

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1152333

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 East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
-	
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG         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:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Operator Name:
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
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	1152333
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	L	-	n (Top), Depth an	d Datum Top	Sample Datum
Samples Sent to Geolog	ical Survey	Yes No	Indi			юр	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	ectronically	<pre> Yes  No  Yes  No  Yes  No  Yes  No</pre>					
List All E. Logs Run:							
		CASING	G RECORD	ew Used			
		Report all strings set	t-conductor, surface, inte	ermediate, producti	ion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL 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 Fo		RD - Bridge F Each Interval		e	,		ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed Pr	oduct	on, SWD or ENH	<i>₹</i> .	Producing N		oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITION	OF	BAS:			METHOD (	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Subm	it ACC	-18.)		Other (Specify	)					

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Meyer-O'Brate 2-21
Doc ID	1152333

# Tops

Name	Тор	Datum
Anhydrite	1482	787
Heebner	3752	-1483
Lansing	3797	-1528
Base Kansas City	4130	-1861
Pawnee	4217	-1948
Ft. Scott	4289	-2020
Cherokee	4307	-2038
MIssissippian	4401	-2132
TD	4417	-2148

# ALLIED OL & GAS SERVICES, LLC 060357

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092 SERVICE POINT:

Great Bend, KS

DATE 3-14-13	SEC. 2	TWP. 195	RANGE 21W	CALLED OUT	ON LOCATION 9 0 J AU	JOB START	JOB FINISH 9 30 AM
LEASE O'Brute	WELL #	2-21	Bazine Dora LOCATION Luca	15 to 8011. E 1.01	Zen. Nint-	COUNTY	STATE
OLD OR NEW (Cir	rcle one)			-			

CONTRACTOR Petromark	2
TYPE OF JOB Sur Face C.	asing
HOLE SIZE 12 1/4 "	T.D. 2216+
CASING SIZE 5 75 23 C	DEPTH 210,981+
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT 20F+
CEMENT LEFT IN CSG. 2 0 (+	1,272,551, 5,354
PERFS.	· · · · · · · · · · · · · · · · · · ·
DISPLACEMENT 12.5 3515	Fresh Water
EQUIPM	ENT

CEMENTER Charles ElKins **PUMP TRUCK** HELPER Jush I sauc #398 **BULK TRUCK** # 344 /170 DRIVER Jul Honokan **BULK TRUCK** DRIVER #

**REMARKS:** 

Purio 5 bbls Fr.	esh Water	
My + Pump 36	bbls Comerst	(15052)
Displace with	12.5 bbh Fre	sh Wat-
Lelive 20 Fr. 1.	172 141, 5,354	Crit in Casing
Pump 5 bbis Fr. My + Pump 36 Displace with Lelive 20 ft 1. Cicculate 10 bbis,	Aler Commit	to Surface
CHARGE TO: $A_h$	Lerican Wa	cre.cr
	_	
STREET		·····
CITY	STATE	7.IP
<u> </u>	V	

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

-<u>-----</u> At a ser C PRINTED NAME\_ SIGNATURE

# OWNER American Warrier

CEMENT

AMOUNT ORDERED 1505, 11 + 3% Curl + 2% Gel

COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
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HANDLING	@
MILEAGE	

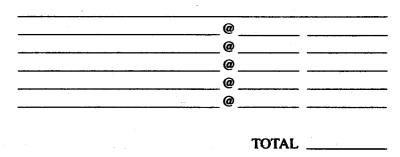
TOTAL \_\_\_\_\_

#### **SERVICE**

DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
MILEAGE	@	
MANIFOLD	@	
	@	
	@	

TOTAL

#### **PLUG & FLOAT EQUIPMENT**



SALES TAX (If Any)\_\_\_\_\_

TOTAL CHARGES

DISCOUNT \_\_\_\_\_\_ IF PAID IN 30 DAYS

		RVICES, LLC	-			CEMENT DATA:
ate 3-14-1	<u>}</u> Distric	a Great E	<u>end</u> Ti	cket No. 060		Spacer Type: Frish Wulter
ompany ARCE	···· O'Brat	err.or	Ri	Petrom	VrKZ .	Amt. 5 951 Siles Yield ft <sup>3</sup> /sk Density <u>9.34</u> PP
ese Merter	· O Brut	*		lell No. <u>2 - 2</u>	<b>I</b> .	
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cation <u>But z</u>			Fi	eld		LEAD: Pump Time hrs. Type $\frac{1/1}{13\%}$ C $\frac{1}{6}$ C $\frac{1}{6}$ Excess
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						Amt Sks Yield ft <sup>3</sup> /sk Density PP(
						WATER: Lead gals/sk Tail gals/sk Total Bbl
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asing Depths: To	»(2		Bottom	210.98		Pump Trucks Used
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ill Pipe: Size	121/4	Weight	21	Collars		Elast Equip Manufasturar
Den Hole: Size _ APACITY FACTO			<u></u> 11. ł	г. <b>Б.</b> ТО		Float Equip: Manufacturer Depth Depth
APACITY FACIO Ising:		0636	lin f+/¤	ы. 15.7	;	Shoe:         Type         Depth           Float:         Type         Depth
sing: pen Holes:	Bolls/Lin.ft +	1458	Lin. ft./B	ы 6.8549		Centralizers: Quantity Plugs Top Btm
ill Pipe:				bl		Stage Collars / Sgo top Sun
nnulus:	Bbls/Lin. ft.	0735	Lin. ft./B	ы 13.6037		Special Equip.
				ы		Disp. Fluid Type FW Amt. 10,5 Bbls. Weight 8,34 PP
rforations: F	rom	ft. to		ft. Amt		Mud Type Weight Weight PP
						CEMENTER
DMPANY REPRI	ESENTATIVE PRESSU DRILL PIPE CASING			ID PUMPED ( Pumped Per Time Period	DATA RATE Bols Min.	CEMENTER
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TIME AM/PM	PRESSU	RES PSI	FLU			REMARKS Central + Prop Truck on location (Wollingh Casing on Bottion
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SWIFT OPERATOR	DATE SIGNED TIME SIGNED DATA	ALAPT WE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS	LINITED WARRANTY provisions.	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, that are not limited to DAYNENT DELEASE INDEMNITY and			1 201-	* 400 × 1	404 1	403	402 1	578		PRICE SECONDARY REFERENCE ACCOUNTING	REFERRAL LOCATION				AND CA KS MELETRULEU NO. 2 12 1	MELL/PROJECT NO	ervices, Inc.	ions the KS WELLPROJECT NO.	ions the KS WELLPROJECT NO	ervices, Inc.	ions the KS MELLPROJECT NO
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C. L. L. L.

