Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1251551

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
OG GSW Temp. Abd. CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Duilling Fluid Management Dian
Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	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:

	Page Two	1251551
Operator Name:	Lease Name:	Well #:
Sec TwpS. 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 (Attach Additional She	eets)	Yes No		Log Formatic	on (Top), Depth an	nd Datum	Sample
Samples Sent to Geolog	,	Yes No	Nan	ne		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-		lew Used termediate, producti	on, 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	L CEMENTING / SQ	UEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 an	d 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

140	(11100,	Ship y	u
No	(If No,	skip q	и

Yes Yes

 No
 (If No, skip question 3)

 No
 (If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify For		RD - Bridge Plu Each Interval P		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD: Size: Set /					Packer	r At:	Liner F	Run:	No	
Date of First, Resumed	Producti	on, SWD or ENHF	}.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF G	AS:	_		METHOD		TION:		PRODUCTION INTI	ERVAL:
Vented Solo	1 🗌 L	Jsed on Lease		Open Hole	Perf.	Uually (Submit)	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACO	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Kathryn 2-1
Doc ID	1251551

Tops

Name	Тор	Datum
Anhydrite	1457	796
Heebner	3764	-1511
Lansing	3815	-1562
Base Kanss City	4146	-1893
Pawnee	4273	-2020
Ft. Scott	4295	-2042
Cherokee	4311	-2058
MIssissippian	4370	-2117
TD	4391	-2138

HARDR(Consulting, In			Geologic Report Drilling Time and Sample Log												
Operator Ame	rican W	'arrior	, Inc.		E KB	levation 2253'									
Lease Kathry			No.	2-1	DF	2245'									
-		000			GL Casi	ng Record									
API # 15-135-	23840-0	000			Surface	8" @ 2201									
Field Unknow	'n				Productio										
Location 1800	' FSL &	1850'	FEL.			2" @ 4390'									
	1		1	01	Electr	ical Surveys None									
Sec. 1	Twp.	20s	Rge.	21w		NULL									
County N	ess	State	Kai	isas											
Formatio	on	Log	Tops	Sampl	le Tops	Struct Comp									
Anhydnita				1457	+796	+2									
Anhydrite Base				_	+790	-3									
Dube				1100											
Heebner				3764'	-1511	-1									
Lansing				_	-1562	-4									
BKc				-	-1893										
Pawnee East					-2020 -2042	-2 FL									
Fort Scott Cherokee					-2042	+1									
Mississippian		1		_	-2038	+1 +5									
						~									
Total Depth				4391'	-2138										
Reference Well For 2250' FSL & 1600' FE					ıc. Kathry	/n #1-1									

Drilling Contractor	Disc	overy Drillin	ig Co. Inc.	Rig #3
Commenced	2-5-2015	Comp	leted	2-12-2015
Samples Saved From	L	4000'	То	RTD
Drilling Time Kept F	rom	3700'	То	RTD
Samples Examined F	from	4000'	То	RTD
Geological Supervisi	on From	4000'	То	RTD

Displacement 3600' Mud Type Chemical

Summary and Recommendations

The location for the Kathryn #2-1 was found via 3-D seismic survey. The new well ran structurally higher than 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 1/2 inch production casing to further evaluate the Kathryn #2-1 well.

