

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1048057

Form ACO-1 June 2009 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 Fast / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	— (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: ppm Fluid volume: bbls
Deepening Re-perf. Conv. to ENHR Conv. to SW	D Dewatering method used:
Conv. to GSW	
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	1 CHIII. #
Spud Date or Recompletion Date         Date Reached TD         Completion Date or Recompletion Date	-

#### 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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Side Two	
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes	No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	,	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ Yes ☐ Yes	No No No					
List All E. Logs Run:								
		Report all		RECORD Ne	ew Used	ion etc		
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify For		RD - Bridge P Each Interval I		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Phyllis 1-32
Doc ID	1048057

# Tops

Name	Тор	Datum
Anhydrite	1358	+769
Heebner	3590	-1463
Lansing	3637	-1510
ВКС	3954	-1877
Pawnee	4036	-1909
Ft. Scott	4112	-1985
Cherokee	4130	-2003
Mississippian	4200	-2073
RTD	4225	-2098

Thank You!		es listed on this ticket.	s receipt of the materials and services listed on this ticket	(D)	COSTOMER ACCETTANCE OF MATERIALS AND SERVICES The customer hereby acknowledg	VAL	APPROVAL			SWIFT OPERATOR
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JOB LO			WELL NO.			LEASE		Lices, Inc.
<b>J</b> MER	an h	1	1-	32			PHYLL	LS JOB TYPE TICKET NO. 17399
CHART NO.	TIME	RATE (BPM)	UBBL BCAL	PUMP T	S C	PRESS	URE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0930							ON LOCATION
	1145							START S'A" CASENG IN WELL
								TO-4225' SET . 4224
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	1325							DROP BALL-CTRONATE -ROTAT
	1405	6	D		1		400	PUMP 500 GAL MUDFLOSH
	1407	6	20				400	PUMP 20 REES KCL-FLUSH
jų.	1415		7-5					PLUG RH - MH (30505 - 20505)
	1420	4	30		/		250	MAX COMENT - 125 SIS EA-2 = 15.4 PP
	1430							WASH OUT PUMP - LIDES
	1432							RELEASE LATCH DOWN PLUG
	1435	7	0		1			DTSPLACE PLUG
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		η	89				650.	CHIEF OFF DOMINIC
	1450	6'h	99.6				1500	PING DOWN - PSE UP LATCH IN PLUG
	1462						OK	RELEASE PSE - HEUN
								WASH TRUCK
	1600							JOB COMPLETE
								THANK YOU
					T			WAWE JASON R., ROGER B., RUSSELL

Thank You!					APPEROVAL	14 Co/ 00 2	SWIFT OPERATOR
TOTAL 2264 49		CUSTOMER DID NOT WISH TO RESPOND     CUSTOMER DID NOT WISH TO RESPOND     receipt of the materials and services listed on this licker	CUSTOM Dividence of the m	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledge	R ACCEPTANCE OF M		2-24-10
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76 Owner	DATE 2-26-16	Jess C. H		ASE COUNTYPARISH hyllis Nuess	VIRACTOR		1. Nessing KS
PAGE 1					CITY, STATE, ZIP CODE	Services, Inc.	11_
TICKET 18330				American Werrior Inc.	ADDRESS		
					CHARGE TO COM		2

SWIFT Services, Inc. DATE 2-26-B PAGE NO. **JOB LOG** LEASE Phyllis WELL NO. 1-32 CUSTOMER JOB TYPE JOB TYPE Kenent Between 878x54 18330 American Warrier PUMPS PRESSURE (PSI) RATE (BPM) CHART VOLUME TIME DESCRIPTION OF OPERATION AND MATERIALS NO. (BBL) (GAL) TC TUBING CASING 1345 On Location 8%x5%" Dig out Braden Head Leak No Collar on Ste con't Press up į.a 100 Injection Rate 1430 3 È 400 Start Coment 755ks @ 12,2pps 3 300 Cement SOSker @ 11.419 3 3 Shut Down - Shutin 50 51 Wash Truck 1530 Job Complete Thunkyon Britt, Durct Juson ~ - 19-

# **Geological Report**

American Warrior, Inc. **Phyllis #1-32** 2085' FNL & 1220' FWL Sec. 32 T18s R21w Ness County, Kansas



