

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE 2-20
Doc ID	1346460

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE 2-20
Doc ID	1346460

Tops

Name	Top	Datum
Heebner	3664	-604
Lansing	3706	-646
B/KC	4232	-1172
Marmaton	4255	-1195
Pawnee	4350	-1290
Ft.Scott	4382	-1322
Cherokee	4392	-1332
Morrow	4695	-1635
St.Gen	4852	-1792

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEE 2-20
Doc ID	1346460

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4906'to 4961		



CHARGE TO: American Warrior

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30139

PAGE 1 OF

SERVICE LOCATIONS: 1. Ness City KS

WELL/PROJECT NO. 2-20 LEASE Lee COUNTY/PARISH Kearney STATE KS CITY Lakin DATE 1 Feb 17 OWNER

TICKET TYPE SERVICE SALES CONTRACTOR DUKE RIG NAME/NO. 5 SHIPPED VIA CT DELIVERED TO location ORDER NO.

WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement surface pipe WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE TRX 114	110	mi		5.00	550.00
576D		1			Pump Charge	1	ea		1250.00	1250.00
400		1			Guide Shoe	8 3/4	ea	1 ea	380.00	380.00
401		1			insert float w/ AUTO FILL	8 5/8	ea	1 ea	200.00	200.00
409		1			Turbolizer	8 5/8	ea	3 ea	95.00	285.00
194		1			Plug Container Rental	8 5/8	ea	1 ea	200.00	200.00
281		1			mud flush	500	gal		1.25	625.00
221		1			KCh liquid	2	gal		25.00	50.00
330		1			SMD cement	650	sk		15.75	10237.50
276		1			flocele	150	lb		2.25	337.50
581		1			service charge	650	sk		1.50	975.00
583		1			Drayage	64681		3557.481 TM	0.75	2668.11

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

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

X
DATE SIGNED TIME SIGNED A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
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	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 228.11

JOB LOG

SWIFT Services, Inc.

DATE Feb 17 PAGE/NO. 1

CUSTOMER American Well Co WELL NO. 2-20 LEASE Lee JOB TYPE Cement surface pipe TICKET NO. 30139

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								650 sk SMD cement w/ $\frac{1}{4}$ " floccle 8 $\frac{5}{8}$ " x 23" 43 joints 1829' sheet 42.21' TD = 1840'
	1430							on loc TRK 114
	1558							start 8 $\frac{5}{8}$ " x 23" casing in well
	1802							circulate well
	1830	5	12					Pump 500 gal mud flush
		5	20					Pump 20 bbl KCl flush
	1837	6	64			200		mix SMD cement $\frac{150sk}{@ 11.8 ppg}$
			114					SMD cement $\frac{300sk}{@ 12.5 ppg}$
			31					SMD cement $\frac{100sk}{@ 13.5 ppg}$
			26					SMD cement $\frac{100sk}{@ 14.5 ppg}$
			<u>240 total</u>					$\frac{650sk}{TOTAL}$
	1720	6				200		Release plug Displace plug
								no cement to surface
	1945	5 $\frac{1}{2}$	114			400		Land plug - returns throughout - - pipe jumps out of slips - - shut in 8 $\frac{5}{8}$ "
								wash truck
								call for more cement
								Back to and 1" pipe
	2010							send Bulk Bulk trucks - drain & pan truck
	2100							leave truck on location job complete



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

TICKET 30140

PAGE 1 OF 1

SERVICE LOCATIONS 1. Ness City, KS WELL/PROJECT NO. LEASE Lee COUNTY/PARISH Kearney STATE KS CITY Lakin DATE 2 Feb 17 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR DUFF RIG NAME/NO. 5 SHIPPED VIA CT DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE top off surface pipe cement WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
					MILEAGE						
<u>503</u>		<u>1</u>			<u>TRK 114</u>						
<u>328-4</u>		<u>1</u>			<u>Pick up tires</u>	<u>110</u>	<u>in</u>			<u>2.00</u>	<u>220.00</u>
<u>290</u>		<u>1</u>			<u>60/40 poly mix 4%</u>	<u>75</u>	<u>sk</u>			<u>10.25</u>	<u>768.75</u>
		<u>1</u>			<u>D-AIR</u>		<u>1 gal</u>			<u>42.00</u>	<u>42.00</u>
		<u>1</u>			<u>service charge</u>	<u>150</u>	<u>sk</u>			<u>1.50</u>	<u>225.00</u>
		<u>1</u>			<u>Drayage</u>	<u>13555</u>		<u>690.25</u>	<u>Tm</u>	<u>0.75</u>	<u>517.61</u>

