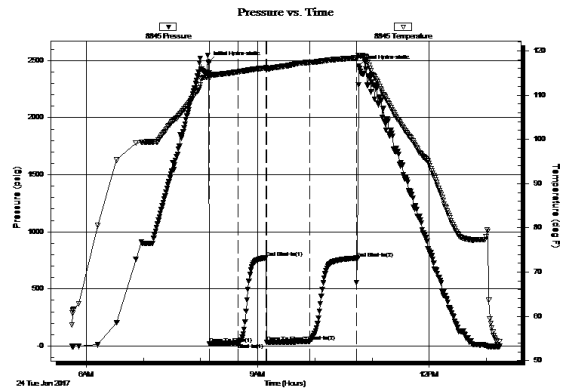
St. Louis

Interval (4915' – 4950') Anchor Length 35'

- IHP - 2486 #
- IFP - 30" – Built to 1 1/2"
- ISI - 30" – No Return
- FFP - 45" – 1/2" receded to Surface Blow
- FSIP - 45" – No Return
- FHP - 2451 #
- BHT - 119° F

Recovery: 100' GIP
 40' GO
 40' GOCM 35% O

20-27#
 773#
 23-24#



Structural Comparison

	American Warrior, Inc. Lee A #6-28 Sec. 28, T25s, R36w 381' FSL & 335' FWL		American Warrior, Inc. Lee A #5-28 Sec. 28, T25s, R36w 1311' FSL & 335' FWL		Merit Energy Corp Lee #1-28 Sec. 28, T25s, R36w 330' FSL & 2970' FEL
Formation					
Heebner	3658' -602	+4	3674' -606	+23	3694' -625
Lansing	3744' -688	0	3756' -688	+27	3776' -715
Stark	4048' -992	+4	4064' -996	+39	4100' -1031
BKC	4224' -1168	+4	4240' -1172	+35	4272' -1203
Marmaton	4250' -1194	+2	4264' -1196	+31	4294' -1225
Pawnee	4348' -1292	+6	4366' -1298	+37	4398' -1329
Fort Scott	4376' -1320	+8	4396' -1328	+39	4428' -1359
Cherokee	4388' -1332	+7	4407' -1339	+36	4437' -1368
Morrow	4684' -1628	-1	4695' -1627	+48	4745' -1676
Miss	4838' -1782	+13	4863' -1795	+145	4906' -1927

Summary

The location for the Lee A #6-28 well was found via 3-D seismic survey. The new well ran structurally as expected. Five drill stem tests were conducted, two of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Lee A #6-28 well.

Perforations

Primary: **St. Louis** **(4935' – 4945')**

Secondary: **Marmaton** **(4287' – 4292')**

Before Abandonment: Lansing H (3950' – 3962')

Morrow (4808' – 4816')

(Morrow, tight, shut in never broke over, lower pressure)

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.