KOLAR Document ID: 1466407

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 East West
Address 2:	Feet from North / South Line of Section
City:	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:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR ☐ 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?
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 Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion 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. Twp. S. 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 III Approved by: Date:

KOLAR Document ID: 1466407

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	GLUNT 1-23
Doc ID	1466407

Casing

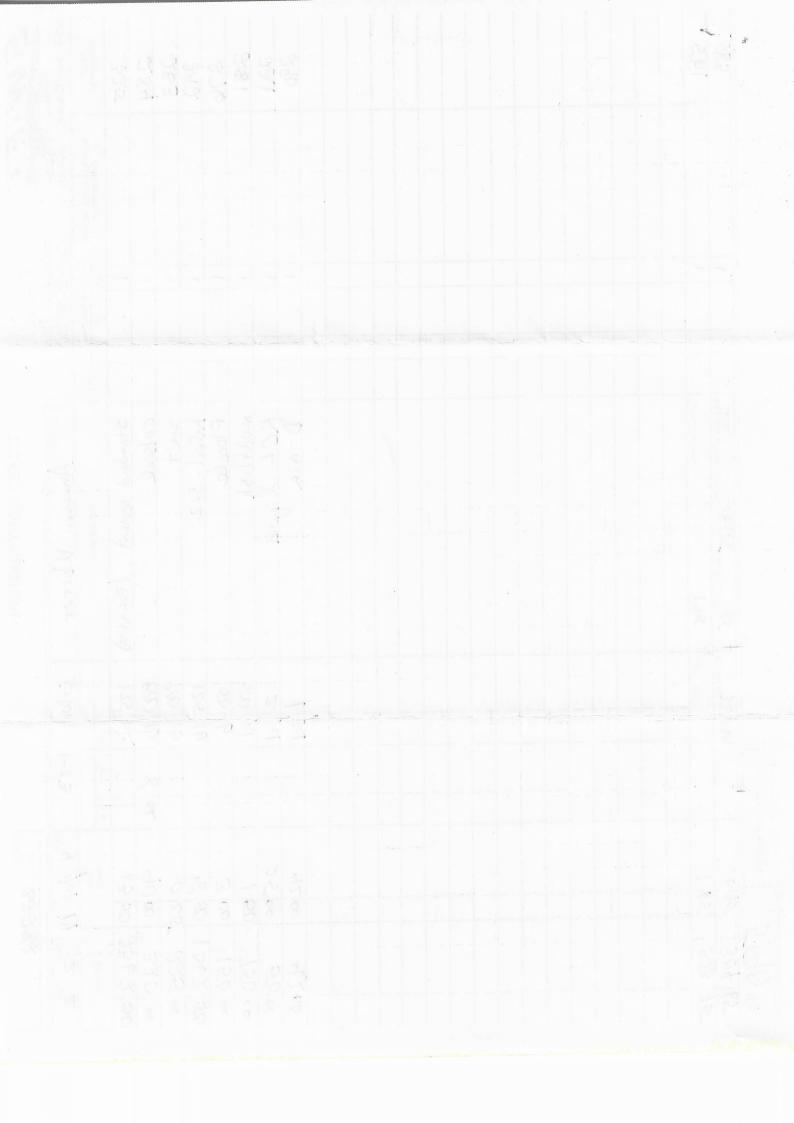
Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	222	Common	150	2%gel3%c c
Production	7.875	5.5	15.5	4716	EA/2	125	1/4 flosele

PAGE NO. SWIFT Services. Inc. JOB LOG LEASEGIUNT JOB TYPE Cement long string CUSTOMER / WELL NO. Warrion 1-23 CHART RATE (BPM) VOLUME (BBL) (GAL) PUMPS PRESSURE (PSI) DESCRIPTION OF OPERATION AND MATERIALS TIME NO. TUBING CASING 175 Sh EA-Z coment of 1/4# flocale 55×15.5# cas 8 113 joints 4716' short 42' Poit 6 lla 75 1619' Brishet 46 #75 Contralizer 1, 357, 9, 11, 74 0800 Start 52" x15.54 casing in ovell 1130 Drop ball - circulate Punp 5Wgal modflosh Punp 20 bbl KCL flush Plus RH/MH 305k-1220 12 200 20 12-35 20 200 1-300 200 88 400 750 1330 1500 1350

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CHARGE TOTAL WEIGHT 1833 CONDED MLES 35	アス																D-Air.	XCL Right	mudflish	F1000 le	Julail-322	5Q+		Standard ament (Feest 2)	DESCRIPTION	CUSTOMER AMERICA WOSTIGE	
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CONTINUATION TOTAL