# **American Warrior, Inc.**

# **General Data**

Well Data:	American Warrior, Inc. Phyllis #1-32 2085' FNL & 1220'FWL Sec. 32 T18s R21w Ness County, Kansas API # 15-135-25022-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason Alm
Spud Date:	February 17, 2009
Completion Date:	February 23, 2009
Elevation:	2119' Ground Level 2127' Kelly Bushing
Directions:	Bazine KS, intersection of Main St. and Hwy 96, South to Burgess St. East on Burgess across old bridge, South and East 3/4 mi., North into location.
Casing:	1372' 8 5/8" surface casing 4224' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Dan Bangle"
Problems:	None
Remarks:	None

	American Warrior, Inc.
	Phyllis #1-32
	Sec. 32 T18s R21w
Formation	2085' FNL & 1220' FWL
Anhydrite	1358', +769
Base	1395', +732
Heebner	3590', -1463
Lansing	3637', -1510
BKc	3954', -1827
Pawnee	4036', -1909
Fort Scott	4112', -1985
Cherokee	4130', -2003
Mississippian	4200', -2073
Osage	4210', -2083
RTD	4225', -2098

### **Formation Tops**

### **Sample Zone Descriptions**

Mississippian Osage (4210', -2083): Covered in DST #1

Dolo  $-\Delta$  – Fine to medium sucrosic crystalline with fair to good vuggy and inter-crystalline porosity, heavy chert, triptolitic, weathered with good vuggy porosity, heavy oil stain and saturation, good show of free oil, strong odor, bright yellow cut fluorescents, 42 units hotwire.

# **Drill Stem Tests**

Trilobite Testing, Inc. "Dan Bangle"

DST #1	Mississippian Osage Interval (4212' – 4222') Anchor Length 10' IHP – 2133 #	
	IFP $-20^{\circ}$ – B.O.B. 9 min.	43-75 #
	ISI $-45$ " – Built to 1/4 in.	1253 #
	FFP – 20" – B.O.B. 16 min.	82-128 #
	FSI $-45$ " – Built to 1/4 in.	1237 #
	FHP – 2093 #	
	BHT $-116^{\circ}$ F	
	Recovery: 496' GIP 215' CGO Gravity: 41° A 90' MCGO 70% Oil	\PI

# **Structural Comparison**

		l			
	American Warrior, Inc.	D N B Drilling, Inc.		American Warrior, Inc.	
	Phyllis #1-32	Schniepp #1		Schniepp #1-32	
	Sec. 32 T18s R21w	Sec. 32 T18s R21w		Sec. 32 T18s R21w	
Formation	2085' FNL & 1220' FWL	2590' FNL & 2640' FEL		2300' FSL & 810' FWL	
Anhydrite	1358', +769	1351', +771	(-2)	1359', +773	(-4)
Base	1395', +732	NA	NA	1395', +734	(-2)
Heebner	3590', -1463	3582', -1460	(-3)	3588', -1459	(-4)
Lansing	3637', -1510	3627', -1505	(-5)	3635', -1506	(-4)
BKc	3954', -1827	NA	NA	3954', -1821	(-6)
Pawnee	4036', -1909	NA	NA	4036', -1907	(-2)
Fort Scott	4112', -1985	4103', -1981	(-4)	4114', -1985	FL
Cherokee	4130', -2003	NA	NA	4131', -2002	(-1)
Mississippian	4200', -2073	4195', -2073	FL	4195', -2066	(-7)
Osage	4210', -2083	4199', -2077	(-6)	4209', -2080	(-3)

### **Summary**

The location for the Phyllis #1-32 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had examined the decision was made to run 5 1/2 inch production casing to further evaluate the Phyllis #1-32 well.