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

DATE SIGNED TIME SIGNED A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				<u>1773.44</u>
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				<u>67.00</u>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				<u>1840.44</u>

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

SWIFT OPERATOR APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2 Feb 17 PAGE NO.

CUSTOMER American Warrick WELL NO. LEASE loc JOB TYPE topoff surface pipe cement TICKET NO. 30140

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk 60/40 pozmix (4% gel) 1" pipe to 100'
	0600							on loc TR4 114
		1				Ø		mix 60/40 pozmix (4% gel) @ 14.0 fpg - Returns to surface
								cement to cellar - fluid standing in cellar
								75 sk mixed
	0920							Back up wash truck job complete Thurless Blank, Flint & Dave



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

TICKET 29956

PAGE 1 OF 2

1. SERVICE LOCATIONS NESS CITY, KS	WELL/PROJECT NO. 2-20	LEASE LEE	COUNTY/PARISH KEARNY	STATE KS	CITY	DATE 2-12-17	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DUKE DRIG #5	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LONGSTRING	WELL PERMIT NO.		WELL LOCATION LARKIN, KS - 6 1/2 S, 1/2 W, NW	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 112	100	ME			5.00	500.00
578		1			PUMP CHARGE	1	JOB	5057	FT	1250.00	1250.00
221		1			LIQUID KCL	2	GAL			25.00	50.00
281		1			MUD FLXSH	500	GAL			1.25	625.00
402		1			CENTRALIZERS	10	EA	5 1/2"		60.00	600.00
403		1			CEMENT BASKET	1	EA			250.00	250.00
406		1			LATCH DOWN RIG - BAFFLE	1	EA			225.00	225.00
407		1			INSERT FLOAT SHADE w/AUTO FILL	1	EA			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 *Ronald M. [Signature]*
 DATE SIGNED: **2-12-17** TIME SIGNED: **0100** 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 #1	3800.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#2	5526.25
WE UNDERSTOOD AND MET YOUR NEEDS?				KEARNY TAX @ 5.0%	9326.25
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					422.01
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	9748.26
<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: **WAYNE WILSON** APPROVAL:

Thank You!



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

TICKET CONTINUATION

TICKET No. 29956

CUSTOMER: AMERICAN WARRIOR TAX
WELL: LEE 2-20
DATE: 2-12-17
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					
325		1				STANDARD CEMENT	EA-2	200	SKS		12.25	2450.00			
276		1				FLOCELE		50	LBS		2.25	112.50			
283		1				SALT		1000	LBS		.20	200.00			
284		1				CALSEAL		9	SKS	900 LBS	30.00	270.00			
292		1				HALAD-322		150	LBS		8.00	1200.00			
290		1				D-AER		5	GAL		42.00	210.00			
581		1				SERVICE CHARGE				CUBIC FEET	200	1.50	300.00		
583		1				MILEAGE CHARGE		TOTAL WEIGHT	20900	LOADED MILES	100	TON MILES	1045	1.75	783.75

CONTINUATION TOTAL 5526.25

JOB LOG

SWIFT Services, Inc.

