KOLAR Document ID: 1662993

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:	SecTwpS. R
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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
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	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Committed at Provider	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladied offsite.
GSW Permit #:	Operator Name:
<u> </u>	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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1662993

#### 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	-			
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 [	_		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				EEZE RECORD	Typo a	ad Paraant Additivas				
Perforate Protect Ca Plug Back	Top	Bottom											
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 question 3)	,			
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				Gas Oil Patio	Gravity			
Per 24 Hours		Oli Bb	15.	Gas	IVICI	Log Formation (Top), Depth and Datum Sample  Name Top Datum    New							
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	ON INTERVAL:			
Vented	Sold Use	d on Lease		Open Hole				-	Тор				
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (SUDI	nit ACO-4)					
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At								
TUBING RECOR	D: Size:		Set At:		Packer At:								

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	CHRISTOPHER 1-15
Doc ID	1662993

# Tops

Name	Тор	Datum
Anhydrite	2621	585
Base	2643	563
Topeka	3761	-555
Heebner	3987	-781
LKC	4031	-825
Stark	4272	-1066
ВКС	4340	-1134
Marmaton	4384	-1178
Fort Scott	4530	-1324
Cherokee	4561	-1355
Johnson	4624	1469
Morrow	4675	-1469
RTD	4700	-1494

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	CHRISTOPHER 1-15
Doc ID	1662993

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	477	H-325	375	4% gel



CEMENT TREATMENT REP	ATMENT	REPORT			>				
Customer:	Customer: American Warrior	Warrior		Well:	Chris	Christopher # 1-15	Ticket:	WP-3143	
City, State: Winona KS	Winona K	S		County:		Logan KS	Date:	7/28/2022	
Field Rep: Jesse	Jesse			S-T-R:	15	15-12S-36W	Service:	Surface	
Downhole Information	nformation	exception and the second		Calculated Slurry - Lead	lurry - Lead		Calc	Calculated Slurry - Tail	
Hole Size:	4			Blend:	H-325		Blend:		
Hole Depth:	480 ft			Weight:	14.8 ppg		Weight:	6dd	
Casing Size:	8 5/8 in		The same of	Water / Sx:	6.9 gal / sx		Water / Sx:	gal / sx	
Casing Depth:	479 ft			Yield:	1.41 ft³ / sx		Yield:	ft³/sx	
Tubing / Liner:	드			Annular Bbis / Ft.:	0.0735 bbs / ft.		Annular Bbis / Ft.:	bbs / ft.	
Depth:	#			Depth:	480 ft		Depth:	Ħ	
Tool / Packer:				Annular Volume:	35.3 bbls		Annular Volume:	0 bbis	
Tool Depth:	#			Excess:			Excess:		
Displacement:	29.3 bbis	-		Total Slurry:	94.2 bbls		Total Slurry:	0.0 bbls	
TIME RATE	PSI	STAGE TOTAL BBLS		Total Sacks:	375 sx		Total Sacks:	0 sx	
a			Г	Arrival					
8:50a			SS -	Safety meeting					
9:00a			æ	Rig up					
9:15a			ō	Circulate hole					
9:23a 5.1	240.0	5.0	5.0 HZ	H2O ahead					
9:26a 6.0	0.009	94.2 99	99.2 Mi	Mixed 375 sks of H-325 @ 14.8 ppg @ 480'	@ 14.8 ppg @ 480'				
9:45a 6.3	450.0	29.0 128.2		Displaced H2O					
10:00a		128.2		Plug down					
10:03a		128.2		Wash up					
10:09a		128.2		Rig down					
10:35a		128.2		Depart location					
			-						
	1		ō	Circulated 5 bbl to pit					N. T.
			-						27.0
			-						
			-						
			1						
	+		-						
			-						
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			+						
	+	1	-						T
	CDEW								
Cementer	assel.		_	78		9400	SUMMARY		
Pump Operator:	Michael		-	230	<b>X</b>	Average Kate	-	Total Fluid	T
Bulk #4:	Tylor		-	250		a.e apm	430 psi	128 bbis	T
Bulk #2:	iyiei		+	194/203					
The second secon			-		-				7



