



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1114103

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- | | | |
|--|---|-------------------------------------|
| ☐ New Well | ☐ Re-Entry | ☐ Workover |
| ☐ Oil | ☐ WSW | ☐ SWD |
| ☐ Gas | ☐ D&A | ☐ ENHR |
| ☐ OG | ☐ GSW | ☐ Temp. Abd. |
| ☐ CM (Coal Bed Methane) | | |
| ☐ Cathodic | ☐ Other (Core, Expl., etc.): _____ | |

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- | | | | |
|---|-----------------------------------|--|---------------------------------------|
| ☐ Deepening | ☐ Re-perf. | ☐ Conv. to ENHR | ☐ Conv. to SWD |
| | | ☐ Conv. to GSW | |
| ☐ Plug Back: _____ | Plug Back Total Depth | | |
| ☐ Commingled | Permit #: _____ | | |
| ☐ Dual Completion | Permit #: _____ | | |
| ☐ SWD | Permit #: _____ | | |
| ☐ ENHR | Permit #: _____ | | |
| ☐ GSW | Permit #: _____ | | |

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

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

☐ Letter of Confidentiality Received

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

1114103

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. 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 ☐ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☐ No Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No Electric Log Submitted Electronically ☐ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum
---	---

CASING RECORD ☐ New ☐ Used							
Report all strings set-conductor, surface, intermediate, production, 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:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Kuehn 8-1
Doc ID	1114103

Tops

Name	Top	Datum
Anhydrite	1436	755
Heebner	3660	-1469
Lansing	3708	-1517
Base Kansas City	4032	-1841
Pawnee	4118	-1927
Ft. Scott	4195	-2004
Cherokee	4217	-2026
Mississippian	4288	-2097
RTD	4305	-2114

ALLIED OIL & GAS SERVICES, LLC 053574

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Levee Band 1/53

DATE <i>12-12-12</i>	SEC. <i>1</i>	TWP. <i>19S</i>	RANGE <i>22W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Kuehn</i>	WELL # <i>46-1</i>	LOCATION <i>Bazileys 25 1w NE</i>			COUNTY <i>NESS</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)			<i>1/17/10</i>				

CONTRACTOR *Perio Mark Drilling II*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D.

CASING SIZE *2 5/8* DEPTH *221.90*

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *156x*

PERFS.

DISPLACEMENT *13.17 bbl's freshwater*

EQUIPMENT

PUMP TRUCK CEMENTER *Dustin Chambers*

3960 HELPER *Josh Isaac*

BULK TRUCK

344170 DRIVER *Alon G*

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED *150 sks class A*

3-1-cc 2-1-gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

REMARKS:

Break circulation with Big Mud
Mix 150 sks class A 3-1-cc 2-1-gel
Pig place 13.17 bbl's freshwater
8 1/2 hr in
Cement did circulation
plug down 10:00 PM
Big Down

CHARGE TO: *American Warrior*

STREET

CITY STATE ZIP

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.

PRINTED NAME *X Darren L. Amerin*

SIGNATURE *Thom Kuy*

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Date _____ District Georgetown, TX Ticket No. 53574
 Company Enbridge Rig 2011A4K41
 Lease 1011A Well No. 5-1
 County Rockwall State TX
 Location 1011A 251m NE Field _____

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
 Surface ☒ Intermediate ☐ Production ☐ Liner ☐
 Size 5 5/8 Type NCV Weight 24# Collar GRD

Casing Depths: Top 143 Bottom 221.90

Drill Pipe: Size 1 1/2 Weight 16.6 Collars White
 Open Hole: Size 12 1/4 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

	Bbls/Lin. ft.	Lin. ft./Bbl.
Casing:	<u>1.2637</u>	<u>15.72</u>
Open Holes:	<u>1.1458</u>	<u>6.55</u>
Drill Pipe:	<u>1.2142</u>	<u>70.32</u>
Annulus:	<u>1.5735</u>	<u>18.60</u>

Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: Freshwater
 Amt. 55615 Skys Yield _____ ft³/sk Density 8.94 PPG

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time 7:10:00 hrs. Type Class A 31cc
21.421 Excess _____

Amt. 150 Skys Yield 1.34 ft³/sk Density 15.2 PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls

Pump Trucks Used 358-2046 F

Bulk Equip. 344-170-Allen Co

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Freshwater Amt. _____ Bbls. Weight 879 PPG