### **Recommended Perforations**

Mississippian Osage (4210' – 4222') DST #1

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

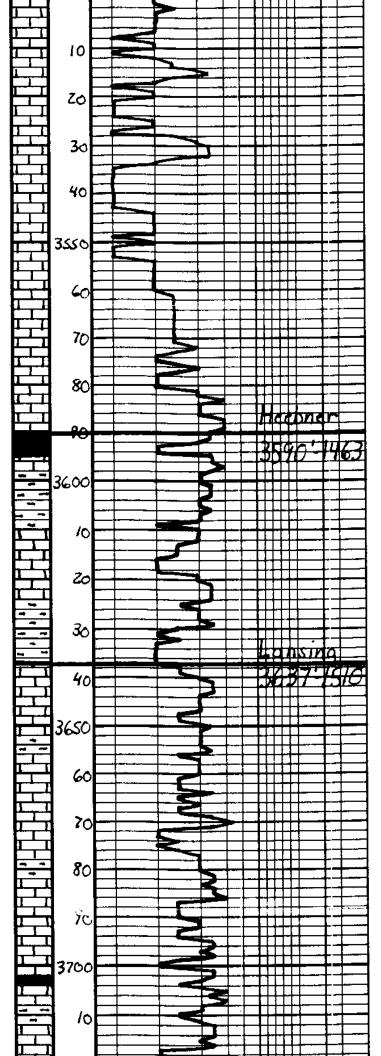
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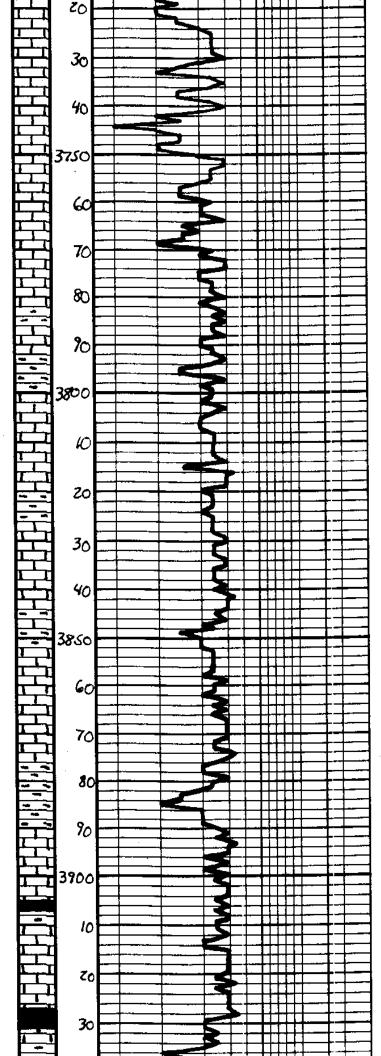
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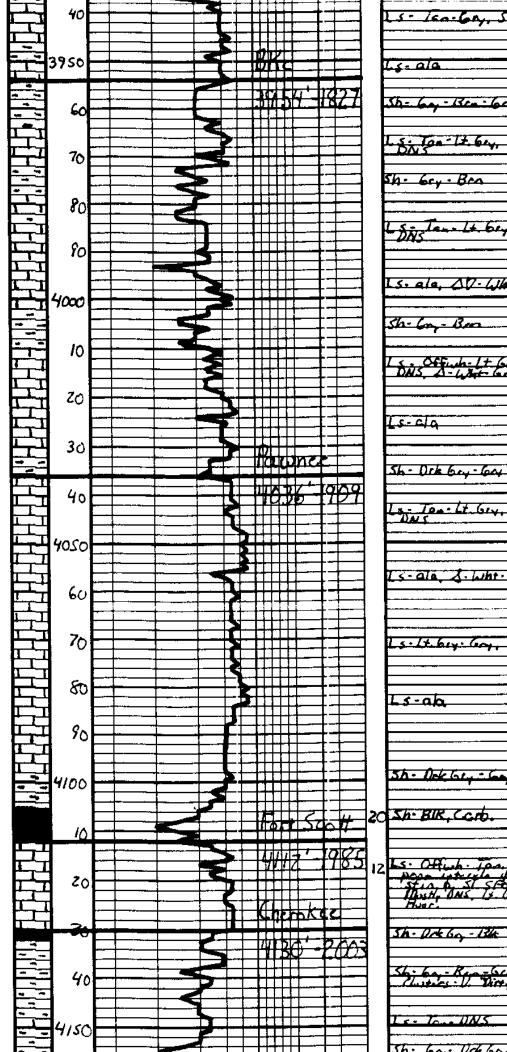
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lucation aco DO LS. Ten. Lt. Gry. S. Mattled. En als. Fassi 4:00 p.m. 2-21-10 Li-Gla LS. Qla, Challey Is cle Lit least to Gry Marter Is: alc Far S. Data, DAS Sh-BIK, Lach. Fissile Mud Vis.46 Sh- Ga- Ben Gen Wt. 8.7 LS- Ottub. Ton to x/a w/ pure interx/a & poperat wissy Borren Sh. 614 Bra. 610 15. Tog. 1+ Gry. En x/a, Fassit al wil poor wor of Borrea Sh. 64. Brn Les Ton-1+ Gry, For X/4, Fassil well will poor own g. 15-ale w/ Fair Genel camp Sh - Gey - Bron Fossif well, with Boar and A. Èn. Mud Sicla Vis. 45 Sh - Dole Gay Blke Wt. 8.6 So Offich: Ton For Starlo DAS St. Foscil out. Morely



