KOLAR Document ID: 1420789

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 #	_ API No.:
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: ()	□ NE □ NW □ SE □ SW
CONTRACTOR: License #	
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
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 EOR □ Conv. to SWD □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Produce	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	- Quarter Sec TwpS. R
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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1420789

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	BOYE 1-9
Doc ID	1420789

All Electric Logs Run

CNL/CDL	
DIL	
MEL	
BHCS	

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	BOYE 1-9
Doc ID	1420789

Tops

Name	Тор	Datum
Topeka	2644	787
Heebner	2899	1042
Toronto	2918	1061
Douglas	2928	-1071
Lansiong	3016	1159
ВКС	3287	1430
Simpson	3332	1475
Arbuckle	3350	1502

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	BOYE 1-9
Doc ID	1420789

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.250	8.625	23	431	common	250	2%gel 3%cc



American Warrior Inc

TICKET

	DATE SIGNED TIME SIGNED	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVEBY OF GOODS	LIMITED WARRANTY provisions.	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	LEGAL TERMS: Customer hereby acknowledges and agrees of the terms and conditions on the reverse side hereof which include,		3	581		279	278			000		5.12	575	PRICE SECONDARY REFERENCE/ ACC	REFERRAL LOCATION INVOICE INSTRUCTIONS		WSS () +y , (C) BYSERVICE DISCOUNTING DISC		ices, 1		
	705 700 0200	P.O. BOX 466	SWIFT SERVICES, INC.	TY, and	include, REMIT PAYMENT TO:		Drawas	Service Charac Convent		Bentonite (ge)	Calcium Chloride		Ţ	D-AIT	7/	Em Charle - Shallow Surfa	MILEAGE # 1/3	ACCT DF DESCRIPTION		Development Coment Surface	SCAUPTY Drilling LOB PURPOSE Rig 4	Bye Ellsworth		Citt, State, Air Code	275 CODE
CUSTOMER DID NOT WISH TO RESPOND	ARE YOU SATISFIED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	WE UNDERSTOOD AND MET YOUR NEEDS?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY AGREE DECIDED AGREE	80 m. 784 7M	250 81132400 166		5/585	12,583	250 583			۲		8	מזץ. עאַא מדץ. עאַא			LOCATION WELL PERMIT NO.	D DELIVERED TO	STATE ICHY DATE		_
一変み	TOTAL / / / / /	75% 30 K	Alkaria A		PAGE TOTAL	# 4990	₩.	1:25 437 50		180	200 000		30 N3CE 00 01		126 of Ch	675 8 875 =	400	AMOUNT			WELL LOCATION	05/18		٠.	77400

APPROVAL

Thank You!

PAGE NO. SWIFT Services, Inc. JOB LOG PRESSURE (PSI)
TUBING CASING CUSTOMER PUMPS RATE (BPM) VOLUME T C (BBL) (GAL) On location, set up trucks. 0315 430' of 8 5%"x 23# Break Circ on bottom. 0600 Start Water abend
Start Comt, 250 5%s
Fin Comt, Start Displacement
Fin Displacement
Short in, Cont Circ to Surface
Release Truck 0615 26/4 0645 Wash up Lack up Job Complete 0705 Thanks
Jon, Austin, Russell