Mud Type Latex Weight 9.1 PPG

COMPANY REPRESENTATIVE _____

CEMENTER Dustin C

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						214 Location - Rig up
						Had safety meeting
						Run 5 5/8 casing
						Break circulation with Rig Mud
						Hook up cement pump
				56615		Pump 56615 Freshwater Ahead
			2525	23.25		Mix 150 sks Class A 31cc 2-Age 1
			11.42	13.17		214 place 13.17 bbls Freshwater
						& shut in
						Cement 13.17 bbls Freshwater
						Plug Run 10:00 AM
						Rig Down



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23320

CUSTOMER
American Warrior

WELL
Kuehn 8-1

DATE
10-19-12

PAGE 2 OF 2

325	1	Shredded Cement		175	515	13	50	2362	50
284	1	Celsoal	5	%	8	515	35	280	00
283	1	Salt	10	%	400	116	00	180	00
292	1	Helad	3/4	%	125	116	7	125	75
276	1	Flocle	1/4	lbs	50	116	2	100	00
290	1	O-Air	2	gal	35	100	70	00	00
281	1	Mud Flush	500	gal	1	125	625	00	00
221	1	Liquid KCL	2	gal	25	00	50	00	00
582	1	Minimum Drygas Charge	1	ea	250	00	250	00	00
581		SERVICE CHARGE	175		2	00	350	00	00
		TOTAL WEIGHT	18325			LOADED MILES	20		
						CUBIC FEET	175		
						TON MILES			

5236.25

SWIFT Services, Inc.

DATE	10-19-12	PAGE NO	7
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Customer: American Warrior

WELL NO.
8-1

LEASE

14. Quelques

JOB TYPE

JOB TYPE
Cement 5 1/2" Longstring

TICKET NO.

CKET NO.
23370

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								TD - 7365 TP - 4294 Set @ 43.4
								PL top of 72 1426' Shoe Jt #1 32.80
								Centralizer "1" 2" 3" 4" 7"
								B-14 "5" 72
								175 lbs EA-2 w/ 1/4" Flocrete 5 1/2" IS. 5"
	1400							On Location
	1435							Start 5 1/2 casing in well
	1445							Drop ball Circulate
	1705	6 3/4	12		✓			3rd Pump 5' gel Mud flush
		6 3/4	20		✓			2nd Pump 20 bbl KCL Flush
			7					Plug RH (30 lbs)
	1717	4 1/2	35		✓			2nd mix 145 lbs EA-2 w/ 1/4" Flocrete
								Work out Pump & Lines
								Drop Latch Down Plug
	1734	6 3/4	Ø		✓			Set 1st plug cement
		6 3/4	81		✓			250 Lift PSI
		6 3/4	13		✓			Max Lift PSE
	1750	Ø	101.5		✓			Land Lift Down Plug
								Release PSI Hold
								Work up track
	1820							Job complete
								Thank You Dave Blaine TJ Flint

DATE	25 Oct 12	PAGE NO	
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TICKET NO. 23489

[illegible]

Geological Report

American Warrior, Inc.

Kuehn #8-1

770' FSL & 2015' FWL

Sec. 1 T19s R22w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Kuehn #8-1 770' FSL & 2015' FWL Sec. 1 T19s R22w Ness County, Kansas API # 15-135-25481-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason T Alm
Spud Date:	October 12, 2012
Completion Date:	October 19, 2012
Elevation:	2185' Ground Level 2191' Kelly Bushing
Directions:	Bazine KS, at the intersection of Hwy 96 and Austin St. on the West side of Bazine, South 2 mi. to 110 Rd. West 1 mi. North through cattle guard and Northeast into location.
Casing:	223' 8 5/8" surface casing 4304' 5 1/2" production casing
Samples:	10' wet and dry, 3800' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Jason McLemore"
Problems:	None
Remarks:	None

Formation Tops

Formation

Anhydrite
Base
Heebner
Lansing
BKc
Pawnee
Fort Scott
Cherokee
Mississippian
RTD

American Warrior, Inc.

