

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	GANO 4-17 TWIN
Doc ID	1329623

Tops

Name	Top	Datum
Heebner	3622'	-586
Lansing	3668'	-632
B/KC	4179	-1143
Marmaton	4198	-1162
Pawnee	4301'	-1265
Ft.Scott	4336'	-1300
Cherokee	4346	-1310
Morrow	4643	-1607
Mississippian	4788	-1756

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	GANO 4-17 TWIN
Doc ID	1329623

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4248'to 4258		
	4700'CIBP		
4	4760'to 4768		



CHARGE TO: **AMERICAN WARRIOR**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 29800

PAGE 1 OF 2

1. SERVICE LOCATIONS NESS CITY, KS	WELL/PROJECT NO.	LEASE GAUDTWIN 4-17	COUNTY/PARISH KEARNY	STATE KS.	CITY LAKIN, KS.	DATE 18 NOV 16	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 CEMENT 8 5/8	WELL PERMIT NO.	WELL LOCATION 35, 1/2 W, 15, 1/2 W, S1112		
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	110		ML		5.00	550.00
576D					Pump CHARGE	1		JOB		1250.00	1250.00
409					TURBOCHIZERS	3		EA		95.00	285.00
410					TOP PLUG	1		EA		120.00	120.00
412					BAFFLE PLATE	1		EA		110.00	110.00
400					GUIDE SPODE	1		EA		350.00	350.00
231					MUD FLUSH	500		Gal		1.25	625.00
221					LIQUID KCL	2		Gal		25.00	50.00
194					PLUG CONTAINER RENTAL	1		JOB		200.00	200.00

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 Wayne*
 DATE SIGNED: **18 NOV 16** TIME SIGNED: **1545**
 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	3540
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				14461	18
WE UNDERSTOOD AND MET YOUR NEEDS?				18001	18
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<i>kearny co.</i>	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX: 6510	81632
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	1881750
<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: *[Signature]* APPROVAL:

Thank You!



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

TICKET CONTINUATION

TICKET No. 29800

CUSTOMER AMERICAN WARRIOR WELL GANO TWIN 4-17 DATE 18 Nov 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		
276						FLDCELE	165	lbs			2 ²⁵	371 ²⁵
290						D-AIR	5	gal			42 ⁰⁰	210 ⁰⁰
330						SMD CEMENT	650	sq			15 ²⁵	10237 ⁵⁰
581						SERVICE CHARGE					1 ⁵⁰	975 ⁰⁰
583						MILEAGE CHARGE	64665	TOTAL WEIGHT	110	LOADED MILES	75	2667 ⁴³
											3556.5	TON MILES

CONTINUATION TOTAL 14461¹⁸

JOB LOG

SWIFT Services, Inc.

DATE 1/8/16 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE GANDTWIN 4-17 JOB TYPE CEMENT 8 5/8 TICKET NO. 29800

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION
								RTD @ 1780 SET @ 1772
	1202							START PIPE - 8 5/8 - 23'
								CENTRALIZERS 1, 14, 33
	1407				✓			CIRCULATE.
	1415	6	12		✓	400		Pump 500 gal MUD FLUSH
		6	20		✓	400		Pump 20 BBL KCL SPACER
	1420	7	69		✓	600		MIX 150sx @ 11.8 ppb
		7	115		✓	600		MIX 300sx @ 12.5 ppb
		4	31		✓	300		MIX 100sx @ 13.5 ppb
		4	26		✓	300		MIX 100sx @ 14.5 ppb
			241					TOTAL CEMENT MIXED
	1503	8			✓			START DISPLACING PLUG.
	1523	8	111		✓	700		PLUG DOWN - SHUT WELL IN.
								CIRCULATE CEMENT TO SURFACE
								REELS
	1525							WASH TRUCK
	1600							JOB COMPLETE
								THANKS # 115
								JASON DAVE PRESTON JOHN



CHARGE TO: AMERICAN WARRIOR
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 30083

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>NESS CITY, KS</u>	WELL/PROJECT NO. <u>4-17</u>	LEASE <u>GANO TWIN</u>	COUNTY/PARISH <u>KEARNY</u>	STATE <u>KS</u>	CITY <u>LARIN, KS</u>	DATE <u>1 DEC 16</u>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>DUKE DRILL RIG #5</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOPMENT</u>	JOB PURPOSE <u>5 1/2 LONG STRING</u>	WELL PERMIT NO.	WELL LOCATION <u>3S, 12W, 1S, 1/2W S 210</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
575					MILEAGE #115	100	mi	5	100	500
578					Pump CHARGE	1	JOB	1250	100	1250
402					CENTRALIZERS	9	EA	60	100	540
403					CEMENT BASKET	1	EA	250	100	250
406					LATCH DOWN PLUG & BAFFLE	1	EA	225	100	225
407					INSERT FLOAT SHOE w/FILL	1	EA	300	100	300
419					ROTATING HEAD RENTAL	1	JOB	200	100	200
231					MUD FLUSH	500	gal	1	35	625
221					KCL	2	gal	25	100	50

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 McNamee
 DATE SIGNED 1 DEC 16 TIME SIGNED 1400 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	3960	80
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				6902	81	
WE UNDERSTOOD AND MET YOUR NEEDS?				10842	81	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				499	51	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	11342	32
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO					
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						



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

TICKET CONTINUATION

TICKET No. 30083

CUSTOMER AMERICAN WARRIOR WELL GANDWIN 4-17 DATE DEC 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		
276						FLOCELE	65	lbs			2 ²⁵	146 ²⁵
283						SALT	1250	lbs			2 ⁰⁰	250 ⁰⁰
284						CALSEAL	12	sx			30 ⁰⁰	360 ⁰⁰
292						HALAD 322	200	lbs			8 ⁰⁰	1600 ⁰⁰
290						D-AIR	3	gal			42 ⁰⁰	126 ⁰⁰
325						STANDARD EA-2	250	sx			12 ²⁵	3062 ⁵⁰
581						SERVICE CHARGE					1 ⁵⁰	375 ⁰⁰
583						MILEAGE CHARGE	26215	TOTAL WEIGHT	100	LOADED MILES	75	983 ⁰⁰

CONTINUATION TOTAL 6902⁸¹

JOB LOG

SWIFT Services, Inc.

DATE DEC 16 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE

GAND TWIN 4-17

JOB TYPE

5 1/2 LONGSTRING

TICKET NO.

30083

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							ON LOCATION
	0945							START PIPE - 5 1/2 15.5" RTD @ 5050 LTD 5055 SHOEST. 21' CENT. 1,2,4,6,8,10,12,14,16 BASKET # 8
	1212							DROP BALL - CIRCULATE.
	1233	6	12		✓		300	Pump 500 gal MWD FLUSH
		6	20		✓		300	Pump 20 Bbl KCL SPACER
	1239		7.5					PLUG RH-30sx, MH-20sx
	1246	4 1/2	48 1/2		✓			MIX 200 SX EA-2
	1301							WASH OUT Pump & LINES.
	1304	6 1/2			✓		100	START DISPLACING PLUG
	1325	Ø	119		✓		1500	PLUG DOWN - LATCH PLUG IN.
	1326							RELEASE PSI - DRY
	1330							WASH TRUCK
	1400							JOB COMPLETE THANKS #115
								JASON DAVE JOHN



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny Co KS

P.O. Box 299
Garden City KS
67846

Gano 4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 00:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3619.00 ft (KB) To 3679.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3679.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 764.19 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date:

2016.11.23

Last Calib.:

2016.11.23

Start Time: 15:33:15

End Time:

00:24:15

Time On Btm:

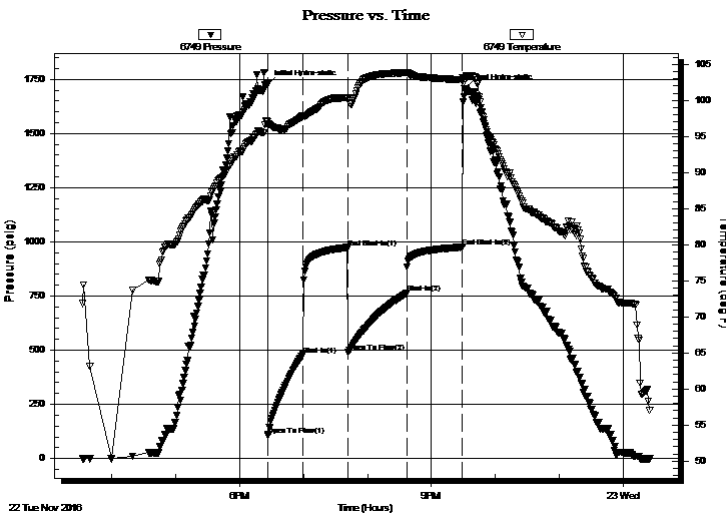
2016.11.22 @ 18:26:30

Time Off Btm:

2016.11.22 @ 21:31:00

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 3 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.36	97.06	Initial Hydro-static
1	106.27	96.63	Open To Flow (1)
33	479.16	97.83	Shut-In(1)
75	974.20	100.36	End Shut-In(1)
76	490.71	100.23	Open To Flow (2)
131	764.19	103.84	Shut-In(2)
183	975.45	102.83	End Shut-In(2)
185	1706.64	102.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny Co KS

P.O. Box 299
Garden City KS
67846

Gano 4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
236.00	sw 100% sw	1.161
620.00	ocmw 3%o5%m 92%w	8.697
310.00	ocmw 3%o 30%m 67%w	4.348
372.00	ocw m 3%o 47%w 50%m	5.218
0.00	6" free oil	0.000

Total Length: 1538.00 ft Total Volume: 19.424 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

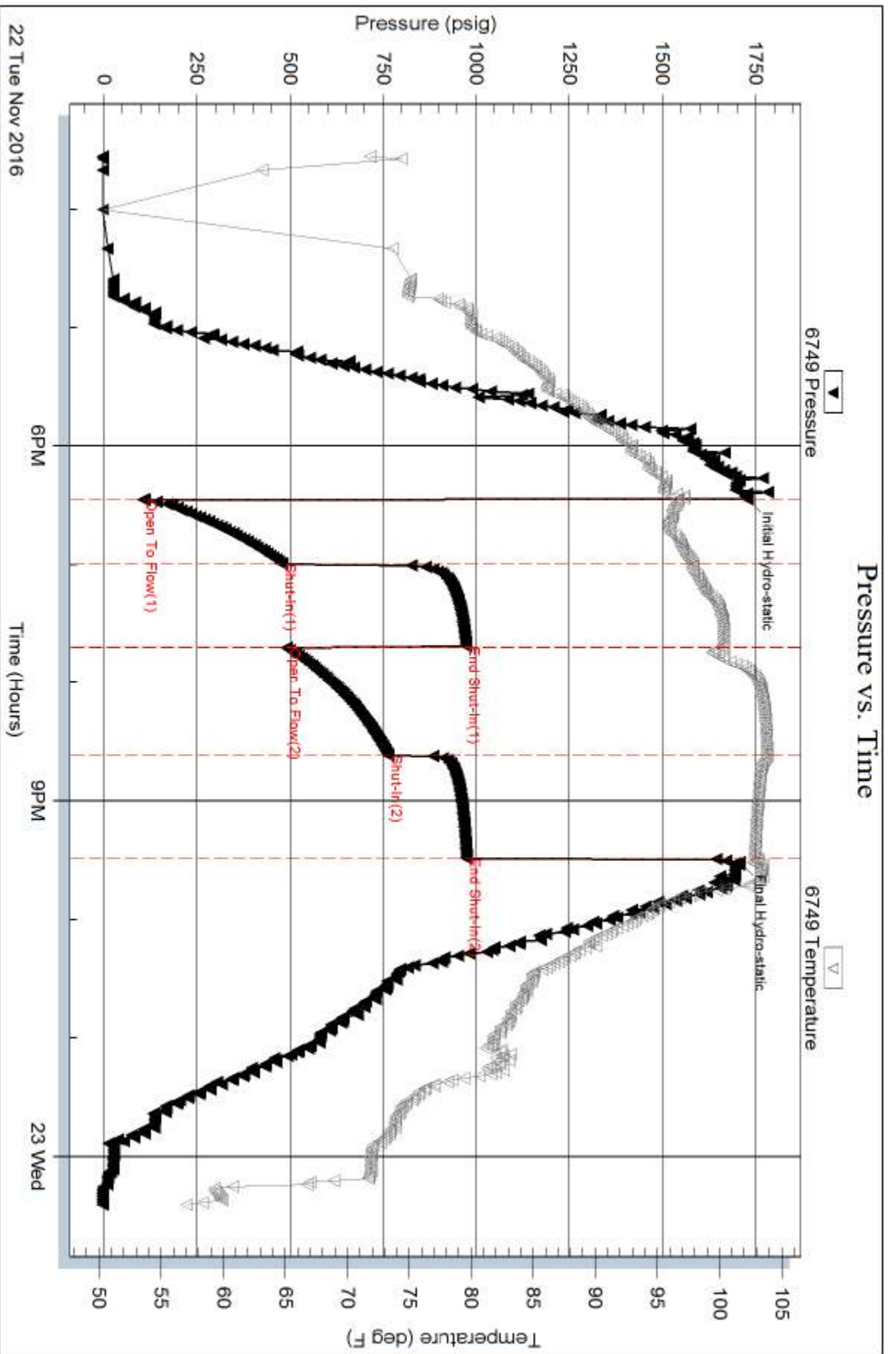
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 24 @ 50 corrected to 23