Lsiala LS. Offick-14 for England Le Offich It Bay Fasting LS. Offich 13 and Frankland Barris cal wit Pear born of Sicla DNS Sh. Gry. Bon bea mud Vis.53 W6.8.9 LS. Too-1+ Gry Faxlor Baccin and will pass come Sh- Gey - Ben SI. Ford COL. DWS Ls-ale SI Mattled Sh- loop Re-15: Officing Tay. Fox low Ls-alc, DNS, M. Here Sh . Gry - Bron Ls, Offich-It Gay, Fri-Sub XIA, SI. Fussil Ool., DMS <u>Myd</u> 145.49 WE. 9.0 Sh - Drie Gay - Blk S. O.S. up- It Gay En - Subala Sh. Blk. Cont. Sh. Dekbey - Ben



25- Ten-Gay, Subila, and Sh- 64 - Ben- 600 L.S. Ton - 17. 614, Fn. S. be/m. sh- 6cy · Bra DNS Tan- Lt. Gey, S. La/m. IS. ale, AV- What. Gery Much Vis. 48 Wt. 9.1 Sh- long - Ben C. Offich-1+ Gr. Ro Subda DNS, A-WAT- Gry Sh- Ork Gry-Gay 1 - Ton-Lt Gry, Fa-Suby/a. Is-ale S. Wht. Gry Ls. Lt. big: Goy, S. Lyln. DNS Sh . Dole Gry - Gay 20 Sh-BIK, Carb. 12 LS. Office . Ton. For the wind of the second stand of the second stand of the second stand of the second Sh. Ork by - Blk Shi bay - Rea - Geo Free SS Plusters - U. Dirty - Geo, Bea Le. Tone UNS DST#1

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(Q) TRILOB		DRILL	STEM	ΓES	TREP	ORT				
		American W	arrior Inc			Ph	yllis#1·	-32		
I EST	TNG , INC.	Box 399 Garden City	Ks 67846				18-21-Ne			
		-					Ticket: 38		DST#	
		ATTN: Cec	II O'Brate			les	t Start: 20	)10.02.2	2 @ 20:15:15	)
GENERAL INFORMAT	ION:									
Formation:MissDeviated:NoTime Tool Opened:22:22:45Time Test Ended:01:56:45		ft	(KB)			Tes	ter: I	Conventi Dan Ban 38	ional Bottom I gle	Hole
Total Depth: 4222.0	<b>(KB) To 422</b> 0 ft (KB) (TV 8 inchesHole	D)				Ref	erence Ele KB t	evations: to GR/CF	2119.0	00 ft (KB) 00 ft (CF) 00 ft
Press@RunDepth: Start Date: Start Time: TEST COMMENT: IF-S ISI- FF-	ns ide 128.33 psig ( 2010.02.22 20:15:16 Strong B-B in 9 Weak 1/4" blov Strong B-B in -Weak 1/4" blov	End Da End Tir 9 min v 16 min			2010.02.23 01:56:45	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2010.02.2 22 @ 22:18:4 23 @ 00:32:1	45
	Pressure vs. Ti					PI	RESSUF	RESUN	MMARY	
2200		8554 Temper FIELD FIE		- 110 - 100 - 100	Time (Min.) 0 4 20 66 67 87 132 134	Pressure (psig) 2133.01 42.94 75.34 1253.31 81.84 128.33 1237.42 2093.89		Open T Shut-In End Sh Open T Shut-In End Sh	lydro-static To Flow (1) (1) (1-ln(1) To Flow (2)	
F	Recovery						Ga	s Rates	S	
Length (ft)	Description		Volume (bbl)				Choke (i	inches) Pr	ressure (psig)	Gas Rate (Mcf/d)
	0%g 70%o 209	%m	0.99	4						
215.00 CGsyO 10% 0.00 496 GIP	%g 90%o		3.02 0.00	-						
490 GIP			0.00	+						
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Trilobite Testing. Inc			o: 38134	-			Delete -li	2010.00	2.23 @ 08:36	<u></u>

