

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 Recompletion Date _____ 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)</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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CHARGE TO: American Warrior Inc.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 001065

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>#7-17</u>	LEASE <u>Gano</u>	COUNTY/PARISH <u>Keosau</u>	STATE <u>KS</u>	CITY <u>Lakin</u>	DATE <u>11-30-17</u>	OWNER <u>Same</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling</u>	RIG NAME/NO. <u>#5</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2' Longstring</u>	WELL PERMIT NO.	WELL LOCATION <u>hole - 3g, 1 3/4" w/ 1 3/4" w/</u>		
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			120	m.	5.10	600.00
578		1			Pump Charge - Longstring			1	job	1250.00	1250.00
402		1			Centralizer			5 1/2	in	10.00	600.00
403		1			Cement Basket			2	can	250.00	500.00
406		1			Latch Down Plug + Baffle			1	can	225.00	225.00
407		1			Insert Float Shoe w/ Auto Fill			1	can	300.00	300.00

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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 11-30-17 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	UNDECIDED	DISAGREE	PAGE TOTAL #1 3475.00 #2 7624.00
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?							TAX
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO							TOTAL
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND							

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

SWIFT OPERATOR David Kuhn

APPROVAL Kenneth McVee

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-30-17 PAGE NO. 1
~~#123~~
 TICKET NO. #31065

CUSTOMER American Warrior WELL NO. #7-17 LEASE Gano JOB TYPE Longstring

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							on location 5 1/2" 17"
								RTD-5050' LTD-5052 TP-5040 SS- "1 20.90 cent "1"2"3"4"5"7"9"22"84 Basket "5"23
	0710							Start 5 1/2" 17" casing in well
	0950							Drop ball Circulate
	1035	6 1/2	12		✓	400		Pump 500 gal Mud Flush
		6 1/2	20		✓	400		Pump 20 bbl HCL Flush
			7-5					Plug RH-MH (30-20)
	1045	4 1/2	50	✓	✓	200		mix 200 slts STD 2% Gel 10% salt @ 14.9 ppg
								wash out Pump + line Release Latch Down Plug
	1110	6 1/2	0		✓	200		Start Displacement
		6 1/2	82		✓	300		Lift Pressure
		6 1/2	115		✓	1000		Max Lift Pressure
	1130	6 1/2	116 1/2		✓	2000		Land Latch Down Plug
								Release Pressure * Plug Hold *
								wash up trucks
	1200							Job Complete

Thank You
 Dave Preston Isaac



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

TICKET CONTINUATION

TICKET No. # 31065

CUSTOMER American Well Services WELL Cond #7-17 DATE 11-30-17 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				
375		1				Standard Cement					250	skts	12 ²⁵	3062 ⁵⁰
279		1				Bentonite Grl	2	%			5	skts	25 ⁰⁰	125 ⁰⁰
283		1				Salt	10	%			1350	lbs	00 ²⁰	270 ⁰⁰
292		1				Hydrol-377	3/4	%			200	lbs	8 ⁰⁰	1600 ⁰⁰
276		1				Floccs	1/4	lb			50	lbs	2 ²⁵	112 ⁵⁰
290		1				D-Air					3	gal	84 ⁰⁰	252 ⁰⁰
281		1				Mud Flush					500	gal	1 ²⁵	625 ⁰⁰
221		1				Liquid KCl					2	gal	25 ⁰⁰	50 ⁰⁰
581		1				SERVICE CHARGE								
583		1				MILEAGE CHARGE								
						TOTAL WEIGHT								
						LOADED MILES								
						CUBIC FEET								
						TON MILES								

CONTINUATION TOTAL 7624⁰⁰



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

TICKET 031058

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Jess City KS</u>	WELL/PROJECT NO. <u># 7-17</u>	LEASE <u>Guno</u>	COUNTY/PARISH <u>Keosau</u>	STATE <u>KS</u>	CITY <u>Lakin</u>	DATE <u>11-21-17</u>	OWNER <u>Same</u>	
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling</u>	RIG NAME/NO. <u>#5</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.		
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 8 5/8" Surface Pipe</u>	WELL PERMIT NO.		WELL LOCATION <u>Lakin - 3s, 1 3/4w, 1 3/4s, Winto</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		U/M	U/M				
<u>575</u>		<u>1</u>			MILEAGE <u>Trk # 112</u>			<u>100</u>	<u>mi</u>	<u>5</u> ⁰⁰	<u>500</u> ⁰⁰
<u>576 D</u>		<u>1</u>			<u>Pump Charge - Deep Surface</u>			<u>1</u>	<u>job</u>	<u>1250</u> ⁰⁰	<u>1250</u> ⁰⁰
<u>400</u>		<u>1</u>			<u>Guide Shoe</u>			<u>8 5/8</u>	<u>in</u>	<u>350</u> ⁰⁰	<u>350</u> ⁰⁰
<u>401</u>		<u>1</u>			<u>Insert float w/ Auto Fill</u>			<u>8 5/8</u>	<u>in</u>	<u>200</u> ⁰⁰	<u>200</u> ⁰⁰
<u>409</u>		<u>1</u>			<u>Turbolizer</u>			<u>3</u>	<u>ca</u>	<u>95</u> ⁰⁰	<u>285</u> ⁰⁰
<u>410</u>		<u>1</u>			<u>Top Plug</u>			<u>8 5/8</u>	<u>in</u>	<u>120</u> ⁰⁰	<u>120</u> ⁰⁰
<u>194</u>		<u>1</u>			<u>Plug Container Rental</u>			<u>8 5/8</u>	<u>in</u>	<u>200</u> ⁰⁰	<u>200</u> 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 11-21-17 TIME SIGNED 1030 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UNDECIDED	DISAGREE	#1	<u>2905</u> ⁰⁰
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	<u>16048</u> ⁵⁰
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<u>Keosau</u>	<u>18953</u> ⁵⁰
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX <u>6-510</u>	<u>897</u> ⁰³
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<u>19830</u> ⁵³
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR David Kuehn

APPROVAL Kenneth McGuire

Thank You!