Kuehn #8-1

Sec. 1 T19s R22w

770' FSL & 2015' FWL

1436', +755

1474', +717

3660', -1469

3708', -1517

4032', -1841

4118', -1927

4195', -2004

4217', -2026

4288', -2097

4305', -2114

Sample Zone Descriptions

Mississippian Osage (4288', -2097): **Covered in DST #1**

Dolo – Δ – Fine to medium sucrosic crystalline with poor to fair inter-crystalline porosity, heavy very weathered triptolitic chert with good vuggy porosity, light to fair oil stain, good show of free oil, good odor, bright yellow fluorescents, 35 units hotwire.

Drill Stem Tests
Trilobite Testing, Inc.
“Jason McLemore”

DST #1

Mississippian Osage

Interval (4292' – 4302') Anchor Length 10'

IHP	– 2141 #	
IFP	– 45" – B.O.B. 15 min.	21-120 #
ISI	– 45" – Built to 2 ¾ in.	1204 #
FFP	– 45" – B.O.B. 20 min.	126-197 #
FSI	– 45" – Built to 2 in.	1169 #
FHP	– 2094 #	
BHT	– 114°F	

Recovery: 410' GIP
 460' GCO 70% Oil Gravity: 40° API
 30' OCWM 15% Oil, 10% Water

Structural Comparison

	American Warrior, Inc. Kuehn #8-1 Sec. 1 T19s R22w 770' FSL & 2015' FWL	American Warrior, Inc. Kuehn #4-1 Sec. 1 T19s R22w 1420' FSL & 1350' FWL	American Warrior, Inc. Kuehn #5-1 Sec. 1 T19s R22w 1275' FSL & 2290' FEL		
Formation					
Anhydrite	1436', +755	1420', +749	(+6)	1435', +755	FL
Base	1474', +717	1458', +715	(+2)	1469', +721	(-4)
Heebner	3660', -1469	3640', -1471	(+2)	3659', -1469	FL
Lansing	3708', -1517	3686', -1517	FL	3706', -1516	(-1)
BKc	4032', -1841	4009', -1840	(-1)	4030', -1840	(-1)
Pawnee	4118', -1927	4092', -1923	(-4)	4114', -1924	(-3)
Fort Scott	4195', -2004	4172', -2003	(-1)	4195', -2005	(+1)
Cherokee	4217', -2026	4192', -2023	(-3)	4216', -2026	FL
Mississippian	4288', -2097	4255', -2086	(-11)	4284', -2094	(-3)

Summary

The location for the Kuehn #8-1 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 Kuehn #8-1 well.

Recommended Perforations

Mississippian Osage:	(4288' – 4302')	DST #1
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Geologic Report

Drilling Time and Sample Log

Operator **American Warrior, Inc.**

Lease **Kuehn** No. **8-1**

API # **15-135-25481-0000**

Field **DeWald North**

Location **770' FSL & 2015' FWL**

Sec. **1** Twp. **19s** Rge. **22w**

County **Ness** State **Kansas**

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1436' +755	+6
Base		1474' +717	+6
Heebner		3660' -1469	+2
Lansing		3708' -1517	FL
BKc		4032' -1841	-1
Pawnee		4118' -1927	-4
Fort Scott		4195' -2004	-1
Cherokee		4217' -2026	-3
Mississippian		4288' -2097	-11
Total Depth		4305' -2114	

Reference Well For Structural Comparison American Warrior, Inc. Kuehn #4-1
1420' FSL & 1350' FWL Sec. 1 T19s R22w Ness Co. Kansas

Drilling Contractor	Petromark Drilling, LLC. Rig #1		
Commenced	10-12-2012	Completed	10-19-201
Samples Saved From	3800'	To	RTD
Drilling Time Kept From	3600'	To	RTD
Samples Examined From	3800'	To	RTD
Geological Supervision From	3800'	To	RTD