SERVICE LOCATIONS 1. NESS CON 1. 2. TICKET TYPE M. SERVICE SERVICE SERVICE SERVICE NORTH TOKET TYPE M. SERVICE SERVICE SERVICE SERVICE NORTH TOKET TYPE M. SERVICE SERVICE SERVICE SERVICE NORTH TOKET TYPE M. SERVICE SERVICE SECONDARY REFERENCE PART NUMBER STANS SERVICE INTERVICE NORTH TOKET TYPE M. SERVICE SECONDARY REFERENCE PART NUMBER	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR ACCOUNT LOC ACCOUNT	BOYE ATEGORY DESCRIP MILEAGE # 112	COUNTY/PARISH EUSWCATH RIG NAME/NO. PURPOSE P, T, A,	STATE CITY SHIPPED DELIVERED TO VIA WELL PERMIT NO. GTY. U/M QTY. U/M	DATE SOME
REFERRAL LOCATION	STRUCTIONS		-		Stall 15
	ACCOUNTING)N	U/M	U/M
	(MILEAGE #		\$0 _m	<u>S</u>
クルク		CHARGE -	PTA	Sear.	87500
# 6		750 966		- 2	83/8" 130,00
330	- Care	to the Pozmex	(45, 651)	210/5/2	10/60
するなり		' '		SO USS	2,50
200	· Prince	D-AD		2 641	42,00
(85		SERVICE CHARGE	E CEMENT	2,10,5%	24.1
583		ſ		17697 es 530.917m	o. Girm 85
					— [
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	by acknowledges and agrees to everse side hereof which include,	REMIT PAYMENT TO:		AGREE	PAGE TOTAL
but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	T, RELEASE, INDEMNITY, and s.	SWIFT SERVICES, INC.	•	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	
30 AC	TOMER'S AGENT PRIOR TO S.	P.O. BOX 466 NESS CITY, KS 67560		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	75%
S/ - Q! - SE TAGE	TIME SIGNED ELAM.	785-798-2300		CUSTOMER DID NOT WISH TO RESPOND	□ NO TOTAL TO RESPOND
сиѕтом	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.	ALS AND SERVICES The cust	tomer hereby acknowledge	es receipt of the materials and	services listed on this tick

SWIFT OPERATOR WAYNE WIZSON

APPROVAL

Thank You!

DATE PAGE NO. SWIFT Services. Inc. 8-10-18 JOB LOG ` JOB TYPE P.T.A. AMERICA WARRED TAC. WELL NO. BOYE 031479 PRESSURE (PSI) CHART NO. DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING ON LOCATION 1400 85/8 e 431' 77/8 HOLE = 3450 1ST PLUG - 35 SKS CMT . 3360' 1515 9.2 2 ND PLUG - 35 SKS CMT e 1350' 9.2 1640 380 PWG - 35 SXS CMT & 950' 1705 9.2 4TH PLUS - 35 SKS CMT & 480' 1730 9.2 5th PLUG - 25 SXS CMT & 60' W/ WOOD PLUG 6.5 1840 6th Prus 30 sxs RH , 15 sxs MH 8/4 1900 WASH TRUCK THANK YOU WAYNE, PRESTON, GEDEON JOB COMPLETE 2000



Prepared For: American Warrior Inc

PO Box 399 Garden City, KS 67846

ATTN: Jason T Alm

Boye #1-9

9-16s-10w Ellsworth,KS

Start Date: 2018.08.10 @ 04:22:58 End Date: 2018.08.10 @ 11:53:58 Job Ticket #: 57894 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



American Warrior Inc

9-16s-10w Ellsworth, KS

PO Box 399

Garden City, KS 67846

ATTN: Jason T Alm

Boye #1-9

Job Ticket: 57894 DST#: 1

Test Start: 2018.08.10 @ 04:22:58

Matt Smith

68

GENERAL INFORMATION:

Formation: Simpson/Arbuckle

Deviated: Whipstock: Test Type: Conventional Straddle (Initial) ft (KB)

Time Tool Opened: 06:42:13 Tester: Time Test Ended: 11:53:58 Unit No:

3327.00 ft (KB) To 3379.00 ft (KB) (TVD) Reference Elevations: Interval: 1857.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD) 1849.00 ft (CF)

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 8.00 ft

Serial #: 8792 Outside

3337.00 ft (KB) Capacity: Press@RunDepth: 971.58 psig @ 8000.00 psig

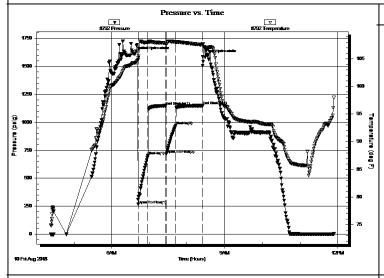
Start Date: 2018.08.10 End Date: 2018.08.10 Last Calib.: 2018.08.10 Start Time: 04:23:08 End Time: 11:53:58 Time On Btm: 2018.08.10 @ 06:37:43 Time Off Btm: 2018.08.10 @ 08:25:13

TEST COMMENT: IF: Strong Blow . BOB in 2 mins. Built to 60" decreased to 10".