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

TICKET CONTINUATION

TICKET No. # 31058

CUSTOMER American Warrior Inc WELL Gano #7-17 DATE 11-21-17 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				
330		1				SMD Cement					700	slks	15.75	11025.00
276		1				Floccle	1/4	16			175	lbs	2.25	393.75
290		1				D-Air					7	gal	42.00	294.00
281		1				Mud Flush					500	gal	1.25	625.00
221		1				Liquid HCL					2	gal	25.00	50.00
581		1				SERVICE CHARGE							1.50	1050.00
583		1				MILEAGE CHARGE							00.75	2610.75
						TOTAL WEIGHT								
						LOADED MILES			100					
						CUBIC FEET					700			
						TON MILES					3481			

CONTINUATION TOTAL 16048.50

JOB LOG

SWIFT Services, Inc.

DATE 11-21-17	PAGE NO. 1
TICKET NO. # 31058	

CUSTOMER American Warrior	WELL NO. # 7-17	LEASE Gano	JOB TYPE 8 3/8" Surface
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							on location 8 3/8" 23" RTD - 1832' TP - 1826' SJ - #1 41.50' Turbo - #1 #20 #40
	0445							Start 8 3/8" 23" casing in well
	0705							Drop Ball circulate
	0755	6 1/2	12		✓	400		Pump 500 gal Mud Flush
		6 1/2	20		✓	400		Pump 20 bbl HCL Flush
	0805	5 1/2	95		✓	300		mix 200 sks SMD 1/4" flo @ 11.8 ppg
		5 1/2	134		✓	300		mix 350 sks SMD 1/4" flo @ 12.5 ppg
		5 1/2	23		✓	200		mix 75 sks SMD 1/4" flo @ 13.5 ppg
		5 1/2	20		✓	100		mix 75 sks SMD 1/4" flo @ 14.5 ppg
								wash out Pump + Lines Release Top Plug
	0925	6 1/2	0			0		Start Displacement
		6 1/2	50			300		lift Pressure
		6 1/2	75			500		Circulate cement to surface * 75 sks *
		6 1/2	112			650		max lift Pressure
	1000	6 1/2	114.2			1000		land Top Plug
								Release Pressure * Float Hold *
								wash up truck
	1030							Job Complete

Thank You
Dave Preston Kirby Isaac



CHARGE TO: American Warrior Inc.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 031057

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u># 7-17</u>	LEASE <u>Guno</u>	COUNTY/PARISH <u>Heurny</u>	STATE <u>KS</u>	CITY <u>Lakin</u>	DATE <u>11-18-17</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling</u>		RIG NAME/NO. <u># 5</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 13 3/8" Surface Pipe</u>		WELL PERMIT NO.		WELL LOCATION <u>Lakin - 35, 174 w, 174 s, Wink</u>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
575		1			MILEAGE Trk # 112		100 mi	5 ⁰⁰	500 ⁰⁰
576 S		1			Pump Charge - Shallow Surface		1 job	800 ⁰⁰	800 ⁰⁰
325		1			Standard Cement		200 sks	12 ²⁵	2450 ⁰⁰
279		1			Bentonite Gel	21%	4 sks	25 ⁰⁰	100 ⁰⁰
278		1			Calcium Chloride	3%	9 sks	40 ⁰⁰	360 ⁰⁰
290		1			D-Air		2 gal	42 ⁰⁰	84 ⁰⁰
581		1			Service Charge Cement		200 sks	1 ⁵⁰	300 ⁰⁰
583		1			Drayage		19650 lbs	983 ¹⁷⁵	737 ²⁵

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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 11-18-17 TIME SIGNED 1600 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UNDECIDED	DISAGREE
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			

PAGE TOTAL	5331 ²⁵
TOTAL	5325 ⁸⁶

Ness TAX
650
194⁶¹

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

SWIFT OPERATOR David Kuehn

APPROVAL Kenneth M. [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-18-17	PAGE NO. 1
TICKET NO. #31057	

CUSTOMER American Warrior	WELL NO. #7-17	LEASE Guns	JOB TYPE Surface Pipe
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on location 13 3/8" 54.5"
								RTD-220' TP-218'
								Rig waiting on casing crew
	1200							Start 13 3/8" 54.5" casing in well
	1350							circulate landing Joint down
	1420							Break circulation on Bottom
	1500	4 1/2	5		✓	100		Pump 5 bbl water spacer
	1505	4 1/2	48 1/2		✓	100		Pump 200 sks STD 2% Gel 3% cc @ 14.7 fpg
	1520	4 1/2	∅		✓	100		Displace Cement
		4 1/2	26		✓	100		circulate cement to surface * sks*
	1530	∅	32		✓	200		Kick out Pump Shut in
								wash up truck
	1600							Job Complete

Thank You
Dave Preston Kirby

Geological Report

American Warrior, Inc.

Gano #7-17

988' FSL & 1901' FWL

Sec. 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #7-17
988' FSL & 1901' FWL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21962-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: November 18, 2017

Completion Date: November 30, 2017

Elevation 3013' G.L.
3024' K.B.

Directions: From Lakin, KS. Go South on Hwy 25 3.3 miles.
Go west .7 miles on Rd 120. Go 1 mile South on
Rd S. Go West 1 mile on Rd 110. Go South .7 miles
on Rd R. Ingress West into.

Casing: 1826' 8 5/8" #23 Surface Casing
5040' 5 1/2" #17 Production Casing

Samples: 3550' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"
Full Sweep

Drillstem Tests: One-Trilobite Testing "Chris Hagman"

Problems: None

Formation Tops
Gano #7-17
Sec. 17, T25s, R36w
988' FSL & 1901' FWL

Anhydrite	NA
Base	NA
Heebner	3610' -586
Lansing	3665' -641
Stark	3995' -971
Bkc	4168' -1144
Marmaton	4194' -1170
Pawnee	4292' -1268
Fort Scott	4325' -1301
Cherokee	4333' -1309
Morrow	4620' -1596
St. Gen	4770' -1746
RTD	5050' -2026
LTD	5052' -2028

Sample Zone Descriptions

Lansing A (3655',-631): Covered in DST #1
 LS. Tan. Sub crystalline. Fair oolycastic and fair vuggy porosity. Good stain. Good saturation. Strong odor. Bright yellow full cut florescence. 210 Unit kick.