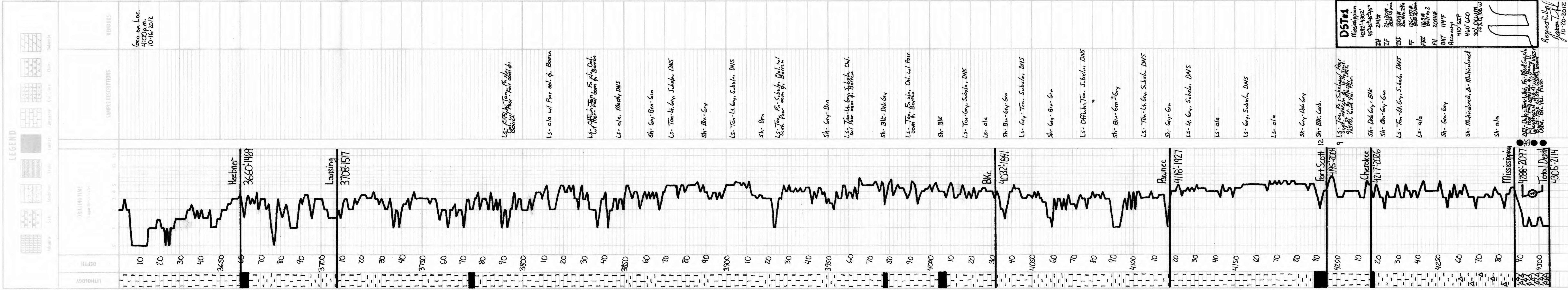
Displacement 3500' Mud Type Chemical

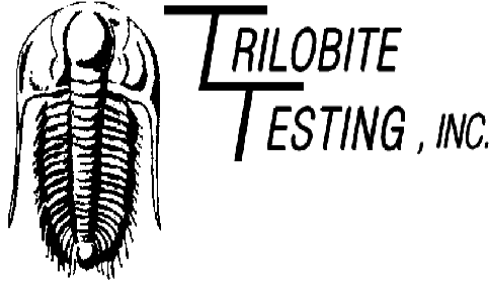
Summary and Recommendations

The location for the Kuehn #8-1 was found via 3-D seismic survey. The new well ran as expected via the survey. One drill stem tests 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 Kuehn #8-1 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.





DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

Kuehn #8-1

1-19s-222w Ness,KS

Start Date: 2012.10.18 @ 22:38:50

End Date: 2012.10.19 @ 06:39:26

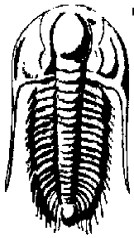
Job Ticket #: 48709 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.06 @ 09:41:02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

1-19s-222w Ness, KS

Kuehn #8-1

Job Ticket: 48709

DST#: 1

Test Start: 2012.10.18 @ 22:38:50

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:41

Time Test Ended: 06:39:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 4292.00 ft (KB) To 4302.00 ft (KB) (TVD)

Reference Elevations: 2190.00 ft (KB)

Total Depth: 44302.00 ft (KB) (TVD)

2185.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 196.97 psig @ 4294.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.18

End Date:

2012.10.19

Last Calib.:

2012.10.19

Start Time: 22:38:52

End Time:

06:39:26

Time On Btm:

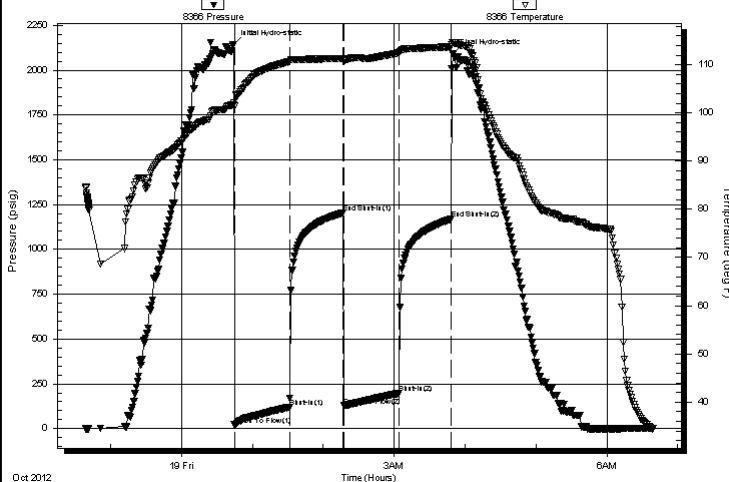
2012.10.19 @ 00:44:11

Time Off Btm:

2012.10.19 @ 03:49:26

TEST COMMENT: IFP-Good Blow , BOB in 15 Min.
ISI-Blow back Built to 2-3/4"
FFP-Good Blow , BOB in 20Min.
FSI-Blow back Built to 2"