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ART	TIME	RATE	VOLUME	PUMPS	PRESSUR		are compart 10mg SITING	24157
10.		(BPM)	(BBL) (GAL)	TC	TUBING	CASING	DESCRIPTION OF OPERATION AND	
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SWIET OPERATOR	LEGAL TERNIS: Customer hereb the terms and conditions on the rev but are not limited to, PAYMENT, LIMITED WARRANTY provisions START OF WORK OR DELIVERY OF GOODS START OF WORK OR DELIVERY OF GOODS X1 5 Co H AVE SKENED 2/2 MAR 13		2910 2910	Services Services
Ro He	E SIGNE			MELLIPROJECT
A NPROVAL	Ind agrees to thich include;			
	REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300	SMD GEMENT DEMENT SERVICE CHARGE MUNIMUM DRAYAGE	Pump CHARKE PORT (DULAR OPENJILK FLOCELE D-AIR	
	SURVEY     AGR       OUR EQUIPALENT PERFORMED     MITHOUT BREAKDOWN?       WE UNDERSTOOD SWO     MITHOUT BREAKDOWN?       WE UNDERSTOOD SWO     MITHOUT BREAKDOWN?       VER SERVICE WAS     MITHOUT DELAY?       PERFORMED WITHOUT DELAY?     MITHOUT DELAY?       VER OPENATED THE EQUIPMENT     AND PERFORMED LOB       SATISFACTORE, Y?     MITHOUR SERVICE?       VAR YOU SATISFIED WITHOUR SERVICE?     I YES       L CUSTOMER DID NOT WISH TO	4E 175 175	30	CULAR WELL FERM
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That	PAGE TOTAL 43	2572	350 - 12	TICKET
Thank You!	PAGE TOTAL 4395 2.		TIMPLIE	

JOBLO				0				ices, Inc.	0		DATE	13 PAGE NO.
CUSTOMER	RICAN IN	LARRIDE	WELL NO.	21		LEASE	R-DF	RATE	MENT PORT	( VULAR	TICKET NO. 24	124/3
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# DRILL STEM TEST REPORT

Prepared For:

#### **American Warrior Inc**

PO Box 399 Garden City KS 67846

ATTN: Scott Corsair

#### Meyer-O'Brate #2-21

#### 21-19s-21w Ness,KS

 Start Date:
 2013.03.20 @ 12:18:16

 End Date:
 2013.03.20 @ 20:15:06

 Job Ticket #:
 48508
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

an-	RILOBITE	DRILL S	STEM ТЕ	ES	T REPO	ORT				
		American War	rior Inc			21-	19s-21w	Nes	s,KS	
	ESTING , INC.	10 D0x 333				Ме	yer-O'B	rate #	#2-21	
		Garden City KS	5 67846			Job	Ticket: 48	8508	DST	#:1
		ATTN: Scott	Corsair			Tes	t Start: 20	)13.03.	.20 @ 12:18:16	6
GENERAL IN	FORMATION:									
Formation: Deviated: Time Tool Opene Time Test Endeo		ft (K	B)			Tes Tes Unit	ter:	Convei Jeff Br 67	ntional Bottom row n	Hole (Initial)
<b>Interval:</b> Total Depth: Hole Diameter:	<b>4403.00 ft (KB) To 44</b> 4414.00 ft (KB) (T\ 7.88 inchesHole		-			Refo	erence Ele KB t	evation o GR/0	2263.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 66 Press@RunDep Start Date: Start Time:		@ 4406.00 f End Date End Time.		2	2013.03.20 20:00:06	Capacity Last Calil Time On Time Off	o.: Btm: 2		8000. 2013.03. 3.20 @ 14:32: 3.20 @ 17:33:	36
TEST COMM		v back BOB in 27 1/2 mir se blow back built								
Π	Pressure vs. 1	11me V 6625 Temperature		-	Time	Pressure	Temp		JMMARY notation	
2500				120	(Min.)	(psig)	(deg F)			
-		The Haro-state		110	0 1	2635.41 22.90	108.05 107.88		Hydro-static To Flow (1)	
2000				100	45	58.12	115.02			
- -			-	,∞ Ter	90	1230.64			Shut-In(1)	
, 1600				nperatu R	90 135	107.00 88.99	116.10 120.21		To Flow (2)	
				perature (deg F) B B B P	183 181 181	1185.88 2075.13	120.21 120.57 120.82	End S	Shut-In(2) Hydro-static	
	SPM	6PM		30						
12PM 0 Wed Mar 2013	Time (Hours)									
	Time (Hours)						Ga	s Rat	es	
			Volume (bbl)				Gas Choke (i		<b>ES</b> Pressure (psig)	Gas Rate (Mcf/d)
Length (ft)	Recovery		Volume (bbl) 0.05				-			Gas Rate (Mcf/d)
Length (ft) 10.00	Recovery Description	0%W 40%M	. ,				-			Gas Rate (Mcf/d)
Length (ft) 10.00 109.00	Recovery Description GOCWM 10%G 20%O 30	0%W 40%M (	0.05				-			Gas Rate (Mcf/d)
Length (ft) 10.00 109.00 63.00	Recovery Description GOCWM 10%G 20%O 30 MCGO 5%M 45%G 50%0	0%W 40%M (( O (	0.05 0.55				-			Gas Rate (Mcf/d)
Length (ft) 10.00 109.00 63.00 15.00	Recovery           Description           GOCWM 10%G 20%O 30           MCGO 5%M 45%G 50%0           MO 25%M 75%O	D%W 40%M ( D ( ( (	0.05 0.55 0.88				-			Gas Rate (Mcf/d)