Lansing D (3781', -757): Not Tested
 LS. Tan/brown. Sub crystalline. Fair oolycastic and fair vuggy porosity. Good stain. Fair saturation. Fair odor. SFO when broken. Fair odor. Bright yellow full cut florescence. Unknown gas kick.

Lansing K (4007', -983): Not Tested
 LS. Brown. Sub crystalline. Very good oomoldic porosity. Very good stain. Very good saturation. Very good SFO. Very strong odor. Bright yellow full cut florescence. Unknown gas kick.

Marmaton (4229', -1205): Not Tested
 LS. Brown. Medium crystalline. Fair oolycastic, fair intercrystalline, and good vuggy porosity. Good stain. Good saturation. SFO. Very strong odor. Bright yellow full cut florescence. 1500 unit gas kick.

Morrow Sand

(4741', -1717):

Not Tested

Ss. Grey. Glauconitic. Medium grain. Poorly sorted. Sub angular to sub rounded. Good stain. Good saturation. Fair odor. SFO when broken. Fair yellow stream cut florescence. 1100 unit gas kick.

St. Louis A

(4803' , -1779):

Not Tested

LS. Off white/tan. Sub crystalline. Fair to good oolycastic porosity. Fair to good stain. Fair saturation. SFO when broken. Fair odor. Good yellow stream cut florescence. Unknown gas kick.

Drill Stem Tests

Trilobite Testing

“Chris Hagman”

DST #1

Toronto-Lansing A

Interval (3611' – 3685') Anchor 74'

IHP - 1672 #

IFP - 30” – BOB in 8 min 59-198 #

ISI - 45” – No return 951 #

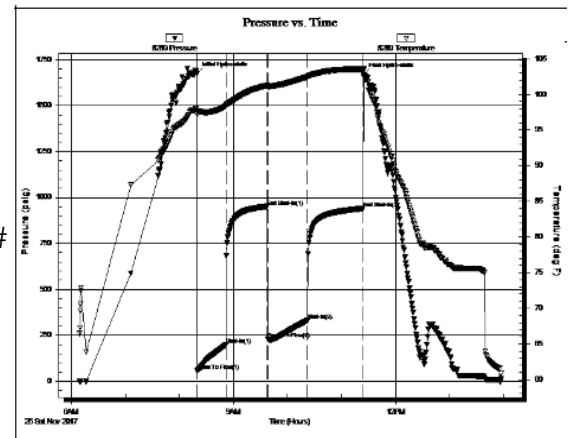
FFP - 45” – BOB in 10 min 231-331 #

FSIP - 60" - WSB 940#

FHP - 1667 #

BHT - 104° F

Recovery: 155' WCM & 248' MCW



Structural Comparison

Formation	American Warrior, Inc Gano #7-17 Sec 17, T25s, R36w 988' FSL & 1901' FWL		American Warrior Inc Gano #6-17 Sec 17, T25s, R36w 1648' FSL & 837' FWL		American Warrior, Inc. Gano #3-17 Sec 17, T25s, R36w 1512' FSL & 2603' FEL
Heebner	3610' -586	+2	3630' -588	+5	3627' -591
Lansing	3665' -641	+2	3685' -643	-3	3674' -638
Stark	3995' -971	+6	4019' -977	+11	4018' -982
BKc	4168' -1144	+2	4188' -1146	+2	4182' -1146
Marmaton	4194' -1170	+4	4216' -1174	FL	4206' -1170
Pawnee	4292' -1268	FL	4310' -1268	NA	NA
Fort Scott	4325' -1301	+3	4346' -1304	+3	4340' -1304
Cherokee	4333' -1309	+3	4354' -1312	+6	4351' -1315
Morrow	4620' -1596	+11	4649' -1607	+11	4643' -1607
St. Gen	4770' -1746	+5	4793' -1751	+6	4788' -1752

Summary

The location for the Lee #2-29 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem test was conducted, which recovered commercial amounts of oil from the Lansing A formation. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Gano #7-17 well.

Recommended Perforations

Primary	Marmaton	(4229' to 4239')
	Marmaton	(4240' to 4250') Shoot if more fluid is needed
Secondary:	Lansing K	(4007' to 4013')
	Lansing D	(3781' to 3785')
	Lansing A	(3655' to 3665')
	St. Louis A	(4803' to 4811')
Before Abd.	St. Louis C	(4902' to 4906')
	Morrow	(4741' to 4751') FRAC
	Lansing L	(4079' to 4083')
	Toronto	(3629' to 3637')

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.
 P.O. Box 399
 Garden City, KS 67846
 ATTN: Kevin Timson

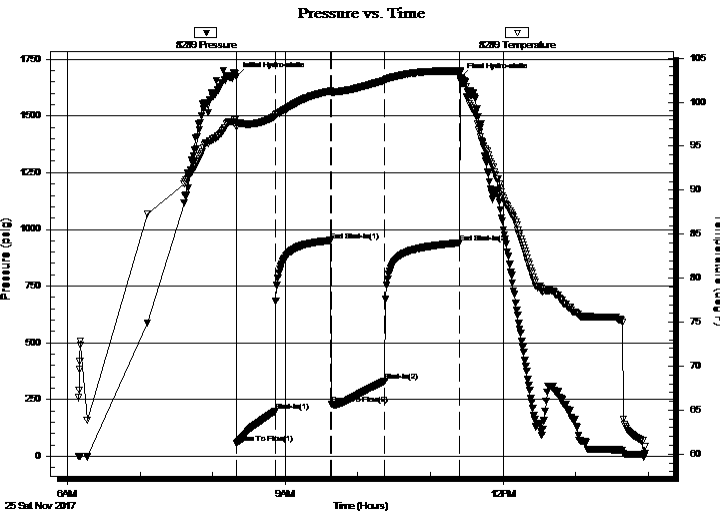
17/25/36 Kearny, KS
Gano 7-17
 Job Ticket: 64105 **DST#: 1**
 Test Start: 2017.11.25 @ 06:09:02

