

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](mailto: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)</i> <i>(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	LEWIS 1-26
Doc ID	1318985

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEWIS 1-26
Doc ID	1318985

Tops

Name	Top	Datum
Anhy	2054	+591
B/Anhy	2083	+562
Heebner	3691	-1046
Lansing	3732	-1087
B/KC	4069	-1424
Marmaton	4118	-1473
Ft.Scott	4239	-1594
Johnson	4305	-1660
Mississippian	4342'	-1697

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEWIS 1-26
Doc ID	1318985

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3969'to 3976		





CHARGE TO: <i>American Warrior Inc</i>
ADDRESS
CITY, STATE, ZIP CODE

TICKET 29446

PAGE	OF
1	1

SERVICE LOCATIONS 1. <i>Hays Ks</i>	WELL/PROJECT NO. <i>1-26</i>	LEASE <i>Lewis</i>	COUNTY/PARISH <i>Gove</i>	STATE <i>Ks</i>	CITY	DATE <i>8-29-16</i>	OWNER
2. <i>Ness City Ks</i>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Discovery Drilling</i>	RIG NAME/NO. <i>Rig # 2</i>	SHIPPED VIA	DELIVERED TO <i>location</i>	ORDER NO.	
3.	WELL TYPE <i>Dil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Shallow Surface</i>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUNT	
		LOC	ACCT	DF									
<i>575</i>		<i>1</i>			<i>MILEAGE TRK # 113</i>	<i>60</i>	<i>Mi</i>			<i>5</i>	<i>00</i>	<i>300</i>	<i>00</i>
<i>576-S</i>		<i>1</i>			<i>Pump Charge - Shallow Surface</i>	<i>1</i>	<i>EA</i>			<i>800</i>	<i>00</i>	<i>800</i>	<i>00</i>
<i>290</i>		<i>1</i>			<i>D-Air</i>	<i>2</i>	<i>Gal</i>			<i>42</i>	<i>00</i>	<i>84</i>	<i>00</i>
<i>325</i>		<i>2</i>			<i>STANDARD CEMENT</i>	<i>150</i>	<i>SKS</i>			<i>12</i>	<i>25</i>	<i>1837</i>	<i>50</i>
<i>279</i>		<i>2</i>			<i>Bentonite Gcc</i>	<i>04</i>	<i>SKS</i>			<i>25</i>	<i>00</i>	<i>100</i>	<i>00</i>
<i>278</i>		<i>2</i>			<i>Calcium Chloride</i>	<i>3</i>	<i>SKS</i>			<i>40</i>	<i>00</i>	<i>120</i>	<i>00</i>
<i>581</i>		<i>2</i>			<i>Service Charge Curt</i>	<i>150</i>	<i>SKS</i>			<i>1</i>	<i>50</i>	<i>225</i>	<i>00</i>
<i>583</i>		<i>2</i>			<i>Drayage - (60 miles)</i>	<i>444</i>	<i>TM</i>			<i>75</i>		<i>333</i>	<i>00</i>

**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**

DATE SIGNED	TIME SIGNED	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.
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**REMIT PAYMENT TO:**  
  
**SWIFT SERVICES, INC.**  
**P.O. BOX 466**  
**NESS CITY, KS 67560**  
**785-798-2300**

<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	<b>PAGE TOTAL</b>	<i>3799</i>	<i>50</i>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
WE UNDERSTOOD AND MET YOUR NEEDS?						
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				<b>TOTAL</b>	<i>3981</i>	<i>53</i>

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

SWIFT OPERATOR <i>David Edgerion</i>	APPROVAL <i>[Signature]</i>	<b>Thank You!</b>
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CHARGE TO  
*American Warrior Inc.*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 29406

PAGE 1 OF 2

SERVICE LOCATIONS  
1. *Hays, KS*  
2. *Ness City, KS*

WELL/PROJECT NO. *1-26* LEASE *Lewis* COUNTY/PARISH *GOVE* STATE *KS* CITY DATE *09/05/16* OWNER

TICKET TYPE  SERVICE  SALES CONTRACTOR *Discovery Drilling* RIG NAME/NO. *#2* SHIPPED VIA *Location* DELIVERED TO ORDER NO.

WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *Cement Long String* WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE <i>Truck #111</i>	60	MI	5.00		300.00
578		1			<i>Pump Charge - Long String</i>	1	EA	1250.00		1250.00
290		1			<i>D-Air</i>	5	gal	42.00		210.00
221		1			<i>Liquid KCL</i>	2	gal	25.00		50.00
281		1			<i>Mud Flush</i>	500	gal	1.25		625.00
402		1			<i>Centralizers</i>	7	EA 5 1/2	60.00		420.00
403		1			<i>Cement Baskets</i>	2	EA	250.00		500.00
407		1			<i>Insert Float Shoe w/Auto Fill</i>	1	EA	300.00		300.00
404		1			<i>Port Collar</i>	1	EA	2500.00		2500.00
406		1			<i>Latch Down Plug + Baffle</i>	1	EA	225.00		225.00
419		1			<i>Rotating Head Rental</i>	1	EA	200.00		200.00

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

X  
DATE SIGNED TIME SIGNED  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		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P1	6580.00
WE UNDERSTOOD AND MET YOUR NEEDS?				P2	4332.05
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<i>SH</i>	10912.05
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>GOVE CO.</i>	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TAX	738.37
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	11650.42



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

TICKET CONTINUATION

TICKET No. 29406

CUSTOMER American Warrior Inc WELL Lewis 1-26 DATE 09/05/16 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			
325		2				Standard Cmt	175	SKS			12.25	2143	75
284		2				Calseal	8	SKS			30.00	240	00
283		2				Salt 950	<del>947</del>	lbs			0.20	190	<del>189</del> 40
292		2				Halad-322	123	lbs			8.00	984	00
276		2				Flocele	44	lbs			2.25	99	00
581		2				SERVICE CHARGE Cement					1.50	262	50
583		2				MILEAGE CHARGE	TOTAL WEIGHT 19,387		LOADED MILES 60		0.75	412	80

CONTINUATION TOTAL 4331.45  
4332.05

JOB LOG

SWIFT Services, Inc.

DATE 07/05/16 PAGE NO.

