



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251619
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 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: _____



1251619

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	SNS 4-7
Doc ID	1251619

Tops

Name	Top	Datum
Anhydrite	1447	805
Heebner	3767	-1515
Lansing	3814	-1562
Base Kansas City	4147	-1895
Pawnee	4277	-2025
Ft. Scott	4302	-2050
Cherokee	4322	-2070
Mississippian	4378	-2126
TD	4392	-2140

Geological Report

American Warrior, Inc.
SNS #4-7
2250' FNL & 1155' FWL
Sec. 7 T20s R20w
Pawnee County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
SNS #4-7
2250' FNL & 1155' FWL
Sec. 7 T20s R20w
Pawnee County, Kansas
API # 15-145-21799-0000

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

Geologist: Jason T Alm, D.J. Rebel

Spud Date: March 23, 2015

Completion Date: March 30, 2015

Elevation: 2244' Ground Level
2252' Kelly Bushing

Directions: Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8
mi. South to 50 Rd. East 2 mi. to County Line Rd.
3/4 mi. South, East into location.

Casing: 223' 8 5/8" surface casing
4391' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

Remarks: None

Formation Tops

	American Warrior, Inc.
	SNS #4-7
	Sec. 7 T20s R20w
	2250' FNL & 1155' FWL
Formation	
Anhydrite	1447', +805
Base	1474', +778
Heebner	3767', -1515
Lansing	3814', -1562
BKc	4147', -1895
Pawnee	4277', -2025
Fort Scott	4302', -2050
Cherokee	4322', -2070
Mississippian	4378', -2126
RTD	4392', -2140

Sample Zone Descriptions

Mississippian Osage (4378', -2126): **Covered in DST #1**

Δ – Dolo – Fine crystalline with pinpoint inter-crystalline porosity, very heavy weathered chert with fair to good vuggy porosity, fair to good oil stain and scattered saturation in porosity, fair show of free oil, good odor, good spotted yellow fluorescents.

Drill Stem Tests

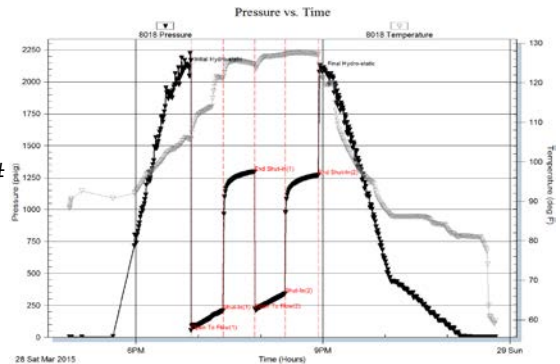
Trilobite Testing, Inc.
"Ray Schwager"

DST #1 Mississippian Osage

Interval (4379' – 4389') Anchor Length 10'

IHP – 2110 #	
IFP – 30" – B.O.B. 7 min.	54-210 #
ISI – 30" – Built to 1 in.	1295 #
FFP – 30" – B.O.B. 7 min.	221-342 #
FSI – 30" – Built to ¾ in.	1270 #
FHP – 2077 #	
BHT – 127°F	

Recovery: 250' GIP
 775' GCO
 90' SMGO 79% Oil



Structural Comparison

	American Warrior, Inc. SNS #4-7 Sec. 7 T20s R20w 2250' FNL & 1155' FWL	American Warrior, Inc. SNS #1-7 Sec. 7 T20s R20w 2310' FNL & 1700' FEL		American Warrior, Inc. SNS #2-7 Sec. 7 T20s R20w 2260' FSL & 600' FWL	
Formation					
Anhydrite	1447', +805	1437', +804	(+1)	1430', +808	(-3)
Base	1474', +778	1465', +776	(+2)	1461', +777	(+1)
Heebner	3767', -1515	3755', -1514	(-1)	3749', -1511	(-4)
Lansing	3814', -1562	3806', -1565	(+3)	3797', -1559	(-3)
BKc	4147', -1895	4138', -1897	(+2)	4132', -1894	(-1)
Pawnee	4277', -2025	4266', -2025	FL	4260', -2022	(-3)
Fort Scott	4302', -2050	4296', -2055	(+5)	4286', -2048	(-2)
Cherokee	4322', -2070	4311', -2070	FL	4304', -2066	(-4)
Mississippian	4378', -2126	4375', -2134	(+8)	4370', -2132	(+6)

Summary

The location for the SNS #4-7 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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the well.