RW= .375@ 47.3= 25,000 ppm



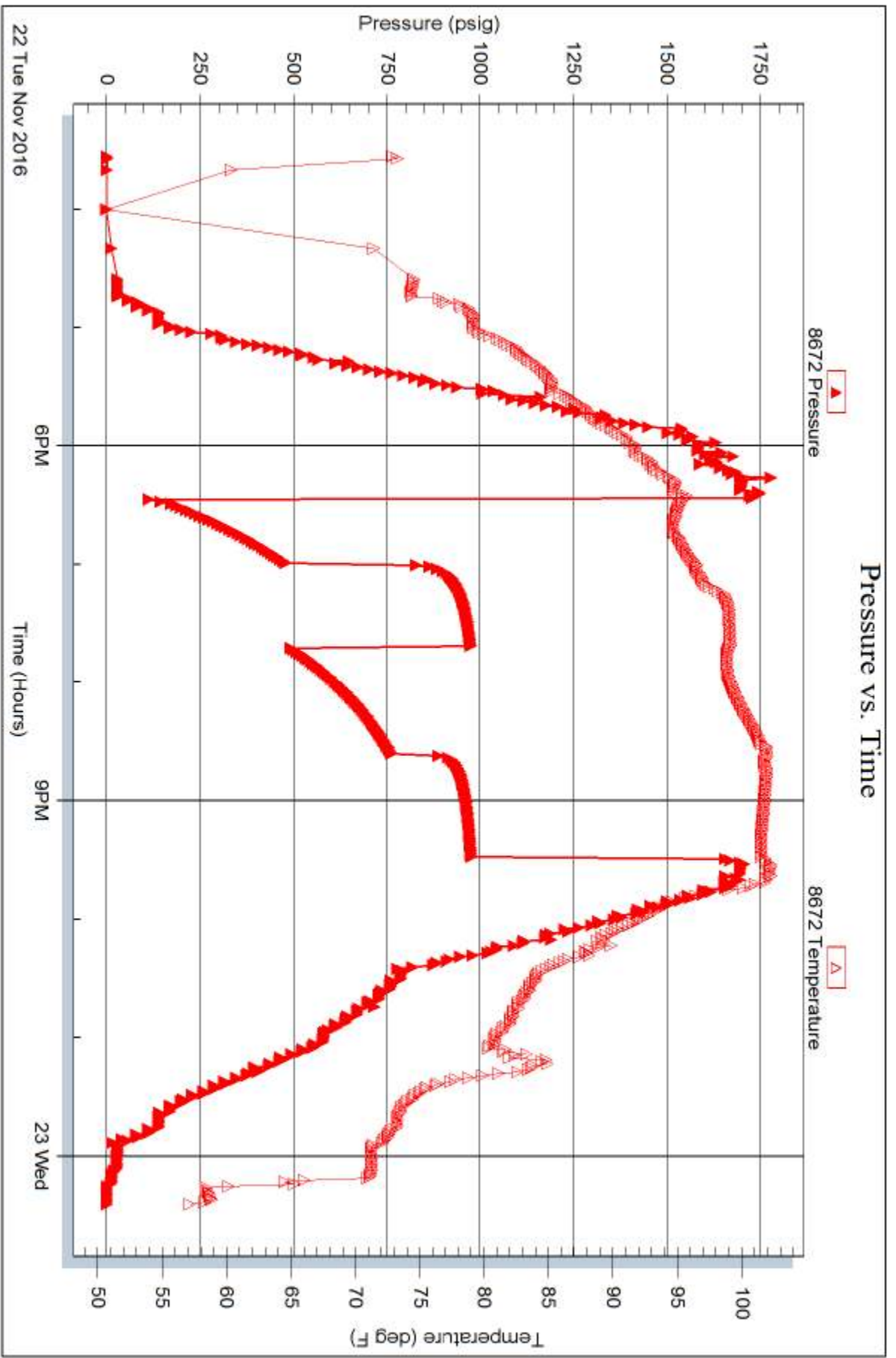
Serial #: 8672

Inside

American Warrior Inc.

Gano 4-17 Tw in

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65676

Printed: 2016.11.23 @ 07:25:03

Geological Report

American Warrior, Inc.

Gano #4-17 Twin

2273' FSL & 1806' FWL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #4-17 Twin
2273' FSL & 1806' FWL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21946-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: November 16, 2016

Completion Date: December 1, 2016

Elevation 3025' G.L.
3036' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 3.3 miles South on Hwy 25 – Now go 0.7 mile West on Rd.120 – Now go 1 mile South on Rd. S – Now go 1.5 mile West on Rd. 110 to the lease road – South into by steel grain bins, Now go South 0.6 miles to location.

Casing: 1772' 8 5/8" #23 Surface Casing
5040' 5 1/2" #15.5 Production Casing

Samples: 3550' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

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

Drillstem Tests: Six-Trilobite Testing "Mike Roberts"

Problems: none encountered

Formation Tops

Gano #4-17 Twin

Sec. 17, T25s, R36w

2273' FSL & 1806' FWL

Heebner	3622' -586
Toronto	3634' -598
Lansing	3668' -632
Stark	4011' -975
Bkc	4179' -1143
Marmaton	4198' -1162
Pawnee	4301' -1265
Fort Scott	4336' -1300
Cherokee	4346' -1310
Morrow	4643' -1607
Miss	4788' -1752
RTD	5050' -2014
LTD	5055' -2019

Sample Zone Descriptions

- Toronto** (3636', -600): **Covered in DST #1**
Limestone, cream, sub crystalline, chalky, occasional white Chert, poor to fair scattered pinpoint vuggy porosity, strong odor, fair show of free oil in porosity, poor stain and saturation, good flush cut.
- Lansing D** (3795', -759): **Covered in DST #2**
Limestone, cream, sub to fine crystalline, slight chalky, sub oolitic in parts, scattered Dolomitic recrystallization, fair pinpoint vuggy porosity, good odor, fair stain and saturation, fair stream cut. Gas 45 units hotwire.
- Lansing E** (3815', -779): **Covered in DST #2**
Limestone, gray/tan/cream, sub crystalline, fossil hash, scattered pinpoint vuggy porosity, fair odor, fair stain and saturation, slow string cut. Gas 80 units hotwire.
- Lansing K** (4025', -989): **Covered in DST #3**
Limestone, tan, oolitic packstone, chalky, good oomoldic porosity, fair odor, show of free oil in porosity, fair stain and saturation, good flush cut. Gas 80 units hotwire.
- Marmaton** (4250', -1214): **Covered in DST #4**
Limestone, cream/tan/gray, oolitic hash, chalky, fair oolitic porosity, strong odor, fair stain, good saturation, show of free oil in porosity, good stream cut. Gas 100+ units hotwire.
- Pawnee** (4320', -1284): **Covered in DST #5**
Limestone, cream, sub crystalline, sub oolitic fossil hash, scat poor vuggy/oolitic porosity, fair odor, poor stain, fair saturation, fair stream cut. Gas 65 units hotwire.
- Morrow** (4765', -1729): **Covered in DST #6**
Sandstone, gray/green, fine grain, sub round to sub angular, fair to poor sorting, poor to fair cementation, glauconitic, fair inter crystalline porosity, strong odor, good show of free oil in porosity, good stain, excellent saturation, excellent flush cut.

Drill Stem Tests

Trilobite Testing

“Mike Roberts”

DST #1

Toronto

Interval (3619' – 3679') Anchor Length 60'

IHP - 1726 #

IFP - 30" – BOB 2 min

ISI - 45" – No Return

FFP - 45" – BOB 45 sec

FSIP - 60" – No Return

FHP - 1707 #

BHT - 103° F

Recovery: 6" Free Oil

372' OCWM 3% O

310' OCMW 3% O

620' OCMW 3% O

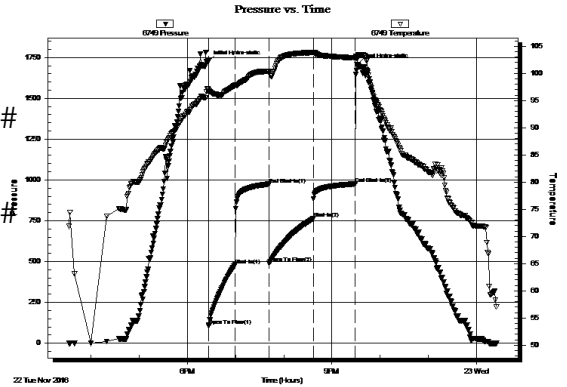
236' W

106-479#

974#

491-764#

975#



DST #2

Lansing D-E

Interval (3791' – 3821') Anchor Length 30'

IHP - 1813 #

IFP - 30" – BOB 10 min

ISI - 45" – Built to 1/8"

FFP - 45" – BOB 15 min

FSIP - 60" – Built to 1/2"

FHP - 1793 #

BHT - 104° F

Recovery: 248' GIP

278' GCO 80% O

124' WCGOM 5% O

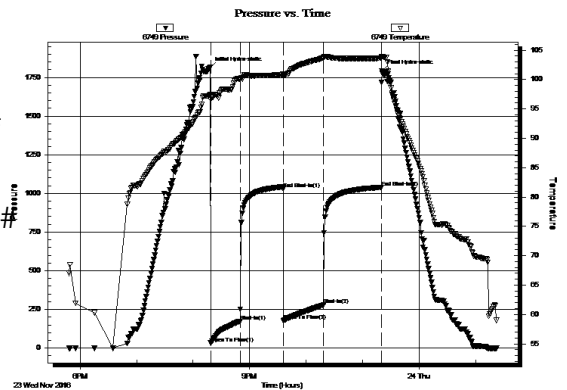
236' OCMW 3% O

33-174#

1030#

178-279#

1039#



DST #3

Lansing K

Interval (4004' – 4028') Anchor Length 24'

IHP - 1932 #

IFP - 30" – Built to 3 1/2"

ISI - 30" – No Return

FFP - 30" – Built to 1"

FSIP - 30" – No Return

FHP - 1908 #

BHT - 107° F

Recovery: 120' MCW

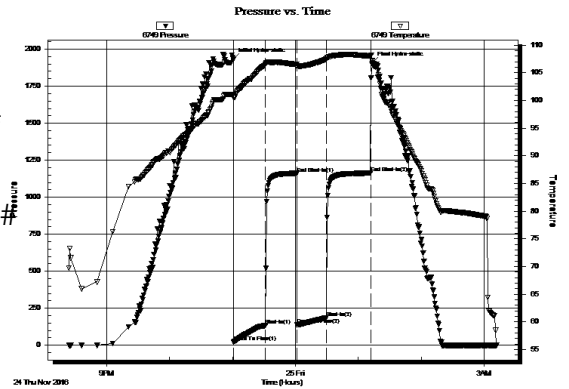
302' WCM

22-134#

1158#

137-185#

1163#



DST #4

Marmaton

Interval (4248' – 4258') Anchor Length 10'

IHP - 2088 #

IFP - 30" – BOB 2 min

ISI - 45" – BOB 18 min

FFP - 45" – BOB instantly

FSIP - 60" – BOB 18 min

FHP - 2088 #

BHT - 105° F

Recovery: 1612' GIP

732' GCO

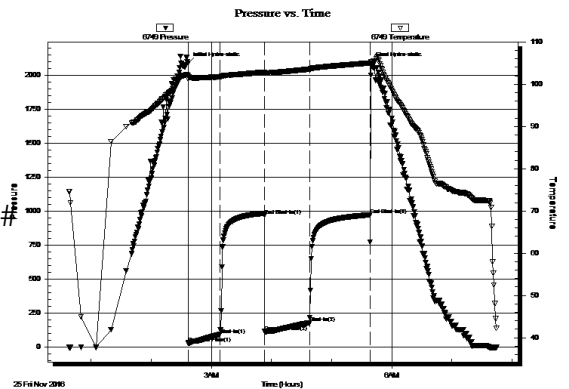
90% O

29-92#

970#

114-179#

973#



DST #5

Pawnee (straddle test)

Interval (4308' – 4326') Anchor Length 18', 23' Tail Pipe

IHP - 2143 #

IFP - 30" – Built to 1/8"

ISI - 30" – No Return

FFP - 10" – No Blow

FSIP - Pulled Test

FHP - 2115 #

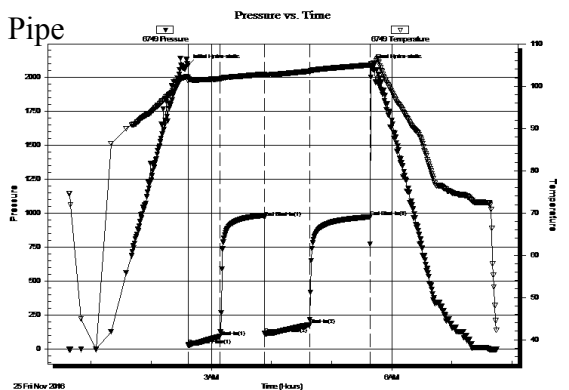
BHT - 105° F

Recovery: 5' M with Oil spots in Tool

20-23#

634#

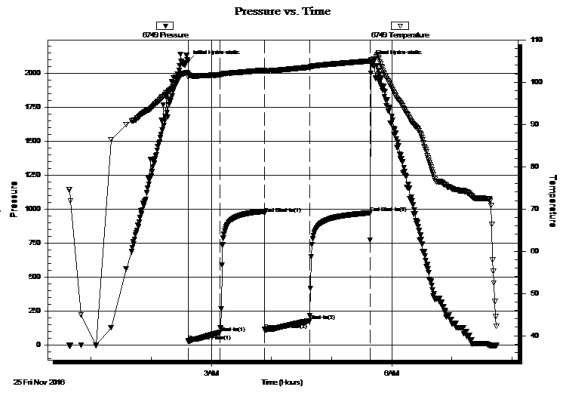
23-24#



DST #6 **Morrow**

Interval (4712' – 4800')
IHP - 2417 #
IFP - 30" – Built to 1/2"
ISI - 30" – No Return
FFP - 10" – No Blow
FSIP - Pulled Test
FHP - 2362 #
BHT - 115° F
Recovery: 60' M

62-83#
1018#
143-97#



Structural Comparison

	American Warrior, Inc. Gano #4-17 Twin Sec. 17, T25s, R36w 2273' FSL & 1806' FWL		American Warrior, Inc. Gano #3-17 Sec. 17, T25s, R36w 1512' FSL & 2603' FEL		Pan American Petro Corp Campbell #1 Sec. 18, T25s, R36w 4620' FSL & 660' FEL
Formation					
Heebner	3622' -586	+5	3627' -591	+5	3627' -591
Lansing	3668' -632	+6	3674' -638	+8	3676' -640
Stark	4011' -975	+7	4018' -982	+6	4017' -981
BKC	4179' -1143	+3	4182' -1146	+7	4186' -1150
Marmaton	4198' -1162	+8	4206' -1170	+14	4212' -1176
Pawnee	4301' -1265	+6	4307' -1271	+6	4307' -1271
Fort Scott	4336' -1300	+4	4340' -1304	+5	4341' -1305
Cherokee	4346' -1310	+5	4351' -1315	+7	4353' -1317
Morrow	4643' -1607	0	4643' -1607	-5	4638' -1602
Miss	4788' -1752	0	4788' -1752	-14	4774' -1738

Summary

The location for the Gano #4-17 Twin well was found via 3-D seismic survey. The new well ran structurally as expected. Six 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 Gano #4-17 Twin well.