Controlled National Processing   Control State   Country Sta					/						
10   10   10   10   10   10   10   10	Customer	American Warrior		Lease & Well #	Christopher # 1-15	-			Date	712	28/2022
Application   Processor   Pr	Service District			County & State		Legals S/T/R	15-12S-	36W	# qof		
The control of the	Job Type	Surface	☑ PROD	IN)	□ SWD	New Well?		ON 🗆	Ticket #	M	P-3143
1, 10   Ministration   2   Min	Equipment #	Driver			Job Safety Ans	alysis - A Discuss	ion of Hazards	& Safety Pro	sedures		
200   Montabular   20   PCS Volcinior   20   Sp. Protection   20	78	Jesse	☑ Hard hat		☑ Gloves		□ Lockout/Tago		□ Warning Signs	& Flagging	
The control of the	230	Michael	☑ H2S Monitor		Eye Protection		☐ Required Perr		□ Fall Protection		
Fire Estimation   Comments   Co	194/253	Tyler	☑ Safety Footwea	E	☐ Respiratory Prote	ection	☑ Slip/Trip/Fall	Hazards	Specific Job Se	edneuce/Expec	ctations
Comments			☑ FRC/Protective	Clothing	☐ Additional Chem	ical/Acid PPE	☑ Overhead Ha		☑ Muster Point/I	Medical Locati	ons
Harden   Percent   Perce			☑ Hearing Protec	tion	☐ Fire Extinguisher		☐ Additional co	ncems or issu	es noted below		
1   1   1   1   1   1   1   1   1   1						Con	nments				
H-225   Search   Se			-								
Harden   H											
H-325											
1-3256   1	Product/ Service Code		Descr	ription		Unit of Measure					Net Amount
Light Equipment Mileage	CP015	H-325				sack					\$8,100.00
Light Equipment Mileage   Tron Mil											
Helacy Equipment Mileage   Tron Mi	M015	Light Equipment Mi	ileage			Ē	35.00				\$70.00
Ton Mileage	M010	Heavy Equipment №	Mileage			Ë	70.00				\$280.00
Service Supervisor	M020	Ton Mileage				th	663.00				\$994.50
Service Supervisor											
Cement Blending & Maring Service   Sack   375.00   Cement Blending & Maring Service   Sack   375.00   Cement Data Acquisition   job   1.00	R061	Service Supervisor				day	1.00				\$264.00
Cement Data Acquisition   job   1.00	D010	Depth Charge: 0'-5	,00,			qoí	1.00				\$960.00
Cement Data Acquisition   job   f.00	0900	Cement Blending &	Mixing Service			sack	375.00				\$504.00
Con the following scale   how would you rate Hurricane Services Inc?   Total Taxable   \$ -   Tax Rate:   \$	C035	Cement Data Acqui	isition			doį	1.00				\$240.00
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HSI Representative: Jese Jones		Unikely 1 2	3 4 🗆	0 0 9	9 U	emely Likely	Hurricane Service well information at services and/or pur	s relies on the cookings are to make a	x exempt. customer provided determination if	1	
							services and or b	oddets are tax	exempt.	┪	1
							HSI Represe	ntative:	gesse gones		

TERMS: Cash in advance unless Hurricane Services Inc. (HSi) has approved credit prior to sale. Credit terms of sale for approved accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection. Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI bacomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at her livioice proceation proceeding the full invited by indirectly incurred for such collection. Customer between the right to revoke any discounts are collection. Or collection in the livioice proceation and are so for such collection and the full invited and state of the full invited by a services. Any discount is interested and subject to collection. The event in the full invited by any and are good for 30 days in the full invited by any and stated price adjustments. Actual changes may any dependiting upon time, equipment, and material utilimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning product or service. The information presents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and accurate well information in determining taxable services.