DRILL STEM TEST REPORT           Marrican Warrior Inc De Dox 399 Garden City KS 87846 ATTN: Scott Corsair         21-19-5/1 W less, KS Meyer-O'Brate #2-21 Jub Ticket: 48508           GENERAL INFORMATION: Formation:         This Scott Corsair         Test Start: 2013.03.02 @ 12:18:16           GENERAL INFORMATION: Formation:         Miss Daviate:         No. Whipstock:         It (KB)           Daviate:         No. Whipstock:         It (KB)         Test Start: 2013.03.02 @ 12:18:16           GENERAL INFORMATION: Formation:         Test Start:         Zent Start:			DRILL STEM	TES	TREP	ORT				
ATN:     Scarden Dity KS     67946     Jub     The Soft Carsair     DST#: 1       ATN:     Scarden Dity KS     67946     Jub     The Soft Carsair     Jub     The Soft Carsair     Test Start:     2013.03.20 @ 12:16:16       GENERAL INFORMATION:     Formation:     Miss     Miss     Test Start:     2013.03.20 @ 12:16:16       GENERAL INFORMATION:     Time Tool Opened:     14:32:46     Test Start:     2013.03.20 @ 12:16:16       Time Tool Opened:     14:32:46     Test Start:     2013.03.20 @ 12:16:16       Total Depth:     4440.00 ft (KB) TO 4114.00 ft (KB) (TVD)     Test Start:     2013.03.20 % It (KB)       Total Depth:     213.03.20 End Date:     2013.03.20 Last Calls :     2013.03.20 % It (KB)       Start Date:     2013.03.20 End Date:     2013.03.20 Last Calls :     2013.03.20 % It (KB)       Test TCOMMENT:     FFP-Fairable built to 07'     EFP-Good blow book built to 1/4*     Time Of Bitm:       Test Tool Depth:     12:18:47     End Time:     19:58:46     Time Of Bitm:       Time Time:     12:18:47     End Time:     19:58:46     Time Of Bitm:       Test CoMMENT:     FFP-Good blow book buil to 1/4*     Time Of Bitm:     Time Of Bitm:       Time Time:     12:18:47     End Time:     10:10     Time Of Bitm:       Time Of Domine vs: Time     FFP-Goo			American Warrior Inc			21-	19s-21v	v Ness	s,KS	
Job Itzatt 48306       DSIR:1         GENERAL INFORMATION:       Formation:       Miss         Deviated:       No       Whipstock:       ft (KB)         Time Tool Opened: 14:32:46       Test Type:       Conventional Bottom Hole (Initial)         Time Tool Opened: 14:32:46       Test Type:       Conventional Bottom Hole (Initial)         Time Tool Opened: 14:32:46       Unit No:       67         Interval:       4414.00 ft (KB) (TVD)       Reference Bevations:       2280.00 ft (KB)         Dib Darriett:       7.88 inches Hole Condition:       Good       KB to GRUCF:       0.00 ft         Start Tate:       213.03.20       Be Ind Date:       2013.03.20       East Cable:       2013.03.20         Start Tate:       12:18:47       End Date:       2013.03.20       Last Cable:       2013.03.20         Start Tate:       12:18:47       End Date:       2013.03.20       Last Cable:       2013.03.20         Start Time:       12:18:47       End Date:       2013.03.20       Last Cable:       2013.03.20         Start Tate:       21:8:47       End Date:       2013.03.20       Last Cable:       2013.03.20         Start Tate:       10:57:846       Time On Brm:       Time Off Brm:       Time Off Brm:         Start Tate: </td <td></td> <th>TING , INC.</th> <td>PO Box 399</td> <td></td> <td></td> <td>Ме</td> <td>yer-O'E</td> <td>Brate #</td> <td><b>#2-21</b></td> <td></td>		TING , INC.	PO Box 399			Ме	yer-O'E	Brate #	<b>#2-21</b>	
GENERAL INFORMATION:       GENERAL INFORMATION:       Generation: Miss       Deviated:     No     Whipstock:     ft (KB)       Time Tool Opened: 14:32:46     Test::::::::::::::::::::::::::::::::::::			Garden City KS 67846			Job	Ticket: 4	8508	DST	Γ#: 1
Formation: Miss Deviated: No Whipstock: It (KB) The Torol Dependent 1432:46 The Torol Depth: 4403.00 ft (KB) To 4414.00 ft (KB) (TVD) Total Depth: 4414.00 ft (KB) (TVD) Total Depth: 2013.03.20 End Date: 2013.03.20 End Date: 2013.03.20 Start Date: 2013.03.20 Ft (KB) The Advisor of the third of t			ATTN: Scott Corsair			Tes	t Start: 2	013.03.	20 @ 12:18:1	6