ISI: No Blow.

FF: Strong Blow . BOB in 2 mins. Built to 56" decreased to 11".

FSI: No Blow.



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1612.80	104.32	Initial Hydro-static
5	265.98	105.15	Open To Flow (1)
20	701.57	108.02	Shut-In(1)
49	1148.82	107.84	End Shut-In(1)
50	714.95	107.69	Open To Flow (2)
65	971.58	108.04	Shut-In(2)
107	1149.68	107.57	End Shut-In(2)
108	1586.04	107.71	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
1887.00	SW 100%w	26.18
256.00	MW 40%m 60%w	3.59
20.00	WM 40%w 60%m	0.28
0.00	104' GIP	0.00

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

Trilobite Testing, Inc. Ref. No: 57894 Printed: 2018.08.13 @ 13:35:13



American Warrior Inc

9-16s-10w Ellsworth, KS

PO Box 399

Garden City, KS 67846

Boye #1-9

Job Ticket: 57894

DST#: 1

ATTN: Jason T Alm Test Start: 2018.08.10 @ 04:22:58

GENERAL INFORMATION:

Formation: Simpson/Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 06:42:13 Tester: Matt Smith
Time Test Ended: 11:53:58 Unit No: 68

Interval: 3327.00 ft (KB) To 3379.00 ft (KB) (TVD) Reference ⊟evations: 1857.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD) 1849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8671 Inside

Press@RunDepth: psig @ 3337.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2018.08.10 End Date: 2018.08.10 Last Calib.: 1899.12.30

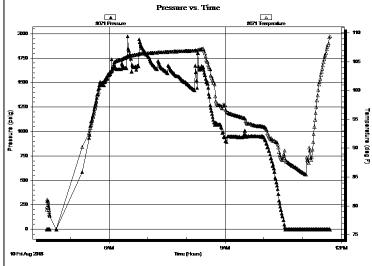
Start Time: 04:22:54 End Time: 11:42:48 Time On Btm: Time Off Btm:

TEST COMMENT: IF: Strong Blow . BOB in 2 mins. Built to 60" decreased to 10".

ISI: No Blow.

FF: Strong Blow . BOB in 2 mins. Built to 56" decreased to 11".

FSI: No Blow.



Pl	RESSUR	RE SU	M	MARY

Timo	Droceuro	Tomp	Annotation
			Annotation
(Min.)	(psig)	(deg F)	
			1
	Time (Min.)		

Recovery

Length (ft)	Description	Volume (bbl)
1887.00	SW 100%w	26.18
256.00	MW 40%m 60%w	3.59
20.00	WM 40%w 60%m	0.28
0.00	104' GIP	0.00

Gas Rates

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

Trilobite Testing, Inc Ref. No: 57894 Printed: 2018.08.13 @ 13:35:13



American Warrior Inc

9-16s-10w Ellsworth, KS

68

Reference Elevations:

PO Box 399

Garden City, KS 67846

Job Ticket: 57894

Boye #1-9

Unit No:

DST#: 1

ATTN: Jason T Alm Test Start: 2018.08.10 @ 04:22:58

GENERAL INFORMATION:

Formation: Simpson/Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 06:42:13
Time Test Ended: 11:53:58

Interval: 3327.00 ft (KB) To 3379.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Tester: Matt Smith

1857.00 ft (KB)

 $\begin{array}{ccc} & & 1849.00 & \text{ft (CF)} \\ \text{KB to GR/CF:} & & 8.00 & \text{ft} \end{array}$

Serial #: 8931 Below (Straddle)

 Press@RunDepth:
 psig
 @
 3415.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2018.08.10 End Date: 2018.08.10 Last Calib.: 2018.08.10

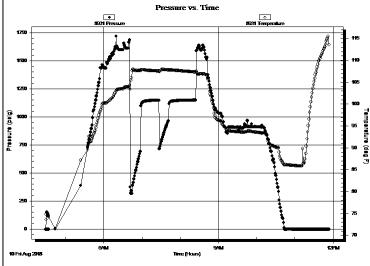
Start Time: 04:28:42 End Time: 11:54:06 Time On Btm: Time Off Btm:

TEST COMMENT: IF: Strong Blow . BOB in 2 mins. Built to 60" decreased to 10".