Recommended Perforations

Mississippian Osage

(4378' – 4388')

DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



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

TICKET 20080
 PAGE 1 OF

SERVICE LOCATIONS: NESS CITY, KS
 WELLS/PROJECT NO: LEASE: SNUS 4-7
 COUNTY/PARISH: PAWUEE
 STATE: KS
 CITY: BAZINE, KS
 DATE: 23 MAR 15
 OWNER:
 ORDER NO:
 TICKET TYPE: CONTRACTOR
 RIG NAME/NO:
 WELLS/PROJECT NO: DISCOVERY DRILLS #3
 SHIPPED VIA: DELIVERED TO:
 WELL PERMIT NO.:
 WELL LOCATION: 4E 8S 3E 1/2S E100
 WELLS/PROJECT NO: DIL
 WELL TYPE: DEVELOPMENT
 JOB PURPOSE: CEMENT 8 5/8
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	30	hr			6.00	180.00
576s					Ramp Charge	1	hr			800.00	800.00
279					CXL	3	SX			25.00	75.00
278					CALCIUM CHLORIDE	7	SX			40.00	280.00
290					D-AIR	12	hr			42.00	504.00
325					STANDARD CEMENT	15	DBX			12.25	1837.50
581					CEMENT SERVICE CHARGE	15	DBX			15.00	225.00
582					MINIMUM DRAYAGE	14	SX			18.00	252.00

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: 23 MAR 15 TIME SIGNED: 2000
 A.M. P.M.
 REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300
 SURVEY: 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?
 CUSTOMER DID NOT WISH TO RESPOND
 PAGE TOTAL: 3710
 TAX: .50
 TOTAL: 3710.50
 SWIFT OPERATOR: [Signature]
 APPROVAL: [Signature]
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2 MAR 15 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE SNS 4-7

JOB TYPE CEMENT 8 7/8

TICKET NO. 28436

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							ON LOCATION
	1830							START PIPE 8 7/8-23" RTD @ 223 SET @ 223 CIRCULATE.
	1905	4	36		✓		300	MIX 150 SX STD 3% CC 2% GEL
		3	13		✓			DISPLACE CEMENT
	1924				✓		300	SHUT WELL IN. CIRCULATE CEMENT TO SURFACE
	1927							WASH TRUCK
	2000							JOB COMPLETE.
								THANKS #115
								JASON DAVE JOHN TYLER
	7:30				✓		3	32 15



Services, Inc.

CHARGE TO: AMERICAN WARRIOR

ADDRESS: ADDRESS CITY, STATE, ZIP CODE

TICKET 28442

PAGE 1 OF 2

1. SERVICE LOCATION: **Ness City, KS**

2. WELLPROJECT NO.: **SNS 4-7**

3. LEASE: **SNS 4-7**

4. COUNTY: **PAWNEE**

5. STATE: **KS**

6. CITY: **BAZINE, KS**

7. DATE: **29 MAR 15**

8. OWNER: **29 MAR 15**

9. TICKET TYPE: **DRCOVERY DBB #3**

10. CONTRACTOR: **DRCOVERY DBB #3**

11. RIG NAME NO.: **PAWNEE**

12. SHIPPED VIA: **DELIVERED TO**

13. ORDER NO.: **29 MAR 15**

14. WELL TYPE: **OIL**

15. WELL CATEGORY: **DEVELOPMENT**

16. JOB PURPOSE: **SHOWSTRING**

17. WELL PERMIT NO.: **4E 85, 3E, 345 E 150**

18. WELL LOCATION: **4E 85, 3E, 345 E 150**

19. INVOICE INSTRUCTIONS: **DEVELOPMENT**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE @ 115	25	mi	1	mi	5.00	125.00
578					PUMP CHARGE	1	EA	1	EA	185.00	185.00
402					CENTRALIZERS	1	EA	1	EA	300.00	300.00
403					CEMENT BASKETS	2	EA	2	EA	250.00	500.00
404					FRT DOLLAR	1	EA	1	EA	250.00	250.00
406					LATCH DOWN PLUG & BARGE	1	EA	1	EA	225.00	225.00
407					INSERT FLOAT SHADE W/FILL	1	EA	1	EA	300.00	300.00
408					REPAIR TUBING	1	EA	1	EA	300.00	300.00
281					MUD FLUSH	500	gal	2	gal	1.25	625.00
221					LIQUID REL	2	gal	2	gal	25.00	50.00

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

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

SURVEY

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?