PAGE TOTAL ISLAND TOTAL IIIsted on this ticked	-5			but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. SWIFT SERVICES, INC. WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	REMIT PAYMENT TO: SURVEY AGREE UNDECIDED OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		1 Post Colles	1 Meet float short of Auto FULL Siz in	1 Latch down the & bookle 52 in	- Comment	1 Contractizer 52 in 7	1 Pilling Charge	575 1 MILEAGE TRY 114 35 mil	PRICE SECONDARY REFERENCE/ ACCOUNTING DESCRIPTION QTY. U/M QTY. U/M	WELL TYPE WELL CATEGORY JOB PURPOSE WELL PERMIT NO.	CE DISCORDY 4 VIEW	1. TICKET TYPE CONTRACTOR RIG NAME/NO SHIPPED DELIVERED TO	Inc.	CITY, STATE, ZIP CODE	CHARGE TO: A MERICAL WALLOW COM
	receipt of the materials and services listed	NOT WISH	TED THE EQUIPMENT PARMED JOB ONLY ORILY? TISSIED WITH DUIR SERVICE?	STOOD AND NEEDS? CE WAS ID WITHOUT DELAY?	AGREE		in i	£.) (in	So.	-	1 200	_ '	U/M		location	DELIVERED 1			

SWIFT OPERATOR

APPROVAL

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TIME DESCRIPTION QTY U/M QTY U/M PRICE AMOUNT	SECONDARY REFERENCE/ ACCOUNTING TIME
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TICKET CONTINUATION No. 33284	PO Box Abb

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Services, Inc.	CITY, STATE, ZIP CODE	PAGE OF	
SERVICE LOCATIONS, WELL/PROJECT NO.	LEASE COUNTY/PARISH TOR RIG NAME/NO.	STATE CITY SHIPPED DELIVERED TO SHIPPED DELIVERED TO ORDER NO	
3. WELL TYPE	WELL CATEGORY JOB PURPOSE	VO.	
REFERRAL LOCATION INVOICE INSTRUCTIONS	Teneral Contraction	Jethnore, J-W, &	1-16
PRICE SECONDARY REFERENCE/ ACCOUNTS ACC	ACCOUNTING DESCRIPTION	QTY. U/M QTY. U/M PRICE AMOUNT	JNT
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5760	Rump Charge - Port Coller	1 100 1400 50 1400	000
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581	CM Service Change	1 30156 1 186 370	000
583	Divyage	19,900 1/m M 299 284	000
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	REMIT PAYMENT TO:	OUR EQUIPMENT PERFORMED UNDECIDED DISAGREE PAGE TOTAL 4988	08
LIMITED WARRANTY provisions.	SWIFT SERVICES, INC.	MET YOUR NEEDS? WET YOUR SERVICE WAS PERFORMED WITHOUT DELAY?	
START OF WORK OR DELIVERY OF GOODS.	P.O. BOX 466 NESS CITY, KS 67560 SATISS	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS CALCULATIONS ATISFACTORILY?	% %
DATE SIGNED 1-12-19 TIME SIGNED 12-A.M.	785-798-2300	VOU SATISFIED WITH OUR SERVICE? CUSTOMER DID NOT WISH TO RESPOND TOTAL	25
CUSTOMER ACCEPTANCE OF MA	TERIALS AND SERVICES The customer hereby acknowledg	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.	

SWIFT OPERATOR

APPROVAL

Thank You!

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Displace CMT		1 49	8 600
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41944 - 0001 of 1/22 d		V 0	
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28 F たっつこ AMOUNT OF OWNER 12 5 F 10to 2.8 B 50 PAGE TOTAL PAGE WELL LOCATION TICKET UNIT TAX 5 N ORDER NO. DATE DISAGREE 50 KK O M 100 UNDECIDED QTY. S WELL PERMIT NO. AGREE SHIPPED | DELIVERED TO M/N QTY. WE OPERATED THE EQUIPMENT
AND PERFORMED JOB
CALCULATIONS
SATISFACTORILY? OUR SERVICE WAS PERFORMED WITHOUT DELAY? OUR EQUIPMENT PERFORMED STATE CITY SURVEY WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? SWIFT SERVICES, INC. REMIT PAYMENT TO: NESS CITY, KS 67560 COUNTY/PARISH RIG NAME/NO. P.O. BOX 466 JOB PURPOSE CIT -DESCRIPTION ると言語が - Common Rentanite 10000 MOME CITY, STATE, ZIP CODE 3 WELL CATEGORY MILEAGE CHARGE TO: LEASE ACCT DF ADDRESS ACCOUNTING **LEGAL TERMS**: Customer hereby acknowledges and agrees to he terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and CONTRACTOR INVOICE INSTRUCTIONS WELL/PROJECT NO. 8 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO TICKET TYPE

SERVICE
SALES WELL TYPE SECONDARY REFERENCE/ PART NUMBER **LIMITED WARRANTY** provisions. START OF WORK OR DELIVERY OF GOODS. REFERRAL LOCATION SERVICE LOCATIONS, FERENCE PPICE 120 C

Thank You! CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket. APPROVAL SWIFT OPERATOR

TOTAL

☐ CUSTOMER DID NOT WISH TO RESPOND

§ □

REYOU SATISFIED WITH OUR SERVICE?

785-798-2300

D N.W.