CUSTOMER American Warrior Inc WELL NO. 1-26 LEASE Lewis JOB TYPE Cement Long String TICKET NO. 29406

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2230							On location w/ Float Equip
								17# 5 1/2 Casing RTD 4400'
								Total Pipe 4380'
								Baffle @ 4363'
								P.C. - 2054' on #54
								Centralizers - 1, 3, 5, 7, 9, 11, 55
								Baskets - 2, 53
	0020							Started Running Csg/Float Eq.
	0250							Break Circ on Bottom
	0330		7					Plug Bot Hole 30 SKS
			3					Plug Mouse Hole 15 SKS
	0340		12				400	Pump Mud Flush
	0342		20				300	Pump KCL Spacer
	0345	5	30				200	Pump Cmt - 130 SKS EA2 @ 15.5 ppg
	0400							Finish Cmt, Drop Plug
	0403							Wash Pet-L
	0405	6.5	φ				0	Start Displacement
	0410	6.5	80				300	Catch Cement
	0415	6	101				800 800 1500	Land Plug Lift 800 PSI Land 1500 PSI
	0430							Wash up truck Rack up truck
	0445							Job Complete

Thanks  
Jon, David, Preston



CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 29707

PAGE 1 OF 1

SERVICE LOCATIONS 1. Ness City KS WELL/PROJECT NO. 1-26 LEASE Lewis COUNTY/PARISH Gove STATE KS CITY Healy DATE 20 Sep 06 OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR CO TOOLS RIG NAME/NO. SHIPPED VIA ET DELIVERED TO Location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement port collar WELL PERMIT NO. WELL LOCATION 26-15-30  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 04	50		mi		5.00	250.00
576D		1			Pump Charge	1		ea		1250.00	1250.00
330		1			SWD cements	150		sk		15.75	2362.50
276		1			Floacle	50		lb		2.25	112.50
290		1			D-AIR	2		gal		42.00	84.00
104		1			Port collar opening tool rental	5 1/2	1	in	ea	200.00	200.00
581		1			Service charge	225		sk		1.50	337.50
		1			Drayage	22390		lb	559.7	TM	419.18

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

X Jose R  
 DATE SIGNED TIME SIGNED  A.M.  P.M.  
12:15

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?				5016 31
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Gove Co. TAX 8.510 234 52
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 5257 83
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

**JOB LOG**

**SWIFT Services, Inc.**

DATE 20 SEP 16 PAGE NO.

CUSTOMER Am Warrior WELL NO. 1-26 LEASE Lewis JOB TYPE cement port collar TICKET NO. 29707

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk 5MD cement w/ 1/4" Floccula 2 3/8 x 5 1/2 port collar @ 2054' 2103'
	0820							on loc TR114
	1037					1000	1000	test to 1000psi - held open port collar
		3 1/2	3				300	inj rate 3 1/2 bpm @ 300 psi
	1044	3 1/2					300	mix 5MD cement @ 11.2 gpg
		3 1/2	12				300	- circ fluid to surface -
		3	81				400	→ cement to surface ← (150 sk mixed 20 to port)
		3	7				400	Displace 7 bbl H <sub>2</sub> O close port collar
	1112					1000	1000	test to 1000psi - held
	1120							RUN 5 joints
	1129		20					Reverse hole clean - 2 cement flags
	1136							wash truck pull tool
								Rack up
	1215							Job complete Thanks Blair, Phil, & [unclear]



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

P.O. Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Lewis #1-26**

### **26-15s-30w Gove, KS**

Start Date: 2016.09.02 @ 20:16:15

End Date: 2016.09.03 @ 03:02:30

Job Ticket #: 65605                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.06 @ 09:37:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc  
P.O. Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

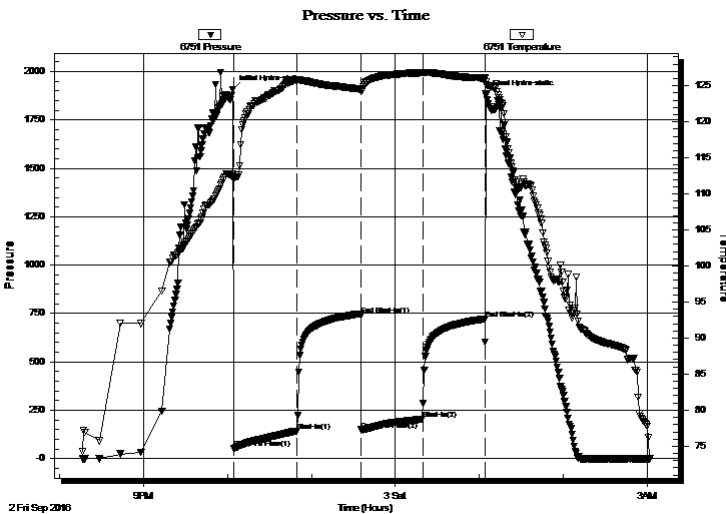
**26-15s-30w Gove, KS**  
**Lewis #1-26**  
Job Ticket: 65605 **DST#: 1**  
Test Start: 2016.09.02 @ 20:16:15

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:04:15  
Time Test Ended: 03:02:30  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Mike Roberts  
Unit No: 81  
Interval: **3903.00 ft (KB) To 3990.00 ft (KB) (TVD)**  
Reference Elevations: 2645.00 ft (KB)  
Total Depth: 3903.00 ft (KB) (TVD) 2637.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6751 Outside**  
Press@RunDepth: 203.29 psig @ 3905.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.09.02 End Date: 2016.09.03 Last Calib.: 2016.09.03  
Start Time: 20:16:15 End Time: 03:02:30 Time On Btm: 2016.09.02 @ 22:03:45  
Time Off Btm: 2016.09.03 @ 01:04:45

TEST COMMENT: IF: Built to 4" blow  
IS: No return blow  
FF: Built to 6" blow  
FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.47	112.78	Initial Hydro-static
1	51.88	112.10	Open To Flow (1)
46	142.13	125.76	Shut-In(1)
92	739.79	124.52	End Shut-In(1)
92	148.24	124.27	Open To Flow (2)
136	203.29	126.80	Shut-In(2)
181	721.68	126.05	End Shut-In(2)
181	1883.45	125.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mud 100% m	3.48
124.00	w cm \$0%w 60% m with oil spots in tool	1.74

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65605

**DST#: 1**

ATTN: Jason Alm

Test Start: 2016.09.02 @ 20:16:15

## Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 54.85 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3903.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	107.00 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			3884.00	
Shut In Tool	5.00			3889.00	
Hydraulic tool	5.00			3894.00	
Packer	5.00			3899.00	20.00 Bottom Of Top Packer
Packer	4.00			3903.00	
Stubb	1.00			3904.00	
Perforations	1.00			3905.00	
Recorder	0.00	8672	Inside	3905.00	
Recorder	0.00	6751	Outside	3905.00	
Change Over Sub	1.00			3906.00	
Drill Pipe	63.00			3969.00	
Change Over Sub	1.00			3970.00	
Perforations	15.00			3985.00	
Bullnose	5.00			3990.00	87.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior, Inc

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65605

**DST#: 1**

ATTN: Jason Alm

Test Start: 2016.09.02 @ 20:16:15

### 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:

17000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	mud 100%m	3.479
124.00	w cm \$0%w 60% m w ith oil spots in tool	1.739