Pressure vs. Time



PRESSURE SUMMARY

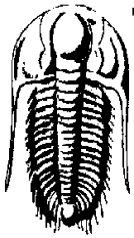
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.24	102.07	Initial Hydro-static
1	20.65	101.41	Open To Flow (1)
48	119.97	110.70	Shut-In(1)
93	1203.61	111.30	End Shut-In(1)
93	126.48	110.83	Open To Flow (2)
140	196.97	112.47	Shut-In(2)
184	1168.74	113.73	End Shut-In(2)
186	2094.12	114.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCWM-15%O-10%W-75%M	0.15
460.00	Gassy Oil-30%G-70%O	5.61
0.00	410' Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

1-19s-222w Ness, KS

Kuehn #8-1

Job Ticket: 48709

DST#: 1

Test Start: 2012.10.18 @ 22:38:50

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:44:41

Time Test Ended: 06:39:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 4292.00 ft (KB) To 4302.00 ft (KB) (TVD)

Reference Elevations: 2190.00 ft (KB)

Total Depth: 44302.00 ft (KB) (TVD)

2185.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: psig @ 4294.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.18

End Date:

2012.10.19

Last Calib.:

2012.10.19

Start Time: 22:38:28

End Time:

06:39:41

Time On Btm:

Time Off Btm:

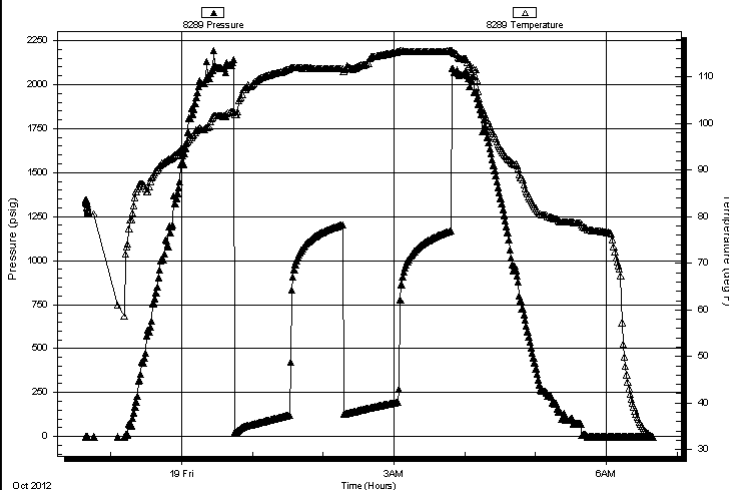
TEST COMMENT: IFP-Good Blow , BOB in 15 Min.

ISI-Blow back Built to 2-3/4"

FFP-Good Blow , BOB in 20Min.

FSI-Blow back Built to 2"

Pressure vs. Time



PRESSURE SUMMARY

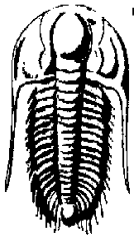
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCWM-15%O-10%W-75%M	0.15
460.00	Gassy Oil-30%G-70%O	5.61
0.00	410' Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

1-19s-222w Ness, KS

PO Box 399
Garden City, KS 67846

Kuehn #8-1

Job Ticket: 48709

DST#: 1

ATTN: Jason Alm

Test Start: 2012.10.18 @ 22:38:50

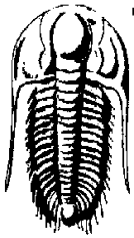
Tool Information

Drill Pipe:	Length:	4155.00 ft	Diameter:	3.80 inches	Volume:	58.28 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	62000.00 lb
					Total Volume:	58.88 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	58000.00 lb
Depth to Top Packer:		4292.00 ft					Final	59000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		10.00 ft						
Tool Length:		38.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4265.00	
Shut In Tool	5.00			4270.00	
Hydraulic tool	5.00			4275.00	
Jars	5.00			4280.00	
Safety Joint	2.00			4282.00	
Packer	5.00			4287.00	28.00 Bottom Of Top Packer
Packer	5.00			4292.00	
Stubb	1.00			4293.00	
Perforations	1.00			4294.00	
Recorder	0.00	8366	Inside	4294.00	
Recorder	0.00	8289	Outside	4294.00	
Perforations	5.00			4299.00	
Bullnose	3.00			4302.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

1-19s-222w Ness, KS

PO Box 399
Garden City, KS 67846

Kuehn #8-1

Job Ticket: 48709

DST#: 1

ATTN: Jason Alm

Test Start: 2012.10.18 @ 22:38:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 6200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCWM-15%O-10%W-75%M	0.148
460.00	Gassy Oil-30%G-70%O	5.605
0.00	410' Gas In Pipe	0.000