**CUSTOMER AUTHORIZATION SIGNATURE** 

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LOCATION FOREMAN FOREMAN TREATMENT REPORT

2542 K-C

FIELD TICKET & TREATMENT REPORT

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RANGE	346	TRUCK#	VEIGHT	CASING	Opera	1. 1/2 tit	# / / # / # / # / # / # / # / # / # / #				UNIT PRICE	2500	7.15	175	16 2	3 00							1	SALES I	TOTAL
TOWNSHIP	125	DRIVER CAND	CASING SIZE & WEIGHT	CEMENT LEFT in CASING	3 45 000	110%					ODUCT			Y (Main.)	1			10% Disc							
SECTION	15/	TRUCK #	47001		#5 Ph	They are			Kon	4Cm)	DESCRIPTION of SERVICES or PRODUCT		A.,	De 1100 as	Bland			1429 2							
IMBER	1-15		HOLE DEPTH	WATER gal/sk	Sw Duke	256			14 Gal	12/4/7	DESCRIPTION of	ARGE	2	11116650	+ War (+	001									L F F
WELL NAME & NUMBER	Brhan	ZIP CODE										PUMP CHARGE	MILEAGE	10%	7777	FLOS									
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CUSTOMER#		CCN 12	H	13.5	Goty VINER.	1450 26	5/6 to 5/8	5/45 ID 10/11			QUANTITY or UNITS		5	10.5	B										Tran Course
DATE	11	CUSTOMER  A Macci	JOB TYPE	SLURRY WEIGHT	REMARKS:	50 5 X	00	30			ACCOUNT						-								ITHORIZATION

I acknowledge that the payments terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



# DRILL STEM TEST REPORT

American Warrior Inc

15-12-36 Logan, Ks

P.O. Box 399

Job Ticket: 67995

DST#: 1

Garden City, Ks 67846

Christopher 1-15

ATTN: Marc Downing

**GENERAL INFORMATION:** 

Formation: Topeka- Deer Creek

Deviated: Whipstock: ft (KB)

Time Tool Opened: 04:37:21 Time Test Ended: 09:50:21

Interval: 3861.00 ft (KB) To 3931.00 ft (KB) (TVD)

Total Depth: 3961.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

**Brandon Turley** 

Unit No:

Test Start: 2022.08.01 @ 01:57:21

Reference Bevations:

3206.00 ft (KB)

3195.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8674 Outside

Press@RunDepth: 3862.00 ft (KB) 322.51 psig @

Start Date: 2022.08.01 End Date: Start Time: 01:57:26

End Time: 09:50:20

2022.08.01

Capacity:

Tester:

8000.00 psig

Last Calib.: 2022.08.01 Time On Btm: 2022.08.01 @ 04:35:51

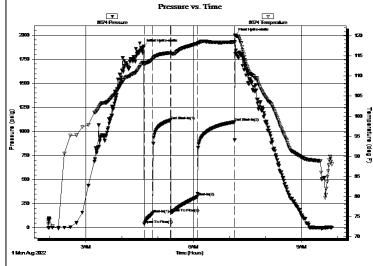
Time Off Btm: 2022.08.01 @ 07:08:51

PRESSURE SUMMARY

TEST COMMENT: IF: BOB in 9 mins. 14 1/2

IS: No return

FF: BOB in 10 mins. 23 FS: No return. 15-30-45-60



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1883.34	113.28	Initial Hydro-static
	2	38.32	112.95	Open To Flow (1)
	16	149.59	114.18	Shut-In(1)
	46	1116.64	115.79	End Shut-In(1)
	46	155.87	115.46	Open To Flow (2)
	90	322.51	118.04	Shut-In(2)
	152	1098.28	118.49	End Shut-In(2)
,	153	1999.43	120.01	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)				
441.00	mcw 90%w 10%m	4.55				
315.00	mcw 60%w 40%m	4.42				

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

Ref. No: 67995 Trilobite Testing, Inc Printed: 2022.08.01 @ 13:41:01



# DRILL STEM TEST REPORT

American Warrior Inc

15-12-36 Logan, Ks

Christopher 1-15

Job Ticket: 67995

Tester:

Unit No:

P.O. Box 399

Garden City, Ks 67846

Test Start: 2022.08.01 @ 01:57:21

ATTN: Marc Downing

### **GENERAL INFORMATION:**

Formation: Topeka- Deer Creek

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

Time Tool Opened: 04:37:21 Time Test Ended: 09:50:21

Interval: 3861.00 ft (KB) To 3931.00 ft (KB) (TVD)

Total Depth: 3961.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3206.00 ft (KB)

**Brandon Turley** 

3195.00 ft (CF)

DST#: 1

KB to GR/CF: 11.00 ft

Serial #: 8790 Inside

 Press@RunDepth:
 psig
 @ 3862.00 ft (KB)
 Capacity:
 8000.00 psig

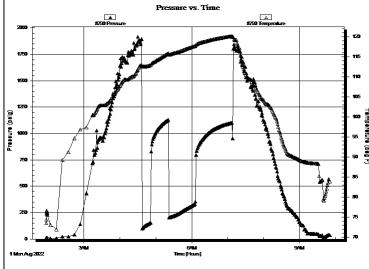
Start Date: 2022.08.01 End Date: 2022.08.01 Last Calib.: 2022.08.01

Start Time: 01:57:22 End Time: 09:50:16 Time On Btm: Time Off Btm:

TEST COMMENT: IF: BOB in 9 mins. 14 1/2

IS: No return.