ISI: No Blow.

FF: Strong Blow . BOB in 2 mins. Built to 56" decreased to 11".

FSI: No Blow.



PRESSURE S	UMMARY
------------	--------

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

Recovery

Length (ft)	Description	Volume (bbl)
1887.00	SW 100%w	26.18
256.00	MW 40%m 60%w	3.59
20.00	WM 40%w 60%m	0.28
0.00 104' GIP		0.00

Gas Rates

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

Trilobite Testing, Inc Ref. No: 57894 Printed: 2018.08.13 @ 13:35:13



TOOL DIAGRAM

American Warrior Inc

9-16s-10w Ellsworth, KS

PO Box 399

Boye #1-9

Job Ticket: 57894

DST#: 1

Garden City, KS 67846 ATTN: Jason T Alm

Test Start: 2018.08.10 @ 04:22:58

Tool Information

Drill Collar:

Drill Pipe: Length: 3295.00 ft Diameter: Heavy Wt. Pipe: Length:

0.00 ft Diameter: 32.00 ft Diameter: 3.80 inches Volume: 46.22 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.16 bbl

Total Volume:

Tool Weight: 2100.00 lb Weight set on Packer: 26000.00 lb Weight to Pull Loose: 70000.00 lb

46.38 bbl

Tool Chased 0.00 ft String Weight: Initial 50000.00 lb

Final 62000.00 lb

Drill Pipe Above KB: 20.00 ft Depth to Top Packer: 3327.00 ft

Length:

Depth to Bottom Packer: 3376.00 ft Interval between Packers: 49.00 ft

Tool Length: 141.00 ft

Number of Packers: 3 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3308.00		
Shut In Tool	5.00			3313.00		
Hydraulic tool	5.00			3318.00		
Packer	5.00			3323.00	20.00	Bottom Of Top Packer
Packer	4.00			3327.00		
Stubb	1.00			3328.00		
Perforations	8.00			3336.00		
Change Over Sub	1.00			3337.00		
Recorder	0.00	8671	Inside	3337.00		
Recorder	0.00	8792	Outside	3337.00		
Blank Spacing	32.00			3369.00		
Change Over Sub	1.00			3370.00		
Perforations	5.00			3375.00		
Blank Off Sub	1.00			3376.00	49.00	Tool Interval
Packer	3.00			3379.00		
Stubb	1.00			3380.00		
Perforations	1.00			3381.00		
Change Over Sub	1.00			3382.00		
Blank Spacing	32.00			3414.00		
Change Over Sub	1.00			3415.00		
Recorder	0.00	8931	Below	3415.00		
Perforations	30.00			3445.00		
Bullnose	3.00			3448.00	72.00	Bottom Packers & Anchor
Total Tool Length	: 141.00					

Trilobite Testing, Inc Ref. No: 57894 Printed: 2018.08.13 @ 13:35:13



FLUID SUMMARY

American Warrior Inc

9-16s-10w Ellsworth, KS

PO Box 399

Garden City, KS 67846

Boye #1-9

Job Ticket: 57894

DST#: 1

ATTN: Jason T Alm

Test Start: 2018.08.10 @ 04:22:58

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 4600 ppm

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 9.17 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 4600.00 ppm Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Length Description ft	
1887.00	SW 100%w	26.178
256.00	MW 40%m 60%w	3.591
20.00	WM 40%w 60%m	0.281
0.00	104' GIP	0.000

Total Length: 2163.00 ft Total Volume: 30.050 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Dropped the bar.