Deviated:     No     Whipstock:     ft (KB)     Test Type:     Conventional Bottom Hole (Initia)       Time Tool Opened:     14:32:46     Test Type:     Conventional Bottom Hole (Initia)       Time Tool Opened:     14:32:46     Test Type:     Conventional Bottom Hole (Initia)       Time Tool Opened:     14:32:46     Time Tool Opened:     14:32:46       Time Tool Depend:     4403.00 ft (KB) To     4414.00 ft (KB) (TVD)     Reference Elevations:     2269.00 ft (KB)       Serial #:     3673     Inside     Press @RunDeph:     2013.03:20     East Calib.:     2013.03:20       Start Time:     12:18:47     End Date:     2013.03:20     East Calib.:     2013.03:20       Start Time:     12:18:47     End Time:     19:58:46     Time On Bim:       TEST COMMENT:     IP:P-Fair blow built to 9'     SibDead no blow back     FFP-Good blow Bock in 27:12 min       FSI-Weak surface blow back     FFP-Good blow Bock     Time On Bim:     Time Of Bim       Time Tool     Capacity:     Manotation     Gas Rates       Exercise free     Coolog files (50% Oil 0.05     0.05     Side (60% Oil 0.05       000000000000000000000000000000000000	GENERAL INFORM	ATION:								
Total Depth:       4414.00 ft (KB) (TVD)       2283.00 ft (CF)         Hole Dameter:       7.88 inchesHole Condition:       Good       KB to GRCF:       6.00 ft         Start Date:       2013.03.20       End Date:       2013.03.20       2013.03.20       Start Date:       2013.03.20       Last Callb::       2013.03.20         Start Date:       12:18:47       End Date:       2013.03.20       Last Callb::       2013.03.20         TEST COMMENT:       IFP-Fair blow built to 9'       IS:Dead no blow back       FFP-Good blow back built to 1/4'       Time On Birm:         Test:       FFP-Good blow back       FFP-Good blow back built to 1/4'       Time Of Birm:       Time Of Birm:         Total optime vs. Time       Persave vs. Time       Pressure vs. Time       Pressure vs. Time       Pressure vs. Time         Total optime vs. Time       Pressure vs. Time       Pressure vs. Time       Pressure vs. Time       Pressure vs. Time         Total optime vs. Time       Pressure vs. Time       Series vs. Time       Series vs. Time       Series vs. Time         Total optime vs. Time       Pressure vs. Time       Pressure vs. Time       Series vs. Time       Series vs. Time         Total optime vs. Time       Series vs. Time       Series vs. Time       Series vs. Time       Series vs. Time         Time (	Deviated: No Time Tool Opened: 14:32	46	ft (KB)			Tes	ter:	Jeff Bro		n Hole (Initial)
Press@RunDepth:       psig @       4406.00 ft (KB)       Capacity:       8000.00 psig         Start Date:       2013.03.20       End Date:       2013.03.20       Last Calib.:       2013.03.20         Start Time:       12.18.47       End Time:       19:58.46       Time On Bitri:       Time Off Bitri:         TEST COMMENT:       IFP-Fair blow built to 9"       ISE-Dead no blow back       FTP-Good blow BOB in Z7 1/2 min       Time Off Bitri:         FSI-Veads surface blow back built to 1/4"       Immonoid Common	Total Depth: 4414	1.00 ft (KB) (TVI	D)			Ref			2263	3.00 ft (CF)
Biblead no blow back FPF-Good blow BOB in 27 1/2 min FSI-Weak surface blow back built to 1/4" PRESSURE SUMMARY Time Pressure Term Annotation (dg F) Annotation	Press@RunDepth: Start Date:	psig @ 2013.03.20	End Date:			Last Cali Time On	b.: Btm:			
Image: Non-State         Image: Non-State<	ا F	SI-Dead no blow I FP-Good blow B SI-Weak surface	back OB in 27 1/2 min blow back built to 1/4"		I					
Imp       Pressure       Temp       Annotation         000 <td>■ 8679 Pressure</td> <th>Pressure vs. Tin</th> <td></td> <td>-</td> <td>Time</td> <td></td> <td></td> <td></td> <td></td> <td></td>	■ 8679 Pressure	Pressure vs. Tin		-	Time					
Length (ft)         Description         Volume (bbl)           10.00         GOCWM 10%G 20%O 30%W 40%M         0.05           109.00         MCGO 5%M 45%G 50%O         0.55           63.00         MO 25%M 75%O         0.88					-					
Length (ft)         Description         Volume (bbl)           10.00         GOCWM 10%G 20%O 30%W 40%M         0.05           109.00         MCGO 5%M 45%G 50%O         0.55           63.00         MO 25%M 75%O         0.88		Recovery					Ga	as Rate	es	
109.00         MCGO 5%M 45%G 50%O         0.55           63.00         MO 25%M 75%O         0.88	Length (ft)		Volume (bbl)				-			Gas Rate (Mcf/d)
63.00 MO 25%M 75%O 0.88	10.00 GOCWM	10%G 20%O 309	%W 40%M 0.05	_			-			_ <b>i</b> d
	109.00 MCGO 59	6M 45%G 50%O	0.55							
15.00 Gassy Oil 60%G 40%O 0.21	63.00 MO 25%	M 75%O	0.88							
	15.00 Gassy O	l 60%G 40%O	0.21							
0.00 141-GIP 0.00	0.00 141-GIP		0.00	_						