FF: BOB in 10 mins. 23 FS: No return. 15-30-45-60



PRESSURE S	SUMMARY
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Time		Temp	Annotation								
(Min.)	(psig)	(deg F)									
	Time (Min.)										

#### Recovery

Length (ft)	Description	Volume (bbl)
441.00	mcw 90%w 10%m	4.55
315.00	mcw 60%w 40%m	4.42

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 67995 Printed: 2022.08.01 @ 13:41:02



# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior Inc

15-12-36 Logan, Ks

P.O. Box 399

Christopher 1-15

Garden City, Ks 67846

Job Ticket: 67995 **DST#: 1** 

ATTN: Marc Downing Test Start: 2022.08.01 @ 01:57:21

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 0 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 17000 ppm

Viscosity: 61.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 2300.00 ppm Filter Cake: 1.00 inches

## **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
441.00	mcw 90%w 10%m	4.546
315.00	mcw 60%w 40%m	4.419

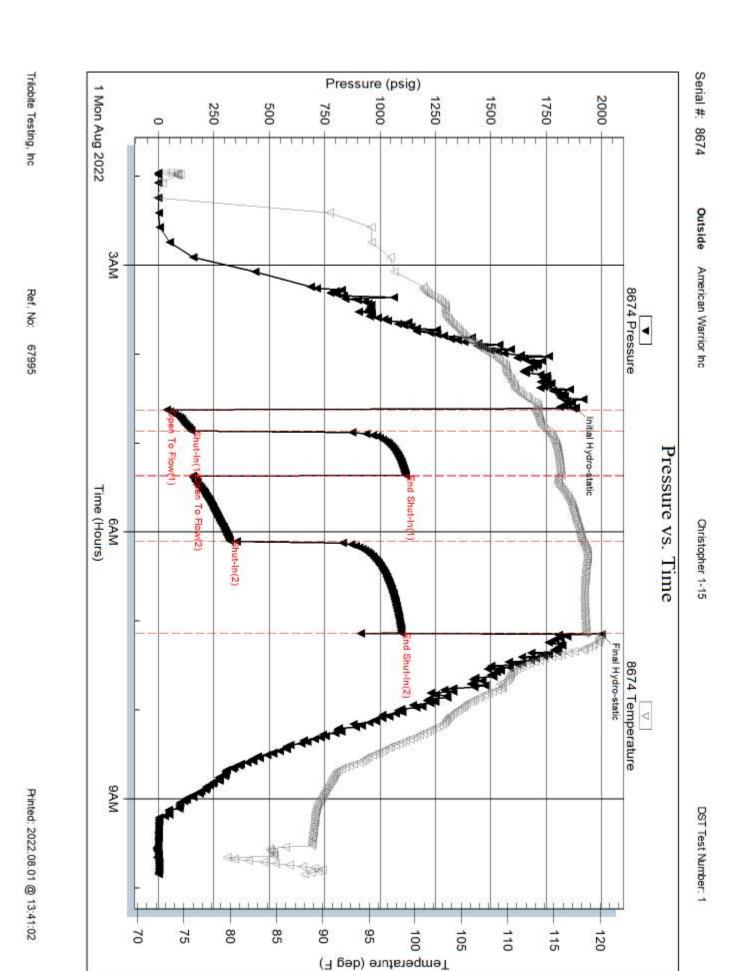
Total Length: 756.00 ft Total Volume: 8.965 bbl