Total Length: 372.00 ft      Total Volume: 5.218 bbl

Num Fluid Samples: 0

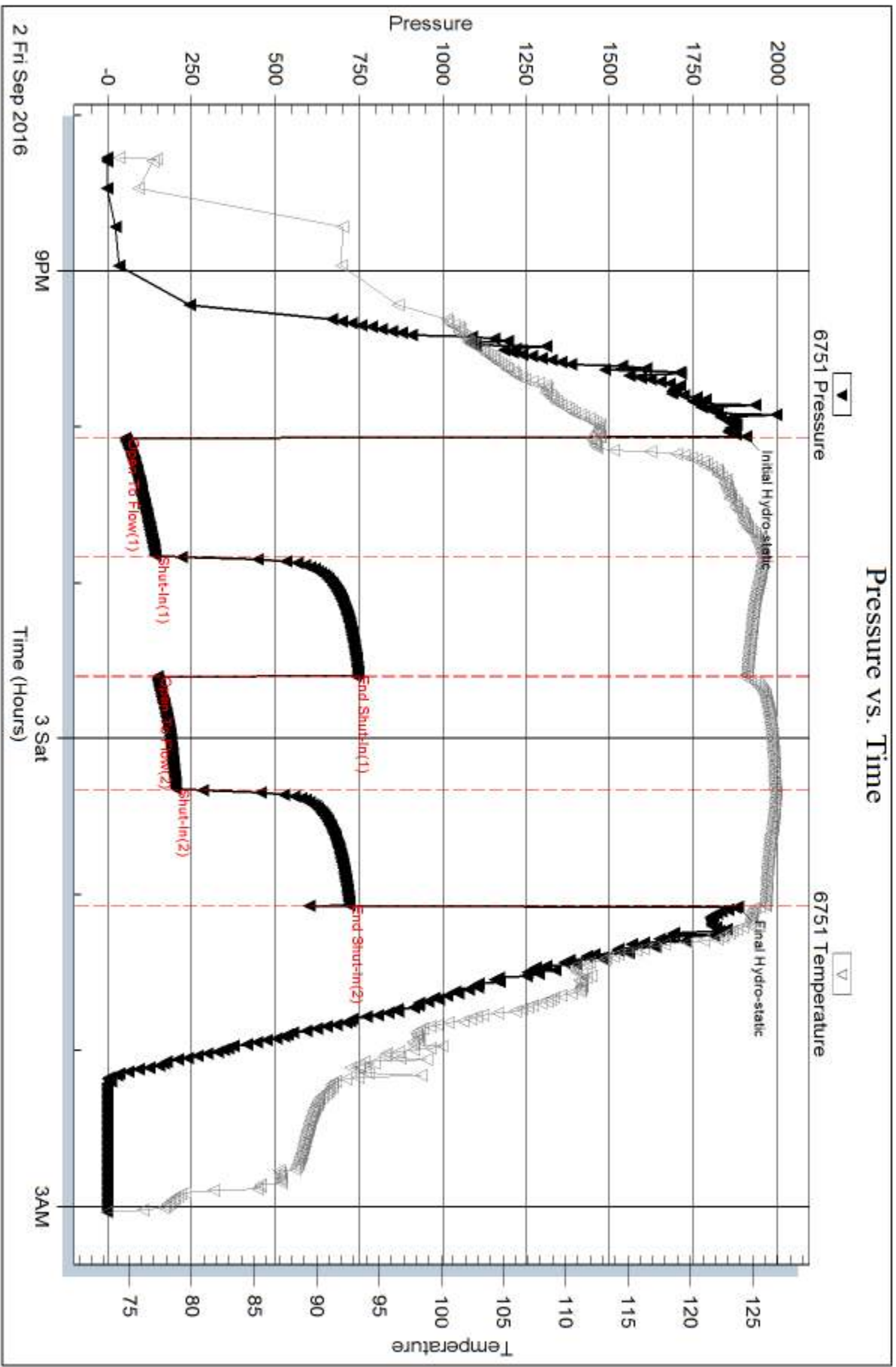
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .562 @ 56.3\*= 17,000 ppm



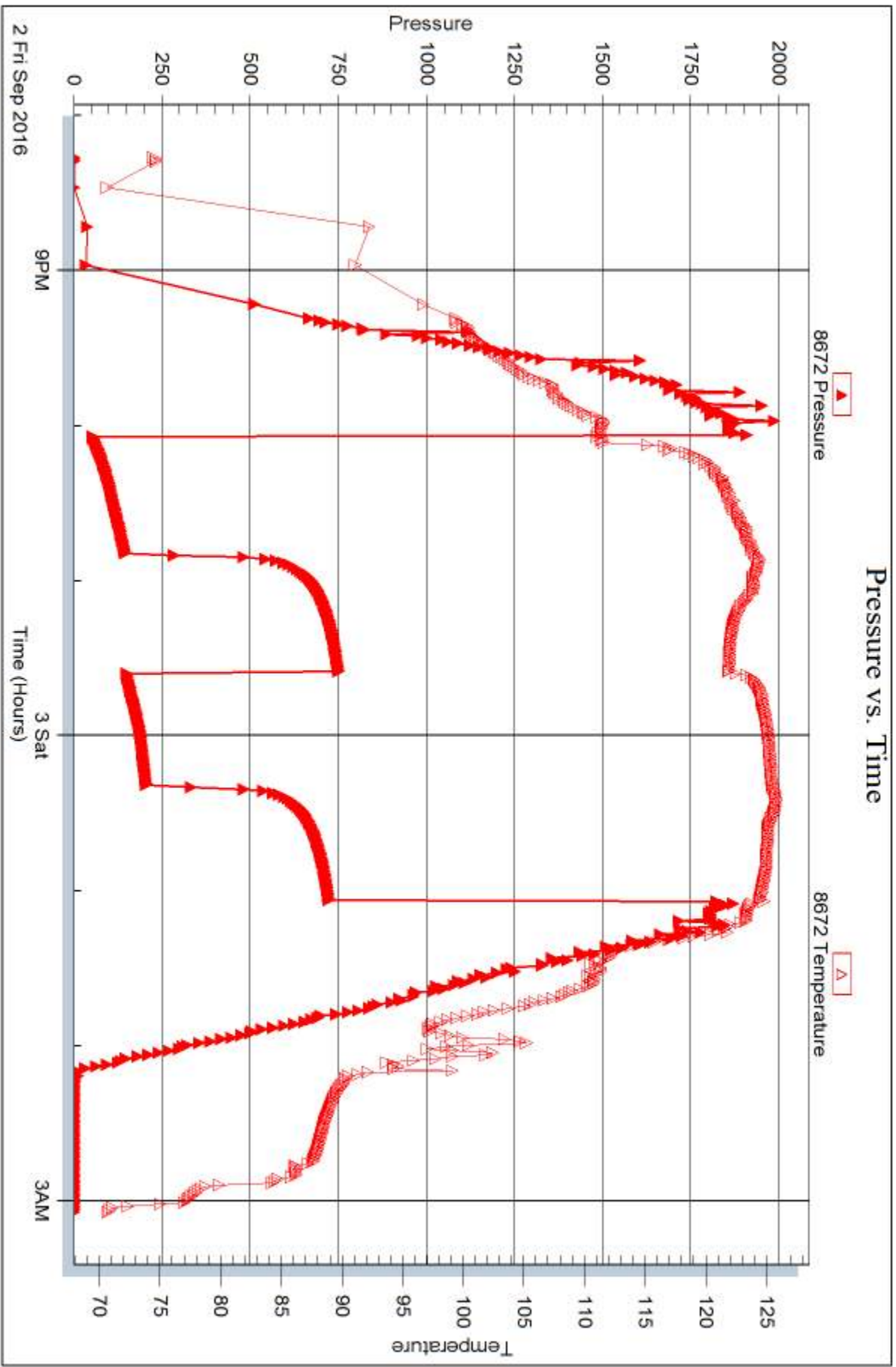
Serial #: 8672

Inside

American Warrior, Inc

Lew is #1-26

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65605

Printed: 2016.09.06 @ 09:37:32



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

P.O. Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Lewis #1-26**

### **26-15s-30w Gove, KS**

Start Date: 2016.09.03 @ 12:23:15

End Date: 2016.09.03 @ 18:49:00

Job Ticket #: 65606                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.06 @ 09:36:07