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

REMARKS	6660 on Loc 5:00 p.m. 2-9-2015									-																			D5T#1	H374'-4388' Mississippia. 10"30":00"30' TF 136-36#	IST 1316,# 10.21 FF 139.151,# FST 139.63,% FST 1257,# 4 FH 2160.#	BHT 122°F Recovery: 215'6TP 255'6CO 90'6SMCO	
SAMPLE DESCRIPTIONS													LafungAturh. Ten. Fr. Subrin Sh. Bin. Gra	Loi Off the Frein For Scot. ound, Borren March. DWS	Sh-Bin	LS- PATINA, Sulgar Oal. W/ Mar Sect. 0000 p. Barren LS- ala	Sh- Gry- Brn	Ls ala	LS. Ton. Subuln. Dol. w/ Pour	Sh- Dik Gay-Bik Lo- Ton-Li, Gay, Subxlu, DNS	Ls. ala sh. Bin. Gin. Gry	15 where by Mathed, Subala	LE. Oftwhich for 51. M. Hlad.	sh - Ork Cury Duk Cun Sh - Bin - Cun	Ls- Oftich: Lt. Gry. Subdr, OWS Ls- ala, S. A- Gry. Wht	Sh. Dik Gry- Gen	sh-Bur Gen	LS. H. Con. Con, Subula, UNS Str. 13/4 (and	Sh- Cary Bin Sh- Cary Bin 15-75- 14 Paris Substan When	Berrin, Massy DNS Sh. Dek berg-Blk SS. Ore St. Evered B Gers, P. Peu Louis Co. Berrin,	St definite way server and	She Big - Fig - Big - Big - Fierk-	Delo- AF With in for far will set S. C. C. A. M. Lin, Fr far Will set S. C. C. A. C. South W. S. F. Forny S. S. Wess and the good of First sec. File, Wess and the Sec. C. S. C. C. S. S. S. S. S. Dr. Maruh (19455) S. F. S. S. S. S. S. Dr. Maruh (19455) S. S. S. S. S. S. S. S. S. M. Maruh (19455) S. S. S. S. S. S. S. S. S. M. Maruh (19455) S. S. S. S. S. S. S. S. S. S. S. S
DRILLING TIME (Legarithmic Scele) 2 3 4 5 10 15		M^{γ}	Heebner 3764'-1511	M	Lansing 3815-1562	my	-m	m	hm-1	_M\1	^~~✓	ww	m.	<u>ر</u>	ᢧ᠕᠕	~~~~	∿∿∿	vmvj	Ŵ	\sim	▲ BKc 4/146'-1893	M	$\sqrt{2}$	-1/	٨	m	Λ_{Λ}	HZT3-2020	4295-2042	Cherokee 4311-2058	~\∫	Mississippian	
	'W	30 40 30								V V			0 9			0.0	0.0	0 9	2 0	2 0		N	2 Q 8		0		ς 3	8 8	V		V		Lyn

Geological Report

American Warrior, Inc. **Kathryn #2-1** 1800' FSL & 1850' FEL Sec. 1 T20s R21w Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Kathryn #2-1 1800' FSL & 1850' FEL Sec. 1 T20s R21w Ness County, Kansas API # 15-135-25846-0000
Drilling Contractor:	Discovery Drilling Rig #3
Geologist:	Jason T Alm
Spud Date:	January 5, 2015
Completion Date:	January 12, 2015
Elevation:	2245' Ground Level 2253' Kelly Bushing
Directions:	Bazine KS, 4 mi East on Hwy 96 to the HH Rd. 8 mi South to 50 Rd. East 1 ¹ / ₂ mi, North into location.
Casing:	220' 8 5/8" surface casing 4390' 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. "Brett Dickinson"
Problems:	None
Remarks:	None

Formation	American Warrior, Inc. Kathryn #2-1 Sec. 1 T20s R21w 1800' FSL & 1850' FEL
Anhydrite	1457', +796
J	,
Base	1486', +767
Heebner	3764', -1511
Lansing	3815', -1562
BKc	4146', -1893
Pawnee	4273', -2020
Fort Scott	4295', -2042
Cherokee	4311', -2058
Mississippian	4370', -2117
RTD	4391', -2138

Formation Tops

Sample Zone Descriptions

Mississippian Osage (4370', -2117): Covered in DST #1

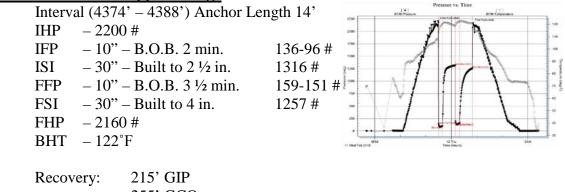
 Δ – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy weathered chert with good vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, fair to bright yellow fluorescents, 31-63 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc.