GENERAL INFORMATION:

Formation: **Toronto-Lansing B**
 Deviated: No Whipstock: 3024.00 ft (KB)
 Time Tool Opened: 08:19:30
 Time Test Ended: 13:57:15
 Interval: **3611.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 3024.00 ft (KB)
 3014.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8289 Inside
 Press@RunDepth: 330.93 psig @ 3617.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.11.25 End Date: 2017.11.25 Last Calib.: 1899.12.30
 Start Time: 06:09:02 End Time: 13:57:15 Time On Btm: 2017.11.25 @ 08:19:15
 Time Off Btm: 2017.11.25 @ 11:24:30

TEST COMMENT: IF: BOB 8 min., strong building blow
 IS: No blow back
 FF: BOB 10 min., strong building blow
 FS: Blow back 5 min., weak surface blow



PRESSURE SUMMARY

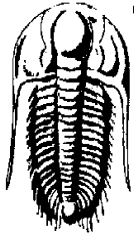
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.05	98.10	Initial Hydro-static
1	58.57	97.16	Open To Flow (1)
33	198.34	98.39	Shut-In(1)
79	951.09	101.27	End Shut-In(1)
79	230.63	101.07	Open To Flow (2)
124	330.93	102.47	Shut-In(2)
185	940.24	103.55	End Shut-In(2)
186	1666.81	103.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gassy oil 10%G,90%O	0.25
126.00	oily gasy muddy w ater 5%G,10%O,50%W,0.62%M	
485.00	oily gassy w ater 5%G,5%O,90%W	6.28

Gas Rates

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



TRILLOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

17/25/36 Kearny, KS

P.O. Box 399
Garden City, KS 67846

Gano 7-17

ATTN: Kevin Timson

Job Ticket: 64105

DST#: 1

Test Start: 2017.11.25 @ 06:09:02

GENERAL INFORMATION:

Formation: **Toronto-Lansing B**
 Deviated: No Whipstock: 3024.00 ft (KB)
 Time Tool Opened: 08:19:30
 Time Test Ended: 13:57:15

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75

Interval: **3611.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3024.00 ft (KB)
 3014.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6672

Outside

Press@RunDepth: psig @ 3617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.25

End Date:

2017.11.25

Last Calib.:

1899.12.30

Start Time: 06:09:02

End Time:

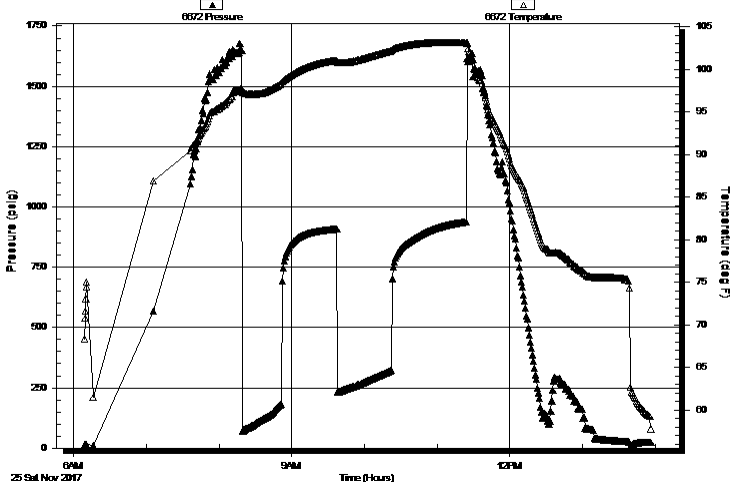
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB 8 min., strong building blow
 IS: No blow back
 FF: BOB 10 min., strong building blow
 FS: Blow back 5 min., weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gassy oil 10%G,90%O	0.25
126.00	oily gasy muddy w ater 5%G,10%O,50%W,0.62%M	
485.00	oily gassy w ater 5%G,5%O,90%W	6.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17/25/36 Kearny, KS

P.O. Box 399
Garden City, KS 67846

Gano 7-17

Job Ticket: 64105

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.11.25 @ 06:09:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 32.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	gassy oil 10%G,90%O	0.246
126.00	oily gasy muddy w ater 5%G,10%O,50%W,3%	0.620
485.00	oily gassy w ater 5%G,5%O,90%W	6.284