Perforations

Primary:	Morrow	(4760' – 4768')
	Marmaton	(4248' – 4258')
Secondary:	Marmaton	(4239' – 4244')
	Lansing E	(3814' – 3818')
	Lansing D	(3788' – 3794')

Before Abandonment:	Lansing A	(3668' – 3673')
	Toronto	(3634' – 3640')
	Toronto	(3640' – 3644')

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.22 @ 15:33:15

End Date: 2016.11.23 @ 00:24:15

Job Ticket #: 65676 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:13:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 00:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3619.00 ft (KB) To 3679.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3679.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 764.19 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date:

2016.11.23

Last Calib.: 2016.11.23

Start Time: 15:33:15

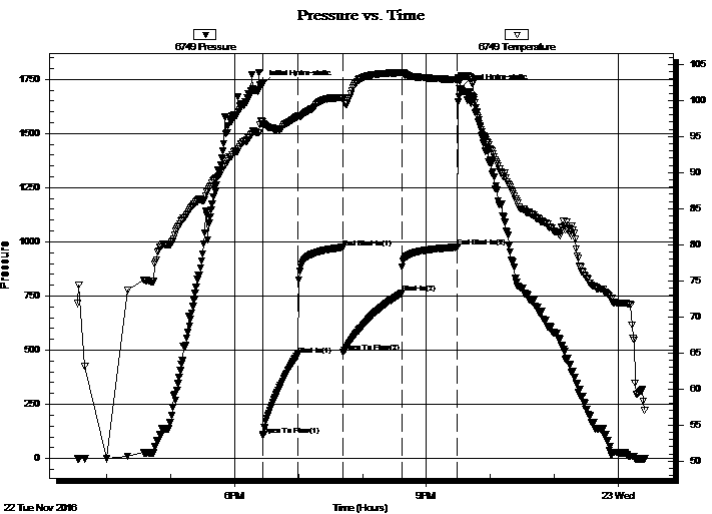
End Time:

00:24:15

Time On Btm: 2016.11.22 @ 18:26:30

Time Off Btm: 2016.11.22 @ 21:31:00

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 3 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.36	97.06	Initial Hydro-static
1	106.27	96.63	Open To Flow (1)
33	479.16	97.83	Shut-In(1)
75	974.20	100.36	End Shut-In(1)
76	490.71	100.23	Open To Flow (2)
131	764.19	103.84	Shut-In(2)
183	975.45	102.83	End Shut-In(2)
185	1706.64	102.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	sw 100% sw	1.16
620.00	ocmw 3%o5%m 92%w	8.70
310.00	ocmw 3%o 30%m 67%w	4.35
372.00	ocw m 3%o 47%w 50%m	5.22
0.00	6" free oil	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

Tool Information

Drill Pipe:	Length: 3369.00 ft	Diameter: 3.80 inches	Volume: 47.26 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3619.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	84.00 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			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Jars	5.00			3611.00	
Safety Joint	3.00			3614.00	
Packer	5.00			3619.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			3619.00	
Stubb	1.00			3620.00	
Perforations	5.00			3625.00	
Change Over Sub	1.00			3626.00	
Drill Pipe	32.00			3658.00	
Change Over Sub	1.00			3659.00	
Recorder	0.00	8672	Inside	3659.00	
Recorder	0.00	6749	Outside	3659.00	
Perforations	15.00			3674.00	
Bullnose	5.00			3679.00	60.00 Anchor Tool
Total Tool Length:	84.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65676

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.11.22 @ 15:33:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
236.00	sw 100% sw	1.161
620.00	ocmw 3%o5%m 92%w	8.697
310.00	ocmw 3%o 30%m 67%w	4.348
372.00	ocw m 3%o 47%w 50%m	5.218
0.00	6" free oil	0.000

Total Length: 1538.00 ft Total Volume: 19.424 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

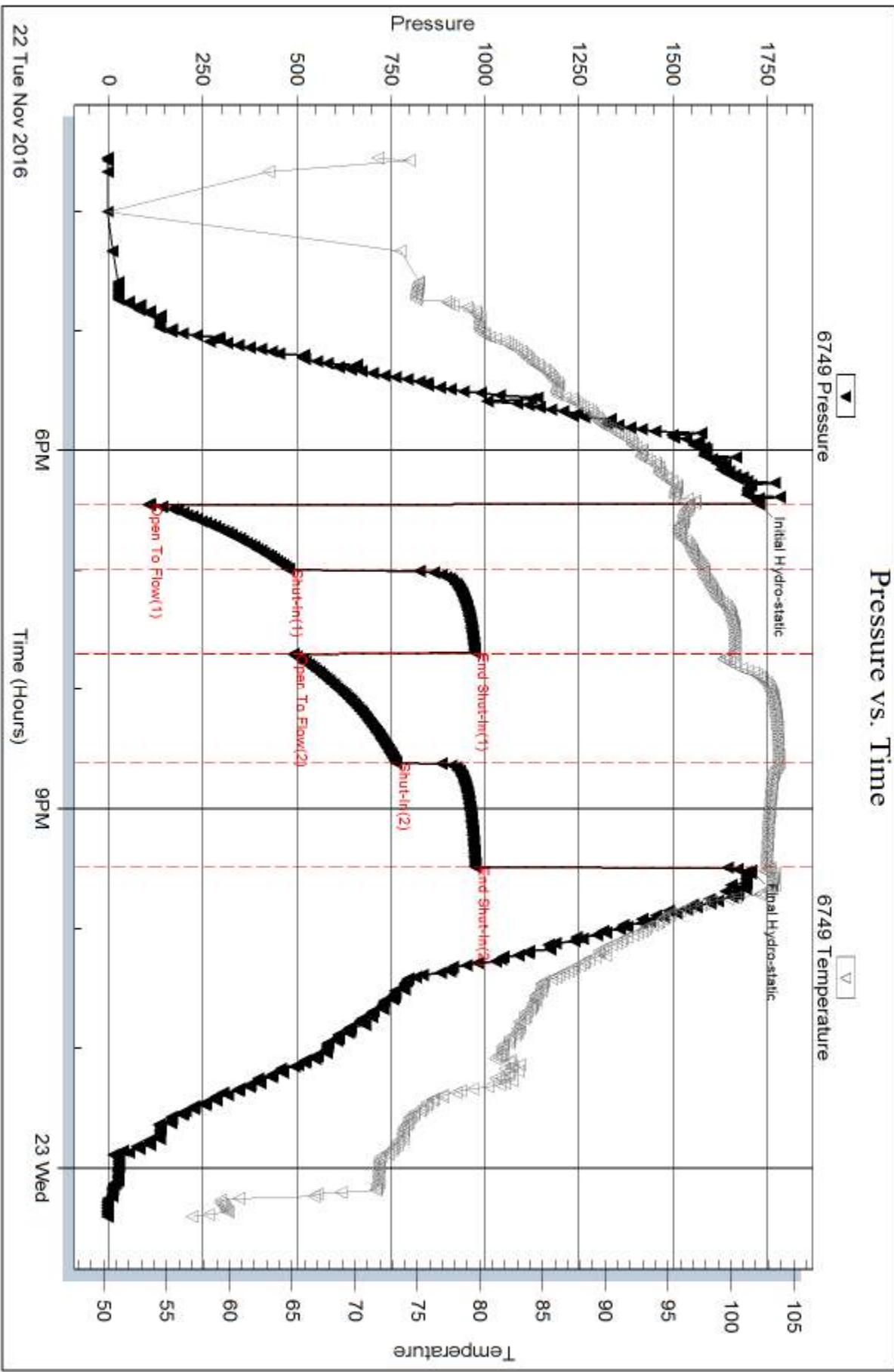
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 24 @ 50 corrected to 23

RW= .375@ 47.3= 25,000 ppm



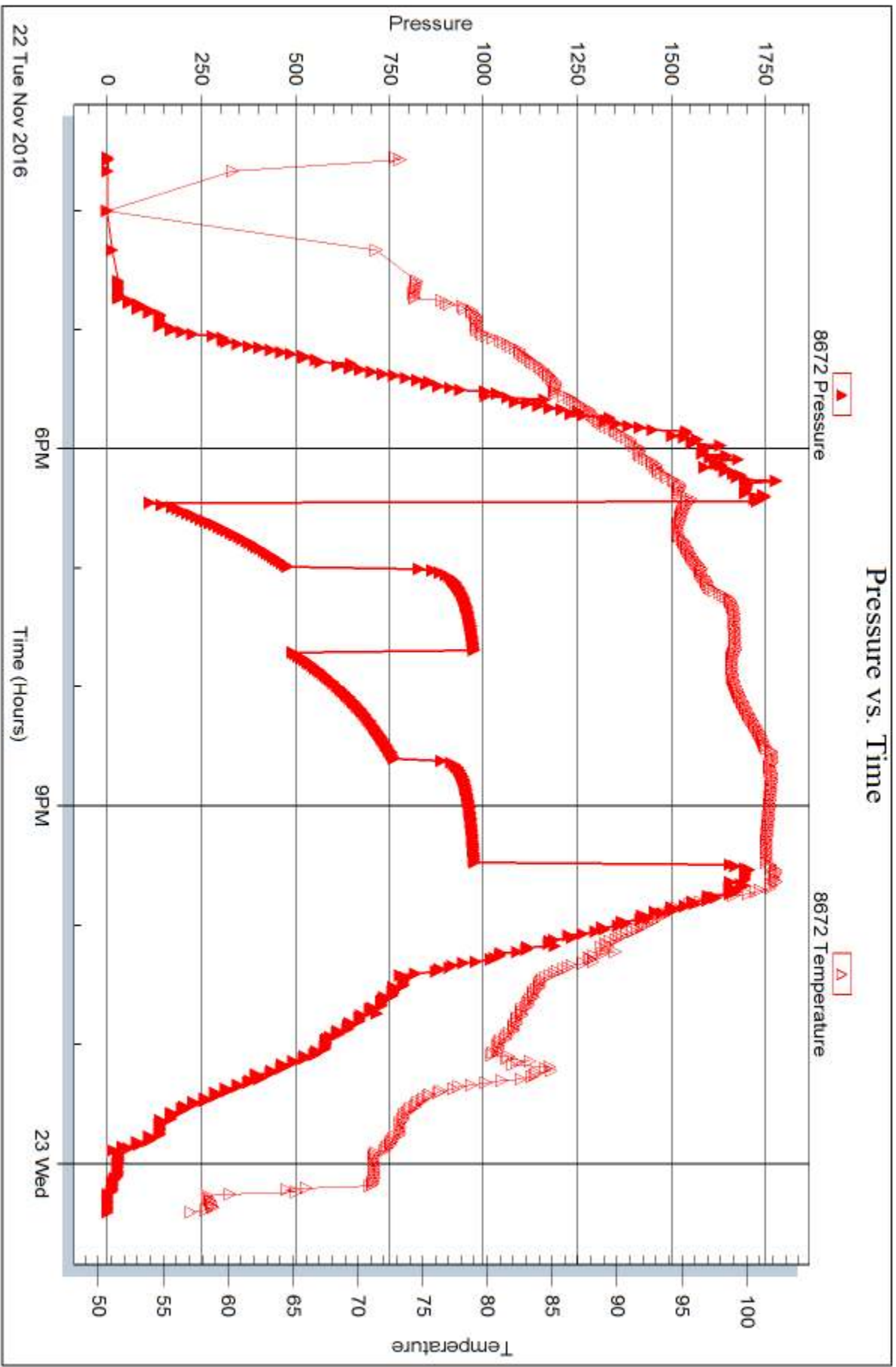
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.23 @ 17:48:15

End Date: 2016.11.24 @ 01:22:30

Job Ticket #: 65677 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:12:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:18:30

Time Test Ended: 01:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3791.00 ft (KB) To 3821.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 3821.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 278.75 psig @ 3792.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.23

End Date:

2016.11.24

Last Calib.: 2016.11.24

Start Time: 17:48:15

End Time:

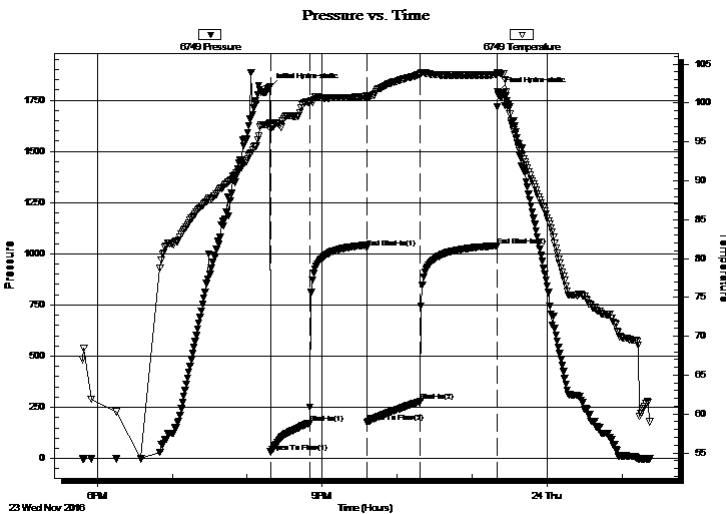
01:22:30

Time On Btm: 2016.11.23 @ 20:18:15

Time Off Btm: 2016.11.23 @ 23:20:30

TEST COMMENT: IF: BOB in 10 min.
IS: Return blow built to 1/8" blow
FF: BOB in 15 min.
FS: Return blow built to 1/2" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.22	97.40	Initial Hydro-static
1	32.62	96.53	Open To Flow (1)
32	173.52	100.15	Shut-In(1)
78	1030.47	100.90	End Shut-In(1)
78	177.54	100.67	Open To Flow (2)
121	278.75	103.72	Shut-In(2)
182	1038.81	103.62	End Shut-In(2)
183	1793.21	103.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	ocmw 3%o 10%m 87%w	1.16
124.00	w cgom 3%w 5%g 5%o 87%m	1.74
278.00	gco 20%g 80%o	3.90
0.00	248 ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3791.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	53.00 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			3768.00	
Shut In Tool	5.00			3773.00	
Hydraulic tool	5.00			3778.00	
Jars	5.00			3783.00	
Safety Joint	3.00			3786.00	
Packer	5.00			3791.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			3791.00	
Stubb	1.00			3792.00	
Recorder	0.00	8672	Inside	3792.00	
Recorder	0.00	6749	Outside	3792.00	
Perforations	23.00			3815.00	
Bullnose	5.00			3820.00	29.00 Anchor Tool

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65677

DST#: 2

ATTN: Luke Thompson

Test Start: 2016.11.23 @ 17:48:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.54 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 32 deg API
Water Salinity: 26000 ppm

Recovery Information

Recovery Table

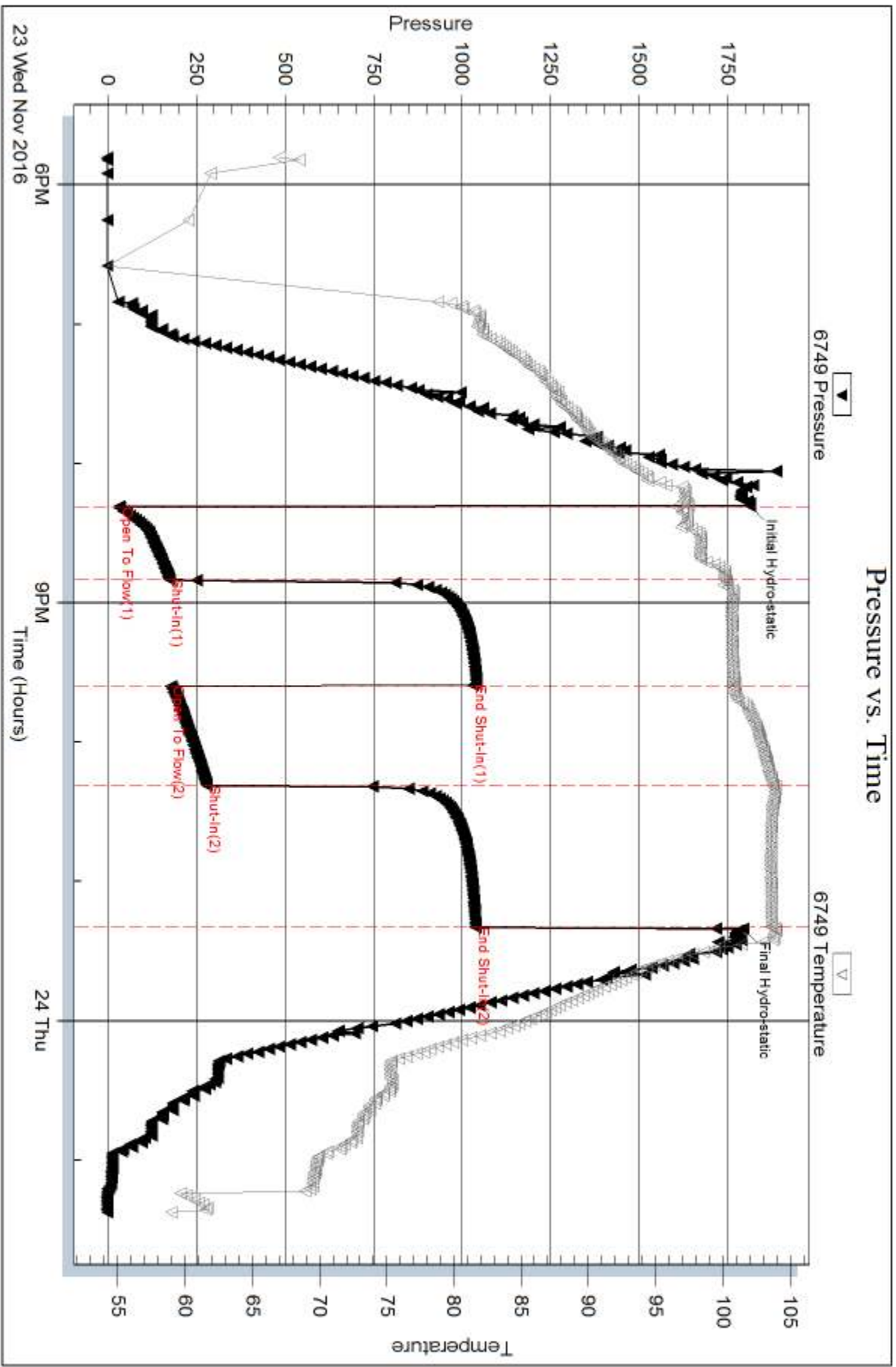
Length ft	Description	Volume bbl
236.00	ocmw 3%o 10%m 87%w	1.161
124.00	w cgom 3%w 5%g 5%o 87%m	1.739
278.00	gco 20%g 80%o	3.900
0.00	248 ft GIP	0.000

Total Length: 638.00 ft Total Volume: 6.800 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API= 31 @ 50 corrected to 32
RW= .379@50.4 = 26000



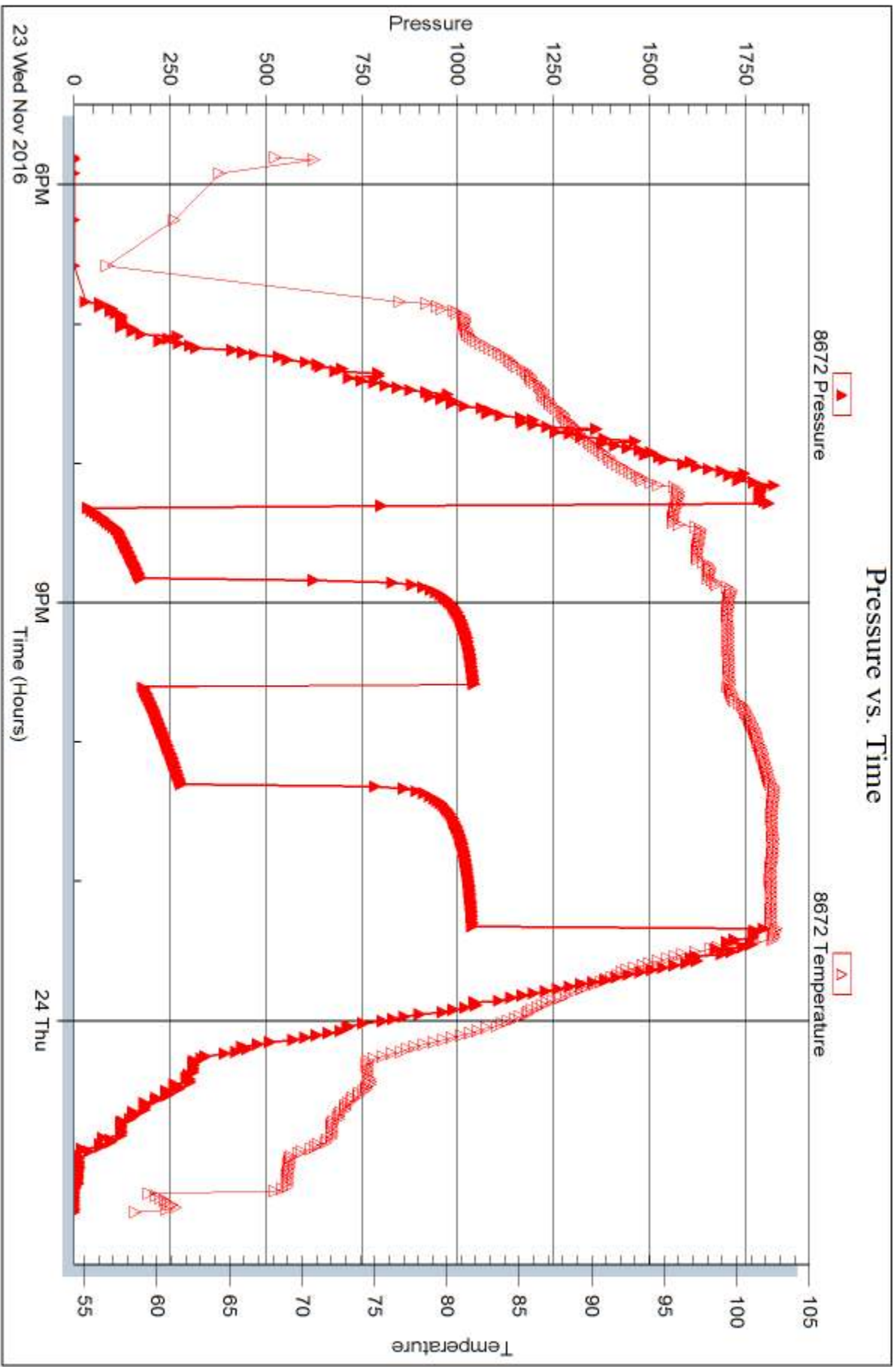
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 65677

Printed: 2016.11.30 @ 15:12:39



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.24 @ 20:24:15

End Date: 2016.11.25 @ 03:11:30

Job Ticket #: 65678 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:11:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:01:00

Time Test Ended: 03:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4004.00 ft (KB) To 4028.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4028.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 185.19 psig @ 4005.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date:

2016.11.25

Last Calib.: 2016.11.25

Start Time: 20:24:15

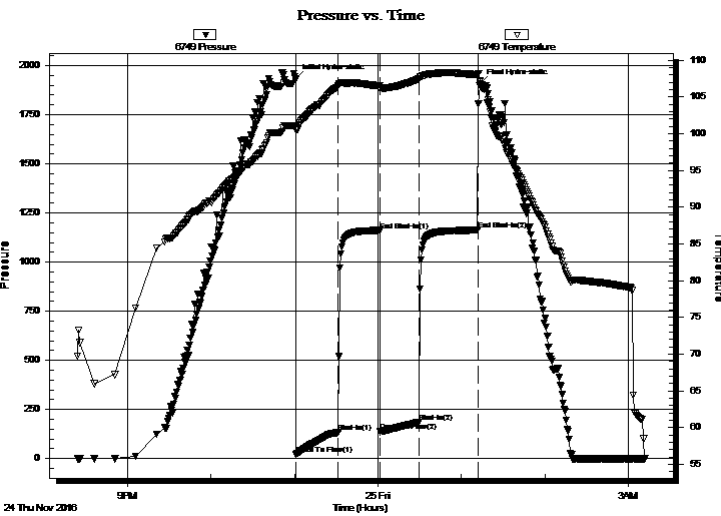
End Time:

03:11:30

Time On Btm: 2016.11.24 @ 23:00:45

Time Off Btm: 2016.11.25 @ 01:13:15

TEST COMMENT: IF: Built to 3 1/2" blow
IS: No return blow
FF: Built to 1" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.74	101.08	Initial Hydro-static
1	22.24	100.53	Open To Flow (1)
31	133.73	106.52	Shut-In(1)
61	1158.22	106.51	End Shut-In(1)
61	136.74	106.18	Open To Flow (2)
89	185.19	107.49	Shut-In(2)
131	1162.62	108.06	End Shut-In(2)
133	1907.80	107.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 20% m 80% w	0.59
302.00	w cm 30% w 70% m	3.18

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4004.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Jars	5.00			3992.00	
Safety Joint	3.00			3995.00	
Packer	5.00			4000.00	28.00 Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Recorder	0.00	8672	Inside	4005.00	
Recorder	0.00	6749	Outside	4005.00	
Perforations	18.00			4023.00	
Bullnose	5.00			4028.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65678

DST#: 3

ATTN: Luke Thompson

Test Start: 2016.11.24 @ 20:24:15

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:

26500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	mcw 20%m 80%w	0.590
302.00	w cm 30%w 70%m	3.180

