

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 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
--	---

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	MABEL 1-19
Doc ID	1349275

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	MABEL 1-19
Doc ID	1349275

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4720'to 4724		



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1316828
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL 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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Summary of Changes

Lease Name and Number: MABEL 1-19

API/Permit #: 15-083-21927-00-00

Doc ID: 1349275

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	09/13/2016	03/21/2017
Date of First or Resumed Production or SWD or Enhr Producing Method Pumping	No	09/02/2016 Yes
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1316828	../..kcc/detail/operatorEditDetail.cfm?docID=1349275



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

TICKET 29570

PAGE 1 OF

SERVICE LOCATIONS: 1. **NESS CITY, KS**
 WELL/PROJECT NO.:
 LEASE: **MABEL 1-19**
 COUNTY/PARISH: **HODGEMAN**
 STATE: **KS**
 CITY: **JETMORE, KS.**
 DATE: **29 AUG 16**
 OWNER:
 TICKET TYPE: SERVICE SALES
 CONTRACTOR: **CO. R16**
 RIG NAME/NO.:
 SHIPPED VIA:
 DELIVERED TO:
 ORDER NO.:
 WELL TYPE: **OIL**
 WELL CATEGORY: **DEVELOPMENT**
 JOB PURPOSE: **CEMENT PORT COLLAR**
 WELL PERMIT NO.:
 WELL LOCATION: **1E, 3 1/2 S, W1 T10**
 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	30	MIL	5	⁰⁰	150 ⁰⁰
576D					Pump CHARGE			1250	⁰⁰	1250 ⁰⁰
276					FLOE FLE.	33	LBS	2	²⁵	74 ²⁵
290					D-AIR	1 1/2	PK	42	⁰⁰	63 ⁰⁰
105					PORT COLLAR OPENING TOOL	1	COB	275	⁰⁰	275 ⁰⁰
330					SMD CEMENT	125	SX	15	⁷⁵	1968 ⁷⁵
581					CEMENT SERVICE CHARGE	200	SX	1	⁵⁰	300 ⁰⁰
582					MINIMUM DRAYAGE	19950	LBS	299.25	⁰⁰	250 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
 DATE SIGNED: **29 AUG 16** TIME SIGNED: **1430** 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?				4331
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

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!

JOB LOG

SWIFT Services, Inc.

DATE 29 Aug 16 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE MABEL 1-19

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 29570

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1240							ON LOCATION
								PORT COLLAR @ 1614
	1308				✓		1000	TEST - HELD
	1310							OPEN PORT COLLAR
	1315	4	70	✓			1000	MIX 125 SX SMD
		3	5 1/2	✓			200	DISPLACE CEMENT
								CIRCULATE 20 SX TO PIT
	1335				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 5 SJBS.
	1345	4	160		✓		400	REVERSE CLEAN.
	1355							WASH TRUCK
	1430							JOB COMPLETE
								THANKS #115
								JASON FLINT PRESTON



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

TICKET 28924

PAGE 1 OF 1

SERVICE LOCATIONS: 1. **Ness City, Ks**
 WELL/PROJECT NO.: **1-19** LEASE: **MABEL** COUNTY/PARISH: **HODGEMAN** STATE: **Ks** CITY:
 DATE: **8-12-16** OWNER: **SAME**
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: **DISCOVERY DRILG #3** RIG NAME/NO.: SHIPPED VIA: **CT** DELIVERED TO: **LOCATION** ORDER NO.:
 3. WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **8 5/8" SURFACE** WELL PERMIT NO.: WELL LOCATION: **SE/JETMORE, Ks**
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	30		ME		5.00	150.00
5765		1			PUMP CHARGE	1		WDR	230 FT	800.00	800.00
325		1			STANDARD CEMENT	150		SWS		12.25	1837.50
278		1			CALCIUM CHLORIDE	7		SWS		40.00	280.00
279		1			BENTONITE GEL	3		SWS		25.00	75.00
290		1			D-ADR	2		GAL		42.00	84.00
581		1			SERVICE CHARGE CEMENT	150		SWS		1.50	225.00
582		1			MINIMUM DRAINAGE CHARGE	14750		LBS	221.25 TM	250.00	250.00

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

x *Debra Dackler*
 DATE SIGNED: **8-12-16** TIME SIGNED: **2000** 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	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL: **3701.50**

Hodgeman TAX CO.
7-6510 **194.15**

TOTAL: **3895.65**

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!**

JOB LOG

SWIFT Services, Inc.