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **5875.75**

TAX: **4272.75**

TOTAL: **10147.75**

DATE SIGNED: **29 MAR 15** TIME SIGNED: **11:20**

SWIFT OPERATOR: **[Signature]**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: **[Signature]**

APPROVAL: **[Signature]**

Thank You!



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

TICKET CONTINUATION

TICKET No. 28442

CUSTOMER
AMERICAN WARRIOR

WELL
SNS 4-7

DATE
29 MAR 15

PAGE 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT	
		LOG	ACCT	DR			QTY	U/M	QTY	U/M				
576						FLOCELE								
283						SALT	900	lbs				2.25	112.50	
284						CAISEAL	8	bx				30.00	240.00	
292						HAAD 322	125	lbs				8.10	1012.50	
290						D-AIR	2	sqc				42.00	84.00	
325						STANDARD EA-2	175	sq				12.95	2143.75	
581						SERVICE CHANGE						1.50	262.50	
582						MILEAGE CHANGE	785	mi				250.00	250.00	
CONTINUATION TOTAL												4272.25		

JOB LOG

SWIFT Services, Inc.

DATE 29 MAR 14 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE SNS 4-7

JOB TYPE 5 1/2 LONG STRING

TICKET NO. 28442

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							ON LOCATION
	0730							START PIPE 5 1/2 - 15.5# RTD @ 4392 SS. 41.47 CENTRALIZERS 1, 2, 3, 4, 74 BASKETS. 5, 75 PORT COLLAR 75 @ 1405
	0930							DROP BALL - CIRCULATE
	0958	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 20 BBL KCL SPACER
	1007		7.5					PLUG RH-30s x MH-20s x
	1012	4	30		✓			MIX 125s x EA-2
	1025							WASH OUT PUMP & LINES.
	1029	6			✓			START DISPLACING PLUG
	1047	Ø	103 1/2		✓		1500	PLUG DOWN - LATCH PLUG IN.
	1049				✓			RELEASE PSI - DRY
	1051							WASH TRUCK
	1120							JOB COMPLETE.
								THANKS #115
								SASON COLE PRESTON



CHARGE TO: American Warriors
 ADDRESS: [Blank]
 CITY, STATE, ZIP CODE: [Blank]

TICKET 28362

PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Nov 4, KS* WELL/PROJECT NO. *44* LEASE *SNS* COUNTY/PARISH *Avancee* STATE *KS* CITY *Bazine* DATE *6 APR 15* OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR
 3. WELL TYPE *oil* WELL CATEGORY *#-0* RIG NAME/NO. *5* SHIPPED DELIVERED TO *location* ORDER NO.
 4. WELL PERMIT NO. *7-20-20* WELL LOCATION *Development cement post collar*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
<i>595</i>					<i>TOR 1/4</i>	<i>30</i>	<i>mi</i>				<i>500</i>	<i>15000</i>
<i>576D</i>					<i>Pump Charge</i>	<i>124</i>					<i>125000</i>	<i>125000</i>
<i>330</i>					<i>SMB cement</i>	<i>110</i>	<i>SK</i>				<i>1575</i>	<i>173250</i>
<i>276</i>					<i>Flange</i>	<i>25</i>	<i>16</i>				<i>285</i>	<i>5025</i>
<i>290</i>					<i>D-AIR</i>	<i>1</i>	<i>gal</i>				<i>4200</i>	<i>4200</i>
<i>581</i>					<i>Service charge</i>	<i>175</i>	<i>5L</i>				<i>150</i>	<i>26250</i>
<i>582</i>					<i>Dragee (min)</i>	<i>1</i>	<i>ea</i>				<i>25000</i>	<i>25000</i>
<i>104</i>					<i>Foot collar tool rental</i>	<i>1</i>	<i>ea</i>	<i>52</i>	<i>in</i>		<i>20000</i>	<i>20000</i>

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

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR *Richard* APPROVAL _____
 SURVEY: 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? CUSTOMER DID NOT WISH TO RESPOND
 TAX *165* | TOTAL *4108* | *76*
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6 APR 15 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #4 LEASE SNS JOB TYPE cement port collar TICKET NO. 28362