Total Length: 422.00 ft Total Volume: 3.770 bbl

Num Fluid Samples: 0

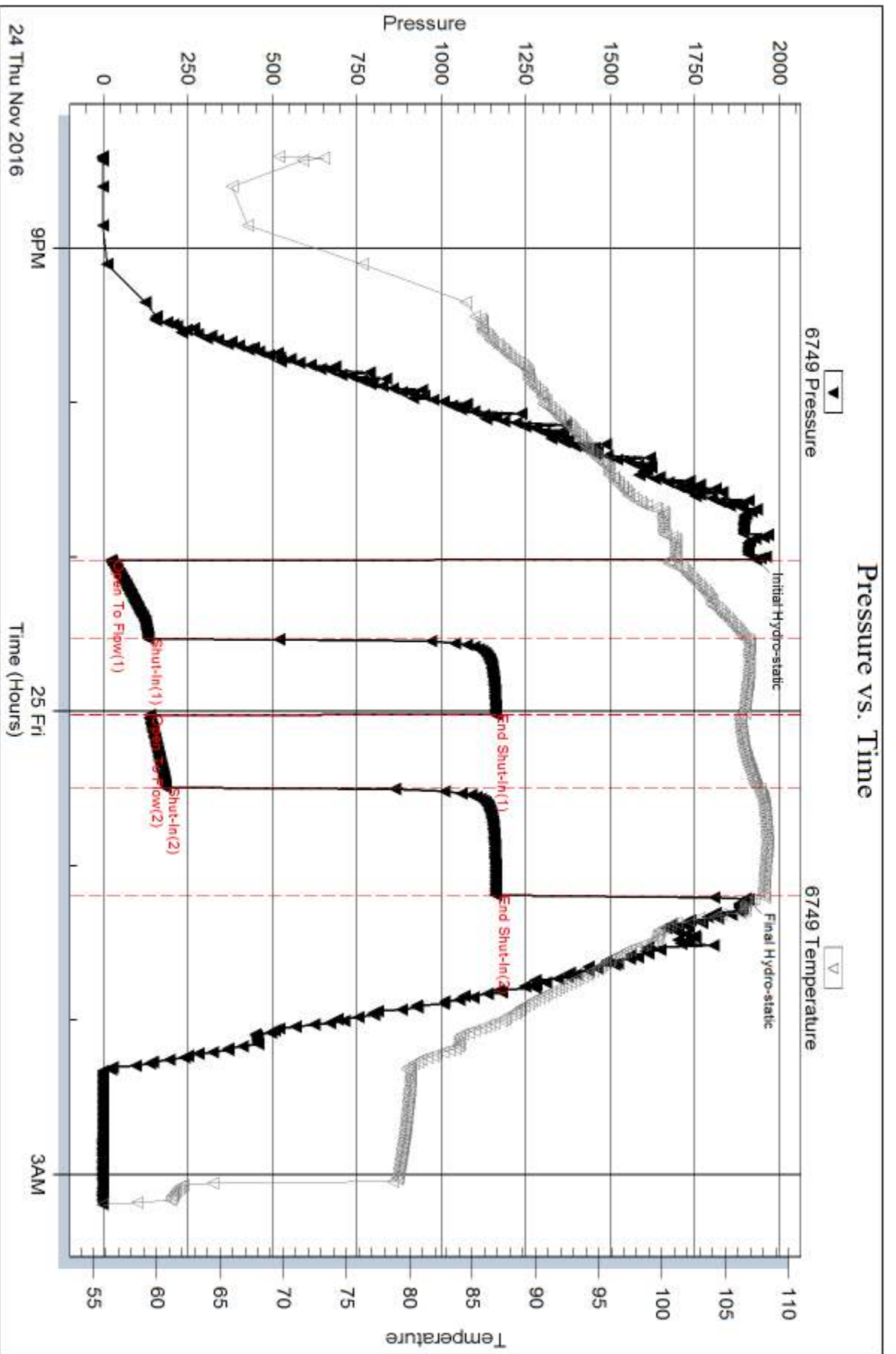
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .387@49.8=26500 ppm



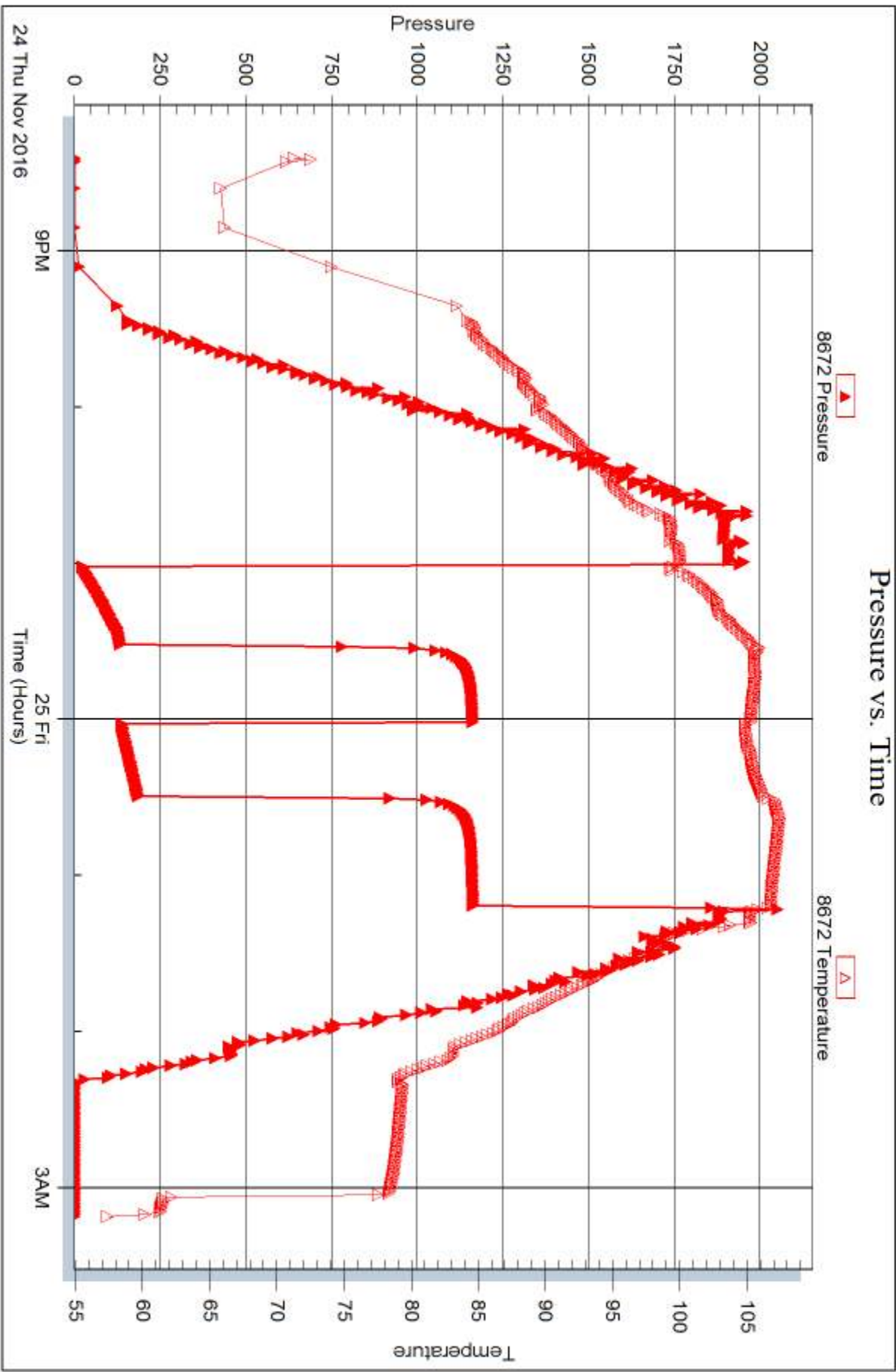
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65678

Printed: 2016.11.30 @ 15:11:11



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.25 @ 00:38:15

End Date: 2016.11.25 @ 07:44:15

Job Ticket #: 65679 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:10:40

American Warrior Inc.

17-25s-36w Kearny,KS

Gano #4-17 Twin

DST # 4

Marmaton

2016.11.25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:37:00

Time Test Ended: 07:44:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4248.00 ft (KB) To 4258.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4258.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 179.29 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.25

End Date:

2016.11.25

Last Calib.:

2016.11.26

Start Time: 00:38:15

End Time:

07:44:15

Time On Btm:

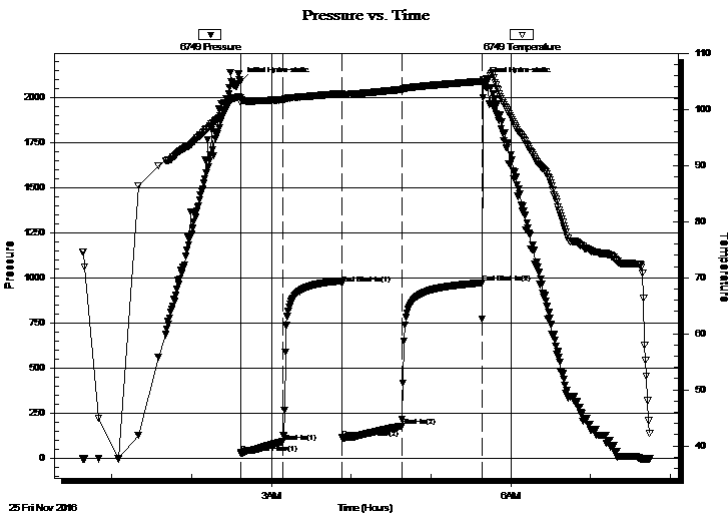
2016.11.25 @ 02:36:45

Time Off Btm:

2016.11.25 @ 05:39:15

TEST COMMENT: IF:BOB in 2 min.
IS:BOB in 18 min.
FF:BOB instantly
FS:BOB in 18 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.08	102.13	Initial Hydro-static
1	28.96	101.23	Open To Flow (1)
32	92.47	101.75	Shut-In(1)
77	969.72	102.85	End Shut-In(1)
77	114.38	102.61	Open To Flow (2)
122	179.29	103.57	Shut-In(2)
182	973.13	105.03	End Shut-In(2)
183	2088.18	105.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
732.00	gco 10%g 90%0	8.12
0.00	1612 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

Tool Information

Drill Pipe:	Length: 3994.00 ft	Diameter: 3.80 inches	Volume: 56.03 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4248.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
Safety Joint	3.00			4239.00	
Packer	5.00			4244.00	28.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8672	Inside	4249.00	
Recorder	0.00	6749	Outside	4249.00	
Perforations	4.00			4253.00	
Bullnose	5.00			4258.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65679

DST#: 4

ATTN: Luke Thompson

Test Start: 2016.11.25 @ 00:38:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
732.00	gco 10%g 90%0	8.118
0.00	1612 GIP	0.000

Total Length: 732.00 ft Total Volume: 8.118 bbl

Num Fluid Samples: 0

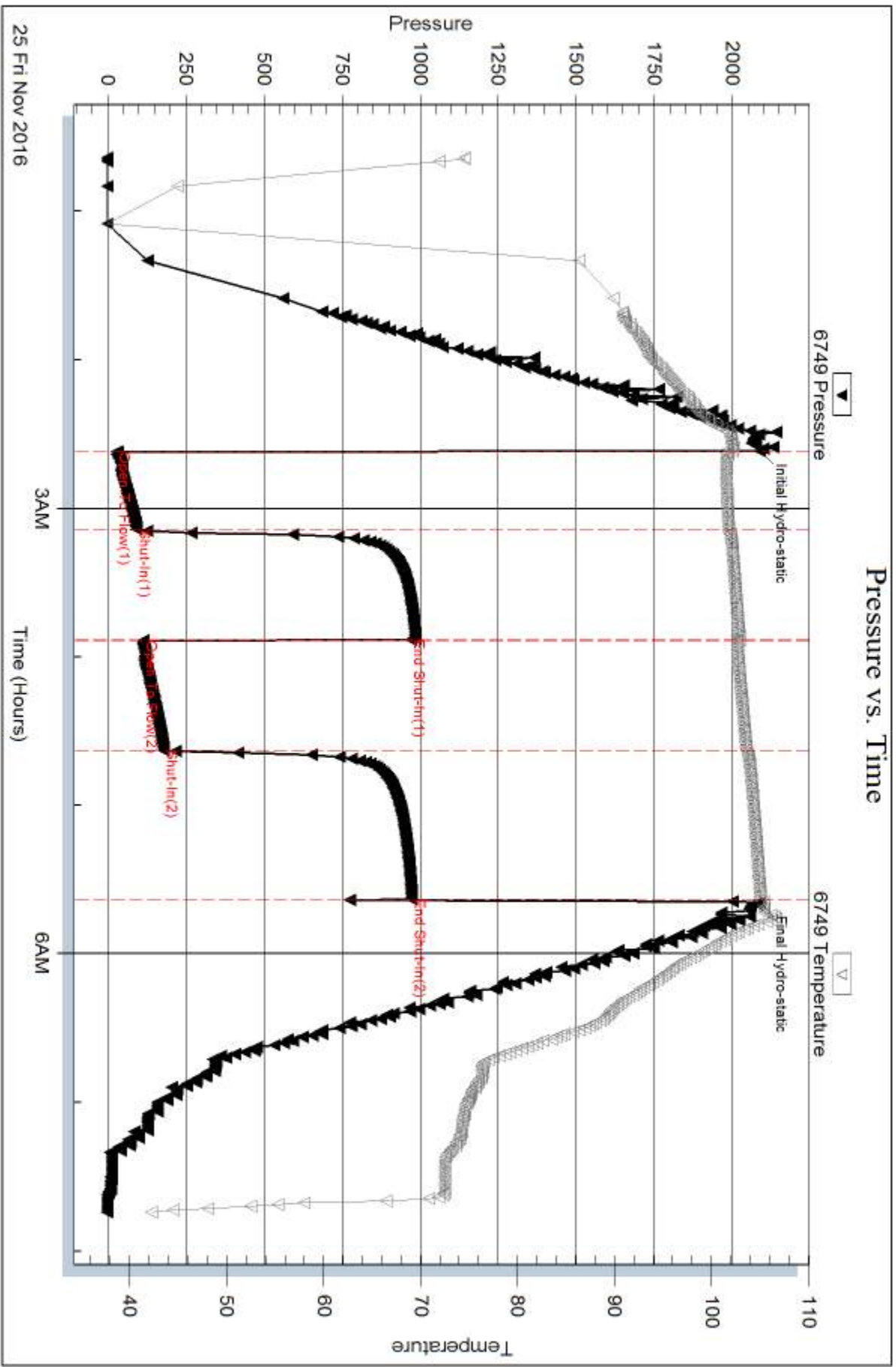
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31 @ 30 corrected to 34 @60