DATE 8-12-16 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR INC WELL NO. 1-19 LEASE MABEL JOB TYPE 8 5/8" SURFACE TICKET NO. 28924

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							ON LOCATION
								TD - 231 SET e 230
								TP - 230 8 5/8" - 28
								15' CEMENT LEFT IN CASING
	2115							BREAK CIRCULATION
	3135	6	36		✓	150		MIX CEMENT - 150 SKS STANDARD 2% GEL, 3% CEC
	2142	6	0		✓	200		DISPLACE CEMENT
	2145		13 1/2					CEMENT DISPLACED - SHUT IN
								CIRCULATED 15 SKS CEMENT TO PET
								WASH TRUCK
	2300							JOB COMPLETE
								THANK YOU
								WAYNE, JOHN, PRESTON



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

TICKET 29597

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City KS WELL/PROJECT NO. 1-19 LEASE Mabel COUNTY/PARISH Hodgeman STATE KS CITY Jetmore DATE 20 AUG 16 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR Discovery RIG NAME/NO. 3 SHIPPED VIA CT DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Developments JOB PURPOSE cement bng string WELL PERMIT NO. WELL LOCATION 19-23-25
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	30		mi		5.00	150.00
578		1			Pump Charge	1		ea		1250.00	1250.00
402		1			Centralizer	52	7	in	ea	60.00	420.00
403		1			Cement Basket	52	2	in	ea	250.00	500.00
404		1			Port Collar	52	1	in	ea	2500.00	2500.00
406		1			Latch down plug & baffle	52	1	in	ea	225.00	225.00
407		1			Insert float shoe w/ AUTO FILL	52	1	in	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
 DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.
 1915

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?				5345.00
WE UNDERSTOOD AND MET YOUR NEEDS?				9947.75
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				10352.75
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				10249.75
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				Hodgeman TAX 7.65% 641.09
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 10933.84



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

TICKET CONTINUATION

TICKET No. 29597

CUSTOMER *American Warrior* WEL *Mabel 1-19* DATE PAGE OF

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						Standard cement (for EA-2)	175	sk			12.25	2143	75
284						Calseal	800	lb		8 sk	30.00	240	00
283						salt	900	lb			0.20	180	00
292						halad-322	125	lb			8.00	1000	00
276						flocele	50	lb			2.25	112	50
281						mud flush	500	gal			1.25	625	00
221						KCh liquid	2	gal			25.00	50	00
290						D-ATR	2	gal			42.00	84	00
582						Drayage (min)				1 ea	250.00	250	00
581						SERVICE CHARGE			175		1.50	262	50
						MILEAGE CHARGE	TOTAL WEIGHT	18325	LOADED MILES		TON MILES		

CONTINUATION TOTAL 4947.75

JOB LOG

SWIFT Services, Inc.

DATE 20 AUG 16 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Drilling		1-19		Mabel		cement long string		29597	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									175 sk EA-2 cement w/ #4 Flocele 5 1/2" x 17" casing 113 jts 4867' slug 17' ID: 4870' Centralizers 1,3,5,7,9,11,76 Basket 27" x 6 Port Collar 27" 1614'
	1400								on loc TRK 114
	1450								start 5 1/2" x 17" casing in well
	1650								circulate - Drop ball
	1730	3	12				200		Pump 500 gal mvd flush
		3	20				200		Pump 20 bbl KCL flush
	1747		7						Plug RH - MH 30sk - 20sk
	1754	3 1/2	42				200		mix EA-2 cement 125sk @ 15.3 ppg
									Drop latch down plug wash out pump & line
	1812	6					200		Displace plug
		6	87				400		
		6	105				750		
	1830	6	112				1500		Land plug Release pressure to truck - dried up
	1835								Wash truck
									Rock up
	1915								job complete Thank Flint, Blaine, & 15440



DRILL STEM TEST REPORT

Prepared For: **American Warrior Incorporated**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

Mabel #1-19

19-23s-23w Hodgeman,KS

Start Date: 2016.08.19 @ 06:24:00

End Date: 2016.08.19 @ 14:00:30

Job Ticket #: 65112 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.08.19 @ 15:10:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Incorporated

19-23s-23w Hodgeman,KS

PO Box 399
Garden City, KS 67846

Mabel #1-19

Job Ticket: 65112

DST#: 1

ATTN: Jason Alm

Test Start: 2016.08.19 @ 06:24:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:30