CONT	RILOE	RITE				REPOR	I	TOOL DIAGR
			America	n Warrior I	nc		21-19s-21w Ness,I	KS
	I EST	<b>TING</b> , INC	I O DOA				Meyer-O'Brate #2	2-21
			Garden	City KS 67	7846		Job Ticket: 48508	DST#:1
			ATTN:	Scott Cors	air		Test Start: 2013.03.20	0 @ 12:18:16
Tool Informatio	on							
Drill Pipe:	Length:	4285.00 ft	Diameter:	3.80	inches Volume:	60.11 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches Volume:	0.00 bbl	Weight set on Pack	ker: 22000.00 lb
Drill Collar:	Length:	119.00 ft	Diameter:	2.28	inches Volume:	0.60 bbl	Weight to Pull Loos	
Drill Pipe Above k	KB:	29.00 ft			Total Volume:	60.71 bbl	Tool Chased	3.00 ft
Depth to Top Pac		4403.00 ft					String Weight: Initia	
Depth to Bottom		ft					Fina	al 67000.00 lb
nterval betw een	Packers:	11.00 ft						
Fool Length:		39.00 ft						
Number of Packe Tool Comments:	ers:	2	Diameter:	6.75	inches			
Tool Comments:				6.75 Serial No		Depth (ft) Ad	ccum. Lengths	
Tool Comments: <b>Tool Descriptic</b>	on					<b>Depth (ft)</b> Ad 4376.00	ccum. Lengths	
Tool Comments: <b>Tool Descriptic</b> Change Over Sul	on		ngth (ft)				ccum. Lengths	
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool	on		<b>ngth (ft)</b> 1.00			4376.00	ccum. Lengths	
	on		<b>ngth (ft)</b> 1.00 5.00			4376.00 4381.00	ccum. Lengths	
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool	on		<b>ngth (ft)</b> 1.00 5.00 5.00			4376.00 4381.00 4386.00	ccum. Lengths	
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars	on		<b>ngth (ft)</b> 1.00 5.00 5.00 5.00			4376.00 4381.00 4386.00 4391.00	ccum. Lengths	Bottom Of Top Packe
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00			4376.00 4381.00 4386.00 4391.00 4394.00		Bottom Of Top Pack
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 4.00			4376.00 4381.00 4386.00 4391.00 4394.00 4398.00		Bottom Of Top Pack
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 4.00 5.00			4376.00 4381.00 4386.00 4391.00 4394.00 4398.00 4403.00		Bottom Of Top Pack
Fool Comments: <b>Fool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 4.00 5.00 1.00		. Position	4376.00 4381.00 4386.00 4391.00 4394.00 4398.00 4403.00 4404.00		Bottom Of Top Pack
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder	on		ngth (ft) 1.00 5.00 5.00 3.00 4.00 5.00 1.00 2.00	Serial No	. Position	4376.00 4381.00 4386.00 4391.00 4394.00 4398.00 4403.00 4404.00 4406.00		Bottom Of Top Pack
Tool Comments: <b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on		ngth (ft) 1.00 5.00 5.00 3.00 4.00 5.00 1.00 2.00 0.00	Serial No 6625	. Position	4376.00 4381.00 4386.00 4391.00 4394.00 4398.00 4403.00 4404.00 4406.00		Bottom Of Top Pack