DATE 2-12-17 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR INC WELL NO. 2-20 LEASE LEE JOB TYPE 5 1/2" LONGSTRENG TICKET NO. 29956

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0100							ON LOCATION
	0100							START 5 1/2" CASING IN WELL
								TD-5060 SET = 5057
								TP-5057 5 1/2" # 17
								SJ-23'
								CENTRALIZERS - 1, 3, 5, 7, 9, 11, 14, 16, 18, 20
								CMT BSCTS - 8
	0320							DROP BALL - CIRCULATE
	0410	6	12		✓		500	PUMP 500 GAL MUD FLUSH
	0412	6	20		✓		500	PUMP 20 BBL KCL-FLUSH
	0420		7-5					PLUG RH (30SKS) MH (20SKS)
	0425	4	36		✓		250	MIX CEMENT - 150 SKS = 15.5 PPG
	0435							WASH OUT PUMP LEAVES
	0435							RELEASE TOP PLUG - LATCH DOWN
	0440	7	0		✓			DISPLACE PLUG
		6	115				900	
	0500	5	116.8				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	0505							OK RELEASE PSE - HELD
								WASH TRUCK
	0600							JOB COMPLETE

THANK YOU
WAYNE, DAVE K., PRESTON



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc

20-25s-36w Kearny, Ks

3118 Cummings Rd
Garden City, Ks 67846

Lee 2-20

Job Ticket: 65657

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.02.09 @ 07:36:26

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:59:26

Time Test Ended: 17:52:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4812.00 ft (KB) To 4853.00 ft (KB) (TVD)

Reference Elevations: 3060.00 ft (KB)

Total Depth: 4853.00 ft (KB) (TVD)

3048.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8166 Outside

Press@RunDepth: 93.28 psig @ 4813.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.09 End Date: 2017.02.09

Last Calib.: 2017.02.09

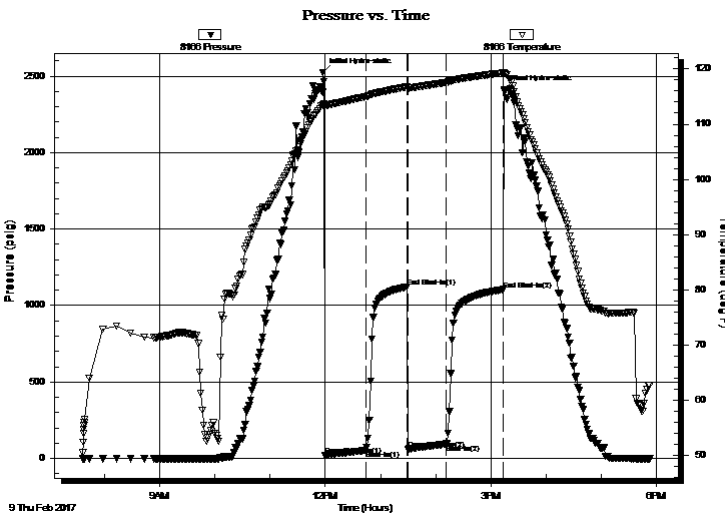
Start Time: 07:36:31 End Time: 17:52:26

Time On Btm: 2017.02.09 @ 11:57:26

Time Off Btm: 2017.02.09 @ 15:14:26

TEST COMMENT: IF: BOB in 31 min.
IS: No return.
FF: BOB in 10 min.
FS: Surface blow built to 2 died in 45 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2524.51	113.46	Initial Hydro-static
2	20.62	113.21	Open To Flow (1)
47	52.85	114.99	Shut-In(1)
92	1122.67	116.77	End Shut-In(1)
93	61.01	116.52	Open To Flow (2)
134	93.28	117.54	Shut-In(2)
196	1104.42	119.28	End Shut-In(2)
197	2412.85	119.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocw m 10%g 35%o 5%w 50%m	0.61
82.00	go 40%g 60%o	0.40
0.00	1096 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

20-25s-36w Kearny, Ks

3118 Cummings Rd
Garden City, Ks 67846

Lee 2-20

Job Ticket: 65657

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.02.09 @ 07:36:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 950.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	gocw m 10%g 35%o 5%w 50%m	0.610
82.00	go 40%g 60%o	0.403
0.00	1096 GIP	0.000