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc  
 P.O. Box 399  
 Garden City, KS 67846  
 ATTN: Jason Alm

**26-15s-30w Gove, KS**  
**Lewis #1-26**  
 Job Ticket: 65606 **DST#: 2**  
 Test Start: 2016.09.03 @ 12:23:15

## GENERAL INFORMATION:

Formation: **LKC "L"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 14:03:15  
 Tester: Mike Roberts  
 Time Test Ended: 18:49:00  
 Unit No: 81  
**Interval: 4021.00 ft (KB) To 4041.00 ft (KB) (TVD)**  
 Reference Elevations: 2645.00 ft (KB)  
 Total Depth: 4041.00 ft (KB) (TVD) 2637.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

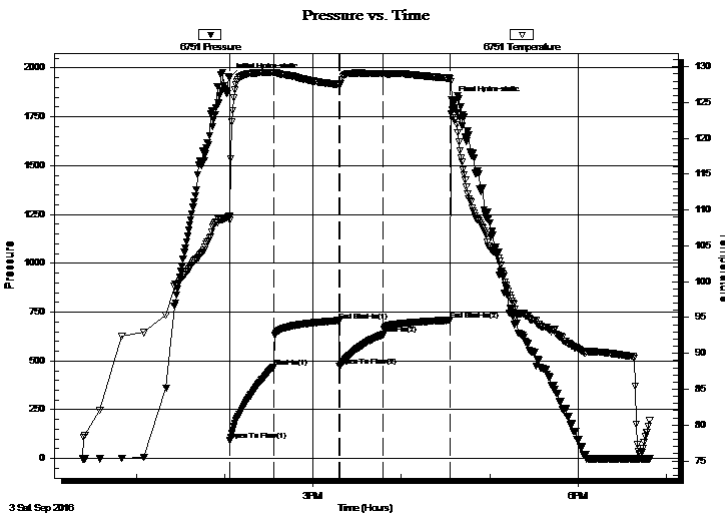
## Serial #: 6751

**Outside**

Press@RunDepth: 635.33 psig @ 4036.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.09.03 End Date: 2016.09.03 Last Calib.: 2016.09.03  
 Start Time: 12:23:15 End Time: 18:49:00 Time On Btm: 2016.09.03 @ 14:03:00  
 Time Off Btm: 2016.09.03 @ 16:34:15

**TEST COMMENT:** IF:BOB in 3 min.  
 IS:Return blow built to 5 1/2"  
 FF:BOB in 4 min.  
 FS:Return blow built to 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.58	109.12	Initial Hydro-static
1	91.39	108.56	Open To Flow (1)
30	469.04	129.15	Shut-In(1)
75	705.69	127.49	End Shut-In(1)
75	474.28	127.38	Open To Flow (2)
105	635.33	129.03	Shut-In(2)
150	708.57	128.39	End Shut-In(2)
152	1835.39	125.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP = 248 ft	0.00
15.00	gcw mo 5%g 5%w 10%m 80%o	0.21
248.00	ocw gm 10%o 20%w 30%g 40%m	3.48
1178.00	gcow 5%g 10%o 85%w	16.52

\* 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

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65606

**DST#: 2**

ATTN: Jason Alm

Test Start: 2016.09.03 @ 12:23:15

## Tool Information

Drill Pipe:	Length: 4035.00 ft	Diameter: 3.80 inches	Volume: 56.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4021.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4002.00	
Shut In Tool	5.00			4007.00	
Hydraulic tool	5.00			4012.00	
Packer	5.00			4017.00	20.00 Bottom Of Top Packer
Packer	4.00			4021.00	
Stubb	1.00			4022.00	
Perforations	14.00			4036.00	
Recorder	0.00	8672	Inside	4036.00	
Recorder	0.00	6751	Outside	4036.00	
Bullnose	5.00			4041.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65606

**DST#: 2**

ATTN: Jason Alm

Test Start: 2016.09.03 @ 12:23:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	GIP = 248 ft	0.000
15.00	gcw mo 5%g 5%w 10%m 80%o	0.210
248.00	ocw gm 10%o 20%w 30%g 40%m	3.479
1178.00	gcow 5%g 10%o 85%w	16.524

Total Length: 1441.00 ft      Total Volume: 20.213 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

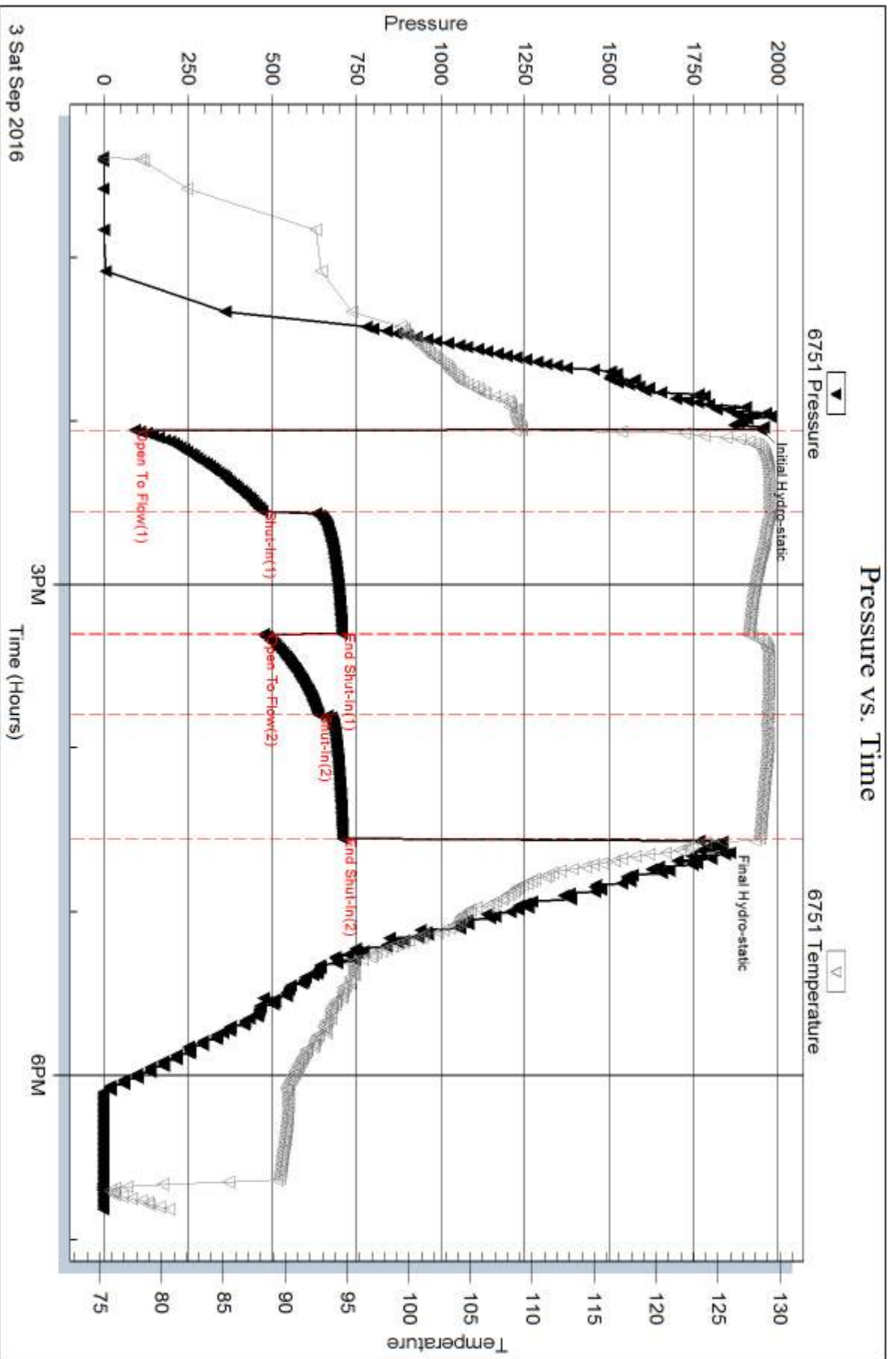
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 26 @ 60