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SMD w/ 4# floccle 2 3/8 x 5 1/2 port collar - 1405'
	1515							on loc TRK 114
	1526					1000	1000	test to 1000 psi - held open port collar
	1530	3 1/2	2			400		inj rate 3 1/2 bpm @ 400 psi.
	1533	3 1/2				400		mix SMD cement @ 11.2 ppg
		3 1/2	4			400		- fluid to surface -
		3 1/2	58			450		— cement to surface —
		3 1/2	5			450		Displace w/ H ₂ O - 5 bbl { 110 sk mix ad 15 TO PIT }
	1557					1000	1000	close port collar test to 1000 psi - held
	1603		20					Run 5 joints Reverse hole clean - 2 cement plugs -
	1615							wash truck Rack up
	1645							Job complete Thanks Blair, Flint & Preston



DRILL STEM TEST REPORT

Prepared For: **American Warrior Co Inc**

3118 Cumming Rd.
Garden City KS 67846

ATTN: Jason Alm

SNS #4-7

7-20s-20w Pawnee,KS

Start Date: 2015.03.28 @ 16:55:52

End Date: 2015.03.28 @ 23:46:31

Job Ticket #: 60577 DST #: 1

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

Printed: 2015.03.30 @ 11:46:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Co Inc

7-20s-20w Pawnee, KS

3118 Cumming Rd.
Garden City KS 67846

SNS #4-7

Job Ticket: 60577

DST#: 1

ATTN: Jason Alm

Test Start: 2015.03.28 @ 16:55:52

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:02

Time Test Ended: 23:46:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 4379.00 ft (KB) To 4389.00 ft (KB) (TVD)

Reference Elevations: 2252.00 ft (KB)

Total Depth: 4389.00 ft (KB) (TVD)

2244.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 342.22 psig @ 4380.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.28

End Date:

2015.03.28

Last Calib.:

2015.03.28

Start Time: 16:55:52

End Time:

23:46:31

Time On Btm:

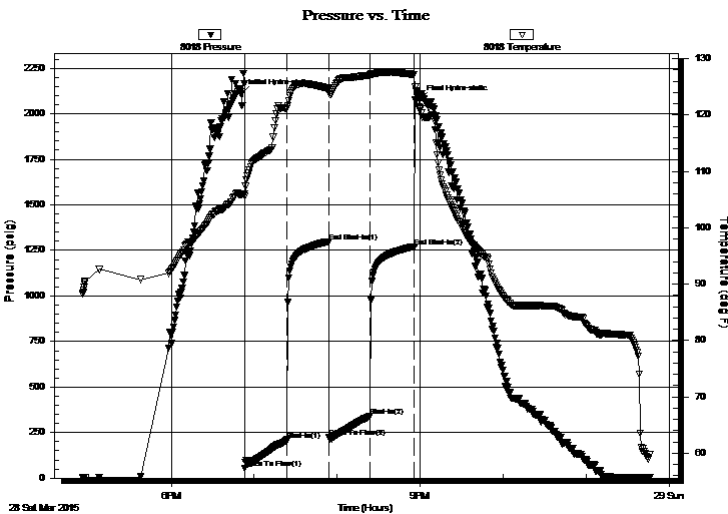
2015.03.28 @ 18:50:47

Time Off Btm:

2015.03.28 @ 20:59:47

TEST COMMENT: 30-IFP-w k to strg in 7min
30-ISIP-1" bl bk
30-FFP-w k to strg in 7 min
30-FSIP-3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.86	105.85	Initial Hydro-static
3	54.11	105.57	Open To Flow (1)
33	210.43	121.16	Shut-In(1)
64	1294.89	124.65	End Shut-In(1)
64	221.71	124.16	Open To Flow (2)
93	342.22	127.07	Shut-In(2)
125	1269.96	127.15	End Shut-In(2)
129	2077.06	121.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	250' GIP	0.00
90.00	SMGO 15%G6%M79%O	0.99
775.00	CO	10.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Co Inc