TIME SIGNED

2000

DATE SIGNED



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American Warrior Inc

3118 Cummings Rd

Garden City, Kansas 67846 ATTN: Jason Alm

PO Box 399

23/22S/24W/Hodgeman

Glunt #1-23

Tester:

Unit No:

Job Ticket: 66280

DST#: 1

Test Start: 2019.07.03 @ 05:08:00

GENERAL INFORMATION:

Formation: Mississippi Warsaw

Deviated: Whipstock: ft (KB)

Time Tool Opened: 07:41:47 Time Test Ended: 12:48:02

Interval: 4577.00 ft (KB) To 4648.00 ft (KB) (TVD)

Total Depth: 4648.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Ken Sw inney

72 Great Bend/ 144

Reference Elevations: 2439.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: Capacity: 306.39 psig @ 4578.00 ft (KB) psig

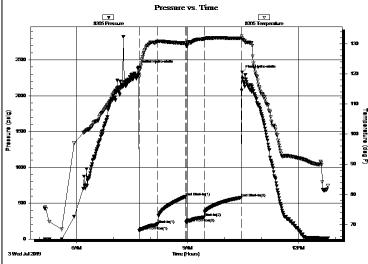
Start Date: 2019.07.03 End Date: 2019.07.03 Last Calib.: 2019.07.03 Start Time: 05:08:01 End Time: 2019.07.03 @ 07:41:02 12:48:02 Time On Btm: 2019.07.03 @ 10:28:47 Time Off Btm:

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 3 1/2 minutes/ Total build 88 inches

> ISI 45 Mintues/ Blow back to BOB

30 Minutes/ Blow to BOB in 7 minutes/ Total build 39 inches FF

45 Mintues/ 2 inch blow back FSI



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2392.57	119.80	Initial Hydro-static
	1	118.71	119.05	Open To Flow (1)
	31	210.12	130.79	Shut-In(1)
,	76	591.15	130.13	End Shut-In(1)
3	77	228.74	129.23	Open To Flow (2)
	106	306.39	131.56	Shut-In(2)
,	167	578.69	131.78	End Shut-In(2)
9	168	2323.58	131.71	Final Hydro-static

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
GOCM G 20% O 10% M 70%	2.34
GMCO/ G 20% M 5% O 75%	8.26
837 feet GIP	0.00
	GOCM G 20% O 10% M 70% GMCO/ G 20% M 5% O 75%

Gas Rat	es	
Choke (inches)	Pressure (nsig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 66280 Printed: 2019.07.03 @ 14:36:36



American Warrior Inc

3118 Cummings Rd

PO Box 399

23/22S/24W/Hodgeman

Glunt #1-23

Unit No:

Job Ticket: 66280

DST#: 1

Garden City, Kansas 67846 ATTN: Jason Alm

Test Start: 2019.07.03 @ 05:08:00

GENERAL INFORMATION:

Formation: Mississippi Warsaw

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:41:47 Time Test Ended: 12:48:02

Interval: 4577.00 ft (KB) To 4648.00 ft (KB) (TVD)

Total Depth: 4648.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Sw inney

72 Great Bend/ 144

Reference Elevations: 2439.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755 Outside

Press@RunDepth: 595.72 psig @ 4579.00 ft (KB) Capacity: psig

 Start Date:
 2019.07.03
 End Date:
 2019.07.03
 Last Calib.:
 2019.07.03

 Start Time:
 05:08:01
 End Time:
 12:48:02
 Time On Btm:
 2019.07.03 @ 07:41:17

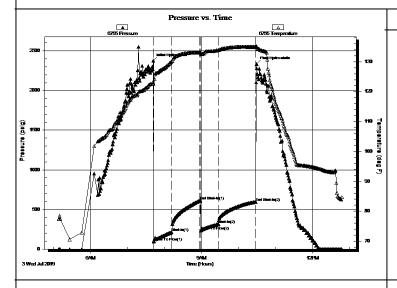
 Time Off Btm:
 2019.07.03 @ 10:28:47

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 3 1/2 minutes/ Total build 88 inches

ISI 45 Mintues/ Blow back to BOB

FF 30 Minutes/ Blow to BOB in 7 minutes/ Total build 39 inches

FSI 45 Mintues/ 2 inch blow back



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2378.42	123.03	Initial Hydro-static
1	92.01	122.62	Open To Flow (1)
31	214.55	130.17	Shut-In(1)
76	610.57	133.06	End Shut-In(1)
77	234.10	132.80	Open To Flow (2)

PRESSURE SUMMARY

106 313.45 133.87 Shut-ln(2) 167 595.72 134.91 End Shut-ln(2) 168 2335.37 135.04 Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GOCM G 20% O 10% M 70%	2.34
589.00	GMCO/ G 20% M 5% O 75%	8.26
0.00	837 feet GIP	0.00

Gas Rates

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

Trilobite Testing, Inc Ref. No: 66280 Printed: 2019.07.03 @ 14:36:36



FLUID SUMMARY

ppm

American Warrior Inc

3118 Cummings Rd

PO Box 399

23/22S/24W/Hodgeman

Glunt #1-23

Job Ticket: 66280

DST#: 1

Garden City, Kansas 67846 ATTN: Jason Alm

Test Start: 2019.07.03 @ 05:08:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 36 deg API Water Salinity:

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.20 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

3400.00 ppm Salinity: Filter Cake: 1.00 inches

Recovery Information

Recovery Table

	Length ft	Description	Volume bbl
	186.00	GOCW G 20% O 10% M 70%	2.336
İ	589.00	GMCO/ G 20% M 5% O 75%	8.262
ĺ	0.00	837 feet GIP	0.000

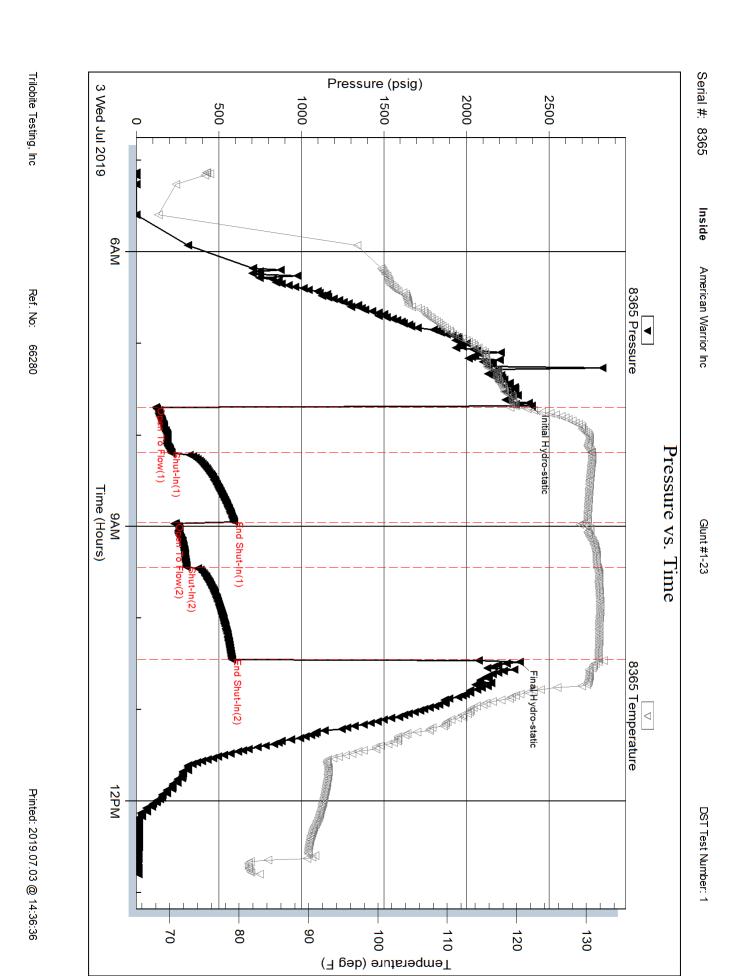
Total Length: 775.00 ft Total Volume: 10.598 bbl

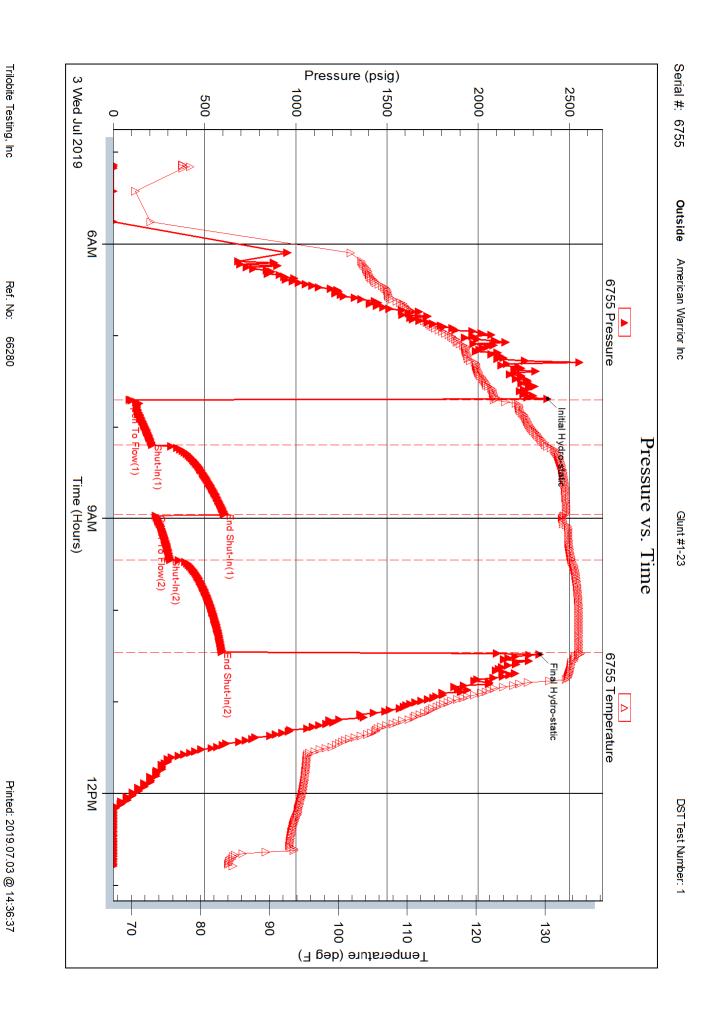
Num Fluid Samples: 0 Num Gas Bombs: Serial #: 0