	RII ()RITE	DRI	LL STEM TEST REPOR	RT	FLU	ID SUMMAR
	RILOBITE	Americ	an Warrior Inc	21-19s-21	w Ness,KS	
	ESTING , INC.	PO Bo Garde	x 399 n City KS 67846	<b>Meyer-O'</b> Job Ticket:	Brate #2-21 48508 DS	T#: 1
		ATTN:	Scott Corsair		2013.03.20 @ 12:18:1	
lud and Cush	ion Information					
lud Type: Gel C	hem		Cushion Type:		Oil A PI:	deg API
lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
iscosity:	51.00 sec/qt		Cushion Volume:	bbl	·	
ater Loss:	6.79 in <sup>3</sup>		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity:	4800.00 ppm			1 0		
lter Cake:	inches					
ecovery Info	rmation		Recovery Table			
	Leng	'n	Description	Volume	7	
	ft	. 1	Description	bbl		
		10.00	GOCWM 10%G 20%O 30%W 40%M	0.05	0	
		109.00	MCGO 5%M 45%G 50%O	0.55	0	
		63.00	MO 25%M 75%O	0.88	4	
		15.00	Gassy Oil 60%G 40%O	0.21	0	
		0.00	141-GIP	0.00	0	
	Total Length:	197	7.00 ft Total Volume: 1.694 bb	ol		
	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial #	<i>t</i> :	
			Laboratory Location:			
	Laboratory Nam		, , , , , , , , , , , , , , , , , , , ,			
	Laboratory Nam Recovery Comr	nents:				
	Laboratory Nan Recovery Comr	nents:				
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Printed: 2013.03.22 @ 15:58:56

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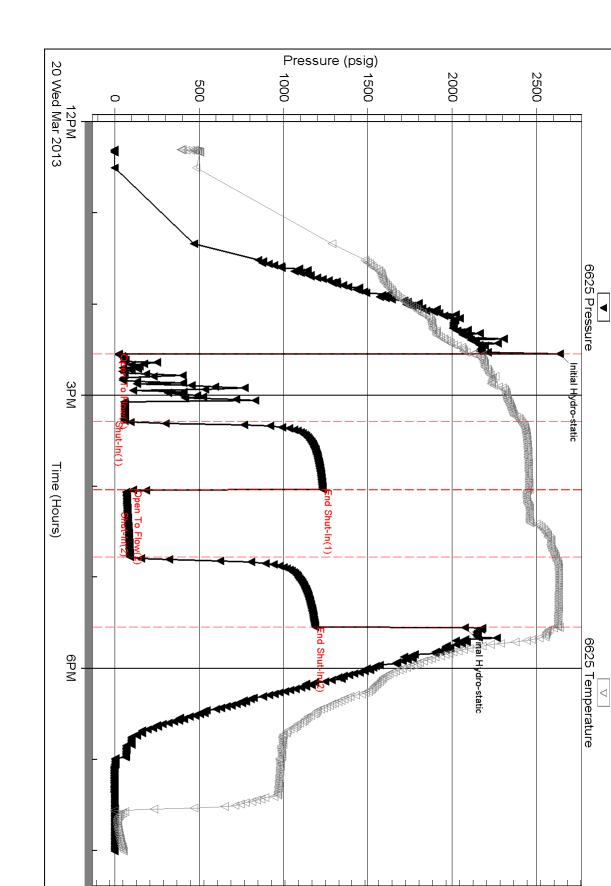
80