"Brett Dickinson"

DST #1 Mississippian Osage



255' GCO 90' GSMCO 80% Oil

Structural Comparison

Formation Anhydrite Base	American Warrior, Inc. Kathryn #2-1 Sec. 1 T20s R21w 1800' FSL & 1850' FEL 1457', +796 1486', +767	American Warrior, Inc. Kathryn #2-1 Sec. 1 T20s R21w 2250' FSL & 1600' FEL 1458', +794 1482', +770	(+2) (-3)	Ritchie A Scott Young Kathryn #1 Sec. 1 T20s R21w 2310' FSL & 1980' FEL 1462', +791 1491', +762	(+5) (+5)
Heebner	3764', -1511	3762', -1510	(-1)	3777', -1524	(+13)
Lansing	3815', -1562	3810', -1558	(-4)	3829', -1576	(+14)
BKc	4146', -1893	NA	NA	4160', -1907	(+14)
Pawnee	4273', -2020	4270', -2018	(-2)	NA	NA
Fort Scott	4295', -2042	4294', -2042	FL	4312', -2059	(+17)
Cherokee	4311', -2058	4311', -2059	(+1)	NA	NA
Mississippian	4370', -2117	4374', -2122	(+5)	4382', -2129	(+12)

Summary

The location for the Kathryn #2-1 was found via 3-D seismic survey. The new well ran structurally higher than 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 $5\frac{1}{2}$ inch production casing to further evaluate the Kathryn #2-1 well.

Recommended Perforations

Mississippian Osage (4370' – 4385')

DST #1

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

SWIFT OPERATOR	DATE SIGNED	MUST BE SIGNED BY CL START OF WORK OR DE X	LIMITED WARRANTY provisions	LEGAL TERMS: the terms and con	(C.S.C	5781	2510	818	D.C	585	STEP	515	PRICE	REFERENT LOCATION		ed T	1. LAD CATIONS	Sen		S
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File	orige U.	arrior	WELL NO.	2-1	LEASE KA		JOB TYPE Jun / line p:	PC TICKET NO. 28/65
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATIO	N AND MATERIALS
							150 ste Stadad com	+ 2% all 3/ CC
	÷						8 + 23 Chsing YD.	2218
							150sk Stadadcon 85×23*Cusing TD. 5jts total pipe o	220:83
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	1740						start 88 casing in	well
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SWIFT Services, Inc. **JOB LOG** DATE PAGE NO. WH VA CUSTONER WELL NO. JOB TYPE comit long string 29169 Sfciar PRESSURE (PSI) CHART NO. PUMPS RATE (BPM) VOLUME (BBL) (GAL) TIME DESCRIPTION OF OPERATION AND MATERIALS T C TUBING CASING λ. 175st EA-2 com + ~/ # floceles 53× 15.5 + CHSing 111 the TO = 4391' Controlize 1,2,3,4,75 Andret 5,75 Post (ollar - 75 1446' tot 0 pipe 4353' Shoejt 3951' on loc TRY 114 1030 start 5: " 15. Scasing in well ____ 1110 Doop boll - cieculate -1200 200 Flimp 12 bbl and Flish 200 Pump 20 bbl KCL fligh 1318 <u>3</u>{2 24 Plug RH - MH 305k - 203k-200 Mix EA-2 coment 12534 @ 15:3000 1345 34 20 Drop latch dran plug 6100 200 Displace plug 1405 ß 20 **9B** 1500 LAnd plug 1420 104 Palane pressent to truck - dried up 1435 wash touck Rich up job comfete 1**AD** And the second Alman Alexander And Prove

SWIFT OPERATOR		DATE SIGNED	X START OF WORK OR DELV	LIMITED WARRANTY provisions	LEGAL TERMS: C the terms and condit				SB 3	551	290	4 e	330	5760	575	PRICE	REFERRAL LOCATION	*	3.	SERVICE LOCATIONS	Services,		15
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<i>b</i>	-	TOTAL	Twx 97		PAGE TOTAL	•		3000	m Chi	1 50	00 C &	2025	1575	SUS	5	UNIT		- 20-24), ATTOM	-6 15 OMNIER	PAGE 1		TICKET
Thank You!		4087 72	127 47		3960 25	 	- - - - - -	or top	00/056	262 50	84 80	5625	1732,150	00 2581	12500	AMOUNT				×	_Q		28175