Total Length: 206.00 ft Total Volume: 1.013 bbl

Num Fluid Samples: 0

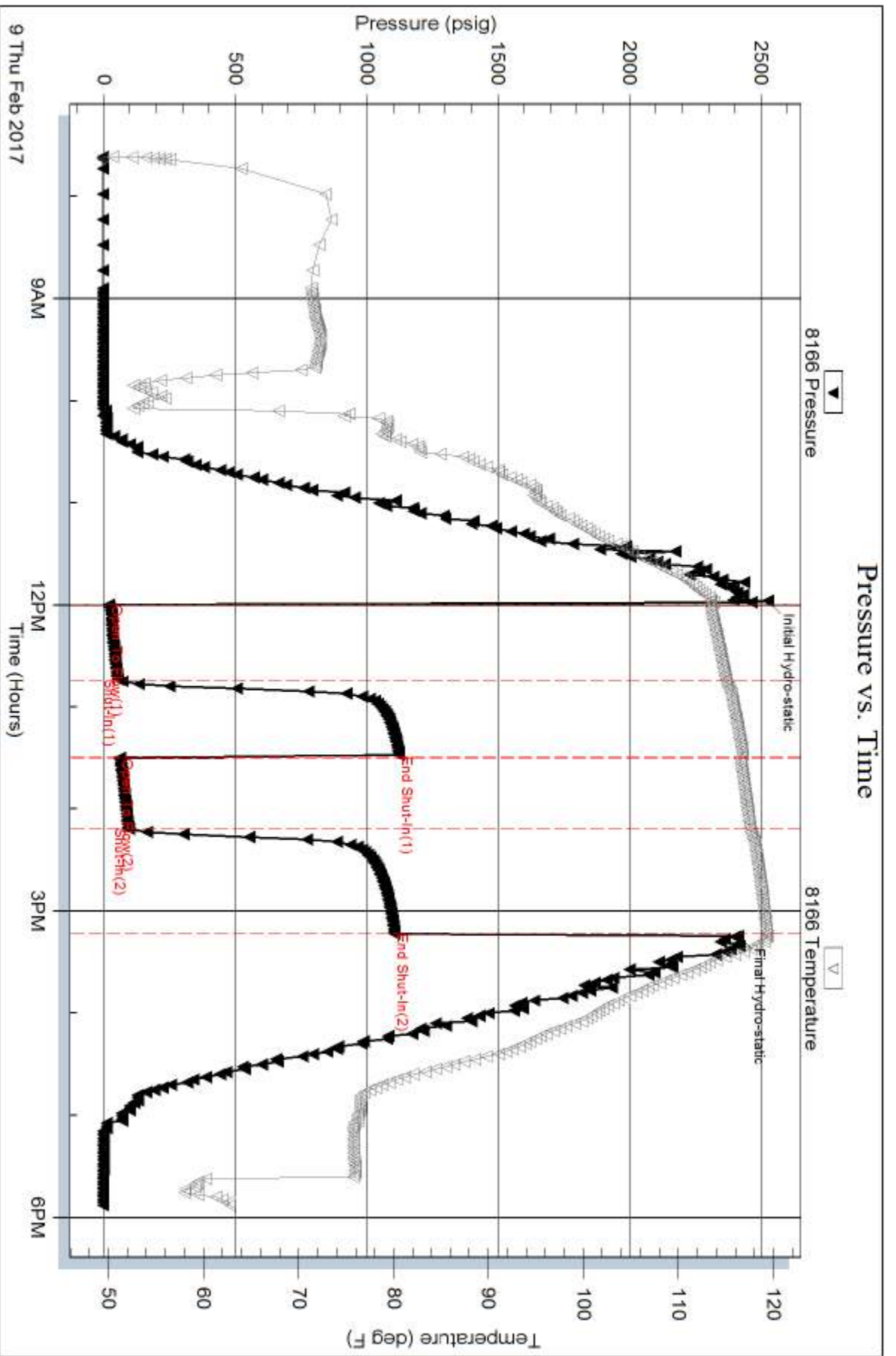
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@60=32