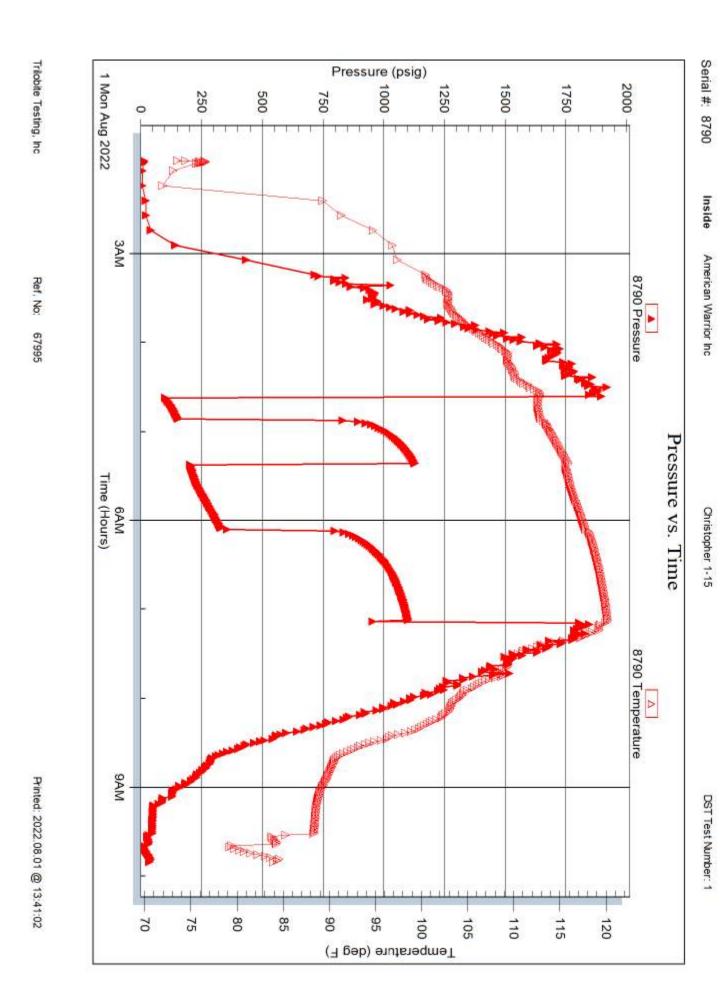
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .39@71=17000