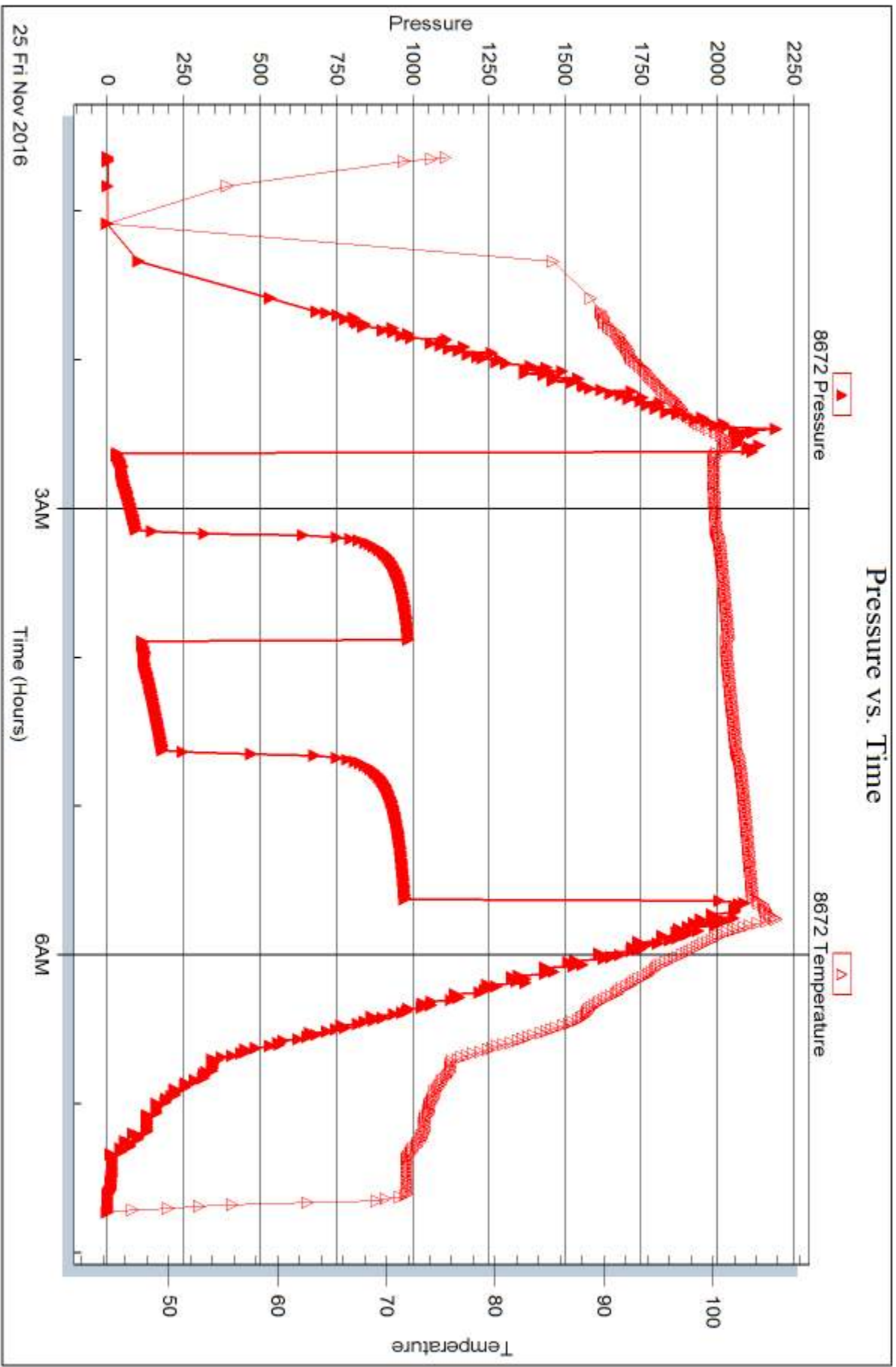
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65679

Printed: 2016.11.30 @ 15:10:41



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.26 @ 23:47:15

End Date: 2016.11.27 @ 05:12:15

Job Ticket #: 65680 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:09:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:54:45

Time Test Ended: 05:12:15

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4308.00 ft (KB) To 4326.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4349.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 22.61 psig @ 4312.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.26 End Date: 2016.11.27

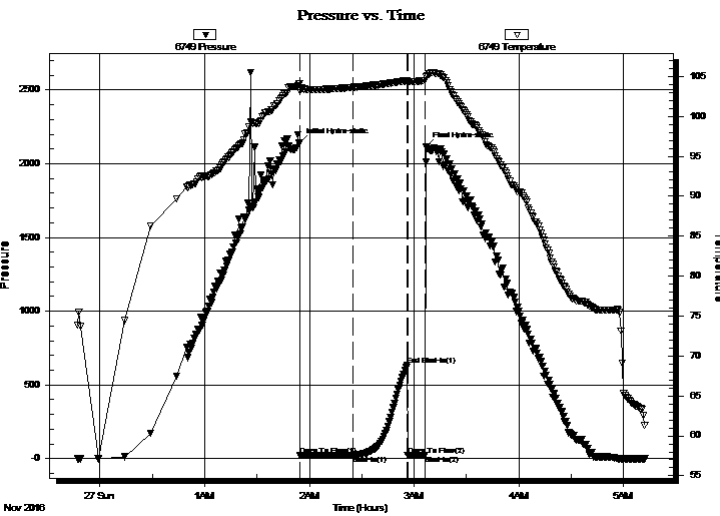
Last Calib.: 2016.11.27

Start Time: 23:47:15 End Time: 05:12:15

Time On Btm: 2016.11.27 @ 01:54:30

Time Off Btm: 2016.11.27 @ 03:07:00

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: Pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.42	104.09	Initial Hydro-static
1	19.99	103.20	Open To Flow (1)
31	22.61	103.64	Shut-In(1)
62	634.31	104.46	End Shut-In(1)
62	22.90	104.27	Open To Flow (2)
72	23.69	104.48	Shut-In(2)
73	2115.34	105.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m with oil spots in tool	0.02

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.80 inches	Volume: 56.92 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4308.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4349.00 ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 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			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Jars	5.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	28.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Perforations	3.00			4312.00	
Recorder	0.00	8672	Inside	4312.00	
Recorder	0.00	6749	Outside	4312.00	
Perforations	10.00			4322.00	
Blank Off Sub	1.00			4323.00	
Packer - Shale	3.00			4326.00	
Stubb	1.00			4327.00	
Perforations	17.00			4344.00	
Recorder	0.00	8673	Inside	4344.00	
Bullnose	5.00			4349.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65680

DST#: 5

ATTN: Luke Thompson

Test Start: 2016.11.26 @ 23:47:15

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:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100% m with oil spots in tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

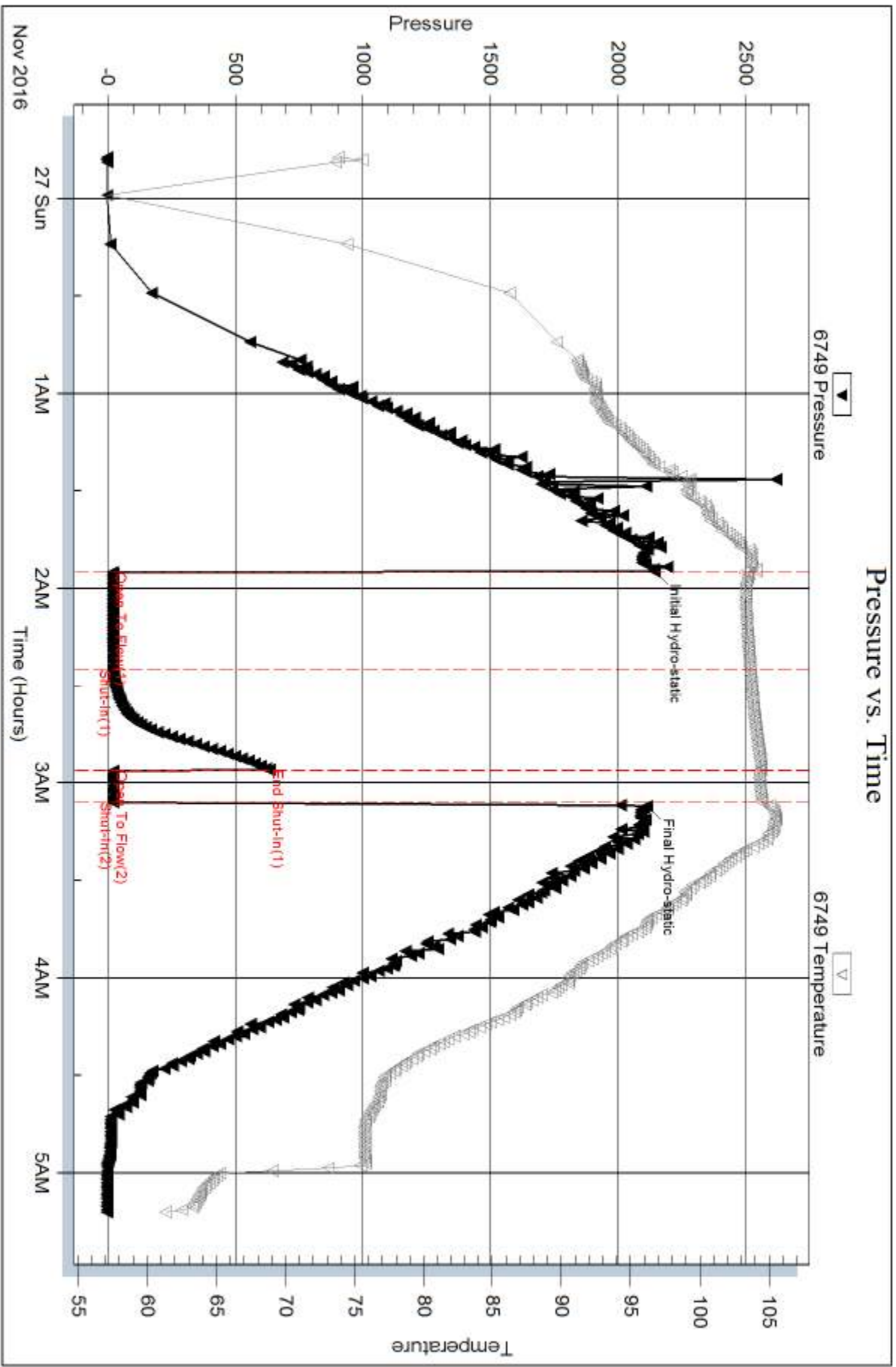
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



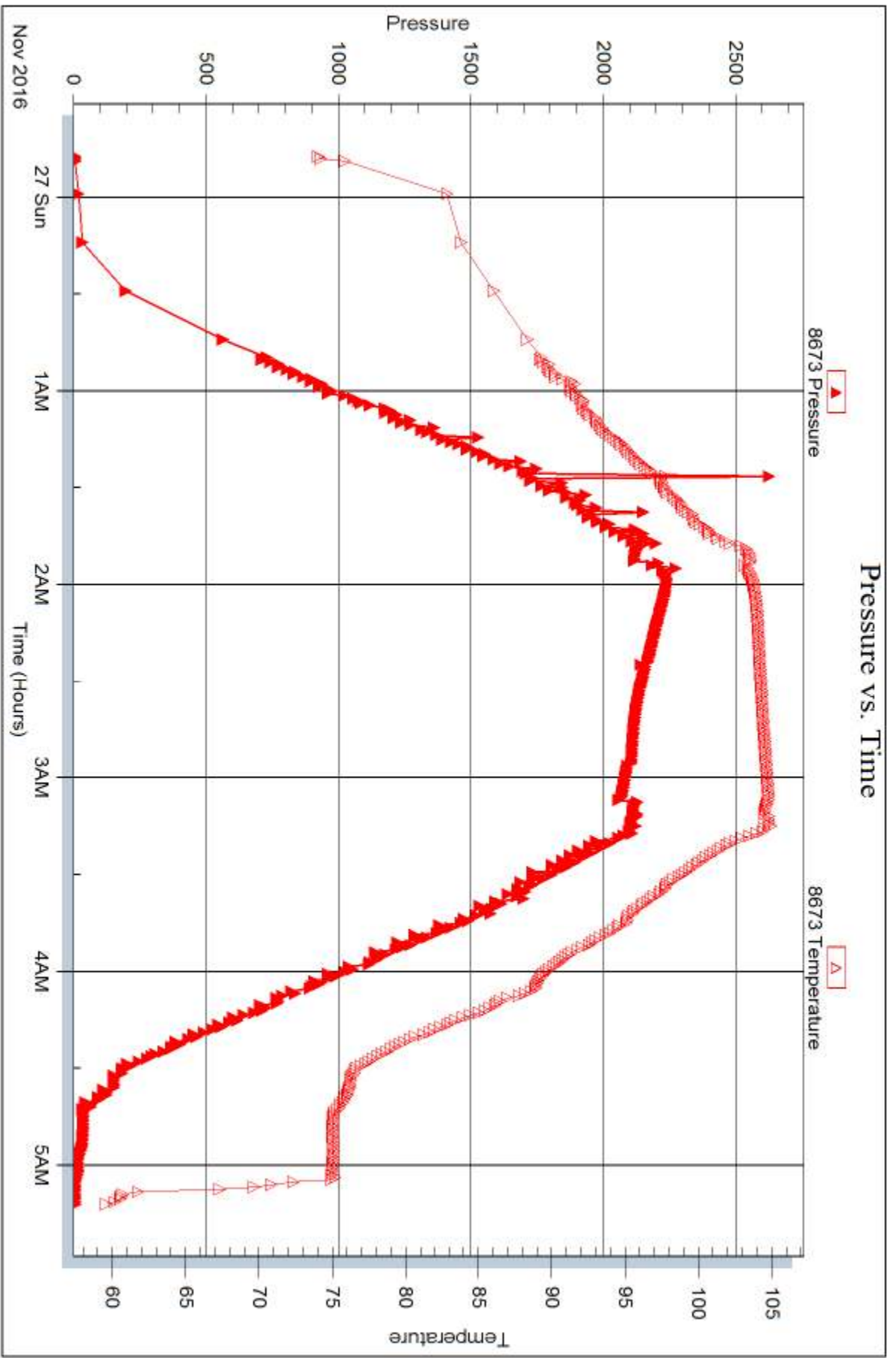
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Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 65680