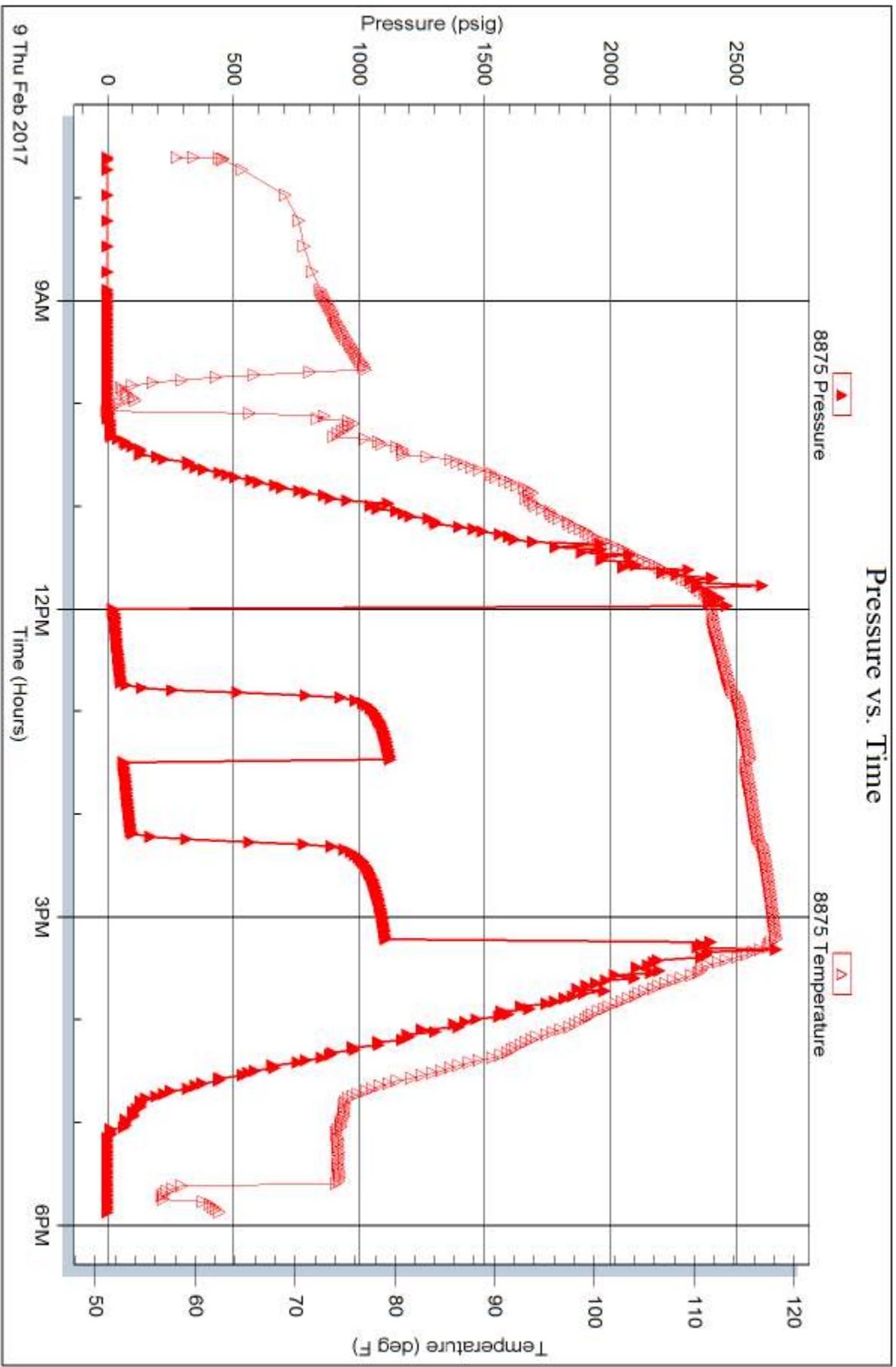
Serial #: 8875

Inside

American Warrior Inc

Lee 2-20

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65657

Printed: 2017.02.09 @ 19:38:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc

20-25s-36w Kearny, Ks

3118 Cummings Rd
Garden City, Ks 67846

Lee 2-20

Job Ticket: 65658

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.02.10 @ 13:13:58

GENERAL INFORMATION:

Formation: **St Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:32:58

Time Test Ended: 18:53:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4924.00 ft (KB) To 4965.00 ft (KB) (TVD)