Time Test Ended: 14:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4662.00 ft (KB) To 4736.00 ft (KB) (TVD)

Reference Elevations: 2449.00 ft (KB)

Total Depth: 4736.00 ft (KB) (TVD)

2441.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6999

Inside

Press@RunDepth: 747.66 psig @ 4731.67 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.19

End Date:

2016.08.19

Last Calib.:

2016.08.19

Start Time:

06:24:05

End Time:

14:00:29

Time On Btm:

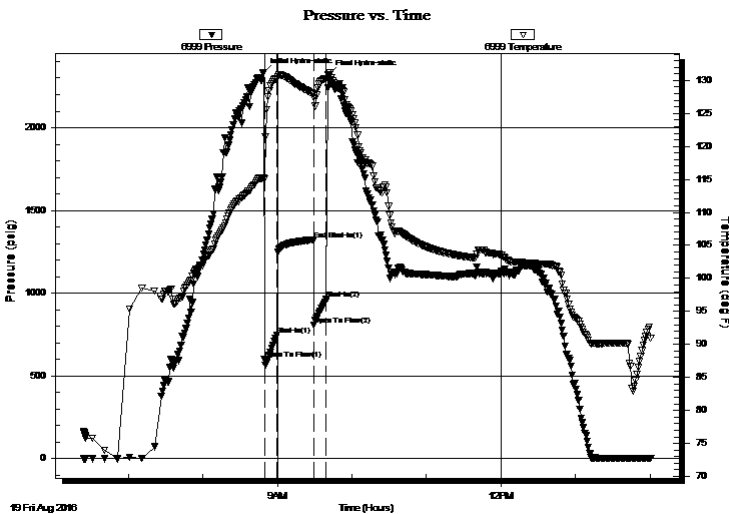
2016.08.19 @ 08:49:00

Time Off Btm:

2016.08.19 @ 09:41:30

TEST COMMENT: IFP 10 Minutes BOB in 55 seconds
FSI 30 Mintues BOB in 15 minutes
FFP 10 Minutes BOB in 55 seconds
Pulled test with tool open

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.66	115.26	Initial Hydro-static
1	599.61	115.13	Open To Flow (1)
11	747.66	130.30	Shut-In(1)
40	1320.46	127.97	End Shut-In(1)
41	809.01	127.40	Open To Flow (2)
51	962.70	130.30	Shut-In(2)
53	2321.38	131.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2294.00	SMCGO Mud 5% Gas 10% Oil 85%	31.91
124.00	GOCM Oil 10% Gas 10% Mud 80%	1.74
0.00	496 feet of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Incorporated

19-23s-23w Hodgeman,KS

PO Box 399
Garden City, KS 67846

Mabel #1-19

Job Ticket: 65112

DST#: 1

ATTN: Jason Alm

Test Start: 2016.08.19 @ 06:24:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:30

Time Test Ended: 14:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 4662.00 ft (KB) To 4736.00 ft (KB) (TVD)

Reference Elevations: 2449.00 ft (KB)

Total Depth: 4736.00 ft (KB) (TVD)

2441.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8960

Outside

Press@RunDepth: 1321.77 psig @ 4732.67 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.19

End Date:

2016.08.19

Last Calib.:

2016.08.19

Start Time:

06:24:05

End Time:

13:59:59

Time On Btm:

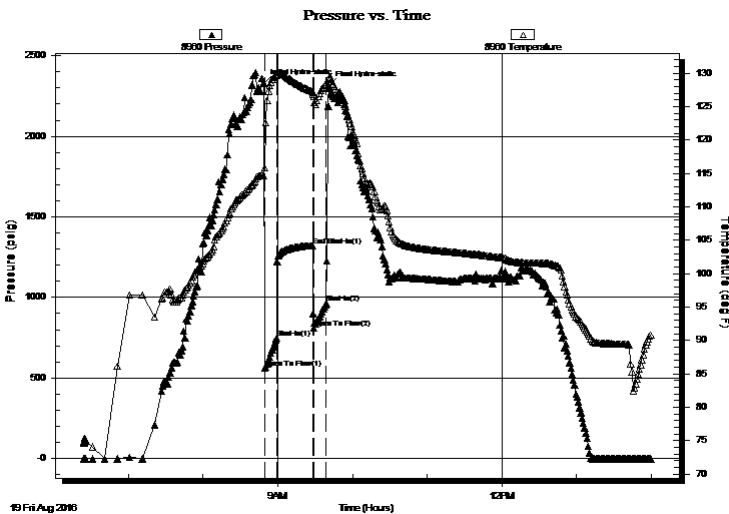
2016.08.19 @ 08:48:30

Time Off Btm:

2016.08.19 @ 09:41:00

TEST COMMENT: IFP 10 Minutes BOB in 55 seconds
FSI 30 Mintues BOB in 15 minutes
FFP 10 Minutes BOB in 55 seconds
Pulled test with tool open

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2329.78	114.67	Initial Hydro-static
1	561.68	115.85	Open To Flow (1)
11	747.32	129.65	Shut-In(1)
40	1321.77	127.20	End Shut-In(1)
41	811.43	126.57	Open To Flow (2)
51	962.98	128.39	Shut-In(2)
53	2316.45	129.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2294.00	SMCGO Mud 5% Gas 10% Oil 85%	31.91
124.00	GOCM Oil 10% Gas 10% Mud 80%	1.74
0.00	496 feet of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Incorporated

19-23s-23w Hodgeman,KS

PO Box 399
Garden City, KS 67846

Mabel #1-19

Job Ticket: 65112

DST#: 1

ATTN: Jason Alm

Test Start: 2016.08.19 @ 06:24:00

Tool Information

Drill Pipe:	Length: 4627.00 ft	Diameter: 3.80 inches	Volume: 64.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 65.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4662.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.67 ft			
Tool Length:	101.67 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Reversed fluid through circulating sub

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4639.00	
Hydraulic tool	5.00			4644.00	
Jars	6.00			4650.00	
Safety Joint	2.00			4652.00	
Top Packer	5.00			4657.00	
Packer	5.00			4662.00	28.00 Bottom Of Top Packer
Anchor	5.00			4667.00	
Change Over Sub	1.00			4668.00	
Drill Pipe	31.67			4699.67	
Change Over Sub	1.00			4700.67	
Anchor	30.00			4730.67	
Recorder	1.00	6999	Inside	4731.67	
Recorder	1.00	8960	Outside	4732.67	
Bullnose	3.00			4735.67	73.67 Anchor Tool

Total Tool Length: 101.67



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Incorporated

19-23s-23w Hodgeman,KS

PO Box 399
Garden City, KS 67846

Mabel #1-19

Job Ticket: 65112

DST#: 1

ATTN: Jason Alm

Test Start: 2016.08.19 @ 06:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2294.00	SMCGO Mud 5% Gas 10% Oil 85%	31.906
124.00	GOCM Oil 10% Gas 10% Mud 80%	1.739
0.00	496 feet of gas in pipe	0.000

Total Length: 2418.00 ft Total Volume: 33.645 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6999