Trilobite Testing, Inc Ref. No: 57894 Printed: 2018.08.13 @ 13:35:14

DST Test Number: 1

105

12PM

80

75

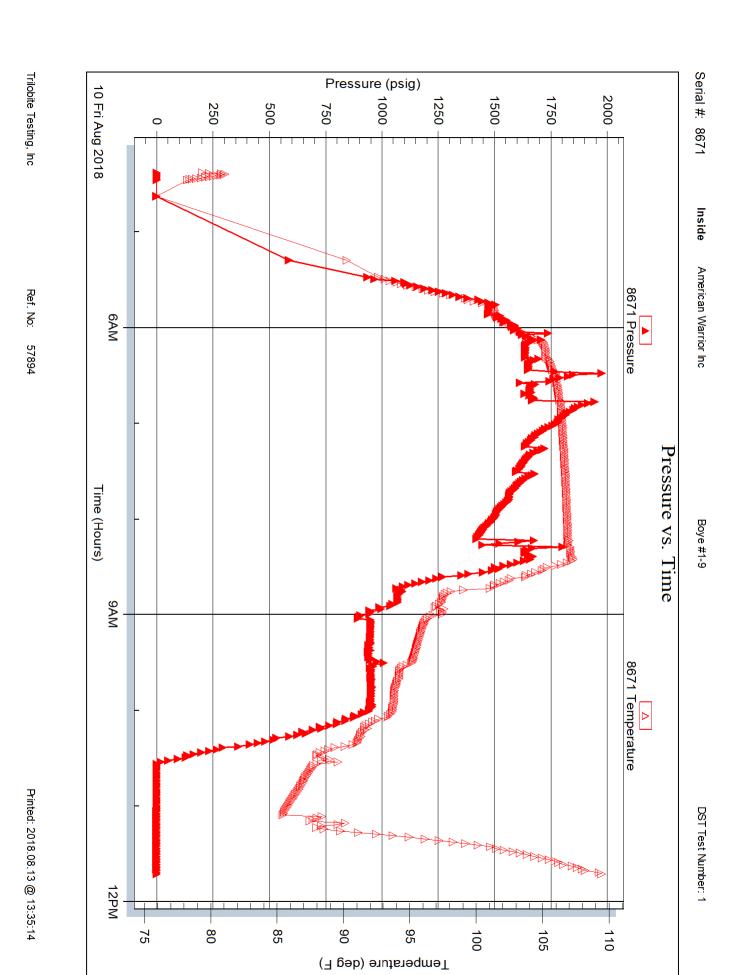
85

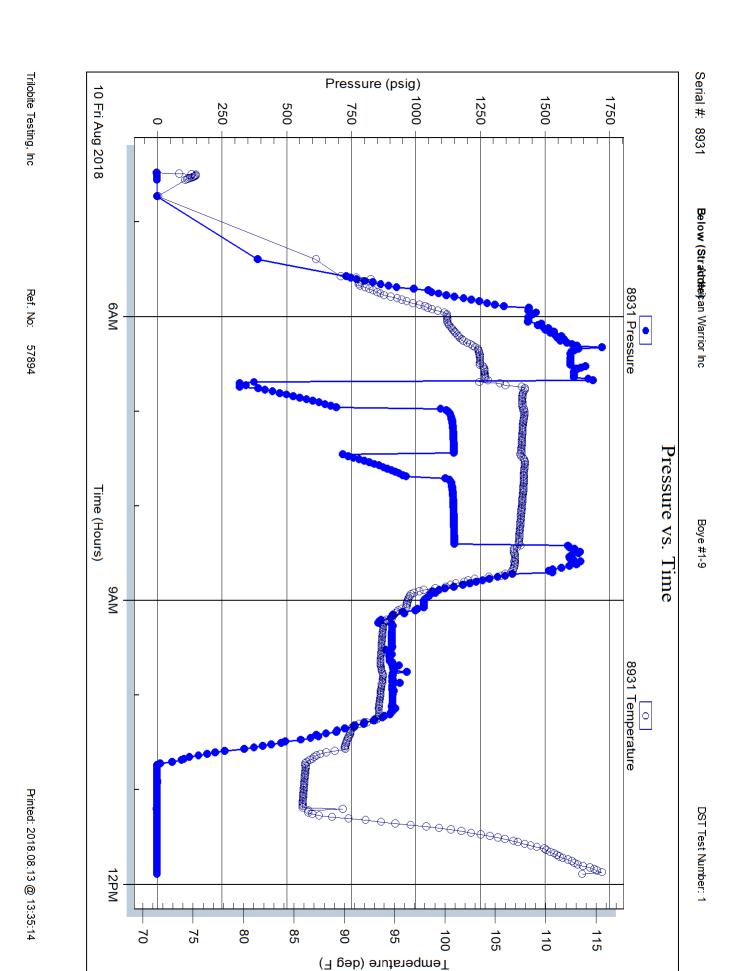
90

Temperature (deg F)

95

100







Test Ticket

NO. 57894

Name & No. Boye #1-9		Test No		Date 8 ~ /1	0-18
IPANY AMERICAN WARRIOR INC		Elevation	1857	кв/ 8	19 GL
ress P.O. Box 399, 3/18 Cumming	as RD Gardon	Cify, KS.	6784	16	
Rep/Geo. Jason TAlm		Rig Di	scovery s	#4	
ıtion: Sec. 9 Twp. 16S			,		Ks.
al Tested 3327 - 3379		tmpson / F	IR buckl	د	
r Length 52' tail 69'	Drill Pipe Run _	3295		Mud Wt	9.35
icker Depth 3332	Drill Collars Run	32'		Vis	48
1 Packer Depth 3327	Wt. Pipe Run	X		WL	9,2
lepth 3450	Chlorides	600 pr	om System	LCM	7K_
Description IF: Strong Wow. B.					. 1
: No plan.					
Strong blow. B. D. B. in 2 mins	, BurH to 56" a	decreased to	, 11".		
· No blow.				·	