Reference Elevations: 3060.00 ft (KB)

Total Depth: 4965.00 ft (KB) (TVD)

3048.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8166 Outside

Press@RunDepth: 26.67 psig @ 4925.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.10

End Date: 2017.02.10

Last Calib.: 2017.02.10

Start Time: 13:14:03

End Time: 18:53:27

Time On Btm: 2017.02.10 @ 15:32:28

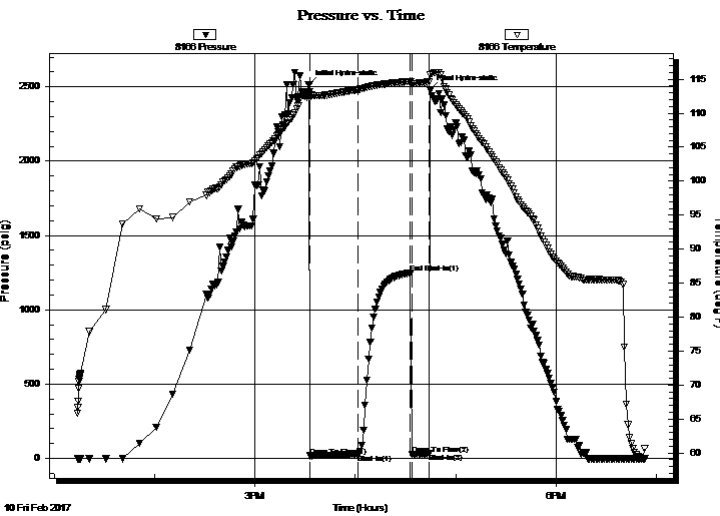
Time Off Btm: 2017.02.10 @ 16:44:58

TEST COMMENT: IF: Surface blow died in 10 min.

IS: No return.

FF: No blow.

FS: Pulled tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2515.90	113.22	Initial Hydro-static
1	16.72	112.22	Open To Flow (1)
29	26.67	113.48	Shut-In(1)
61	1247.45	114.70	End Shut-In(1)
62	28.82	114.40	Open To Flow (2)
72	30.92	114.59	Shut-In(2)
73	2479.59	115.66	Final Hydro-static