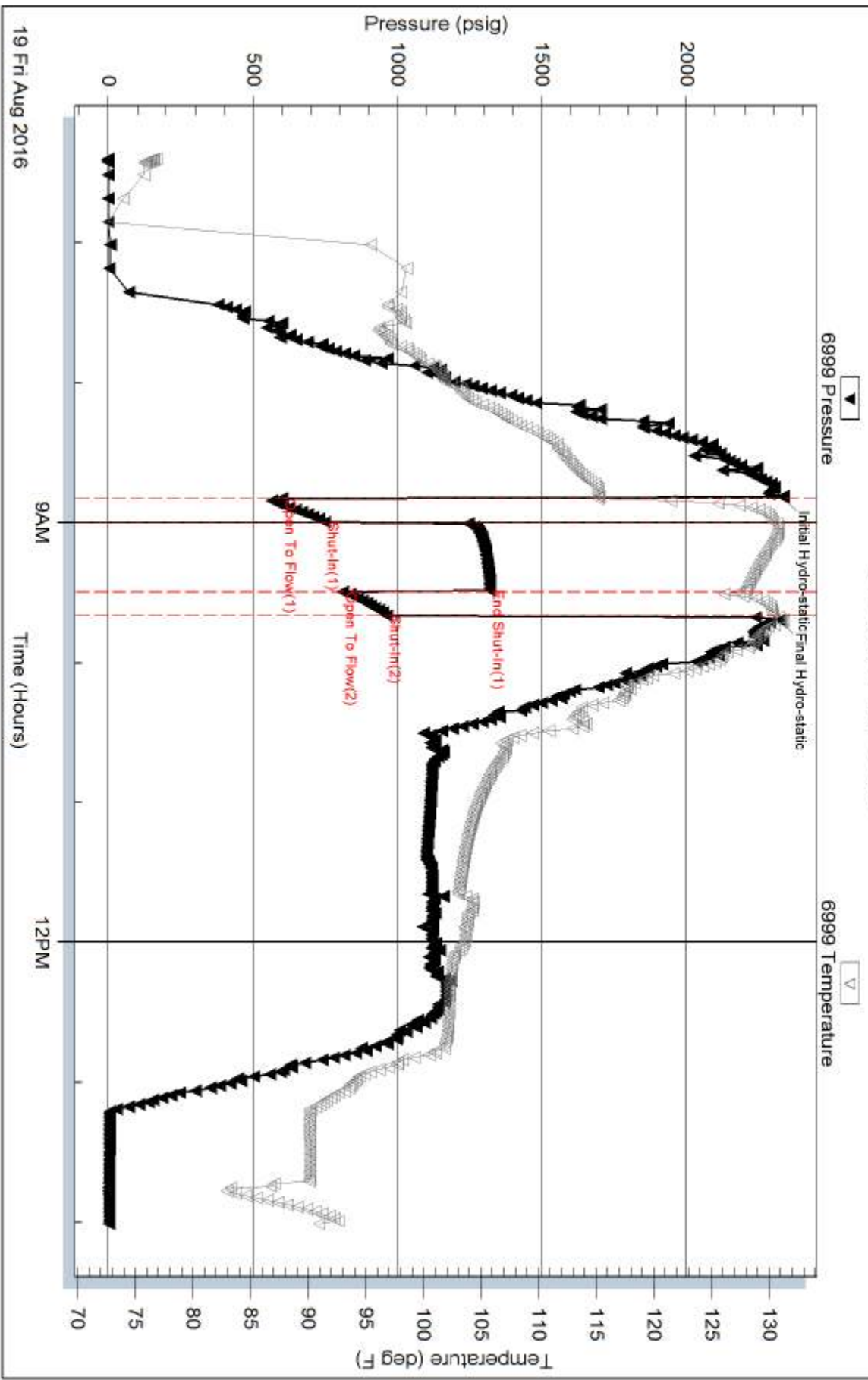
Inside

American Warrior Incorporated

Model #1-19

DST Test Number: 1

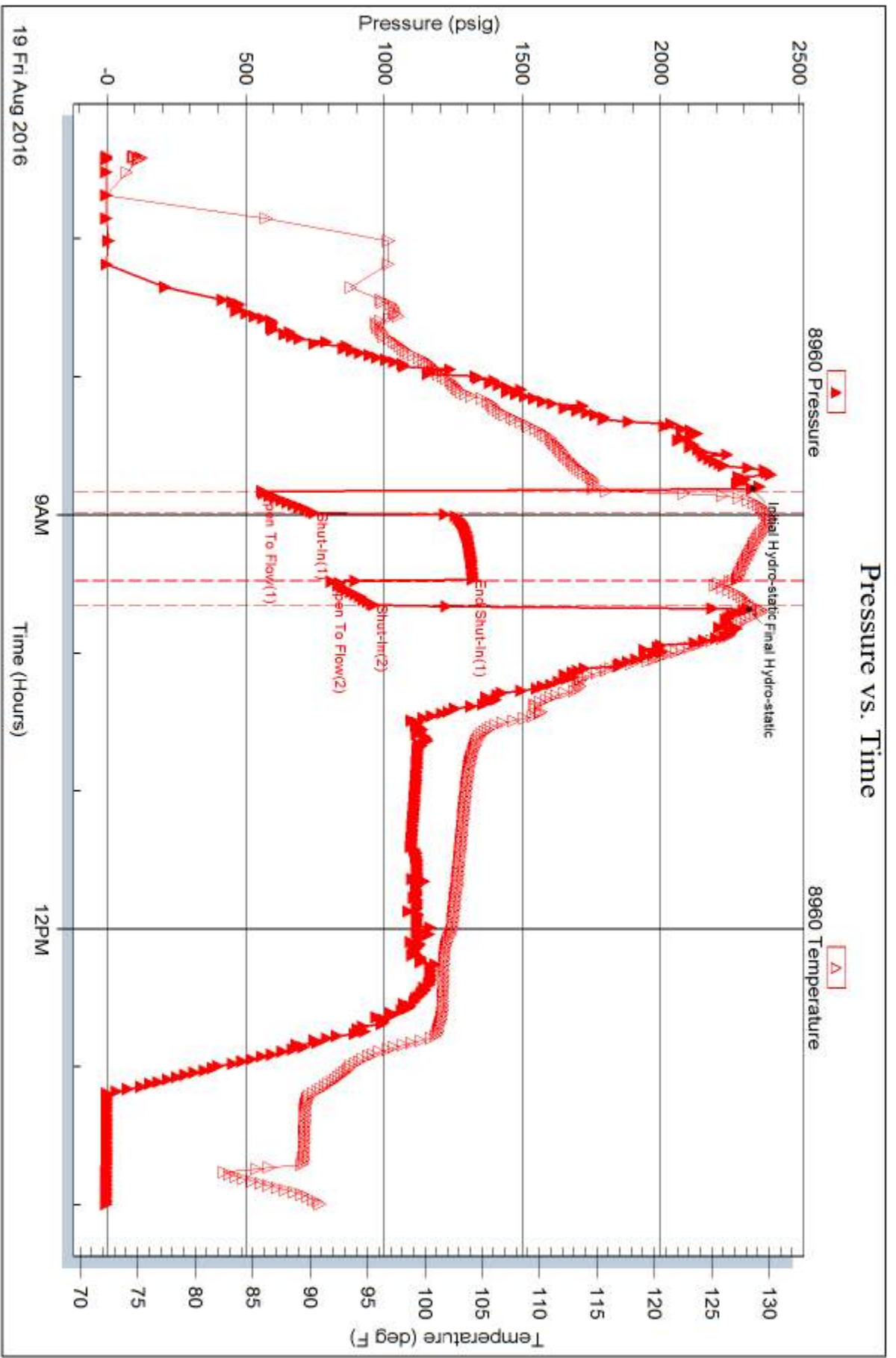
Pressure vs. Time

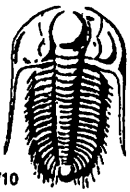


Triobite Testing, Inc

Ref. No: 65112

Printed: 2016.08.19 @ 15:10:56





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65112

Well Name & No. Arabel # 1-19 Test No. 1 Date 19 Aug 16
 Company American Warrior Incorporated Elevation 2449 KB 2441 GL
 Address PO Box 399 3118 Cummings Road Garden City, KS 67846
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3
 Location: Sec. 19 Twp. 23S Rge. 23W Co. Hodgeman State KS

Interval Tested 4662-4736 Zone Tested Cherokee Sand
 Anchor Length 74 Drill Pipe Run 4627 Mud Wt. 9.3
 Top Packer Depth 4657 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 4662 Wt. Pipe Run — WL 9.2
 Total Depth 4736 Chlorides 5700 ppm System LCM Trace

Blow Description F.F. Blow built to bottom of bucket in 55 seconds
I.S.I. blow back built to bottom of bucket in 15 minutes
F.F. Blow built to bottom of bucket in 55 seconds
Pull fast with tool open

Rec	Feet of	%gas	%oil	%water	%mud
<u>2294</u>	<u>Mud cut Gassy Oil</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u>—</u>
<u>124</u>	<u>Oil and Gas cut Mud</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>—</u>