Trilobite Testing, Inc Ref. No: 67995 Printed: 2022.08.01 @ 13:41:02





Marc A. DowningGeologic ReportConsulting Petroleum GeologistDrilling Time and Sample LogOperator American Warrior, Inc.Elevation KB 3206 DF 3204 GL 3195	Drilling Contractor  Duke Drilling, Rig #5  Commenced 7-27-22  Completed 8-4-22  Samples Saved From 3650  Drilling Time Kept From 3600  Samples Examined From 3650  Geological Supervision From 3650  To RTD  Geological Supervision From 3650  To RTD	Irip VC Striplog version 4.0.8.15 (www.grsi.ca	40 Imperial   Comment   Co	Lighter Test		Vis: 51 Wt: 9.0	DST #1  3861-3931  15-30-45-60  I.F BOB 9 min / no SIB F.F BOB 10 min / no SIB F.F BOB 9 min / no SIB F.F BOB 10 min / no SI	Gas (units) 150 (units) 150 (units) 150 (units) 150 (units) 150									Gas (units)   150	25 (units) 150 55 (units) 150			
API # 15-109-21648-0000  Field Wildcat  Casing Record Surface  8 5/8" @ 477' Production	Summary and Recommendations	Ss lited by GEOs	Total Gas (C1 (units) C2 (units) C3 (units) C5 (units)					to and the state of the state o			_:			A				D -			
None   Electrical Surveys   None   Electrical Surveys	Due to structural position, DST recovery, and lack of sample shows, it was decided to plug and abandon the well.	Shale, gry Carbon Sh Carbon Sh  ACCESSORIES  ACCESSORIES  OTHER SYMBOLS  DST  T DST Int Core DST alt Core II tail pipe  II tail pipe III tail pipe	Geological Descriptions	LS: wht, md xln, mtld in prt. Fr intxln por, subxln, NS. Sh: It gry LS: wht-tan, fn-md xln, dns. Sh: It gry, scat It grn LS: tan, vfn xln, trng wht, md xln, mtld in prt w/ few frag foss. Dns w/ no vis por, NS. LS: wht, fn-md xln, chlky. Scat intxln por, all NS, no od. LS: wht, fn-md xln, ool in prt w/ scat foss. Few rx w/ sml vugs and intxln por, all NS. LS: wht, md xln, ool w/ frag foss. Fr int xln por, subxln in prt. All NS, no od. Sh: gry Sh: gry Sh: gry LS: wht-tan, fn-md xln, dns.	LS: wht-lt tan, md xln. Many frag foss and ool, subxln in prt w/ scat intxln por, all NS.  Topeka 3761 (-555)  LS: wht, fn-md xln, ool in prt, sltly suc. Fr intxln por, totally barren, no od.  LS: wht, fn xln, suc. Scat sml ool and frag foss, gd intxln por, totally barren.  Sh: gry  LS: wht, fn-md xln, suc in prt. Scat intxln por subxln-chlky. All NS.  Sh: brn w/ gry, sndy-silty. Trng mostly brn, v silty.	LS: wht, much ala w/ scat frag foss.  LS: wht, much ala w/ scat frag foss.  LS: wht, much ala, trng more frag foss.  LS: wht, trng more tan. Md xln w/ many frag foss. Less por, dns, NS. Trng mtld in prt w/ scat tan-gry cht.  Sh: Black Carb  Sh: It gry, sndy-v sitly.	Sh: some ala, trng less sndy.  Deer Creek 3894 (-688)  LS: wht, md xln, tot foss w/ scat lrg ool. Gd int xln and vug por, w/ fr-gd sat stn, fr-gd SFO, sltly hvy. Lt od, gd grn fluor, slt free oil on cup.  Sh: brn-org w/ gry  LS: tan-wht, fn xln. Mostly dns w/ no vis por, scat foss. All NS.  Sh: Black Carb  LS: wht, md xln ool in prt. Dns w/ no vis por, NS.  LS: wht, fn-md xln, ool. Scat int ool por, fr amt chlky rx. Totally barren, no od.  LS: trng wht-tan, pr por and dns.	Sh: gry  LS: tan, v suc-dolomitic. Gd intxln por w/ scasml vugs and pp por. Few chlky rx. Totally barren, no od.  Heebner 3987 (-781) Sh: Black Carb Sh: gry Sh: trng brn-red Toronto 4014 (-807) LS: wht-tan, md xln, foss in prt. Mostly dns w/ pr por. scat subxln-chlkv rx. All NS.	LKC 4031 (-825)  LS: wht, fn-md xln, scat frag foss, suc in prt. 1-2 rx w/ pr stn and rare spttd SFO, rest barren. Gd intx por w/ fr amt chlky rx, no od. LS: wht, fn-md xln, suc w/ scat sml foss. Gd intxln por w/ fr amt subxln-chlky. Totally barren, no od.  Sh: brn-red  LS: wht, md xln, few foss, subxln-chlky, fr intxln por. 2-3 rx w/ dead blk stn (gilsonite), rest barren, no od.	LS: wht, fn xln, suc in prt. Scat gd intxln por, mostly subxln-chlky. Totally barren, no od. 2-3 pcs shp wht cht.  LS: ala w/ few more dns rx.  Sh: Black Carb  LS: wht-tan, fn xln. Mostly dns w/ scat chlky rx. All NS.  Sh: brn-red  Sh: brn-red  LS: wht, fn xln, suc in prt. Scat intxln por, mostly pr. Fr amt subxln-chlky rx. 1-2 pcs w dead blk stn, NSFO, no od.	