Total Length: 661.00 ft Total Volume: 7.150 bbl

Num Fluid Samples: 0

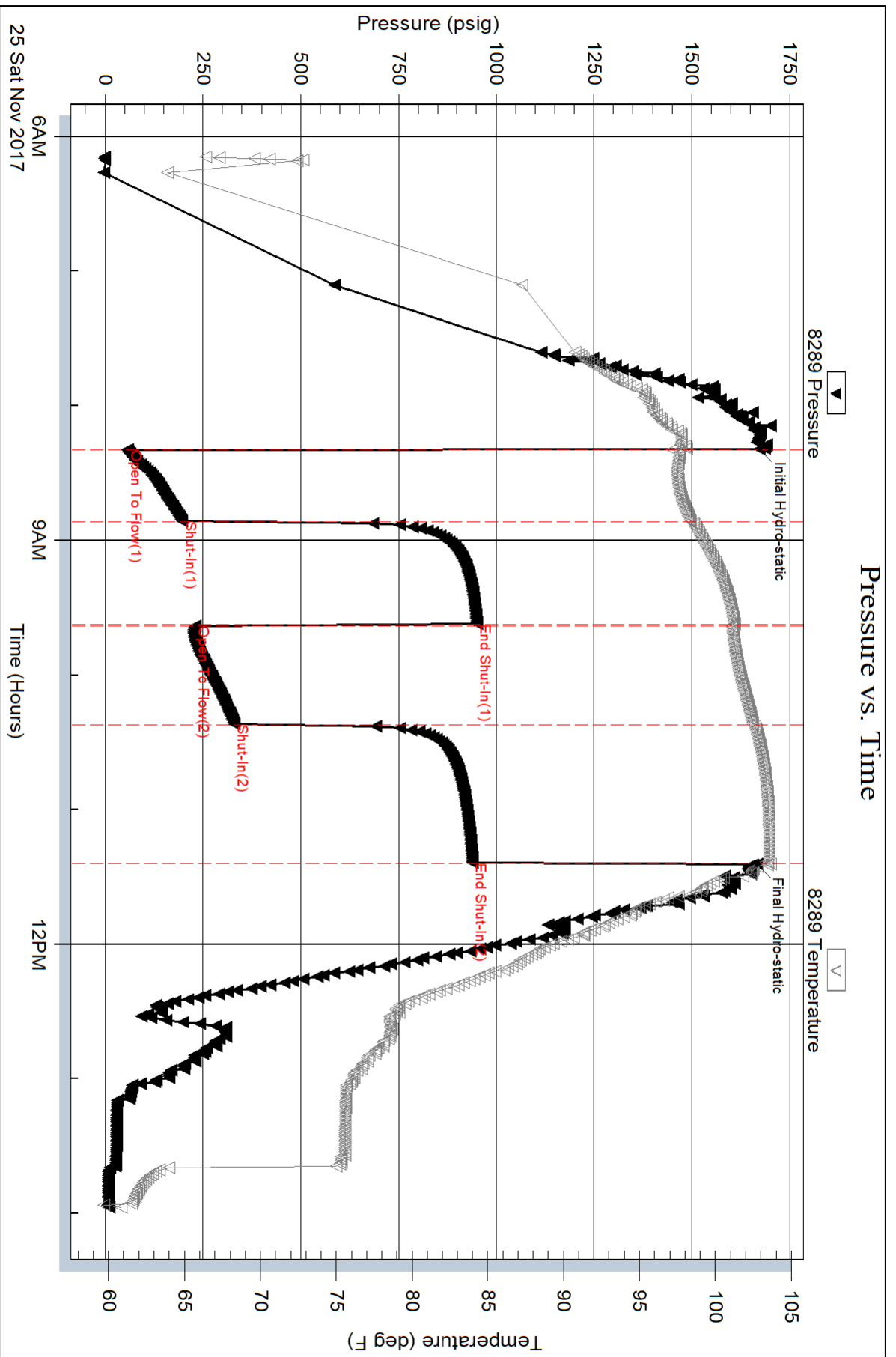
Num Gas Bombs: 0

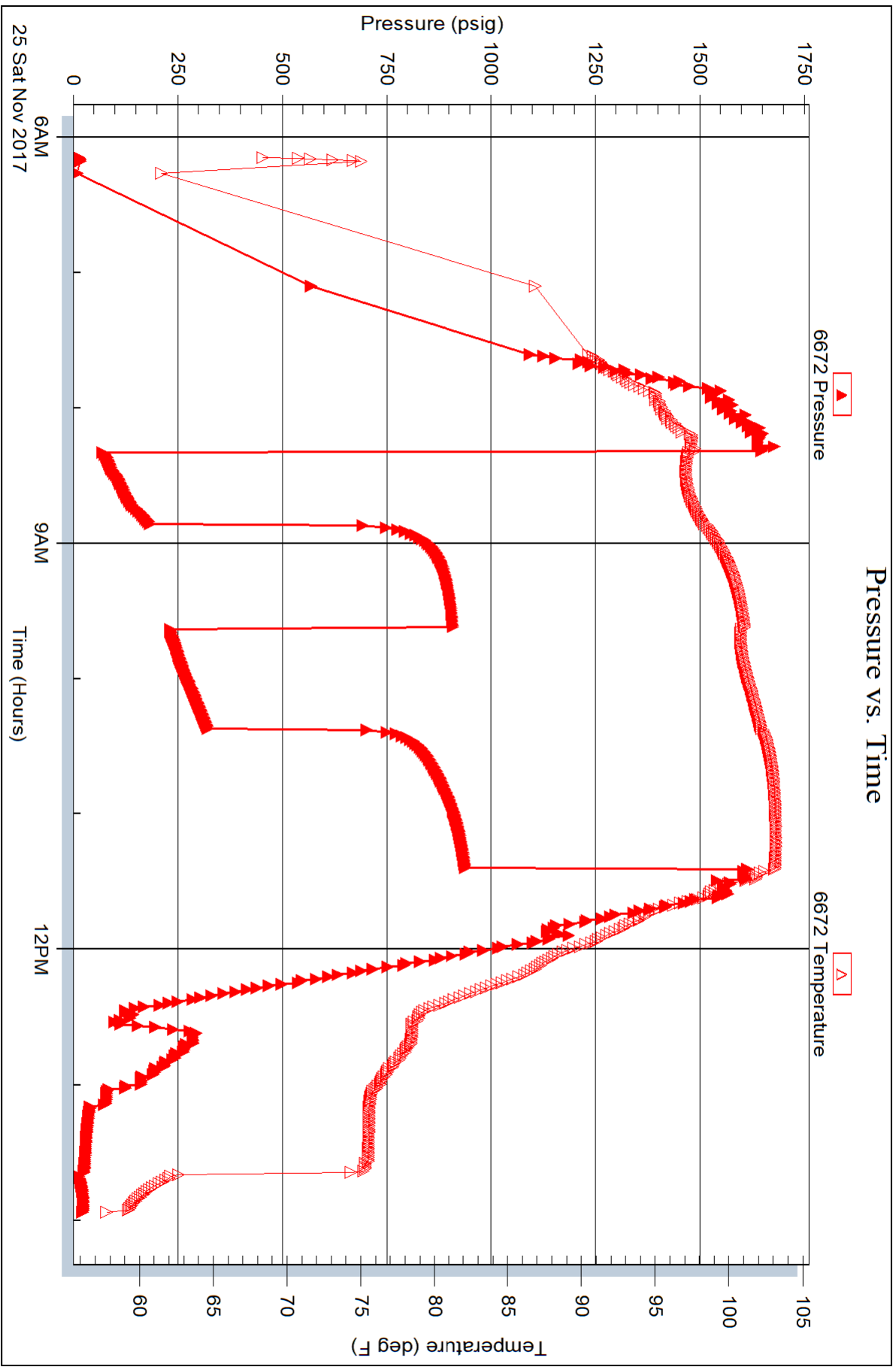
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=32@70F=31,RW=.270@72F=26000ppm