<u>496</u>	<u>Gas in Pipe</u>	<u>100</u>	<u>—</u>	<u>—</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2418 BHT 130 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2332 Test 1150 T-On Location 4:20 am
 (B) First Initial Flow 599 Jars 250 T-Started 6:24 am
 (C) First Final Flow 747 Safety Joint 75 T-Open 8:49 am
 (D) Initial Shut-In 1320 Circ Sub — T-Pulled 9:39 am
 (E) Second Initial Flow 809 Hourly Standby — T-Out 2:00 pm
 (F) Second Final Flow 962 Mileage 138 103.50 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 2331 Straddle — Ruined Shale Packer —

Initial Open 10 Ruined Packer and Packer bell
 Initial Shut-In 30 Extra Copies 320
 Final Flow 10 Sub Total 320
 Final Shut-In — Total 1898.50
 Sub Total 1578.50 MP/DST Disc't —

Approved By Jason Alm Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Geological Report

Mabel #1-19
2459' FNL & 1756' FEL
Sec. 19 T23s R23w
Hodgeman County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Mabel #1-19
2459' FNL & 1756' FEL
Sec. 19 T23s R23w
Hodgeman County, Kansas
API # 15-083-21927-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: August 12, 2016

Completion Date: August 20, 2016

Elevation: 2441' Ground Level
2449' Kelly Bushing

Directions: Jetmore KS, East 1 mile to SE 219 Rd. South 3 ½
miles, West into location.