/04 Feet of C , Σ , ρ .		/ro %gas	%oil	%water	%mud
20' Feet of <u>MW</u>		%gas	%oil	40 %water	60%mud
254 Feet of MW		%gas	%oil	60 %water	40 %mud
/887' Feet of <u>S</u> ん		%gas	%ọil	/00 %water	%mud
Feet of		%gas	%oil	%water	%mud
al 2163' BHT 103	Gravity $\frac{N/A}{1050}$	API RW N/A	_@ ## °F	Chlorides 4,	COC_ppm
Il Hydrostatic /6/3	Test		T-On L	ocation	5218
Initial Flow 266	☐ Jars		T-Start	ed	0422
Final Flow 702	□ Safety Joint		T-Oper	າ	
Shut-In	Circ Sub 50		T-Pulle	ed	<u>8821</u>
- A (C)			-		1/23
C-1	Hourly Standby Mileage 158	30	Comm	ents Dropped H	u BAR
Ga2					
1100	Sampler600				10
Hydrostatic //5D	Straddle			ined Shale Packer_	
	☐ Shale Packer		🗀 Ru	ined Packer	
en <u>15</u>	☐ Extra Packer			tra Copies	
ut-In 30	Extra Recorder		Sub To	1730	
N15	☐ Day Standby		Total_		5.
rt-In30	☐ Accessibility		_ MP/DS	ST Disc't	
	Sub Total1730		- Al	400	2
- Attitude to the second	Our	Representative_	1/10	Klas JU D	moh