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Temperature (deg F)

Ref. No: 48508

Trilobite Testing, Inc



Serial #: 6625 Outside American Warrior Inc

Meyer-O'Brate #2-21

Pressure vs. Time

DST Test Number: 1

- 120

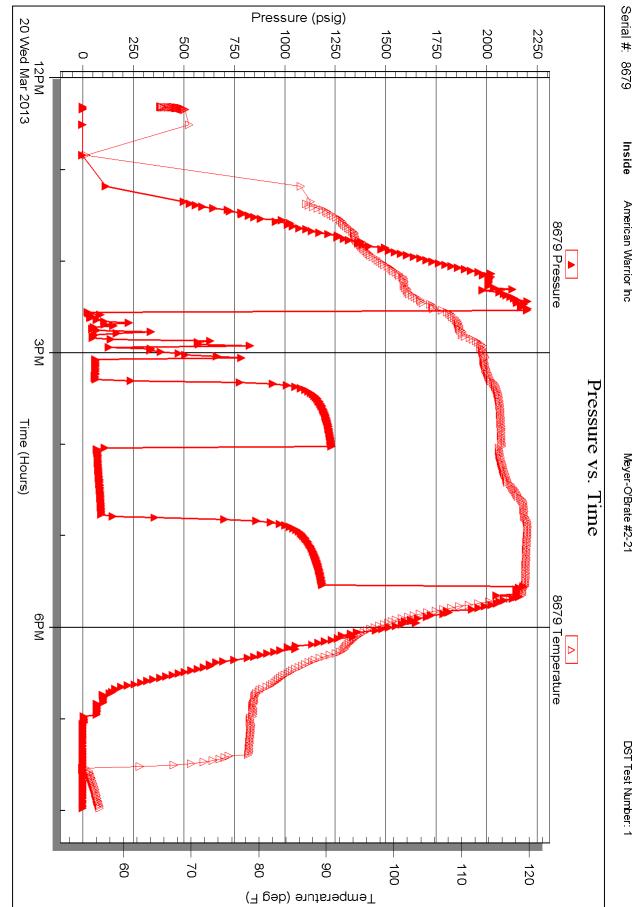
110

100

Printed: 2013.03.22 @ 15:58:56

Ref. No: 48508





American Warrior Inc

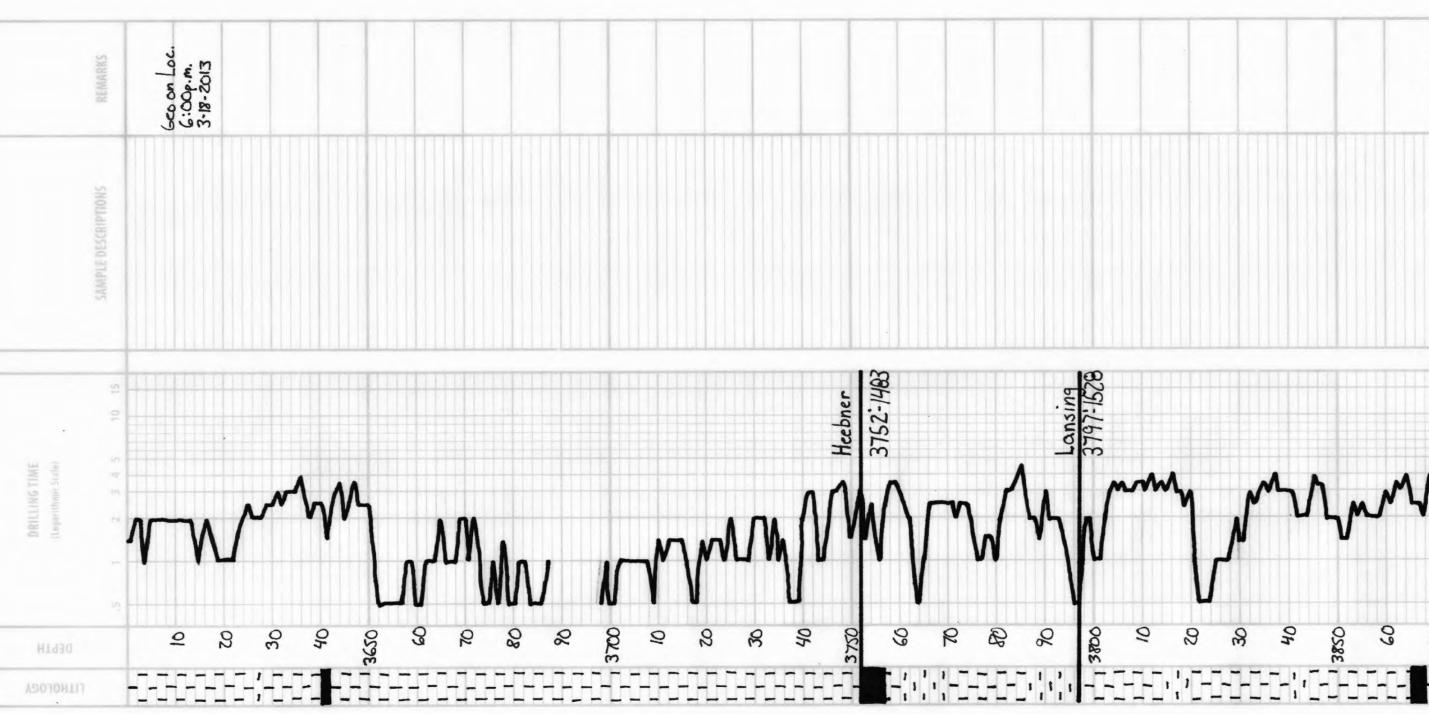
DST Test Number: 1

Serial #: 8679 Inside

4/10	RILOBITE ESTING INC. P.O. Box 1733 • Hays,	, Kansas 67601			<b>Ticket</b>	
Company And Address Po Box	Meyer-O'Brate rican Warrisr 399 Garben Ci ASON ALAN 1 TWP. 195	INC TY KS 4	<i>n</i>	J2LO9 Omark	_Date <u>3-20</u> _KB_ <u>22</u> 62	2-13 3_GL KS
Anchor Length Top Packer Depth Bottom Packer Depth_ Total Depth		Drill Collars Ru Wt. Pipe Run Chlorides 42	<u>4285</u> 119 0		Mud Wt9,4 Vis57 WL6.5	8
TST. FP-	Deab No Blow Ba Good Blow BoB Weak Sunface Blo Feet of MC GO Feet of MC GO	CK IN 27 1/2	<b>^</b>	0 1/4 3 20 %oil 50 %oil 75 %oil	30 %water %water	% %mud 5 %mud 25 %mud
Rec 15 Rec Rec Total 197	Feet of <u>GASSY</u> 0, ) Feet of <u>141-GIP</u> BHT DI35	Gravity 1250	•		%water %water Chlorides 18,0 cation 11:38	
<ul> <li>(A) Initial Hydrostatic_</li> <li>(B) First Initial Flow</li> <li>(C) First Final Flow</li> <li>(D) Initial Shut-In</li> <li>(E) Second Initial Flow</li> <li>(F) Second Final Flow</li> </ul>	1231 107 89	X       Test       1250         Jars       250         Safety Joint          Circ Sub          Hourly Standby       Mileage	75	T-Starte T-Open_ T-Pulled T-Out	12:18	3
Final Flow	2075	<ul> <li>Shale Packer_</li> <li>Extra Packer_</li> <li>Extra Recorde</li> </ul>	r	Ruir Extr Sub Tot	ned Shale Packer ned Packer a Copies al0 1745.50	
Final Shut-In	45	Sub Total 174	5.50 Our Representative		Barn	

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Operator American WLease Meyer-O'BrateAPI # 15-135-25547-0Field Hinnergardt EaLocation 420' FSL &Sec. 21Twp.CountyNess	Drilling Varrior, Inc. No. 0000 ast	KB DF GL Surface 85/8 Production 51/2 Electri 21w	evation 2269' 2263' ng Record 8" @ 223'	Drilling Contractor       Petromark Drilling, LLc. Rig #1         Commenced       3-14-2013       Completed       3-21-2013         Samples Saved From       4000'       To       RTD         Drilling Time Kept From       3600'       To       RTD         Samples Examined From       4000'       To       RTD         Samples Examined From       4000'       To       RTD         Geological Supervision From       4000'       To       RTD         Displacement       3500'       Mud Type       Chemical         Summary and Recommendations         The location for the Meyer-O'Brate #2-21 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 been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Meyer-O'Brate #2-27 well.	ND THE COLOR COLUME Cher Dolomite
Formation	Log Tops	Sample Tops	Struct Comp		EGEN Cale sh
Anhydrite Base		1482' +787 1510' +759	+1		Shale
Heebner Lansing		3752' -1483 3797' -1528	+6 +6		sandstone
BKc Pawnee		4130' -1861 4217' -1948	NA +4		
Fort Scott Cherokee		4289' -2020 4307' -2038	+7 +4		
Mississippian		4401' -2132	-4		11111111111111111111111111111111111111
Total Depth		4417' -2148		Respectfully Submitted,	
Reference Well For Structural C SW SW Sec. 21 T19s R21w N		Drilling Meyer C #1		Jason T Alın Hard Rock Consulting, Inc.	