Casing: 230' 8 5/8" surface casing
4869' 5 1/2" production casing

Samples: 10' wet and dry, 4300' to RTD

Drilling Time: 3850' to RTD

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

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: None

Remarks: None

Formation Tops

Formation	American Warrior, Inc. Mabel #1-19 Sec. 19 T23s R23w 2459' FNL & 1756' FEL
Anhydrite	1624', +825
Base	1652', +797
Heebner	4024', -1575
Lansing	4079', -1630
BKC	4488', -2039
Marmaton	4500', -2051
Pawnee	4599', -2150
Fort Scott	4634', -2185
Cherokee	4662', -2213
Basil Cher Sand	4717', -2268
Mississippian	4787', -2338
LTD	4870', -2421
RTD	4870', -2421

Sample Zone Descriptions

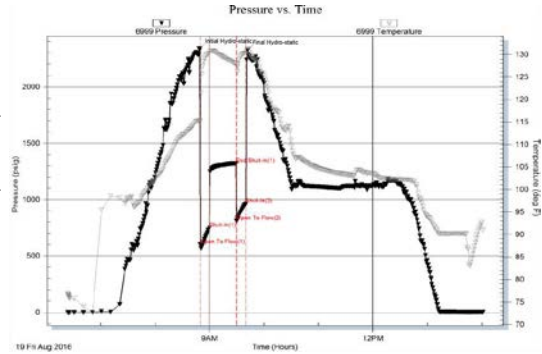
Basil Cher Sand (4717', -2268): Covered in DST #1
 Ss – Quartz, clear to slightly frosted, fine to coarse grained, poorly sorted, sub to well rounded, fair to poorly cemented with fair to scattered good inter-granular porosity, light spotted oil stain in cluster, slight show of free oil when broken, very light odor, dull to fair yellow fluorescents with very good yellow streaming cut, slightly glauconitic, few pieces of yellow nodular chert, slight imbedded green shales, many random coarse sand grains, 145 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Basil Cherokee Sand

Interval (4662' – 4736') Anchor Length 74'

IHP – 2333 #
IFP – 10" – B.O.B. 55 sec. 599-748 #
ISI – 30" – B.O.B. 15 min. 1320 #
FFP – 10" – B.O.B. 55 sec. 809-963 #
FHP – 2321 #
BHT – 131°F



Recovery: 496' GIP
2294' MCGO 85% Oil
124' OCGM 10% Oil

Structural Comparison

	American Warrior, Inc. Mabel #1-19 Sec. 19 T23s R23w 2459' FNL & 1756' FEL	Rains & Williamson Bailey #1 Sec. 20 T23s R23w C NW NW		Berexco, LLC. Katheryn #1-29 Sec. 29 T23s R23w 2280' FSL & 1000' FWL	
Formation					
Anhydrite	1624', +825	1608', +821	(+4)	1575', +841	(-16)
Base	1652', +797	1630', +799	(-2)	1598', +818	(-21)
Heebner	4024', -1575	4011', -1582	(+7)	3664', -1548	(-27)
Lansing	4079', -1630	4070', -1641	(+11)	4021', -1605	(-25)
BKC	4488', -2039	4470', -2041	(+2)	4434', -2018	(-21)
Marmaton	4500', -2051	4495', -2066	(+15)	4451', -2035	(-16)
Pawnee	4599', -2150	4588', -2159	(+9)	4542', -2126	(-24)
Fort Scott	4634', -2185	4632', -2203	(+18)	4579', -2163	(-22)
Cherokee	4662', -2213	4657', -2228	(+15)	4604', -2188	(-25)
Basil Cher Sand	4717', -2268	Not Encountered	NE	4657', -2241	(-27)
Mississippian	4787', -2338	4744', -2315	(-23)	4745', -2329	(-9)

Summary

The location for the Mabel #1-19 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Basil Cherokee Sand. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Mabel #1-19 well.

Recommended Perforations

Primary:

Basil Cherokee Sand	(4720' – 4724')	DST #1
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Before Abandonment:

Lower Basil Sand	(4737' – 4741')	Not Tested
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.