0 SWIFT Services, Inc. DATE 7 Feb 14 PAGE NO. **JOB LOG** CUSTOM R Mecican Warrior PRESSURE (PSI) JOB TYPE COMMENT port coller TICKET NO. WELL NO. 2-1 PUMPS CHART NO. VOLUME (BBL) (GAL) RATE (BPM) TIME DESCRIPTION OF OPERATION AND MATERIALS CASING TC TUBING 1755k SMD cament u/ pt flocela 27,53 postroller - 1446 1330 on loc TRK 114 1350 test to locopsi - hold 1000 100 inj rate 31 500 ps; 3ź 1404 2 500 mix SHD coment @ 11.2 ppg--fluid to surface -1412 3ź 200 32 4 200 to surface ---1429 35 58 coment 400 Displace with H2O close port course test to 1000 psi - held 5 410 143B 1000 1000 Run 5 joints Reverse hole clean 145 20 2 cent flago -poll tool Wash terk RACK up job amplite 1530 gan roran and a



DRILL STEM TEST REPORT

Prepared For: American Warrior, Inc.

PO Box 399 Garden City KS 67846

ATTN: Jason Alm

Kathryn #2-1

1-20s-21w Ness,KS

2015.02.11 @ 20:40:00 Start Date: End Date: 2015.02.12 @ 03:25:00 Job Ticket #: 53847 DST #: 1

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

10D		DRILL STEM TES	ST REP	ORT				
	RILOBITE	American Warrior, Inc.		1-2	0s-21w I	Ness, KS	;	
	ESTING , INC.	PO Box 399		Ka	thryn #2	:-1		
		Garden City KS 67846		Job	Ticket: 53	847	DST	#:1
NOK		ATTN: Jason Alm		Tes	t Start: 20)15.02.11	@ 20:40:00	0
GENERAL IN	FORMATION:							
Formation: Deviated: Time Tool Open Time Test Ender		ft (KB)		Tes	ter: E	Conventio Brett Dicki 81		Hole (Initial)
Interval: Total Depth: Hole Diameter:	4374.00 ft (KB) To 43 4388.00 ft (KB) (T\ 7.88 inchesHole			Ref	erence ⊟e KB t	evations: o GR/CF:	2245.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 87 Press@RunDep Start Date: Start Time:		 @ 4385.00 ft (KB) End Date: End Time: 	2015.02.12 03:24:59	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000. 2015.02. 1 @ 23:29: 2 @ 00:51:	00
	ISI-2 1/2" blow FF-BOB in 3 1/2 FSI-4" blow Pressure vs. T				RESSUR			
2250	\$736 Pressure	5736 Temperature	Time (Min.)	Pressure (psig)	Temp (deg F)	Annota	ition	
2000		110	0	2200.03	108.08		dro-static	
1750			2	135.55 95.78	112.84 120.11	Open To Shut-In(*		
1500			40	1315.87		End Shu		
1230			41	159.34		Open To		
				151.06 1257.17	122.10 120.75	Shut-In(2 End Shu		
750 550 220 	12 hu Treftos)		83	2159.62	116.42		dro-static	
	Recovery			ļ	Ga	s Rates		
Length (ft)	Description	Volume (bbl)			Choke (i		ssure (psig)	Gas Rate (Mcf/d)
90.00	GSMCO 15%G 80%O 59	%M 0.99			- !	I		<u>I</u>
255.00	GO 10%G 90%O	3.58						
0.00	215' GIP	0.00						
Trilohite Tes		Ref No: 53847	•		D : ()	2015 02 2		