														-								DST#1 Mississippian 4403'-4414'	TF 22-584	TST 1230# Decol FF 88-07#	FST 1186# 14im. Built to 14im. FH 2075# BHT 120°F	Recount 141' GIP 15' GCO 63' MGO	10/20160 300 60CUM 10/ 60CUM		Respectfully.	Jug. 25. 2013
	Sh- Bm- 6ny	Sh- Bm. Gry Ls- Top Fr. Subyh, Barrin V	Ls. ala, DNS	sh. Brn. Levy	s- Ton, Subkln, Ool. ONS	Sh. Gry- Dik Gry	LS: Offich's Tom, Fin-Subernie, Bernen	sh- Dak Gry · Bik	-JJJS - Gry - Muttech Subals.	Sh. Bin-Gry-Grm	Matterie Lt. bery, Subarta, DNS	Sh- Gry- Bin	LS-Ten- Lt. Lory, Subula, DWS	sh- Diklery- Brn	Ls - Ton - Lt. Lay, Subkln, DNS	Sh- Gry-Gon Ls-Lt Gry. Subah, DNS	ele-	Ls. Gry. Subada, DNS	Ls.ala	Ls-ala, Increasing by Shales	51 - 15/4, Carb. La - Tap - 14 - 64 - 5 - 5 - 5 - 5 - 10 - 10/ Poor Sear 1 - 14 - 5 - 10 - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ - 10/ -	Sh- Dek Ger- Blk	Sh- Gry- Bin Gen	Ls - Ten - Lt. Gry, Subuln, DNS Sh - Gry - OrkGry	Ls. Ton. Ly. bry, Jubeln, ONS	sh. 13in - 6iy - 6in	Sh. Bin. Gin. Gry. J. Keltulkt	Shi ale, Few Renchan ar len.	Uple: PHUM 101, FSI JUL NUM 11 Sect with -51, Aro 2- Weekwirdler Sect with -51, Aro 2- Weekwirdler 25- Barsy & Sur Shaper Fritter Sing P. Fair Yeavy Court Office Britter	
mmmmmmmmm	M	M	M	WW	<b>~~</b> ~	-1	w~	<b>M</b> -\		130-1861	M	$\mathcal{N}$	$\sim$	$\sim$	~~	Perwner H217-1948	M	<b></b>	~~~~	~^	Fort 5cott 22	Chemkee	Μ./	/ <b>\</b> \	/~-	МM	<u>~~</u>	Mississippien	Depth 01'-2132 35	0F17-11HL
	100	2 2 2	9	4050	92 -	ço	% 4100		92		40 1150	9	70	50 50	4200	0 20	30	0s2h	° <b>3</b>		0	1300	20 2	fc 30	41350	40 60	ç 08	90 4400	<b>GD</b> 07	

# **Geological Report**

American Warrior, Inc. **Meyer-O'Brate #2-21** 420' FSL & 440' FWL Sec. 21 T19s R21w Ness County, Kansas



# **American Warrior, Inc.**

# **General Data**

Well Data:	American Warrior, Inc. Meyer-O'Brate #2-21 420' FSL & 440' FWL Sec. 21 T19s R21w Ness County, Kansas API # 15-135-25547-0000
Drilling Contractor:	Petromark Drilling, LLC Rig #1
Geologist:	Jason T Alm
Spud Date:	March 14, 2013
Completion Date:	March 21, 2013
Elevation:	2263' Ground Level 2269' Kelly Bushing
Directions:	Bazine KS, at the intersection of Hwy 96 and Austin St. South 5 mi. to 80 rd. East 2 1/8 mi. North into location.
Casing:	223' 8 5/8" surface casing 4416' 5 1/2" production casing
Samples:	10' wet and dry, 4000' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Jeff Brown"
Problems:	Geolograph had problems marking feet throughout the later part of well.
Remarks:	There was plugging action for the first 30 minutes of the intial flow during DST #1.

	American Warrior, Inc.
	Meyer-O'Brate #2-21
	Sec. 21 T19s R21w
Formation	420' FSL & 440' FWL
Anhydrite	1482', +787
Base	1510', +759
Heebner	3752', -1483
Lansing	3797', -1528
BKc	4130', -1861
Pawnee	4217', -1948
Fort Scott	4289', -2020
Cherokee	4307', -2038
Mississippian	4401', -2132
RTD	4417', -2148

# **Formation Tops**

### **Sample Zone Descriptions**

Fort Scott(4289', -2020):Not TestedLs – Fine to sub-crystalline with poor scattered inter-crsytalline<br/>porosity, light to fair oil stain in porosity, mostly dense, slight<br/>show of free oil when broken, 18 units hotwire.

#### Mississippian Osage (4410', -2133): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with poor to fair intercrystalline and slight vuggy porosity, very heavy slightly triptolitic chert, weathered with fair vuggy porosity, light to good oil stain and saturation in porosity, fair show of free oil, good odor, bright yellow fluorescents, 39 units hotwire.

## **Drill Stem Tests**

Trilobite Testing, Inc. "Jeff Brown"

**DST #1 Mississippian Osage** Interval (4403' – 4414') Anchor Length 11' IHP - 2035 # – 45" – Built to 9 in. IFP 22-58 # - 45" - Dead 1230 # ISI – 45" – B.O.B. 27 ½ min. 88-107 # FFP -45" – Built to  $\frac{1}{4}$  in. 1186 # FSI - 2075 # FHP  $BHT - 120^{\circ}F$ Recovery: 141' GIP 15' GCO 63' MO 75% Oil 109' MCGO 50% Oil 10' GOCWM 20% Oil, 30% Water

# **Structural Comparison**

	American Warrior, Inc.	Walters Drilling		American Warrior, Inc.	
	Meyer-O'Brate #2-21	Meyer C #1		Meyer #1-21	
	Sec. 21 T19s R21w	Sec. 21 T19s R21w		Sec. 21 T19s R21w	
Formation	420' FSL & 440' FWL	C SW SW		1150' FSL & 500' FWL	
Anhydrite	1482', +787	1480', +786	(+1)	1483', +794	(-7)
Base	1510', +759	NA	NA	1518', +759	FL
Heebner	3752', -1483	3755', -1489	(+6)	3759', -1482	(-1)
Lansing	3797', -1528	3800', -1534	(+6)	3803', -1526	(-2)
BKc	4130', -1861	NA	NA	4135', -1858	(-3)
Pawnee	4217', -1948	4218', -1952	(+4)	4223', -1946	(-2)
Fort Scott	4289', -2020	4293', -2027	(+7)	4296', -2019	(-1)
Cherokee	4307', -2038	4308', -2042	(+4)	4312', -2035	(-3)
Mississippian	4401', -2132	4394', -2128	(+4)	4410', -2133	(+1)

## Summary

The location for the Meyer-O'Brate #2-21 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 been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Meyer-O'Brate #2-21 well.

# **Recommended Perforations**

Mississippian Osage: (44	D1' – 4415') DST #1
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Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.