RW= .263@ 88.4 = 30,000 ppm







## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

P.O. Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Lewis #1-26**

### **26-15s-30w Gove, KS**

Start Date: 2016.09.04 @ 18:42:15

End Date: 2016.09.05 @ 00:12:15

Job Ticket #: 65607                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.06 @ 09:35:37



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc  
 P.O. Box 399  
 Garden City, KS 67846  
 ATTN: Jason Alm

**26-15s-30w Gove, KS**  
**Lewis #1-26**  
 Job Ticket: 65607 **DST#: 3**  
 Test Start: 2016.09.04 @ 18:42:15

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:17:30  
 Time Test Ended: 00:12:15  
 Interval: **4262.00 ft (KB) To 4320.00 ft (KB) (TVD)**  
 Total Depth: 4320.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2645.00 ft (KB)  
 2637.00 ft (CF)  
 KB to GR/CF: 8.00 ft

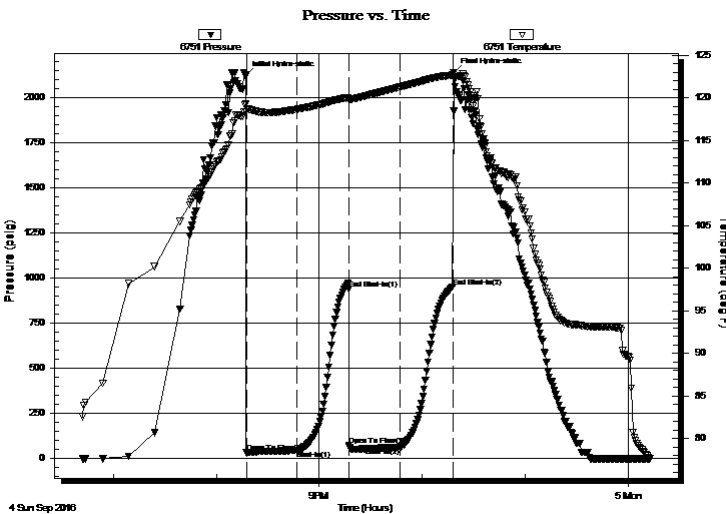
## Serial #: 6751

**Outside**

Press@RunDepth: 61.56 psig @ 4267.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.09.04 End Date: 2016.09.05 Last Calib.: 2016.09.05  
 Start Time: 18:42:15 End Time: 00:12:15 Time On Btm: 2016.09.04 @ 20:17:15  
 Time Off Btm: 2016.09.04 @ 22:18:30

TEST COMMENT: IF: Built to 3" blow  
 IS: No return blow  
 FF: Built to 5" blow  
 FS: No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.70	119.33	Initial Hydro-static
1	32.37	118.38	Open To Flow (1)
30	45.12	118.67	Shut-In(1)
60	940.32	120.05	End Shut-In(1)
60	73.36	119.79	Open To Flow (2)
90	61.56	121.29	Shut-In(2)
121	951.98	122.68	End Shut-In(2)
122	2140.73	122.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	gco 5%g 95%o	0.21
62.00	gmco 5%g 20%m 75%o	0.87

\* 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

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65607

**DST#: 3**

ATTN: Jason Alm

Test Start: 2016.09.04 @ 18:42:15

## Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4262.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 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			4243.00	
Shut In Tool	5.00			4248.00	
Hydraulic tool	5.00			4253.00	
Packer	5.00			4258.00	20.00 Bottom Of Top Packer
Packer	4.00			4262.00	
Stubb	1.00			4263.00	
Perforations	4.00			4267.00	
Recorder	0.00	8672	Inside	4267.00	
Recorder	0.00	6751	Outside	4267.00	
Change Over Sub	1.00			4268.00	
Drill Pipe	32.00			4300.00	
Change Over Sub	1.00			4301.00	
Perforations	14.00			4315.00	
Bullnose	5.00			4320.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc

**26-15s-30w Gove, KS**

P.O. Box 399  
Garden City, KS 67846

**Lewis #1-26**

Job Ticket: 65607

**DST#: 3**

ATTN: Jason Alm

Test Start: 2016.09.04 @ 18:42:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	gco 5%g 95%o	0.210
62.00	gmco 5%g 20%m 75%o	0.870

Total Length: 77.00 ft      Total Volume: 1.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