7-20s-20w Pawnee, KS

3118 Cumming Rd.
Garden City KS 67846

SNS #4-7

Job Ticket: 60577

DST#: 1

ATTN: Jason Alm

Test Start: 2015.03.28 @ 16:55:52

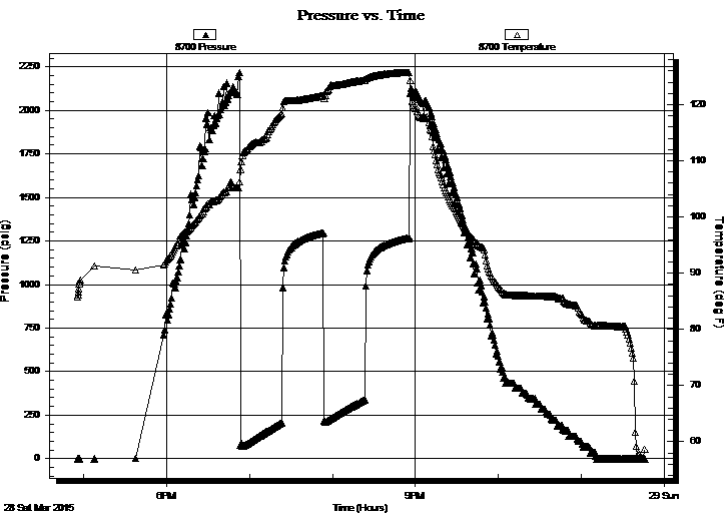
GENERAL INFORMATION:

Formation: Miss			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 18:53:02		Tester: Ray Schwager	
Time Test Ended: 23:46:31		Unit No: 70	
Interval: 4379.00 ft (KB) To 4389.00 ft (KB) (TVD)		Reference Elevations: 2252.00 ft (KB)	
Total Depth: 4389.00 ft (KB) (TVD)		2244.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

Serial #: 8700 Outside

Press@RunDepth: psig @ 4380.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2015.03.28	End Date: 2015.03.28
Start Time: 16:55:39	End Time: 23:46:18
	Last Calib.: 2015.03.28
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 7min
30-ISIP-1" bl bk
30-FFP-w k to strg in 7 min
30-FSIP-3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	250' GIP	0.00
90.00	SMGO 15%G6%M79%O	0.99
775.00	CO	10.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Co Inc

7-20s-20w Pawnee,KS

3118 Cumming Rd.
Garden City KS 67846

SNS #4-7

Job Ticket: 60577

DST#: 1

ATTN: Jason Alm

Test Start: 2015.03.28 @ 16:55:52

Tool Information

Drill Pipe:	Length: 4341.00 ft	Diameter: 3.80 inches	Volume: 60.89 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4379.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	39.00 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			4351.00	
Shut In Tool	5.00			4356.00	
Hydraulic tool	5.00			4361.00	
Jars	5.00			4366.00	
Safety Joint	3.00			4369.00	
Packer	5.00			4374.00	29.00 Bottom Of Top Packer
Packer	5.00			4379.00	
Stubb	1.00			4380.00	
Recorder	0.00	8018	Inside	4380.00	
Recorder	0.00	8700	Outside	4380.00	
Perforations	6.00			4386.00	
Bullnose	3.00			4389.00	10.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Co Inc

7-20s-20w Pawnee,KS

3118 Cumming Rd.
Garden City KS 67846

SNS #4-7

Job Ticket: 60577

DST#: 1

ATTN: Jason Alm

Test Start: 2015.03.28 @ 16:55:52

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	250' GIP	0.000
90.00	SMGO 15%G6%M79%O	0.989
775.00	CO	10.871

Total Length: 865.00 ft Total Volume: 11.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