Printed: 2016.11.30 @ 15:09:24

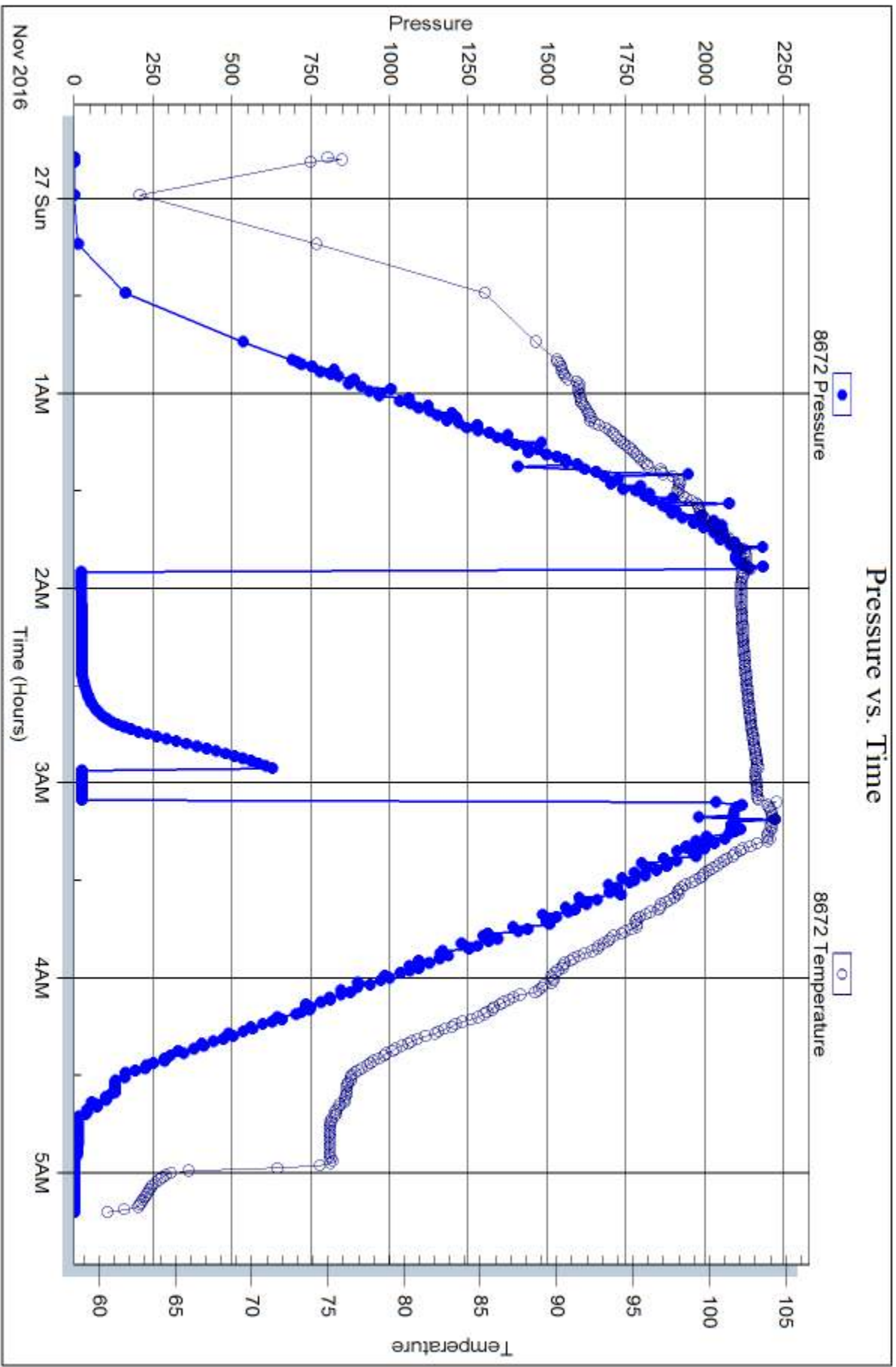
Serial #: 8672

Inside

American Warrior Inc.

Gano #4-17 Tw in

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65680

Printed: 2016.11.30 @ 15:09:24



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 299
Garden City KS 67846

ATTN: Luke Thompson

Gano #4-17 Twin

17-25s-36w Kearny,KS

Start Date: 2016.11.28 @ 01:03:00

End Date: 2016.11.28 @ 07:29:45

Job Ticket #: 65681 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.11.30 @ 15:07:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:30

Time Test Ended: 07:29:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 47112.0 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 3036.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

3026.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6749 Outside

Press@RunDepth: 82.84 psig @ 4780.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.28

End Date: 2016.11.28

Last Calib.: 2016.11.29

Start Time: 01:03:00

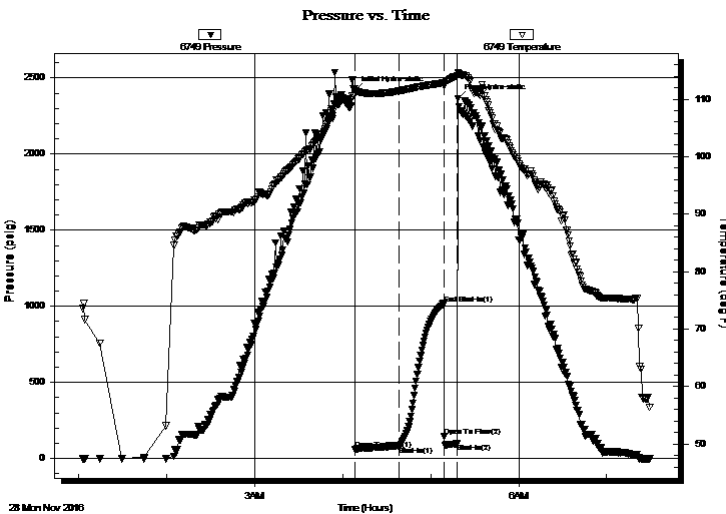
End Time: 07:29:45

Time On Btm: 2016.11.28 @ 04:08:15

Time Off Btm: 2016.11.28 @ 05:18:45

TEST COMMENT: IF: Built to 1/2" blow
IS: No return blow
FF: No blow
FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2416.51	111.86	Initial Hydro-static
1	62.39	110.74	Open To Flow (1)
31	82.84	111.42	Shut-In(1)
61	1017.50	112.80	End Shut-In(1)
61	143.49	112.34	Open To Flow (2)
70	97.10	114.07	Shut-In(2)
71	2362.20	114.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100%m	0.30

* 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.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

Tool Information

Drill Pipe:	Length: 4467.00 ft	Diameter: 3.80 inches	Volume: 62.66 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4712.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	112.00 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			4689.00	
Shut In Tool	5.00			4694.00	
Hydraulic tool	5.00			4699.00	
Jars	5.00			4704.00	
Safety Joint	3.00			4707.00	
Packer	5.00			4712.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4712.00	
Stubb	1.00			4713.00	
Perforations	2.00			4715.00	
Change Over Sub	1.00			4716.00	
Drill Pipe	63.00			4779.00	
Change Over Sub	1.00			4780.00	
Recorder	0.00	8672	Inside	4780.00	
Recorder	0.00	6749	Outside	4780.00	
Perforations	15.00			4795.00	
Bullnose	5.00			4800.00	88.00 Anchor Tool
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-25s-36w Kearny,KS

P.O. Box 299
Garden City KS 67846

Gano #4-17 Twin

Job Ticket: 65681

DST#: 6

ATTN: Luke Thompson

Test Start: 2016.11.28 @ 01:03:00

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

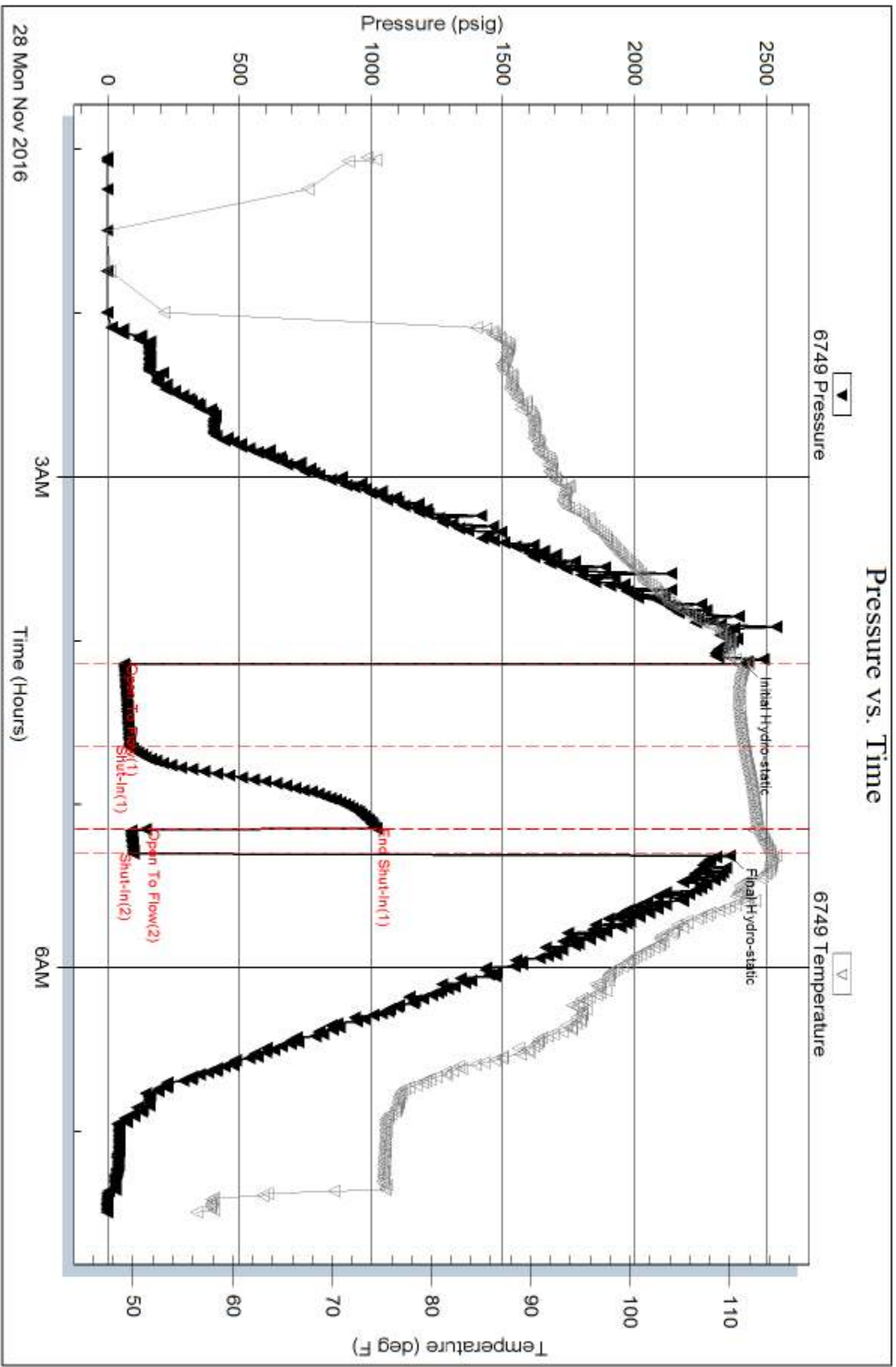
Recovery Comments:

Serial #: 6749

Outside American Warrior Inc.