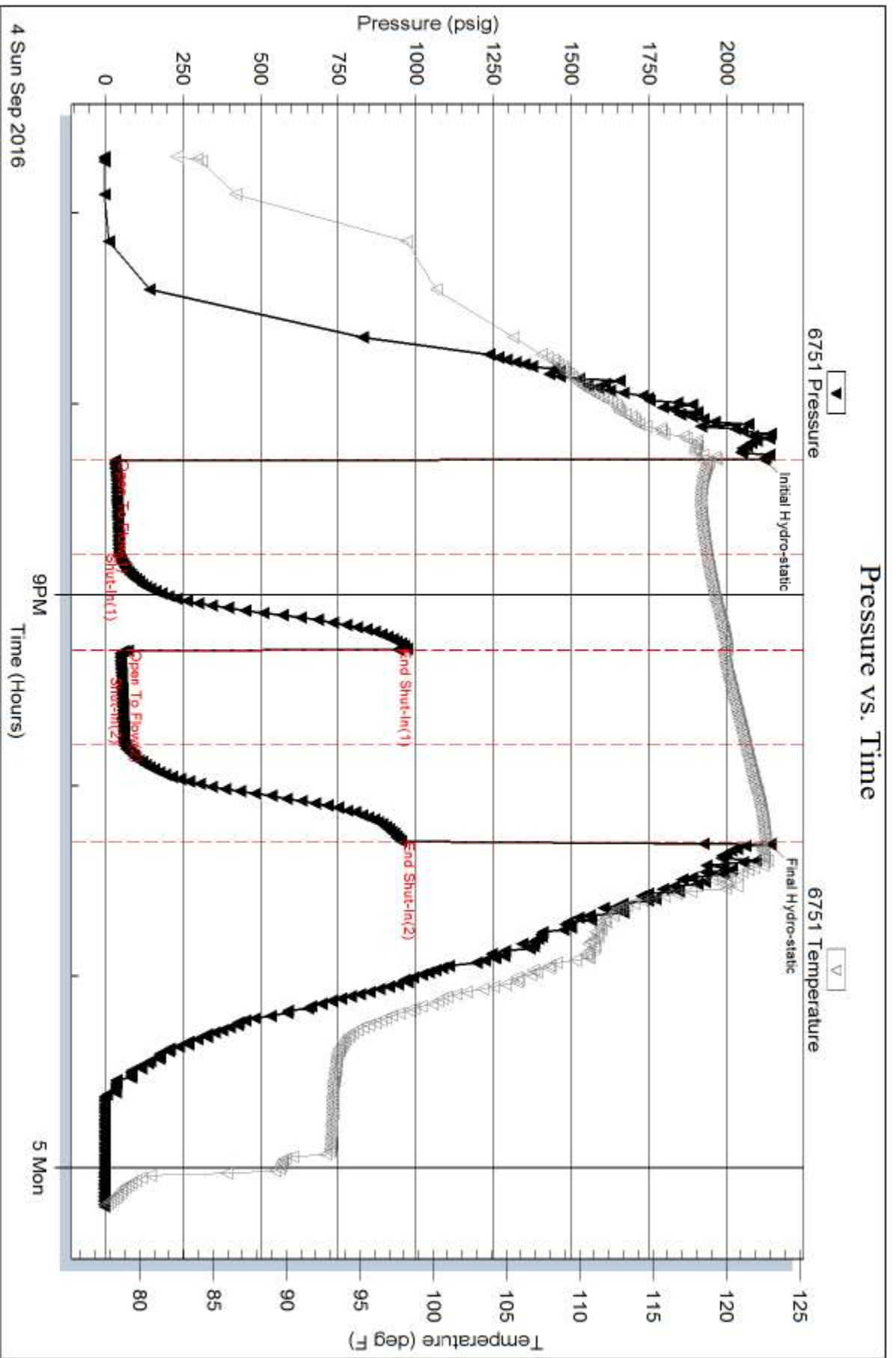
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 29@80 corrected to 27 @ 60





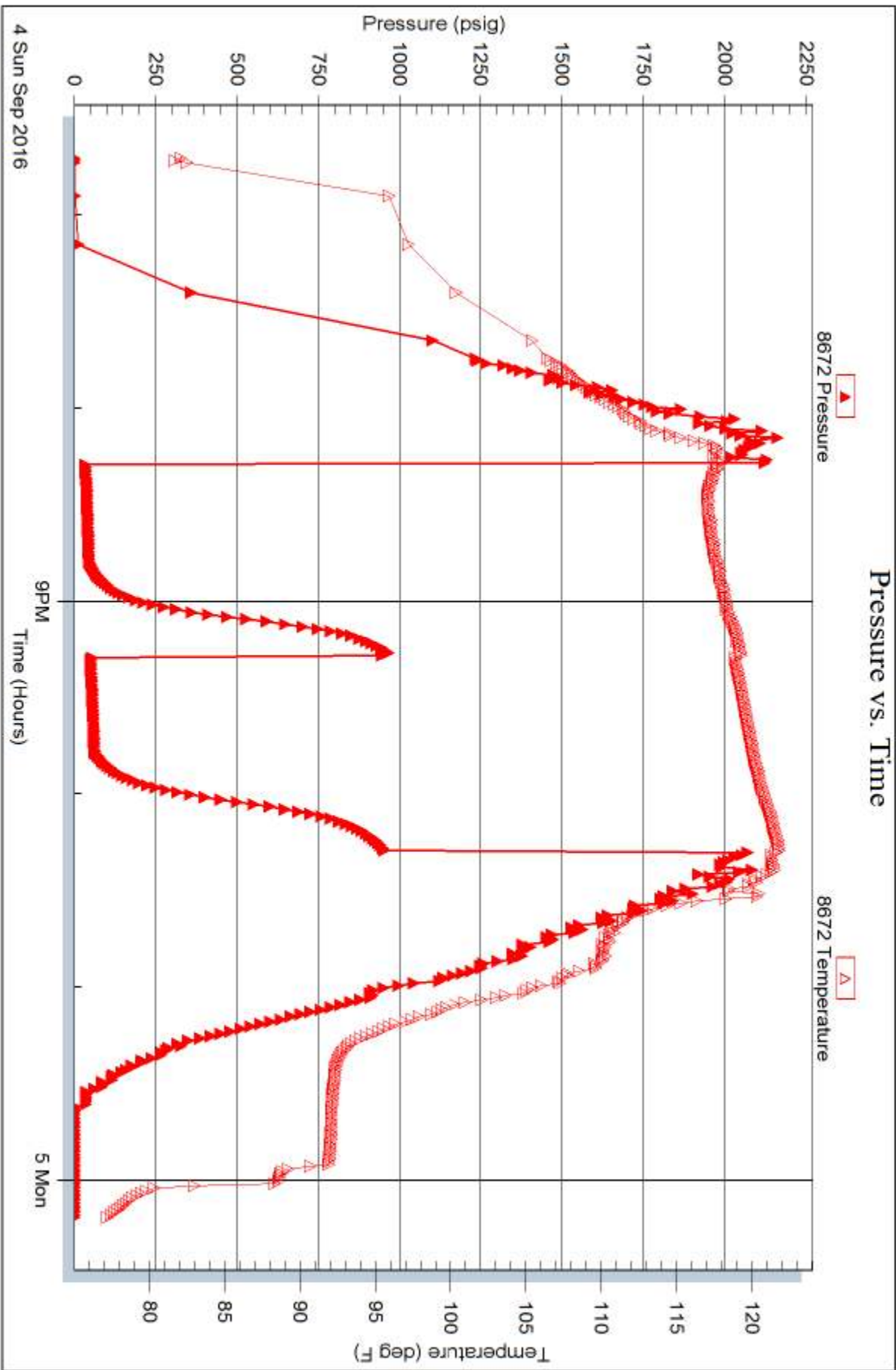
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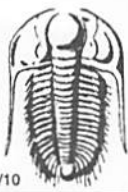
Inside

American Warrior, Inc

Lewis #1-26

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65605**

Well Name & No. Lewis #1-26 Test No. 1 Date 9-2-16  
 Company American Warrior, Inc Elevation 2645 KB 2637 GL  
 Address P.O. Box 399 Garden City KS 678463910  
 Co. Rep / Geo. Jason Alm Rig Disco 2  
 Location: Sec. 26 Twp. 15S Rge. 30W Co. Grove State KS