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Gano #7-17

17-25-36 Kearny, KS

Start Date: 2017.11.25 @ 06:09:02

End Date: 2017.11.25 @ 13:57:15

Job Ticket #: 64105 DST #: 1

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

Printed: 2017.11.30 @ 08:10:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

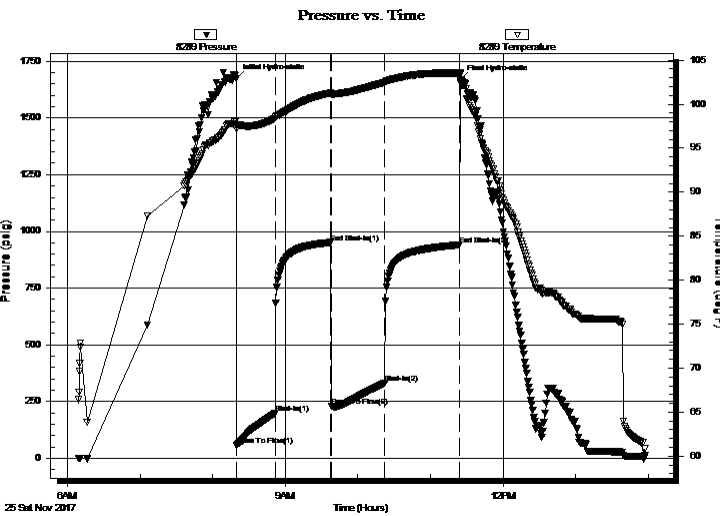
17-25-36 Kearny, KS
Gano #7-17
Job Ticket: 64105 **DST#: 1**
Test Start: 2017.11.25 @ 06:09:02

GENERAL INFORMATION:

Formation: **Toronto - Lansing B**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 08:19:30 Tester: Chris Hagman
Time Test Ended: 13:57:15 Unit No: 75
Interval: 3611.00 ft (KB) To 3685.00 ft (KB) (TVD) Reference Elevations: 3024.00 ft (KB)
Total Depth: 3685.00 ft (KB) (TVD) 3014.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8289 Inside
Press@RunDepth: 330.93 psig @ 3617.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.25 End Date: 2017.11.25 Last Calib.: 2017.11.25
Start Time: 06:09:02 End Time: 13:57:15 Time On Btm: 2017.11.25 @ 08:19:15
Time Off Btm: 2017.11.25 @ 11:24:30

TEST COMMENT: IF: BOB 8 min., strong building blow
IS: No blow back
FF: BOB 10 min., strong building blow
FS: Blow back 5 min., weak surface blow



PRESSURE SUMMARY

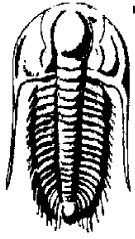
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.05	98.10	Initial Hydro-static
1	58.57	97.16	Open To Flow (1)
33	198.34	98.39	Shut-In(1)
79	951.09	101.27	End Shut-In(1)
79	230.63	101.07	Open To Flow (2)
124	330.93	102.47	Shut-In(2)
185	940.24	103.55	End Shut-In(2)
186	1666.81	103.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
485.00	GOCW 5%G,5%O,90%W	4.68
126.00	GOCMW 5%G,10%O,50%W,35%M	1.77
50.00	GO 10%G,90%O	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

17-25-36 Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #7-17

Job Ticket: 64105

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.11.25 @ 06:09:02

GENERAL INFORMATION:

Formation: **Toronto - Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:30

Time Test Ended: 13:57:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **3611.00 ft (KB) To 3685.00 ft (KB) (TVD)**

Reference Elevations: 3024.00 ft (KB)

Total Depth: 3685.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 3617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.25 End Date: 2017.11.25

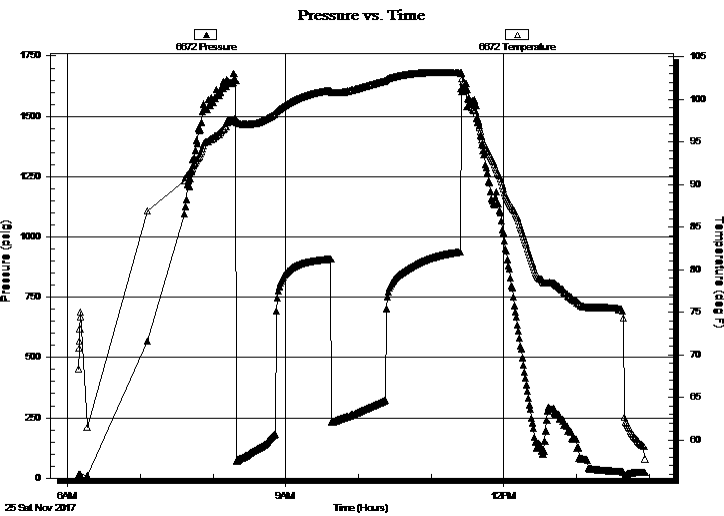
Last Calib.: 1899.12.30

Start Time: 06:09:02 End Time: 13:57:04

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB 8 min., strong building blow
IS: No blow back
FF: BOB 10 min., strong building blow
FS: Blow back 5 min., weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
485.00	GOCW 5%G,5%O,90%W	4.68
126.00	GOCMW 5%G,10%O,50%W,35%M	1.77
50.00	GO 10%G,90%O	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