Gano #4-17 Tw in

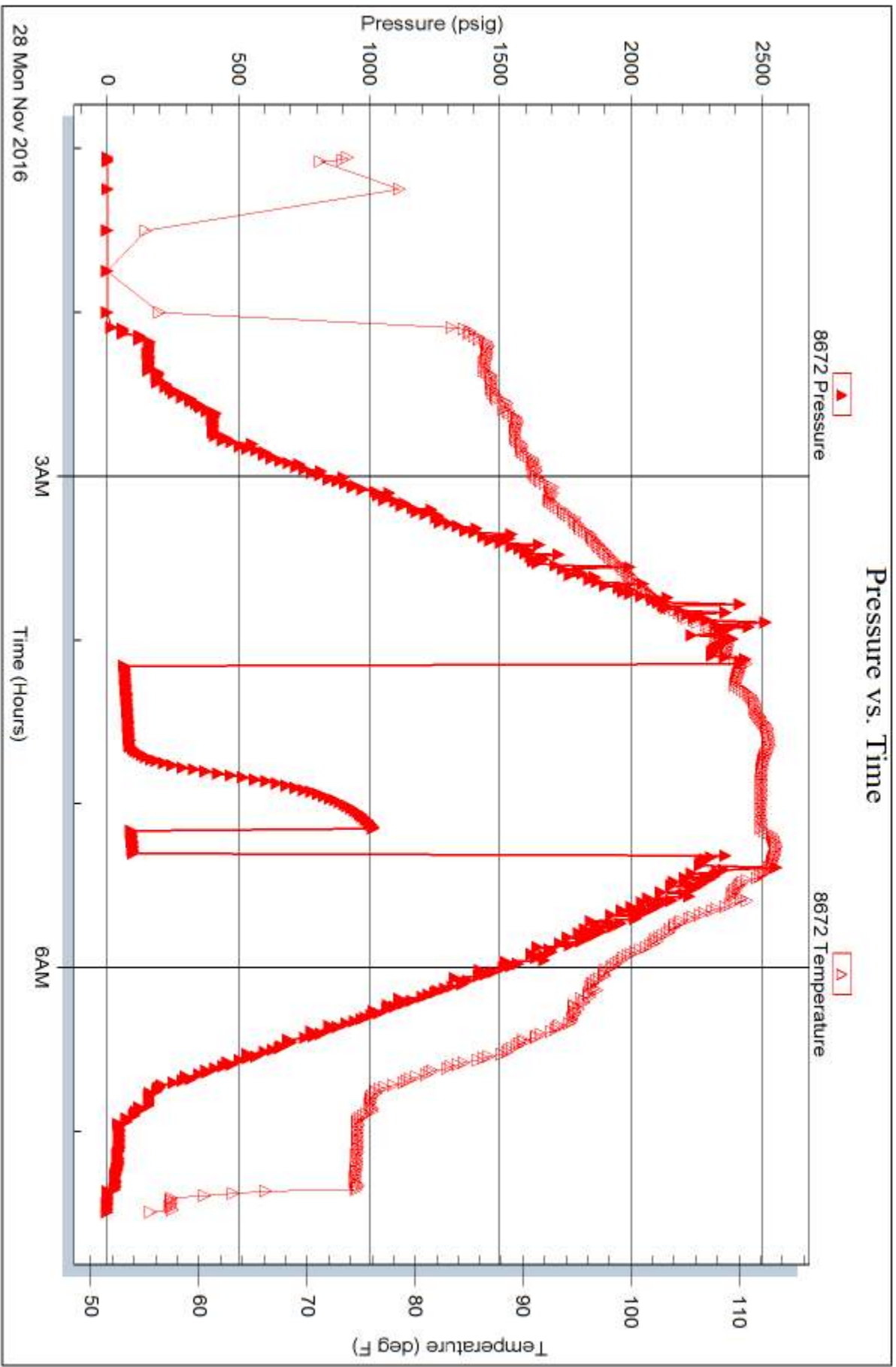
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65681

Printed: 2016.11.30 @ 15:07:04





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65676**

Well Name & No. Gano 4-17 Twin Test No. 1 Date 11-22-16
 Company American Warrior Inc Elevation 3036 KB 3024 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25s Rge. 36w Co. ~~Franklin~~ Kearny State KS

Interval Tested 3619-3679 Zone Tested Toronto
 Anchor Length 60 Drill Pipe Run 3369 Mud Wt. 8.8
 Top Packer Depth 3614 Drill Collars Run 236 Vis 55
 Bottom Packer Depth 3619 Wt. Pipe Run Ø WL 8.0
 Total Depth 3679 Chlorides 1600 ppm System LCM 2
 Blow Description IF: BOB in 2 Min
IS: No Return Blow
FF: BOB in 3 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>6" Free Oil</u>	<u>100</u>			
<u>372</u>	<u>Feet of OCLWM</u>	<u>3</u>	<u>47</u>	<u>50</u>	
<u>310</u>	<u>Feet of OCMW</u>	<u>3</u>	<u>67</u>	<u>30</u>	
<u>620</u>	<u>Feet of OCMW</u>	<u>3</u>	<u>92</u>	<u>5</u>	
<u>236</u>	<u>Feet of SW</u>		<u>100</u>		

Rec Total 1538 BHT 103 Gravity 23 API RW 1375 @ 47.7% Chlorides 25000 ppm

(A) Initial Hydrostatic 1726 Test \$1050.00/- T-On Location 13:50
 (B) First Initial Flow 106 Jars \$250.00/- T-Started 15:33
 (C) First Final Flow 479 Safety Joint \$75.00/- T-Open 18:27
 (D) Initial Shut-In 974 Circ Sub NC T-Pulled 21:27
 (E) Second Initial Flow 490 Hourly Standby _____ T-Out 00:24
 (F) Second Final Flow 764 Mileage 150RT = \$200.00/- Comments _____
 (G) Final Shut-In 975 Sampler 112.50 _____
 (H) Final Hydrostatic 1706 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$250.00/- Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1737.50
 Accessibility 1737.50 MP/DST Disc't _____
 Sub Total \$1825.00/-

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65677**

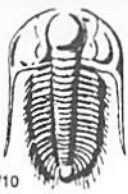
Well Name & No. Grano 4-17 Twin Test No. 2 Date 11-23-16
 Company American Warrior Inc Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25s Rge. 36w Co. Kearny State KS

Interval Tested 3791-3821 Zone Tested Kansing
 Anchor Length 29 Drill Pipe Run 3555 Mud Wt. 8.9
 Top Packer Depth 3786 Drill Collars Run 236 Vis 52
 Bottom Packer Depth 3791 Wt. Pipe Run 0 WL 7.6
 Total Depth 3821 Chlorides 3500 ppm System LCM 2
 Blow Description IF: BOB in 10 Min
IS: Return Blow Built to 1/8'
FF: BOB in 15 Min
FS:

Rec	Feet of	%gas	%oil	%water	%mud
<u>278</u>	<u>9c0</u>	<u>20</u>	<u>80</u>		
<u>124</u>	<u>gcmwcom</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>87</u>
<u>236</u>	<u>0cmw (collars)</u>		<u>3</u>	<u>87</u>	<u>10</u>
<u>0</u>	<u>248 GIP</u>	<u>100</u>			

Rec Total 638 BHT 104 Gravity 32 API RW 379 @ 50.4 F Chlorides 26000 ppm
 (A) Initial Hydrostatic 1813 Test \$ 1050.00 T-On Location 16:30
 (B) First Initial Flow 32 Jars \$ 250.00 T-Started ~~17:48~~ 17:48?
 (C) First Final Flow 173 Safety Joint \$ 75.00 T-Open ~~18:20~~ 20:20
 (D) Initial Shut-In 1030 Circ Sub NC T-Pulled 23:20
 (E) Second Initial Flow 177 Hourly Standby _____ T-Out 01:22
 (F) Second Final Flow 278 Mileage 150 RT \$ 200.00 Comments _____
 (G) Final Shut-In 1038 Sampler _____ 112.50 _____
 (H) Final Hydrostatic 1793 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$ 250.00 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1737.50
 Accessibility _____ 1737.50 MP/DST Disc't _____
 Sub Total \$ 1825.00

Approved By _____ Our Representative Mite Roberts
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65678**

Well Name & No. Gano 4-17 Twin Test No. 3 Date 11-24-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36W Co. Kearny State KS

Interval Tested 4004-4028 Zone Tested K
 Anchor Length 24 Drill Pipe Run 3745 Mud Wt. 8.9
 Top Packer Depth 3999 Drill Collars Run 236 Vis 58
 Bottom Packer Depth 4004 Wt. Pipe Run Ø WL 6.8
 Total Depth 4028 Chlorides 3900 ppm System LCM 2
 Blow Description IF: Built to 3 1/2" Blow
FS: No Return Blow
FF: Built to 1" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>302</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>120</u>	<u>MCSW</u>		<u>80</u>	<u>20</u>	

Rec Total 422 BHT 108 Gravity — API RW 387 @ 49.1° F Chlorides 26500 ppm

(A) Initial Hydrostatic <u>1931</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00</u>	T-On Location <u>19:20</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00</u>	T-Started <u>20:24</u>
(C) First Final Flow <u>133</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00</u>	T-Open <u>23:00</u>
(D) Initial Shut-In <u>1158</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:00</u>
(E) Second Initial Flow <u>136</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:11</u>
(F) Second Final Flow <u>185</u>	<input checked="" type="checkbox"/> Mileage <u>150 KT = \$200.00</u>	Comments
(G) Final Shut-In <u>1162</u>	<input type="checkbox"/> Sampler <u>112.50</u>	
(H) Final Hydrostatic <u>1907</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Accessibility <u>1587.50</u>	Total <u>1587.50</u>
Final Flow <u>30</u>	Sub Total <u>\$1675.00</u>	MP/DST Disc't
Final Shut-In <u>30</u>		

Approved By _____ Our Representative Alto Roberts
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65679**

Well Name & No. Grano 4-17 Twin Test No. 4 Date 11-26-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P. O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36w Co. Kearny State KS

Interval Tested 4248-4258 Zone Tested Marmaton
 Anchor Length 10 Drill Pipe Run 3994 Mud Wt. 9.1
 Top Packer Depth 4243 Drill Collars Run 236 Vis 7.2
 Bottom Packer Depth 4248 Wt. Pipe Run 0 WL 7.2
 Total Depth 4258 Chlorides 4100 ppm System LCM 2

Blow Description IF: BOB in 2 Min
IS: BOB in 18 Min
FFI BOB instantly
FS: BOB in 18 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>732</u>	<u>900</u>	<u>10</u>	<u>90</u>		
<u>0</u>	<u>GIP = 1612'</u>	<u>100</u>			

Rec Total 732 BHT Gravity 34 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2088</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>12:15</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>12:38</u>
(C) First Final Flow <u>92</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>02:38</u>
(D) Initial Shut-In <u>969</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>05:38</u>
(E) Second Initial Flow <u>114</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>07:44</u>
(F) Second Final Flow <u>179</u>	<input checked="" type="checkbox"/> Mileage <u>ISORT = \$200.00/-</u>	Comments
(G) Final Shut-In <u>973</u>	<input type="checkbox"/> Sampler <u>112.50</u>	
(H) Final Hydrostatic <u>2088</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility 1587.50

Sub Total \$1675.00/-

Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1587.50
 MP/DST Disc't

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65680**

Well Name & No. Crano 4-17-Twin Test No. 5 Date 11-27-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25 S Rge. 36 W Co. Kearny State KS

Interval Tested 4308-4326-4349 Zone Tested Pawnee
 Anchor Length 18 Drill Pipe Run 4058 Mud Wt. 9.1
 Top Packer Depth 4303 Drill Collars Run 236 Vis 64
 Bottom Packer Depth 4308 Wt. Pipe Run 6 WL 7.2
 Total Depth 4349 Chlorides 5900 ppm System LCM 3
 Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: NO Blow
FS: Pulled Test

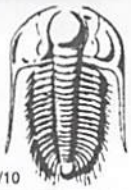
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots in tool</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 105 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2143</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>11:10</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>11:47</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>01:55</u>
(D) Initial Shut-In <u>643</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>03:10</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:12</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT = \$200.00/-</u>	Comments
(G) Final Shut-In <u>pulled test</u>	<input type="checkbox"/> Sampler <u>112.50</u>	
(H) Final Hydrostatic <u>2115</u>	<input checked="" type="checkbox"/> Straddle <u>\$600.00/-</u>	
	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>10 pull</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In	<input type="checkbox"/> Accessibility <u>2437.50</u>	Total <u>2437.50</u>
	Sub Total <u>\$2525.00/-</u>	MP/DST Disc't

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65681**

Well Name & No. Gano 4-17 Twin Test No. 6 Date 11-28-16
 Company American Warrior Inc. Elevation 3036 KB 3026 GL
 Address P.O. Box 299 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 5
 Location: Sec. 17 Twp. 25S Rge. 36w Co. Keamy State KS

Interval Tested 4712-4800 Zone Tested Morrow
 Anchor Length 88 Drill Pipe Run 4467 Mud Wt. 9.3
 Top Packer Depth 4707 Drill Collars Run 236 Vis 43
 Bottom Packer Depth 4712 Wt. Pipe Run Ø WL 9.6
 Total Depth 4800 Chlorides 4900 ppm System LCM 2

Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2416</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00/-</u>	T-On Location <u>22:30</u>
(B) First Initial Flow <u>62</u>	<input checked="" type="checkbox"/> Jars <u>\$ 250.00/-</u>	T-Started <u>01:03</u>
(C) First Final Flow <u>82</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$ 75.00/-</u>	T-Open <u>04:08</u>
(D) Initial Shut-In <u>1017</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>05:18</u>
(E) Second Initial Flow <u>143</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:15</u>
(F) Second Final Flow <u>97</u>	<input checked="" type="checkbox"/> Mileage <u>150 RT = \$ 200.00/-</u>	Comments <u>Loaded Tools</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler <u>X 2 112.50+112.50</u>	<u>11-29-16 23:00</u>
(H) Final Hydrostatic <u>2362</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$ 250.00/-</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>pull</u>	<input type="checkbox"/> Day Standby _____	Total <u>1950.00</u>
	<input type="checkbox"/> Accessibility <u>1950.00</u>	MP/DST Disc't _____
	Sub Total <u>\$1925.00/-</u>	

Approved By _____ Our Representative Mike Roberts

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