Interval Tested 3903-3990 Zone Tested H-J  
 Anchor Length 87 Drill Pipe Run 3910 Mud Wt. 8.9  
 Top Packer Depth 3898 Drill Collars Run Ø Vis 60  
 Bottom Packer Depth 3903 Wt. Pipe Run Ø WL 6.4  
 Total Depth 3990 Chlorides 2300 ppm System LCM 3

Blow Description IF: Built to 4" Blow  
IS: No Return Blow  
FF: Built to 6" Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>Feet of MUD</u>				
<u>124</u>	<u>Feet of WCM oil spots in tool</u>		<u>40</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 372 BHT 126 Gravity — API RW 562 @ 52.3° F Chlorides 17000 ppm

(A) Initial Hydrostatic 1906  Test \$1050.00 T-On Location 17:50  
 (B) First Initial Flow 51  Jars — T-Started 20:16  
 (C) First Final Flow 142  Safety Joint — T-Open 22:05  
 (D) Initial Shut-In 739  Circ Sub NC T-Pulled 01:05  
 (E) Second Initial Flow 148  Hourly Standby — T-Out 03:02  
 (F) Second Final Flow 203  Mileage BORT = \$60.00 Comments —  
 (G) Final Shut-In 721  Sampler —  
 (H) Final Hydrostatic 1883  Straddle —

Ruined Shale Packer —  
 Ruined Packer —  
 Extra Copies —  
 Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 0  
 Total 1110  
 MP/DST Disc't —  
 Sub Total \$1110.00/-

Approved By — Our Representative Mike Roberts

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. **65606**

Well Name & No. Lewis #1-26 Test No. 2 Date 9-3-16  
 Company American Warrior Inc Elevation 2645 KB 2637 GL  
 Address P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Jasan Alm Rig Disco 2  
 Location: Sec. 26 Twp. 15S Rge. 30W Co. Grove State KS

Interval Tested 4021-4041 Zone Tested "L"  
 Anchor Length 20 Drill Pipe Run 4035 Mud Wt. 9.0  
 Top Packer Depth 4016 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 4021 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4041 Chlorides 3600 ppm System LCM 2

Blow Description IF: BOB in 3 Min  
IS: Return Blow Built to 5 1/2"  
FF: BOB in 4 Min  
FS: Return Blow Built to 1/2"

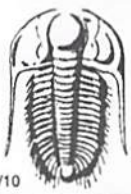
Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>Feet of GIP = 248 ft</u>	<u>100</u>			
<u>15</u>	<u>Feet of gcwmo</u>	<u>5</u>	<u>80</u>	<u>5</u>	<u>10</u>
<u>248</u>	<u>Feet of ocwgm</u>	<u>30</u>	<u>10</u>	<u>20</u>	<u>40</u>
<u>1178</u>	<u>Feet of gcow</u>	<u>5</u>	<u>10</u>	<u>85</u>	

Rec Total 1441 BHT 126 Gravity API RW, 263 @ 88.4° F Chlorides 30,000 ppm  
 (A) Initial Hydrostatic 1949  Test \$1150.00/- T-On Location 11:30  
 (B) First Initial Flow 91  Jars T-Started 12:23  
 (C) First Final Flow 469  Safety Joint T-Open 14:03  
 (D) Initial Shut-In 705  Circ Sub NC T-Pulled 16:33  
 (E) Second Initial Flow 474  Hourly Standby T-Out 18:49  
 (F) Second Final Flow 635  Mileage BORT = \$60.00/- Comments \_\_\_\_\_  
 (G) Final Shut-In 705  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1835  Straddle \_\_\_\_\_

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1210.00  
 MP/DST Disc't \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45  
 Sub Total \$1210.00/-

Approved By \_\_\_\_\_ Our Representative Mike Roberts

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. **65607**

Well Name & No. Lewis #1-26 Test No. 3 Date 9-4-16  
 Company American Warrior Inc Elevation 2645 KB 2637 GL  
 Address P.O. Box 299 Garden City KS 67846  
 Co. Rep / Geo. Jasan Alm Rig Disco 2  
 Location: Sec. 26 Twp. 15S Rge. 30W Co. Grove State KS

Interval Tested 4262-4320 Zone Tested Johnson  
 Anchor Length 58 Drill Pipe Run 4254 Mud Wt. 9.0  
 Top Packer Depth 4257 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 4262 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4320 Chlorides 1400 ppm System LCM 2  
 Blow Description IF: Built to 3" Blow  
IS: No Return Blow  
FF: Built to 5" Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Free Oil</u>	<u>100</u>			
<u>62</u>	<u>gcmo</u>	<u>5</u>	<u>75</u>	<u>20</u>	

Rec Total 77 BHT 123 Gravity 27 API RW @ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2120  Test \$1150.00/- T-On Location 18:10  
 (B) First Initial Flow 32  Jars \_\_\_\_\_ T-Started 18:42  
 (C) First Final Flow 45  Safety Joint \_\_\_\_\_ T-Open 20:17  
 (D) Initial Shut-In 940  Circ Sub NC T-Pulled 22:17  
 (E) Second Initial Flow 73  Hourly Standby \_\_\_\_\_ T-Out 00:12  
 (F) Second Final Flow 61  Mileage 80RT = \$60.00/- Comments \_\_\_\_\_  
 (G) Final Shut-In 957  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2140  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
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 Sub Total \$1210.00/-

Approved By \_\_\_\_\_ Our Representative Mike Roberts

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# **Geological Report**

**Lewis #1-26**  
1379' FSL & 1626' FWL  
Sec. 26 T15s R30w  
Gove County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Lewis #1-26  
1379' FSL & 1626' FWL  
Sec. 26 T15s R30w  
Gove County, Kansas  
API # 15-063-22294-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #2

Geologist: Jason T Alm

Spud Date: August 29, 2016

Completion Date: September 5, 2016

Elevation: 2637' Ground Level  
2645' Kelly Bushing

Directions: Healy KS, at the intersection of Dodge Rd and Hwy  
4, North 8 miles to Gove Co C Rd, West 1 mi,  
South and East into location.

Casing: 233' 8 5/8" surface casing  
4399' 5 1/2" production casing

Samples: 10' wet and dry, 3600'' to RTD

Drilling Time: 3300' to RTD

Electric Logs: Pioneer Energy Services "Tim Martin"  
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: Three, Trilobite Testing, Inc. "Mike Roberts"

Problems: None

Remarks: There was H2S gas present in the recovery for DST  
#2. Be Careful when completing that zone.