	DITE	DRILL STEM T	EST REF	PORT		
	ITE ING , INC	American Warrior, Inc.		1-20s-21	w Ness,KS	
I EST	ING , INC.	PO Box 399		Kathryn	#2-1	
		Garden City KS 67846		Job Ticket:	53847	DST#:1
		ATTN: Jason Alm		Test Start:	2015.02.11 (@ 20:40:00
GENERAL INFORMAT	ION:					
Formation:MississDeviated:NoTime Tool Opened:23:30:15Time Test Ended:03:25:00	Whipstock:	ft (KB)		Test Type: Tester: Unit No:	Conventior Brett Dickir 81	nal Bottom Hole (Initial) nson
Total Depth: 4388.0	0 ft (KB) (TV	88.00 ft (KB) (TVD) D) Condition: Fair			Elevations:	2253.00 ft (KB) 2245.00 ft (CF) 8.00 ft
Press@RunDepth:	nside psig (2015.02.11 20:40:05	 4385.00 ft (KB) End Date: End Time: 	2015.02.11 03:24:5			8000.00 psig 2015.02.12
FF-	2 1/2" blow BOB in 3 1/2 r -4" blow Pressure vs. Ti			PRESS		
250		5534 Temperature	Time	Pressure Tem		
2000 1750 1750 1750 1000 750 970 1000 1000 1000 1000 1000 1000 1000	C Thu Time (Fices)		123 (Min.) 110 100 50 T 70 T 70 T 70 T 50 50 50 50 50 50	(psig) (deg		
	Recovery			-, ,	Gas Rates	
Length (ft)	Description	Volume (bbl)				sure (psig) Gas Rate (Mcf/d)
	%G 80%O 5%			·		+
255.00 GO 10%G	90%O	3.58				
0.00 215' GIP		0.00				
		Pof No: 53847			od: 2015 02 1	

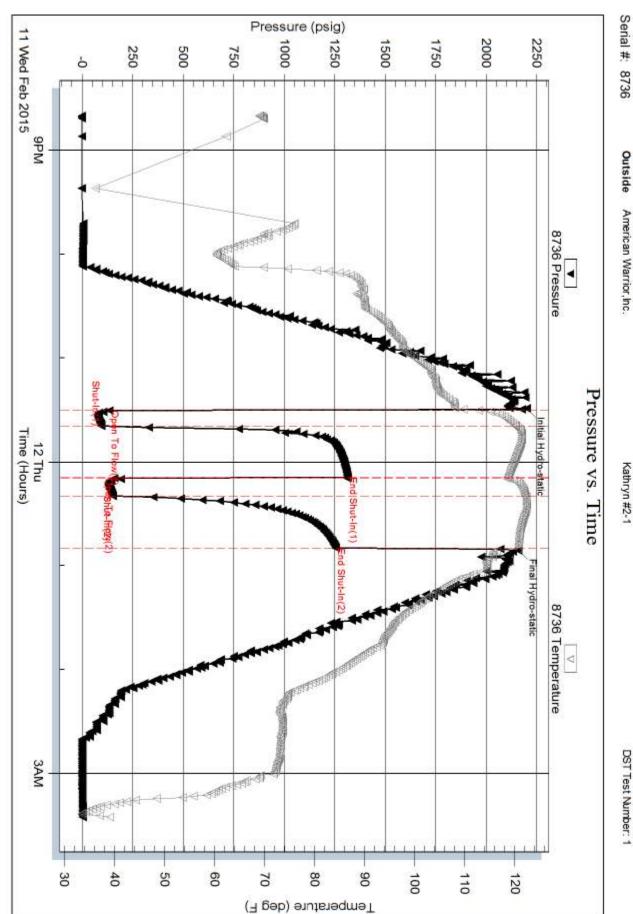
ACE TOHOU		DRI	LL STE	MTEST	REPO	RT	TOOL DIAGRA
	BITE TNG , INC	America	an Warrior,In	С.		1-20s-21w Ness,KS	
EST	ING , INC					Kathryn #2-1	
		Garden	City KS 678	346		Job Ticket: 53847	DST#:1
NO.		ATTN:	Jason Alm			Test Start: 2015.02.11 @	20:40:00
Tool Information		ļ					
Drill Pipe: Length:	4342.00 ft	Diameter:	3.80 ir	nches Volume:	60.91 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length:	ft	Diameter:	2.70 ir	nches Volume:	- bbl	0	
Drill Collar: Length:	30.00 ft	Diameter:	2.25 ir	nches Volume:	0.15 bbl		
Drill Pipe Above KB:	26.00 ft			Total Volume:	- bbl		0.00 ft
Depth to Top Packer:	4374.00 ft					String Weight: Initial	60000.00 lb
Depth to Bottom Packer:	ft					Final	61000.00 lb
Interval betw een Packers:	14.00 ft						
Tool Length:	42.00 ft						
Number of Packers:	2	Diameter:	6.75 ir	nches			
T 10 1							
Tool Comments:							
Tool Comments:							
	Lei	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Tool Description	Lei	ngth (ft) 5.00	Serial No.	Position	Depth (ft) 4351.00	Accum. Lengths	
Tool Description Shut In Tool	Lei	• • •	Serial No.	Position	• • • •	Accum. Lengths	
Tool Description Shut In Tool Hydraulic tool	Lei	5.00	Serial No.	Position	4351.00	Accum. Lengths	
Tool Description Shut In Tool Hydraulic tool Jars	Lei	5.00 5.00	Serial No.	Position	4351.00 4356.00	Accum. Lengths	
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint	Lei	5.00 5.00 5.00	Serial No.	Position	4351.00 4356.00 4361.00	Accum. Lengths	Bottom Of Top Packe
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Packer	Lei	5.00 5.00 5.00 3.00	Serial No.	Position	4351.00 4356.00 4361.00 4364.00		Bottom Of Top Packe
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	Lei	5.00 5.00 5.00 3.00 5.00	Serial No.	Position	4351.00 4356.00 4361.00 4364.00 4369.00		Bottom Of Top Packe
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	Lei	5.00 5.00 5.00 3.00 5.00 5.00	Serial No.	Position	4351.00 4356.00 4361.00 4364.00 4369.00 4374.00		Bottom Of Top Packe
Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations	Lei	5.00 5.00 5.00 3.00 5.00 5.00 1.00	Serial No.	Position	4351.00 4356.00 4361.00 4364.00 4369.00 4374.00 4375.00		Bottom Of Top Packe
Tool Comments: Tool Description Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder Recorder	Lei	5.00 5.00 5.00 3.00 5.00 5.00 1.00 10.00			4351.00 4356.00 4361.00 4364.00 4369.00 4374.00 4375.00 4385.00		Bottom Of Top Packe