Laboratory Location: Laboratory Name:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 66280 Printed: 2019.07.03 @ 14:36:36







Prepared For: American Warrior Inc

PO Box 399 Garden City, KS 67846

ATTN: Jason Alm

Glunt #1-23

23-22S-24W Hodgeman,KS

Start Date: 2019.07.03 @ 05:08:00 End Date: 2019.07.03 @ 12:48:02 Job Ticket #: 66280 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



American Warrior Inc

23-22S-24W Hodgeman, KS

PO Box 399

Garden City, KS 67846

Job Ticket: 66280

Glunt #1-23

DST#: 1

ATTN: Jason Alm

Test Start: 2019.07.03 @ 05:08:00

GENERAL INFORMATION:

Formation: Mississippi Warsaw

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:41:47 Time Test Ended: 12:48:02

Interval:

4577.00 ft (KB) To 4648.00 ft (KB) (TVD)

Total Depth: 4648.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Ken Sw inney

Unit No: 72

Tester:

Capacity:

2439.00 ft (KB)

Reference Elevations:

2431.00 ft (CF)

psig

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: 306.39 psig @ 4578.00 ft (KB)

 Start Date:
 2019.07.03
 End Date:
 2019.07.03
 Last Calib.:
 2019.07.03

 Start Time:
 05:08:01
 End Time:
 12:48:02
 Time On Btm:
 2019.07.03 @ 07:41:02

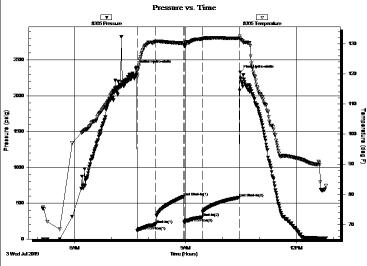
Time Off Btm: 2019.07.03 @ 10:28:47

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 3 1/2 minutes/ Total build 88 inches

ISI 45 Mintues/ Blow back to BOB

FF 30 Minutes/ Blow to BOB in 7 minutes/ Total build 39 inches

FSI 45 Mintues/ 2 inch blow back



PI	RESSUR	RE S	UMM.	ARY
	_			

1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2392.57	119.80	Initial Hydro-static
	1	118.71	119.05	Open To Flow (1)
	31	210.12	130.79	Shut-In(1)
	76	591.15	130.13	End Shut-In(1)
	77	228.74	129.23	Open To Flow (2)
	106	306.39	131.56	Shut-In(2)
	167	578.69	131.78	End Shut-In(2)
,	168	2323.58	131.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GOCM G 20% O 10% M 70%	2.34
589.00	GMCO/ G 20% M 5% O 75%	8.26
0.00	837 feet GIP	0.00
-		

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 66280 Printed: 2019.07.05 @ 11:08:22



American Warrior Inc

Garden City, KS 67846

23-22S-24W Hodgeman, KS

Glunt #1-23

Job Ticket: 66280

DST#: 1

ATTN: Jason Alm

PO Box 399

Test Start: 2019.07.03 @ 05:08:00

GENERAL INFORMATION:

Formation: Mississippi Warsaw

Deviated: Whipstock: ft (KB)

Time Tool Opened: 07:41:47 Time Test Ended: 12:48:02

Interval: 4577.00 ft (KB) To 4648.00 ft (KB) (TVD)

Total Depth: 4648.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney 72

Reference Elevations:

Unit No:

2439.00 ft (KB)

2431.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6755 Outside

Press@RunDepth: Capacity: 595.72 psig @ 4579.00 ft (KB) psig

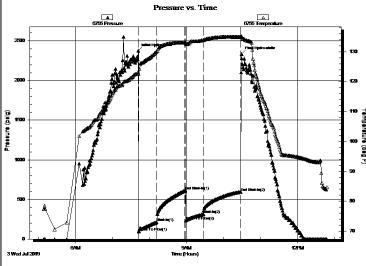
Start Date: 2019.07.03 End Date: 2019.07.03 Last Calib.: 2019.07.03 Start Time: 05:08:01 End Time: 2019.07.03 @ 07:41:17 12:48:02 Time On Btm: 2019.07.03 @ 10:28:47 Time Off Btm:

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 3 1/2 minutes/ Total build 88 inches

ISI 45 Mintues/ Blow back to BOB

FF 30 Minutes/ Blow to BOB in 7 minutes/ Total build 39 inches

FSI 45 Mintues/ 2 inch blow back



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2378.42	123.03	Initial Hydro-static
	1	92.01	122.62	Open To Flow (1)
	31	214.55	130.17	Shut-In(1)
_	76	610.57	133.06	End Shut-In(1)
	77	234.10	132.80	Open To Flow (2)
-	106	313.45	133.87	Shut-In(2)
2	167	595.72	134.91	End Shut-In(2)
J	168	2335.37	135.04	Final Hydro-static