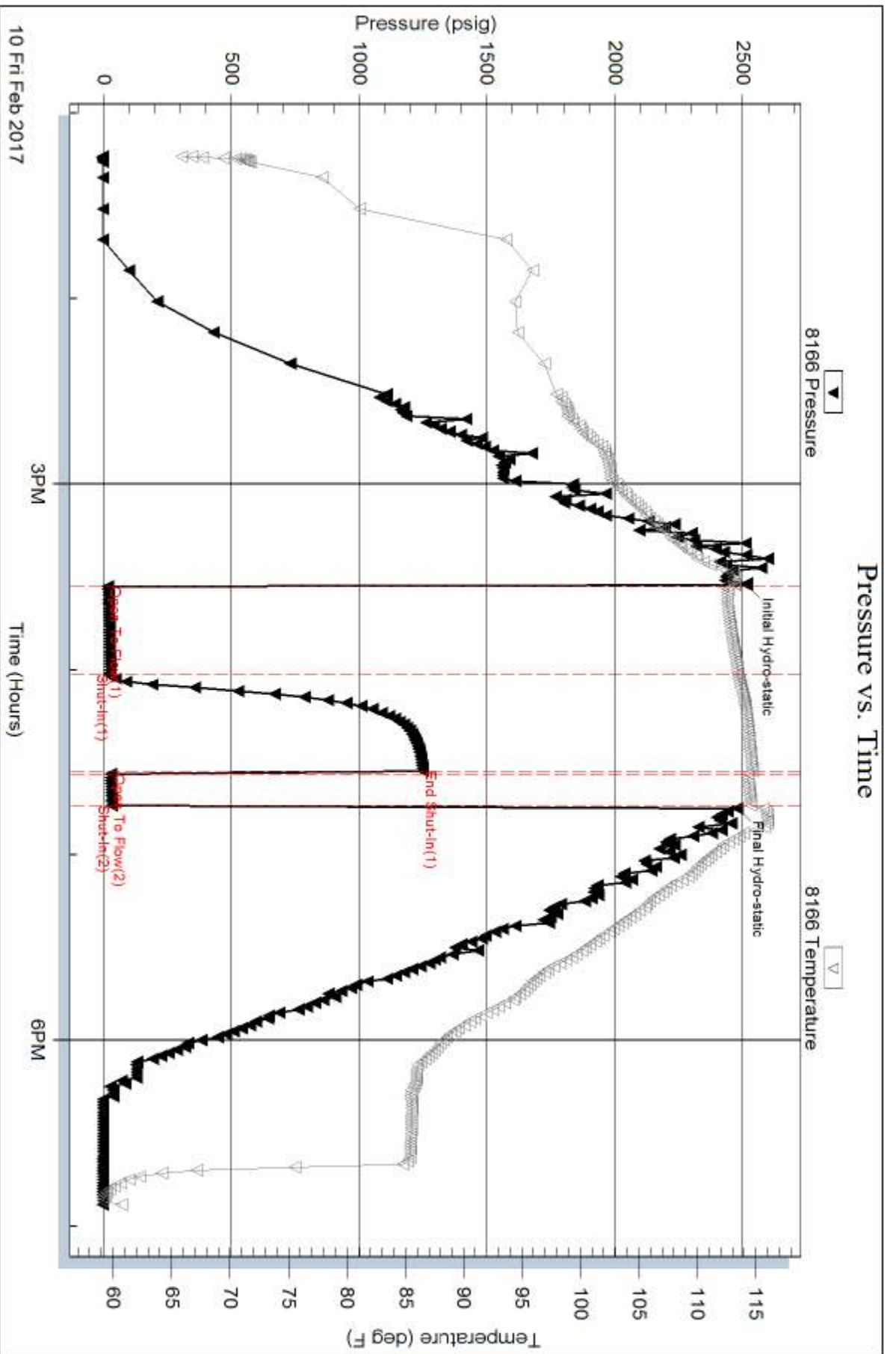
Recovery

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

* Recovery from multiple tests

Gas Rates

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



Geological Report

American Warrior, Inc.

Lee #2-20

1934' FNL & 1020' FEL

Sec 20, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Lee #2-20
1934' FNL & 1020' FEL
Sec. 20, T25s, R36w
Kearny County, Kansas
API # 15-093-21953-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: January 31, 2017

Completion Date: February 12, 2017

Elevation 3049' G.L.
3060' K.B.

Directions: From the center of Lakin, KS at the intersection of HWY 50 & HWY 25 – Now go 6.4 miles South on HWY 25 to ingress stake W-NW into – Now go 0.7 miles W-NW on unmarked dirt road – Now go 0.2 miles NW around edge of sprinkler to ingress stake – Now go approximately 200' East, through corn stubble into staked location.

Casing: 1829' 8 5/8" #23 Surface Casing
5057' 5 1/2" #17 Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Pioneer Energy Services "T. Martin"
Full Sweep

Drillstem Tests: Two-Trilobite Testing "Brandon Turley"

Problems: none encountered

Formation Tops

Lee #2-20

Sec. 20, T25s, R36w

1934' FNL & 1020' FEL

Heebner	3664' -604
Toronto	3680' -620
Lansing	3706' -646
Stark	4060' -1000
Bkc	4232' -1172
Marmaton	4255' -1195
Pawnee	4350' -1290
Fort Scott	4382' -1322
Cherokee	4392' -1332
Morrow	4695' -1635
St. Gen	4852' -1792
RTD	5060' -2000
LTD	5061' -2001

Sample Zone Descriptions

Morrow (4816' -1756): Covered in DST #1

Sandstone, gray/green, fine grain, sub round, well sorted, fair to well sorted, fair cementation, glauconitic, scat fossil fragments, poor inter crystalline porosity, strong odor, fair stain, fair to good saturation, excellent show of free oil when broke, poor slow string cut. Gas 35 units hotwire.