RILOBI	IE Americ	can Warrior,Inc.	1-20s-21w		JID SUMMAR
TESTI	NG MC				
		x 399 n City KS 67846	Kathryn #		ST#: 1
	ATTN:	Jason Alm		2015.02.11 @ 20:40	
ulteril.					
ud and Cushion Infor	rmation				
ud Type: Gel Chem		Cushion Type:		Oil API:	38 deg API
ud Weight: 9.00 lb/	-	Cushion Length:	ft	Water Salinity:	ppm
scosity: 65.00 se		Cushion Volume:	bbl		
ater Loss: 7.98 in ³		Gas Cushion Type:			
	nm.m	Gas Cushion Pressure:	psig		
linity: 3800.00 pp er Cake: inc	ches				
ecovery Information					
•		Recovery Table			
	Length ft	Description	Volume bbl]	
	90.00	GSMCO 15%G 80%O 5%M	0.989	9	
	255.00	GO 10%G 90%O	3.577	7	
	0.00	215' GIP	0.000		
Labo	n Fluid Samples: 0 oratory Name:	Num Gas Bombs: 0 Laboratory Location:	Serial #	:	
Labo			Serial #	:	
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #		
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #	:	
Labo	oratory Name:		Serial #		
Labo	oratory Name:		Serial #		