Geological Report

Boye #1-9
1218' FSL & 1728' FWL
Sec. 9 T16s R10w
Ellsworth County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Boye #1-9 1218' FSL & 1728' FWL Sec. 9 T16s R10w Ellsworth County, Kansas API # 15-053-21365-0000
Drilling Contractor:	Discovery Drilling Co, Inc. Rig #4
Geologist:	Jason T Alm
Spud Date:	August 4, 2018
Completion Date:	August 10, 2018
Elevation:	1849' Ground Level 1857' Kelly Bushing
Directions:	Wilson KS. South 10 mi to N rd. East 2 mi. South 34 mi. East into location.
Casing:	432' 8 5/8" surface casing
Samples:	10' wet and dry, 2650' to RTD
Drilling Time:	2550' to RTD
Electric Logs:	Pioneer Energy Services "Justin Hendrickson" CNL/CDL, DIL, MEL, BHCS
Drillstem Tests:	One, Trilobite Testing, Inc. "Matt Smith"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc.			
	Boye #1-9			
	Sec. 9 T16s R10w			
Formation	1218' FSL & 1728' FWL			
Anhydrite	647' +1210			
Base	666' +1191			
Topeka	2644' -787			
Heebner	2899' -1042			
Toronto	2918' -1061			
Douglas	2928' -1071			
Brown Lime	3002' -1145			
Lansing	3016' -1159			
BKC	3287' -1430			
Simpson	3332' -1475			
Arbuckle	3359' -1502			
LTD	3448' -1591			
RTD	3450' -1593			

Sample Zone Descriptions

LKC A (3016' -1159): Not Tested

Ls – Fine crystalline, oolitic packstone with fair oomoldic porosity, few rocks with very light oil stain, no show of free oil, few gas bubbles, no odor, scattered fair fluorescents, 32 units hotwire.

LKC C (3042' -1185): Not Tested

Ls – Fine crystalline, oolitic packstone with good oomoldic porosity, few rocks with very light scattered oil stain, no show of free oil, few gas bubbles on break, no odor, dull to fair yellow fluorescents, 54 units hotwire.

Simpson Sand (3335' -1478): Covered in DST #1

Ss – Clear, fine grained, well sorted, fairly cemented, sub-rounded, with fair inter-granular porosity, light to fair oil stain in cluster, light yellow fluorescents, very slight odor, 65 units hotwire

Arbuckle (3359' -1502): Covered in DST #1

Dolo – Fine rhombic crystalline with fair inter-crystalline and scattered vuggy porosity, light spotted oil stain, slight show of free oil when broken, good odor, fair yellow fluorescents, 50 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Matt Smith"

1149#

1150#

Simpson / Arbuckle

Interval (3327' – 3379') Anchor 52', Tail 69'

IHP -1630 #

- 15" - B.O.B. 2 min. IFP

- 30" - Dead ISI

FFP -15" - B.O.B. 2 min.

FSI - 30" - Dead

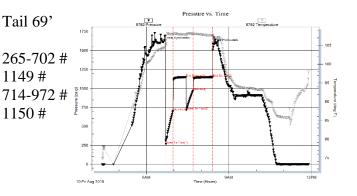
FHP -1586 #

BHT -108°F

Recovery: 104' GIP

276' Muddy Water

1887' Water



Structural Comparison

	American Warrior, Inc.	Alexander H.E.		Boye #1	
	Boye #1-9	Boye #1	Bergman Oil		
	Sec. 9 T16s R10w	Sec. 9 T16s R10w	Sec. 9 T16s R10w Sec. 9 T16s R10w		
Formation	1218' FSL & 1728' FWL	1200' FSL & 450' FWL		2310' FSL & 4620' FEL	
Anhydrite	647' +1210	NA	NA	NA	NA
Base	666' +1191	NA	NA	NA	NA
Topeka	2644' -787	NA	NA	NA	NA
Heebner	2899' -1042	2935' -1043	(+1)	2894' -1019	(-23)
Toronto	2918' -1061	2954' -1062	(+1)	2912' -1037	(-24)
Douglas	2928' -1071	NA	NA	NA	NA
Brown Lime	3002' -1145	3035' -1143	(-2)	2996' -1121	(-24)
Lansing	3016' -1159	3053' -1161	(-2)	3012' -1137	(-22)
BKC	3287' -1430	NA	NA	NA	NA
Simpson	3332' -1475	NA	NA	NA	NA
Arbuckle	3359' -1502	3382' -1490	(-12)	3318' -1443	(-59)

Summary

The location for the Boye #1-9 was found via 3-D seismic survey. The new well ran structurally lower than expected via the survey. One Drill Stem Test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Boye #1-9 well.

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.