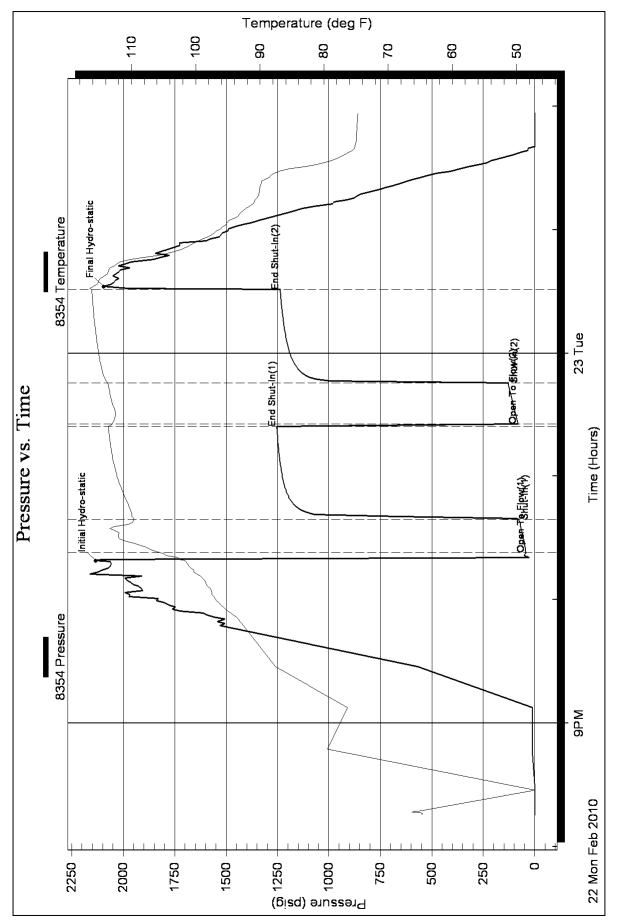
(Or)-		DRI	ILL STEM TEST R	EPORT	-		FLUID S	JMMARY
	RILOBITE	Americ	can Warrior Inc		Phyllis # 1	-32		
	ESTING , INC.	Box 39	99		32-18-21-N	ess-Ks		
			n City Ks 67846		Job Ticket: 3		DST#: 1	
		ATTN:	Cecil O'Brate			010.02.22 @ 2	20:15:15	
Mud and C	ushion Information							
Mud Type: G	Gel Chem		Cushion Type:			Oil A PI:	36	deg API
Mud Weight:	9.00 lb/gal		Cushion Length:			Water Salinity		ppm
Viscosity:	53.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	7.80 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure:		psig			
Salinity:	2800.00 ppm							
Filter Cake:	inches							
Recovery Ir	nformation		Recovery Table					
	Leng	th	Description		Volume	1		
	ft	uı			bbl	_		
		90.00	MCGsyO 10%g 70%o 20%m		0.989	-		
		215.00	CGsyO 10%g 90%o		3.016	-		
		0.00	496 GIP		0.000			
	Total Length:	305	5.00 ft Total Volume:	4.005 bbl				
	Num Fluid Samp	oles: 0	Num Gas Bombs:	0	Serial #:			
	Laboratory Nan		Laboratory Location	:				
	Recovery Com	ments:						



American Warrior Inc

32-18-21-Ness-Ks

DST Test Number: 1



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Ref. No: 38134

Trilobite Testing, Inc