17-25-36 Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #7-17

Job Ticket: 64105

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.11.25 @ 06:09:02

Tool Information

Drill Pipe:	Length: 3369.00 ft	Diameter: 3.80 inches	Volume: 47.26 bbl	Tool Weight: 2000.00 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3611.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 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			3584.00	
Shut In Tool	5.00			3589.00	
Hydraulic tool	5.00			3594.00	
Jars	5.00			3599.00	
Safety Joint	3.00			3602.00	
Packer	5.00			3607.00	28.00 Bottom Of Top Packer
Packer	4.00			3611.00	
Stubb	1.00			3612.00	
Perforations	1.00			3613.00	
Perforations	4.00			3617.00	
Recorder	0.00	8289	Inside	3617.00	
Recorder	0.00	6672	Outside	3617.00	
Change Over Sub	1.00			3618.00	
Drill Pipe	63.00			3681.00	
Change Over Sub	1.00			3682.00	
Bullnose	3.00			3685.00	74.00 Bottom Packers & Anchor
Total Tool Length:	102.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

17-25-36 Kearny, KS

PO Box 399
Garden City, KS 67846

Gano #7-17

Job Ticket: 64105

DST#: 1

ATTN: Kevin Timson

Test Start: 2017.11.25 @ 06:09:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 32.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
485.00	GOCW 5%G,5%O,90%W	4.681
126.00	GOCMW 5%G,10%O,50%W,35%M	1.767
50.00	GO 10%G,90%O	0.701

Total Length: 661.00 ft Total Volume: 7.149 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

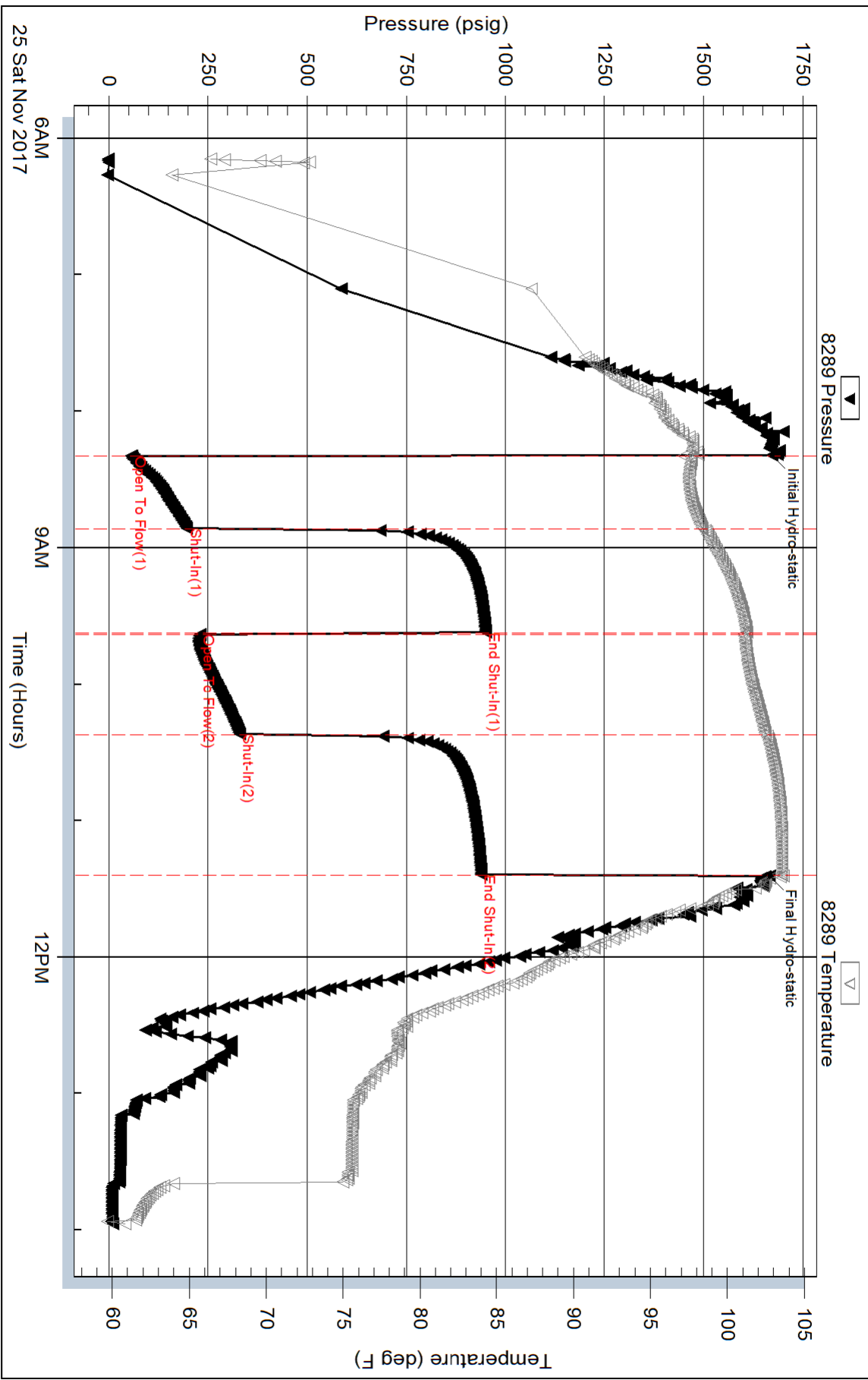
Serial #:

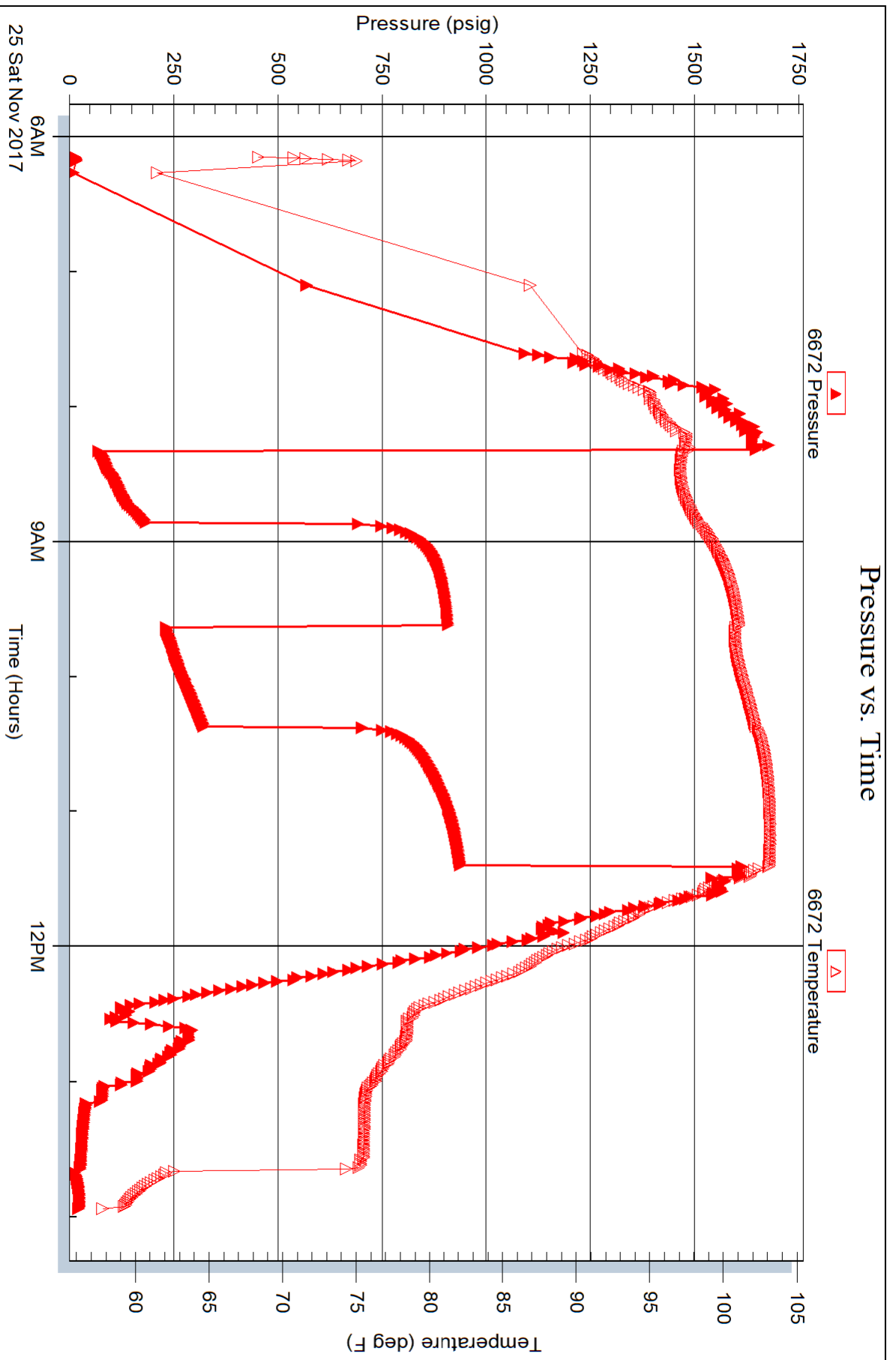
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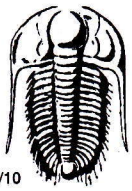
Laboratory Location:

Recovery Comments: API=32@70F=31,RW=.270@72F=26000ppm

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64105**

4/10

Well Name & No. Gard 7-17 Test No. 1 Date 11-25-17
 Company American Warbler, Inc. Elevation 3024 KB ~~3014~~ 3014 GL
 Address P.O. Box 399 Garden City, KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 25
 Location: Sec. 17 Twp. 25 Rge. 36 Co. Ikearny, KS State _____

Interval Tested 3611-3685 Zone Tested Toronto-Lansing B
 Anchor Length 74' Drill Pipe Run 3369 Mud Wt. 9.6
 Top Packer Depth 3606 Drill Collars Run 233 Vis 32
 Bottom Packer Depth 3611 Wt. Pipe Run N.A. WL N/C
 Total Depth 3685 Chlorides 10,500 ppm System LCM 2#

Blow Description IF: BOB 8 min., strong building blow
FSI No blow back
EPI BOB 10 min., strong building blow
FSI Blow back 5 min., weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>gassy oil</u>	<u>10%</u>	<u>90%</u>		
<u>126'</u>	<u>oily gassy muddy water</u>	<u>5%</u>	<u>10%</u>	<u>50%</u>	<u>35%</u>
<u>485'</u>	<u>oily gassy water</u>	<u>5%</u>	<u>5%</u>	<u>90%</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of <u>310' GIP</u>	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 661 BHT 104 Gravity 31 API RW .270 @ 72 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic 1672 Test CONV. ¹⁰⁵⁰
 (B) First Initial Flow 59 Jars 250
 (C) First Final Flow 198 Safety Joint 75
 (D) Initial Shut-In 951 Circ Sub _____
 (E) Second Initial Flow 231 Hourly Standby _____
 (F) Second Final Flow 331 Mileage 120 ⁹⁰
 (G) Final Shut-In 940 Sampler _____
 (H) Final Hydrostatic 1667 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Shale Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 60 Extra Recorder _____
 Day Standby _____
 Accessibility _____

T-On Location 0500
 T-Started 0600
 T-Open 0820
 T-Pulled 1120
 T-Out 1400
 Comments 0609

Sub Total 1465
 Total 1465
 MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagren
 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.