Printed: 2015.02.12 @ 11:20:16

Ref. No: 53847

Trilobite Testing, Inc



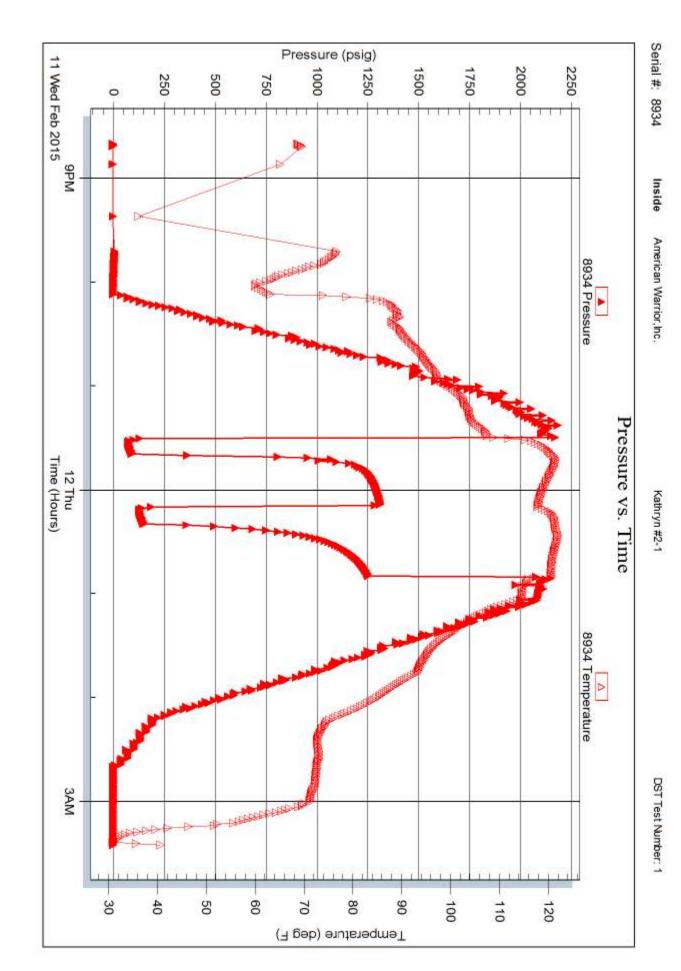
Kathryn #2-1

DST Test Number: 1

Printed: 2015.02.12 @ 11:20:16

Ref. No: 53847





RILOBITE	Test Ticket			
ESTING IN		NO.	53847	
4/10 1515 Commerce Parkw	vay • Hays, Kansas 67601		00041	
Well Name & No. Kathryn #2-1	Test No.	1	Date 2 - 11	\$15
Company American Warrier, Ir				
Address PO Box 399 Garden				
Co. Rep/Geo. Jason Alm		covery # 3		
Location: Sec. 1 Twp. 20				s
Interval Tested 4374-4388				
Anchor Length 14	Drill Pipe Run	-	Mud Wt. 9.0	-
Top Packer Depth 4369	Drill Collars Run 30		Vis 65	
Bottom Packer Depth 4374	Wt. Pipe Run		WL_ 8.0	
Total Depth 4388	Chlorides 3,800	_ppm System	LCM	
Blow Description IF - BOB; 2 min			-	
ISI - 2 1/2 in blo.				
FF - BOBin 342m	1. r			
FSI - 4in blow				
Rec 90 Feet of SMCO	15%gas	80 %oil	%water	5 %mud
Rec 255 Feet of \$60	10 %gas	90 %oil	%water	%mud
Rec Feet of 215 FT C	SP %gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Total 345 BHT	Gravity API RW	°	F Chlorides	ppm
(A) Initial Hydrostatic 2200		T-On L	ocation 19:50	_
(B) First Initial Flow		T-Star	ted 20:40	
(C) First Final Flow 96	Safety Joint 75	T-Ope	n 23:30	
(D) Initial Shut-In 1, 316	Circ Sub	T-Pulle		
(E) Second Initial Flow 159	Hourly Standby	T-Out	3,25	
(F) Second Final Flow 15 1	Mileage 112 rT 112	Comm	nents	
(G) Final Shut-In 1. 257	Sampler			
(H) Final Hydrostatic 2,160	_ G Straddle			
	Shale Packer		uined Shale Packer	
Initial Open U		u	Ruined Packer	
Initial Shut-In 30	Extra Packer		Extra Copies	
01	Extra Recorder		Sub Total Total	
30	Day Standby			
Final Shut-In	Accessibility	MP/D	ST Disc't	
	Sub TotalOur Representativ			

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.