Gas Rates

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GOCM G 20% O 10% M 70%	2.34
589.00	GMCO/ G 20% M 5% O 75%	8.26
0.00	837 feet GIP	0.00

Odo Natos				
Choke (inches)	Drocoure (poig)	Coo Roto (Mof/d)		

Trilobite Testing, Inc. Ref. No: 66280 Printed: 2019.07.05 @ 11:08:22



TOOL DIAGRAM

American Warrior Inc

23-22S-24W Hodgeman,KS

PO Box 399

Glunt #1-23 Job Ticket: 66280

63.56 bbl

0.00 bbl

0.15 bbl

63.71 bbl

DST#: 1

Garden City, KS 67846

ATTN: Jason Alm

Test Start: 2019.07.03 @ 05:08:00

Tool Information

Drill Collar:

Drill Pipe: Length: 4531.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 30.00 ft Diameter: 2.25 inches Volume:

Total Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 80000.00 lb

Length: Drill Pipe Above KB: 12.00 ft

Tool Chased 0.00 ft String Weight: Initial 64000.00 lb

Depth to Top Packer: 4577.00 ft Depth to Bottom Packer: ft

Final 65000.00 lb

Interval between Packers: 70.68 ft Tool Length: 98.68 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			4554.00		
Hydraulic tool	5.00			4559.00		
Jars	6.00			4565.00		
Safety Joint	2.00			4567.00		
Top Packer	5.00			4572.00		
Packer	5.00			4577.00	28.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	4578.00		
Recorder	1.00	6755	Outside	4579.00		
Anchor	32.00			4611.00		
Change Over Sub	1.00			4612.00		
Drill Pipe	31.68			4643.68		
Change Over Sub	1.00			4644.68		
Bullnose	3.00			4647.68	70.68	Anchor Tool

Total Tool Length: 98.68

Printed: 2019.07.05 @ 11:08:22 Trilobite Testing, Inc Ref. No: 66280



FLUID SUMMARY

American Warrior Inc

23-22S-24W Hodgeman, KS

Glunt #1-23

PO Box 399

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Garden City, KS 67846

Job Ticket: 66280 **DST#:1**

ATTN: Jason Alm

Test Start: 2019.07.03 @ 05:08:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:36 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.19 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 3400.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GOCM G 20% O 10% M 70%	2.336
589.00	GMCO/ G 20% M 5% O 75%	8.262
0.00	837 feet GIP	0.000

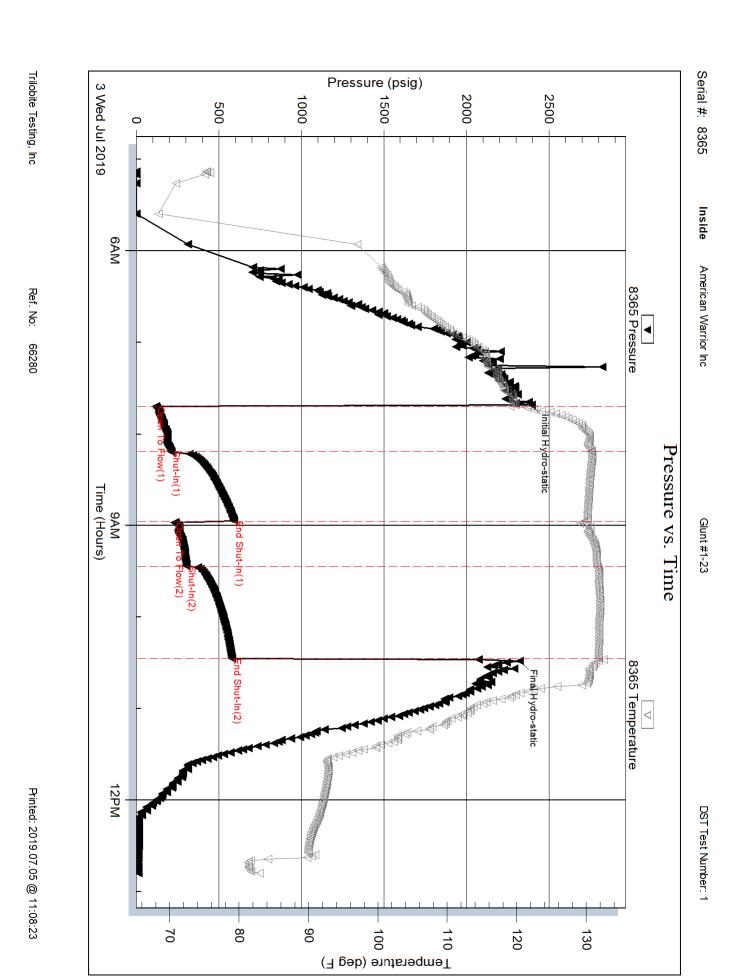
Total Length: 775.00 ft Total Volume: 10.598 bbl