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Lewis #1-26</b> <b>Sec. 26 T15s R30w</b> <b>1379' FSL &amp; 1626' FWL</b>
<b>Formation</b>	
Anhydrite	<b>2054', +591</b>
Base	<b>2083', +562</b>
Heebner	<b>3691', -1046</b>
Toronto	<b>3712', -1067</b>
Lansing	<b>3732', -1087</b>
BKC	<b>4069', -1424</b>
Marmaton	<b>4118', -1473</b>
Pawnee	<b>4184', -1539</b>
Fort Scott	<b>4239', -1594</b>
Cherokee	<b>4263', -1618</b>
Johnson	<b>4305', -1660</b>
Mississippian	<b>4342', -1697</b>
LTD	<b>4400', -1755</b>
RTD	<b>4400', -1755</b>

## Sample Zone Descriptions

- LKC H**                      **(3910', -1265):            Covered in DST #1**  
 Ls – Fine to sub-crystalline, oolitic with poor oolitic porosity, light to fair oil stain in porosity, slight show of free oil when broken, very light odor, dull to fair yellow fluorescents, fair cut, 20 units hotwire.
- LKC I**                      **(3942', -1297):            Covered in DST #1**  
 Ls – Fine crystalline, fossiliferous, oolitic with poor oolitic and inter-fossil porosity, light to fair oil stain, slight show of free oil when broken, very light odor, fair yellow fluorescents, good cut, 61 units hotwire.
- LKC J**                      **(3966', -1321):            Covered in DST #1**  
 Ls – Fine crystalline, oolitic packstone with fair to good oomoldic porosity, light to fair oil stain with light scattered saturation, fair show of free oil when broken, fair odor, light to fair yellow fluorescents, fair cut, 94 units hotwire.



**LKC L**

**(4029', -1384): Covered in DST #2**

Ls – Fine to coarse crystalline with fair to good inter-crystalline porosity, light to fair oil stain and saturation in porosity, fair show of free oil, strong “sour” odor, scattered fair yellow fluorescents, good spotted cut, 121 units hotwire.

**Johnson**

**(4305', -1660): Covered in DST #3**

Ls – Fine to sub-crystalline with poor to fair inter-crystalline and pinpoint vuggy porosity, light to good oil stain with light to good scattered saturation, slight show of free oil when broken, no odor, light spotted yellow fluorescents, good cut.

**Drill Stem Tests**

Trilobite Testing, Inc.

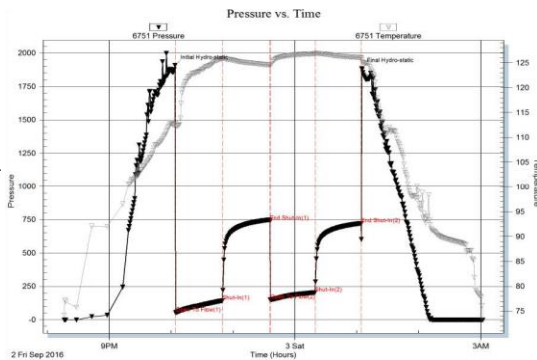
“Mike Roberts”

**DST #1 LKC H - J**

Interval (3903' – 3990') Anchor Length 87'

- IHP – 1906 #
- IFP – 45” – Built to 4 in. 51-142 #
- ISI – 45” – Dead 740 #
- FFP – 45” – Built to 6 in. 148-203 #
- FSI – 45” – Dead 722 #
- FHP – 1883 #
- BHT – 126°F

Recovery: 248' Mud  
124' WCM w/ oil spots 40% Water

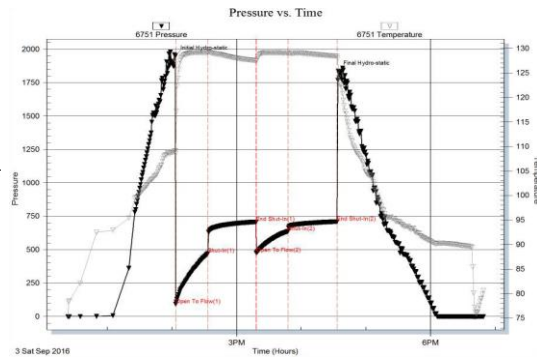


**DST #2 LKC L**

Interval (4021' – 4041') Anchor Length 20'

- IHP – 1949 #
- IFP – 30” – B.O.B. 3 min. 91-469 #
- ISI – 45” – Built to 5 1/2 in. 706 #
- FFP – 30” – B.O.B. 4 min. 474-635 #
- FSI – 45” – Dead 709 #
- FHP – 1835 #
- BHT – 129°F

Recovery: 248' GIP  
15' GWMCO 85% Oil, 5% Water  
248' OCWGM 10% Oil, 20% Water  
1178' GCOW 10% Oil, 85% Water

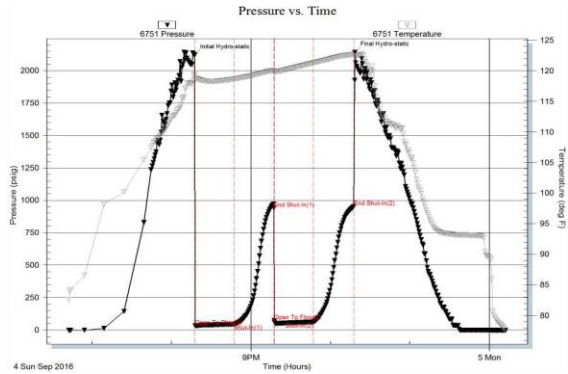


**DST #3 Johnson**

Interval (4262' – 4320') Anchor Length 58'

- IHP – 2121 #
- IFP – 30" – Built to 3 in. 32-45 #
- ISI – 30" – Dead 940 #
- FFP – 30" – Built to 5 in. 73-62 #
- FSI – 30" – Dead 952 #
- FHP – 2141 #
- BHT – 122°F

Recovery: 15' GCO 95% Oil  
 62' GMCO 75% Oil



**Structural Comparison**

	American Warrior, Inc. Lewis #1-26 Sec. 26 T15s R30w 1379' FSL & 1626' FWL	White & Ellis Drilling Bretton #1-26 Sec. 26 T15s R30w NE NE SW		White & Ellis Drilling L Evans #1-26 Sec. 26 T15s R30w 2970' FSL & 3300' FEL	
<b>Formation</b>					
Anhydrite	2054', +591	2043', +588	(+3)	2037', +592	(-1)
Base	2083', +562	2069', +562	<b>FL</b>	2064', +565	(-3)
Heebner	3691', -1046	3674', -1043	(-3)	3669', -1040	(-6)
Toronto	3712', -1067	NA	NA	NA	NA
Lansing	3732', -1087	3713', -1082	(-5)	3709', -1080	(-7)
BKC	4069', -1424	NA	NA	NA	NA
Marmaton	4118', -1473	NA	NA	NA	NA
Pawnee	4184', -1539	4176', -1545	(+6)	4171', -1542	(+3)
Fort Scott	4239', -1594	4235', -1604	(+10)	4227', -1598	(+4)
Cherokee	4263', -1618	4262', -1631	(+13)	4253', -1624	(+6)
Johnson	4305', -1660	4303', -1672	(+12)	4294', -1665	(+5)
Mississippian	4342', -1697	4354', -1723	(+26)	4327', -1698	(+1)

## Summary

The location for the Lewis #1-26 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted, two of which recovered commercial amounts of oil from the Lansing-Kansas City and Johnson zones. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Lewis #1-26 well.

### Recommended Perforations

**Primary:**

<b>Johnson zone</b>	<b>(4306' – 4308')</b>	<b>DST #3</b>
	<b>(4315' – 4318')</b>	

**Secondary:**

<b>LKC L</b>	<b>(4030' – 4034')</b>	<b>DST #2</b>
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**Before Abandonment:**

<b>LKC J</b>	<b>(3969' – 3976')</b>	<b>DST #1</b>
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Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.