Sh: gry LS: wht, md xln, foss. Scat intxln por, frly friable. Many chlky rx. Totally barren, no od LS: wht, much ala. LS: wht, md xln, scat foss. Trng mostly dns w/ no vis por. All NS. Scat wht cht. Sh: Black Carb Sh: brn	LS: wht, md xln, foss, frag in prt. Mostly pr por, fr amt chlky rx. All NS.  LS: wht, trng fn xln and v dns.  LS: wht, md xln, foss. Mostly pr por and dns w/ NS. 3-4 rx w/ pr resid stn and tarry SFO o edge. No od.  LS: wht-It tan, fn-md xln, foss, suc in prt. Gd intxln por w/ scat sml vugs. Totally barren, few chlky rx. No od.	Sh: gry w/ some brn LS: wht, fn-vfn xln. Mostly all v dns w/ no vis por, all NS. Scat subxln rx.  Stark 4272 (-1066) Sh: Black Carb Sh: gry w/ brn LS: wht, fn-md xln, few foss. Mostly pr por and dns, chlky in prt. Totally barren, no od	LS: ala  Hushpuckney 4309 (-1103) Sh: Black Carb Sh: gry w/ fr amt dns LS stringers. LS: wht, fn xln, dns. No vis por, scat chlky ry NS.  BKC 4340 (-1134) LS: wht, md xln, v dolomitic. Fr intxln por w/ few vugs, totally barren, no od.	LS: wht, fn xln, suc in prt. Scat intxln por, mostly subxln-chlky. 1-2 rx w/ pr dead edge stn, rest totally barren. No od.  Sh: It gry, silty in prt.  Marmaton 4384 (-1178)  LS: wht-It tan, md xln, foss in prt. Scat intxln por, many subxln rx. All NS.  Sh: brn-red, arg. Trng gry w/ depth.	LS: wht, fn xln, fr amt foss. Trng dolomitic, NS. Sh: gry LS: wht, md xln, v foss. Scat vug por w/ many subxln-chlky rx. All NS, no od. Sh: drk gry Sh: brn-red, arg in prt.	LS: wht-tan, md-crs xln, tot foss. Mostly pr por, fr amt subxln-chlky rx. NS. Trng fn xln and dns.  Sh: Black Carb  Pawnee 4472 (-1266)  LS: tan, fn-vfn xln, v dns w/ no vis por. Scat shp tan cht, all NS.  LS: much ala, cht trng tan-gry, foss in prt.	Myrick Station 4506 (-1300)  LS: wht-tan, fn-md xln. Mostly pr por and dns, trng chlky in prt. Totally barren w/ no oc scat tan cht.  Sh: Black Carb Fort Scott 4530 (-1324)  LS: tan-wht, fn-md xln, dns, pr por. Trng tan brn w/ Irg ool and scat foss. Fr amt tan shp cht.  LS: tan-brn, md xln, foss. Dns w/ pr por, fr amt subxln rx. Fr amt shp cht, wht, tan, gry. All NS.	Cherokee Sh 4561 (-1355) Sh: Black Carb LS: wht, fn xln. Scat intxln por, mostly chlkly Totally barren, no od. Sh: Black Carb Sh: Black Carb Sh: gry LS: wht, fn xln, few foss. Dns. Sh: gry LS: wht, fn xln, rdns novis nor Scat foss	and tan cht.  Johnson Zone 4624 (-1418)  LS: tan-brn w/ wht, fn xln, foss in prt. Mostly v dns w/ no vis por, few subxln rx. Totally barren, fr amt tan-brn shp cht.  LS: much ala, inc amt wht subxln rx. Totally barren, no od.	LS: ala, less chlky rx.  Morrow 4675 (-1469) Sh: Black Carb, w/ It grn SS: clr-wht clust, fn-vfn grain, well rnd, well sort. Scat glauc, barren. Sh: gry w/ grn Total Depth 4700 (-1494)
BKC 4340 -1134 +8  Marmaton 4384 -1178 +4  Fort Scott 4530 -1324 +1  Cherokee Sh 4561 -1355 +2		STRINGER  green shale  green shale  each shale  carb shale  Daily Repo  Digital Pho  Digital Pho  Digital Pho  Document  Horizontal  Core Log F  Core Log F  Drill Cutting	Lithology	╌╸╴╴ ╼╸╸╸╿╿╿╿╏╌╸╸╸┦ ╼╸╸╸╿╿╿╿╏╌╸╸╸┪																	
Johnson Zone         4624         -1418         -1           Morrow         4675         -1469         +5		Shale, grn 50 - 75 % 25 - 50 % 1 - 25 % 9 Stn	Sored Interval Depth   Intervals   Depth   Intervals	3650 3660 3690 3720 3730	3750 3760 3770 3780 3820	3850	3890 3890 3910 3920 3940 3950	3980 3980 3980 10 4010	4030 050' 4050 4060 4070	4090	4150 4150 4170 4190	4220 4220 4230 4240	4280	4 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4360 4380 4380 4400	4440	4460 4480 4490 10 4500	4510 4520 4530 4540	4560 4570 4600 4610	4650	4680
Total Depth 4700 -1494  Reference Well For Structural Comparison Mull Drilling - Andrews #1  SW NE SE Sec. 15-12s-36w	Marc A. Downing	MINERAL  ◆ Chert, dark  ○ Glauconite  ◆ Chert White  ◆ Spotted Stn  ◆ Spotted Stn  ○ Spotted Stn  ○ O Questionable  D Dead Oil Stn  □ Dead Oil Stn  ■ Fluorescence	ROP (min/ft)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Rop (Str.) (CFS.33)				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V~~~	1/mm/m	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~