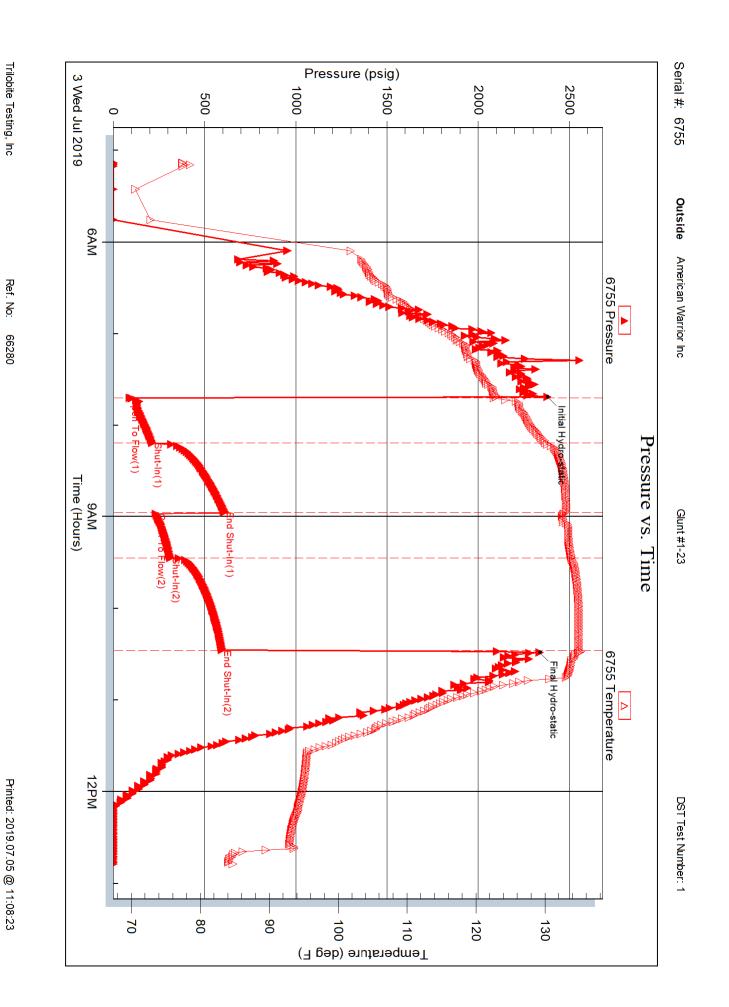
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 66280 Printed: 2019.07.05 @ 11:08:23







RILOBITE ESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

NO.

4/10 ·mp-x8·	;				.
Well Name & No. 6/41+ #1-23	<i>)</i> ,	Test No	_1_	Date <i> } D</i>	419
Company American Warrior Inc		Elevation _	2439	KB 243	<u>/</u> GL
Address FO Box 399 3118 Cumm	ings Rd (Garden (city Ka	nsas 67	846
Co. Rep/Geo. Jason Alm		Rig Dis			
Location: Sec. 23 Twp 225			·	•	KS
Interval Tested 4577-4648					
Anchor Length 7/		45.	31	MIGG VVI.	7. 3
Top Packer Depth <u>9.57 2</u>	Drill Collars Run	3 4	<u> </u>	V 10	51
Bottom Packer Depth 457 7	Wt. Pipe Run				7.2
Total Depth 4648	Chlorides	3400	ppm System	LCMZ	#
Blow Description IF Blow to BOB	3/2 min	/To 41	build		
ISI Blowback to BOB					·
FF Blow to BOB 7 minu	ites / Tota	1 build	39 in	ches	
FST 2 inch blow back	*				
Rec 186 Feet of GOCM		20 %gas	/ 0 %oil	%water	70 %mud
Rec. <u>589</u> Feet of <u>GMCO</u>	·	20 %gas	75%oil	%water	5 %mud
Rec_ <u>\$37</u> Feet of <u>GFP</u>		%gas	%oil	%water	%mud
Rec Feet of		%gas	%cil	%water	%mud
Rec Feet of		%gas	%cil	%water_	%mud
Rec Total BHT _/3/		_API RW		F Chlorides	
(A) Initial Hydrostatic 2392				ocation	
(B) First Initial Flow 118	Jars 250			led 5.08	
(C) First Final Flow 216	Safety Joint	75	•	·· ···································	1 9 m
(D) Initial Shut-In	Circ Sub			bed 10.2	
(E) Second Initial Flow	☐ Hourly Standby	· · · · · · · · · · · · · · · · · · ·		12:4	
(F) Second Final Flow306	Mileage	144 144	Comm	nents	<u></u>
(G) Final Shut-In 578	☐ Sampler				
(H) Final Hydrostatic 2323	☐ Straddle	· · · · · · · · · · · · · · · · · · ·	C EM	M Tool	
· · · · · · · · · · · · · · · · · · ·	☐ Shale Packer			uined Shale Packer_	
Initial Open	C Extra Packer			uined Packer	
Initial Shut-In45	☐ Extra Recorder			tra Copies	
Final Flow 30	Day Standby			-	
Final Shut-In 60	☐ Accessibility		Total_	1769	
	Sub Total 1769)	MP/D	ST Disc't	
Approved By Alban Mm		ur Representativ		South	
Tritobite Testing Inc. shall not be liable for damaged of any kind of the property or equipment, or its statements or opinion concerning the results of any test, tools is	r personnel of the one for whon ost or damaged in the hole sha	n a test is made, or for å Il be pald for at cost by t	ny loss suffered or susi he party for whom the I	lained, directly or indirectly, the lest is made.	rough the use of its