St. Louis (4954' -1894): Covered in DST #2

Limestone, cream, oolitic packstone, chalky, poor to fair oolitic porosity, slight odor, poor stain and saturation, poor slow stream cut. Gas 60 units hotwire.

Drill Stem Tests

Trilobite Testing
“Brandon Turley”

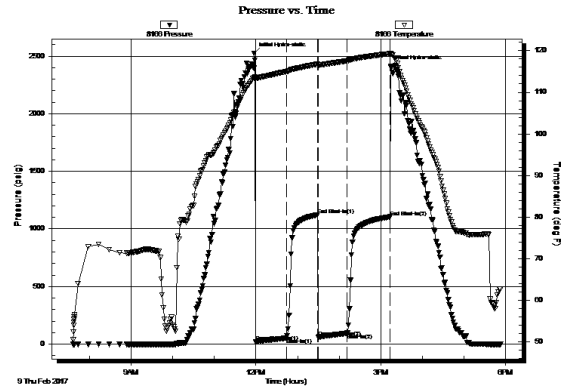
DST #1

Morrow

Interval (4812' – 4853') Anchor Length 41'

IHP	- 2525 #	
IFP	- 30" – BOB 31 min	21-53#
ISI	- 45" – No Return	1123#
FFP	- 45" – BOB 10 min	61-93#
FSIP	- 60" – 2" Return dead in 45 min	1104#
FHP	- 2413 #	
BHT	- 119° F	

Recovery: 1096' GIP
 82' GO 60% O
 124' GOCWM 35% O



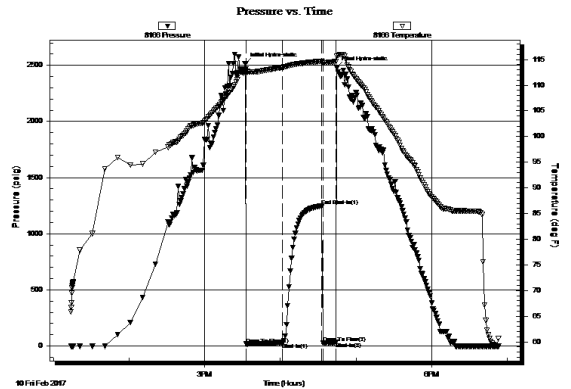
DST #2

St. Louis

Interval (4924' – 4965') Anchor Length 41'

IHP	- 2516 #	
IFP	- 30" – WSB dead in 10min	17-27#
ISI	- 30" – No Return	1247#
FFP	- 10" – BOB 8 min	29-31#
FSIP	- Pulled Test	
FHP	- 2480 #	
BHT	- 116° F	

Recovery: 10' M



Structural Comparison

	American Warrior, Inc. Lee #2-20 Sec. 20, T25s, R36w 1934' FNL & 1020' FEL		Merit Energy Corp. Lee #20-1 Sec. 20, T25s, R36w 4950' FSL & 660' FEL		McConathy Prod. Co. Lee #20-1 Sec. 20, T25s, R36w 2300' FSL & 690' FEL
Formation					
Heebner	3664' -604	-6	3656' -598	-1	3662' -603
Lansing	3706' -646	-6	3698' -640	-3	3702' -643
Stark	4060' -1000	0	4058' -1000	-1	4058' -999
BKC	4232' -1172	-6	4224' -1166	+5	4236' -1177
Marmaton	4255' -1195	-1	4252' -1194	+6	4260' -1201
Pawnee	4350' -1290	0	4348' -1290	+5	4354' -1295
Fort Scott	4382' -1322	-2	4378' -1320	+7	4388' -1329
Cherokee	4392' -1332	-2	4388' -1330	+7	4396' -1339
Morrow	4695' -1635	-3	4690' -1632	-2	4692' -1633
Miss	4852' -1792	-4	4846' -1788	+3	4854' -1795

Summary

The location for the Lee #2-20 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, one of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Lee #2-20 well.

Perforations

Primary:	St. Louis	(4951' – 4961')
	St. Louis	(4906' – 4911')
Secondary:	Morrow	(4814' – 4820')
	Marmaton	(4285' – 4293')

Before Abandonment: Lansing H (3946' – 3950')

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.