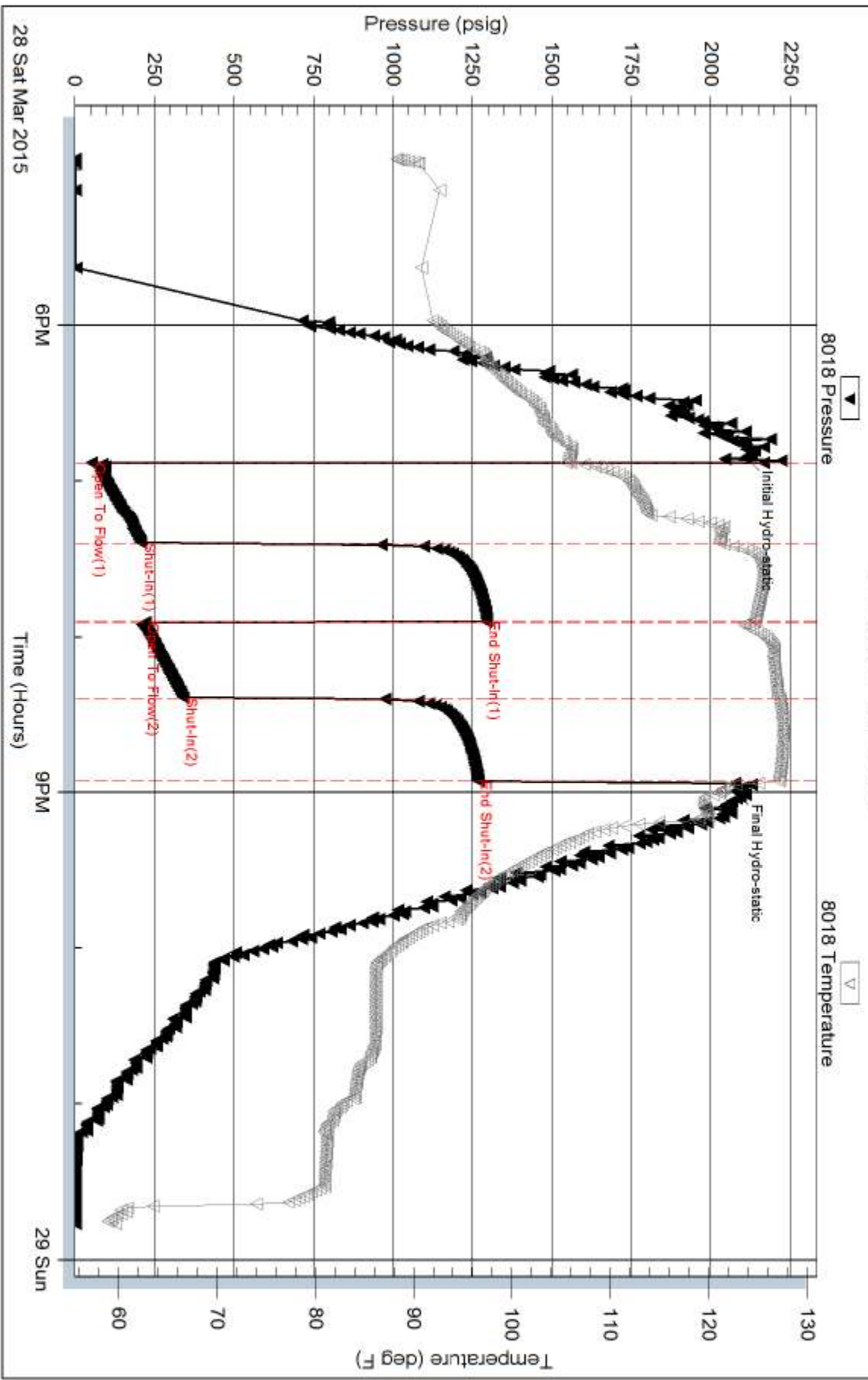
Inside

American Warrior Co Inc

SNS #4-7

DST Test Number: 1

Pressure vs. Time

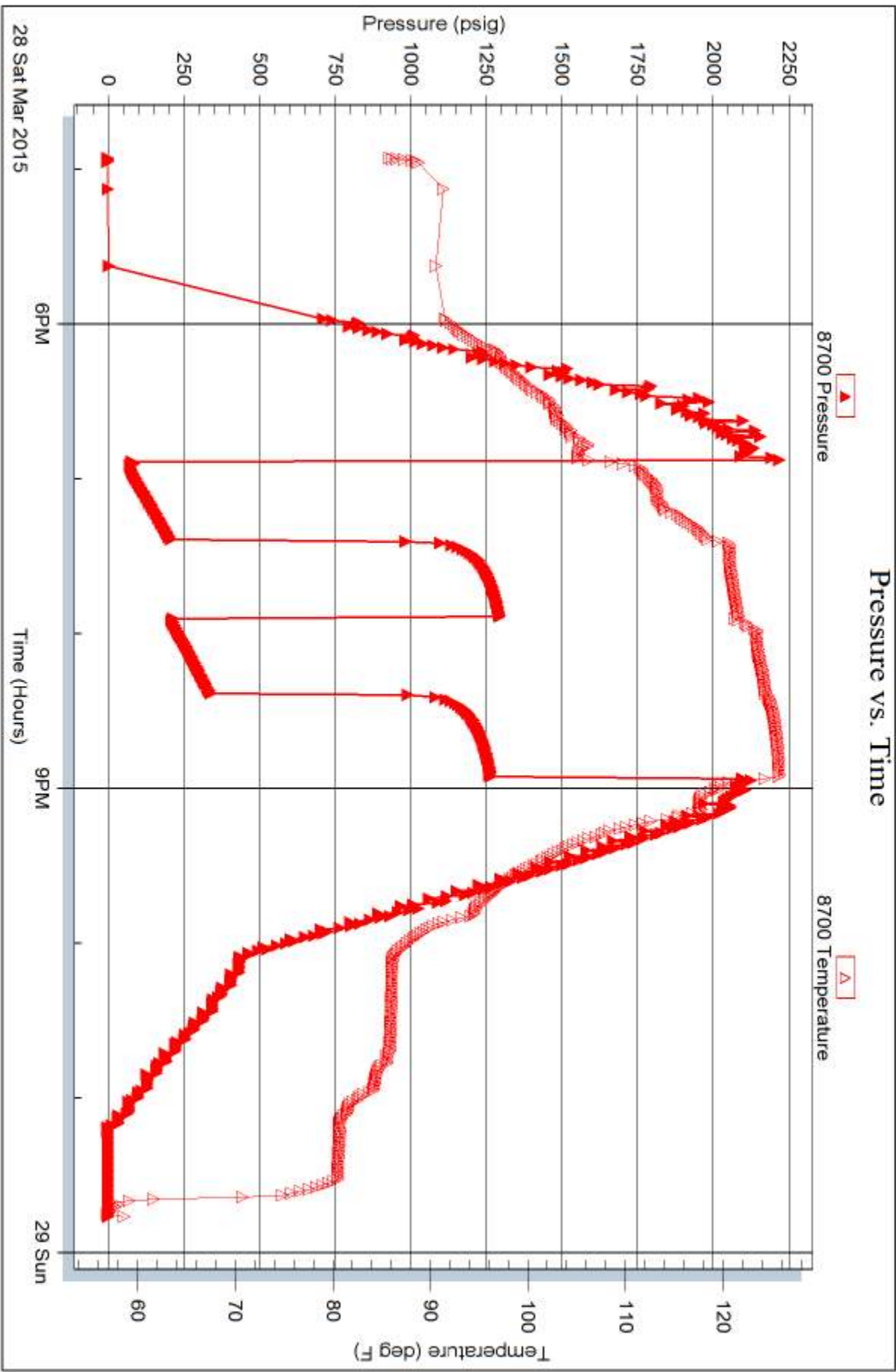


Serial #: 8700

Outside American Warrior Co Inc

SNS #4-7

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60577

4/10

Well Name & No. SNS #4-7 Test No. 1 Date 3-28-15
 Company AMERICAN WARRIOR Co. Inc Elevation 2252 KB 2244 GL
 Address 3118 Cumming Rd. GARDEN CITY, Ks 67846
 Co. Rep / Geo. JASON ALM Rig DISCOVERY rig 3
 Location: Sec. 7 Twp. 20^s Rge. 20^w Co. PAWNEE State Ks

Interval Tested 4379-4389 Zone Tested MISS
 Anchor Length 10 Drill Pipe Run 4341 Mud Wt. 9.1
 Top Packer Depth 4374 Drill Collars Run 30 Vis 55
 Bottom Packer Depth 4379 Wt. Pipe Run - WL 7.2
 Total Depth 4389 Chlorides 2400 ppm System LCM 1#
 Blow Description I FP - WEAK TO STRG IN 7MIN
ISIP - 1" Blow BACK
FFP - WEAK TO STRG IN 7MIN
FSIP - 3/4" Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>SM60</u>	<u>15</u>	<u>79</u>	<u>6</u>	
<u>775</u>	<u>CO</u>				
<u>250</u>	<u>GIP</u>				

Rec Total 865 BHT _____ Gravity 34 API RW - @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2109 Test 1150 T-On Location 1450
 (B) First Initial Flow 54 Jars 250 T-Started 1655
 (C) First Final Flow 210 Safety Joint 75 T-Open 1850
 (D) Initial Shut-In 1294 Circ Sub _____ T-Pulled 2050
 (E) Second Initial Flow 221 Hourly Standby _____ T-Out 2346
 (F) Second Final Flow 342 Mileage 112 RT 112 Comments _____
 (G) Final Shut-In 1269 Sampler _____
 (H) Final Hydrostatic 2077 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1587
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1587

Approved By _____ Our Representative RAY SCHWAGER back
goe

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