Geological Report

Glunt #1-23 1728' FNL & 335' FWL Sec. 23 T22s R24w Hodgeman County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Glunt #1-23 1728' FNL & 335' FWL Sec. 23 T22s R24w Hodgeman County, Kansas API # 15-083-21968-0000
Drilling Contractor:	Discovery Drilling Co. Inc. Rig #4
Geologist:	Jason T Alm
Spud Date:	June 26, 2019
Completion Date:	July 4, 2019
Elevation:	2431' Ground Level 2439'' Kelly Bushing
Directions:	Jetmore KS, 2 north to O Rd. 2 west to NW216 Rd. North 3/4, east into location.
Casing:	222' 8 5/8" surface casing 4716' 5 1/2" production casing
Samples:	10' wet and dry, 3800' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	Pioneer Energy Services "J. Hendrickson" CNL/CDL, DIL
Drillstem Tests:	One, Trilobite Testing, Inc. "Ken Swinney"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc.
	Glunt #1-23
	Sec. 23 T22s R24w
Formation	1728' FNL & 335' FWL
Anhydrite	1656' +783
Base	1692' +747
Krider	2552' -113
Towanda	2670' -231
Fort Riley	2726' -287
Heebner	3945' -1506
Lansing	3996' -1557
Stark	4266' -1827
BKC	4350' -1911
Fort Scott	4534' -2095
Cherokee	4559' -2120
Reworked Miss	4616' -2177
Mississippian	4626' -2187
Osage	4694' -2255
LTD	4720' -2281
RTD	4720' -2281

Sample Zone Descriptions

Krider	(2552' -113):	Not Tested
	75 Unit Gas Kick	
Towanda	(2670' -231):	Not Tested
	43 Unit Gas Kick	
Fort Riley	(2726' -287):	Not Tested
•	95 Unit Gas Kick	

Miss Warsaw (4626', -2187): Covered in DST #1

Dolo – Fine to scattered medium sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, few large vugular cavities, light to good oil stain with fair scattered saturation, fair show of free oil, good odor, bright yellow fluorescents, 80-130 Gas Units.

Drill Stem Tests

Trilobite Testing, Inc. "Ken Swinney"

DST #1 Mississippian Warsaw

Interval (4577' – 4648') Anchor Length 71'

IHP -2392 #

-30" – B.O.B. 3 ½ min. IFP 118-210# 591#

-45" - B.O.B. ISI

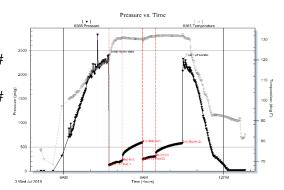
-30" – B.O.B. 7 min. 228-306# **FFP**

- 60" - Built to 2 in. 579# FSI

FHP **- 2324 #** BHT -132°F

Recovery: 837' GIP

> 589' GCMO 75% Oil 186' GOCM 20% Oil



Structural Comparison

	American Warrior, Inc.	Petroleum Inc.	Petroleum Inc.		
	Glunt #1-23	McKibbin C #1	Springer #4		
	Sec. 23 T22s R24w	Sec. 22 T22s R24w	Sec. 23 T22s R24w		
Formation	1728' FNL & 335' FWL	1980' FNL& 660' FEL		C SW NW	
Anhydrite	1656' +783	1670' +775	(+8)	1652' +774	(+9)
Base	1692' +747	NA	NA	NA	NA
Krider	2552' -113	NA	NA	NA	NA
Towanda	2670' -231	NA	NA	NA	NA
Fort Riley	2726' -287	NA	NA	NA	NA
Heebner	3945' -1506	3970' -1525	(+19)	3950' -1524	(+18)
Lansing	3996' -1557	NA	NA	3992' -1566	(+19)
Stark	4266' -1827	NA	NA	NA	NA
BKC	4350' -1911	NA	NA	NA	NA
Fort Scott	4534' -2095	4564' -2119	(+24)	4538' -2112	(+17)
Cherokee	4559' -2120	NA	NA	NA	NA
Reworked Miss	4616' -2177	NA	NA	NA	NA
Mississippian	4626' -2187	4668' -2223	(+36)	4664' -2238	(+51)
Osage	4694' -2255	Not Reached	NR	Not Reached	NR

Summary

The location for the Glunt #1-23 was found via 3-D seismic survey. The new well was significantly higher than expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippian Warsaw Formtion. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Glunt #1-23 well.

Recommended Perforations

Primary:		
Mississippian Warsaw	(4629' – 4639')	DST #1
Shallow Gas:		
Fort Riley	(2732' – 2735')	Not Tested
Towanda	(2683' - 2686')	Not Tested
Krider	(2554' - 2560')	Not Tested

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.