Total Length: 490.00 ft

Total Volume: 5.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

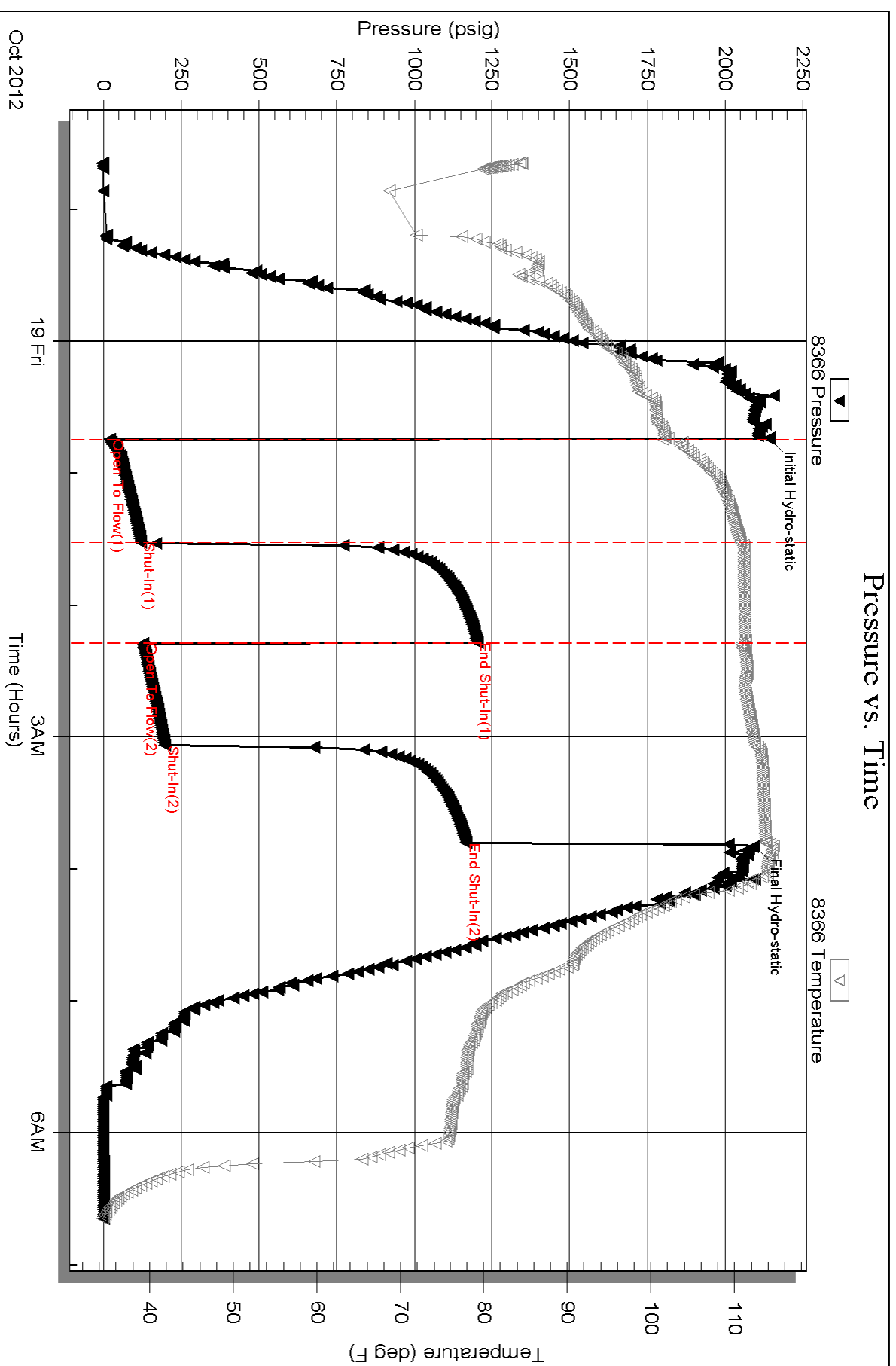
Serial #: 8366

Inside

American Warrior, Inc.

Kuehn #8-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 48709

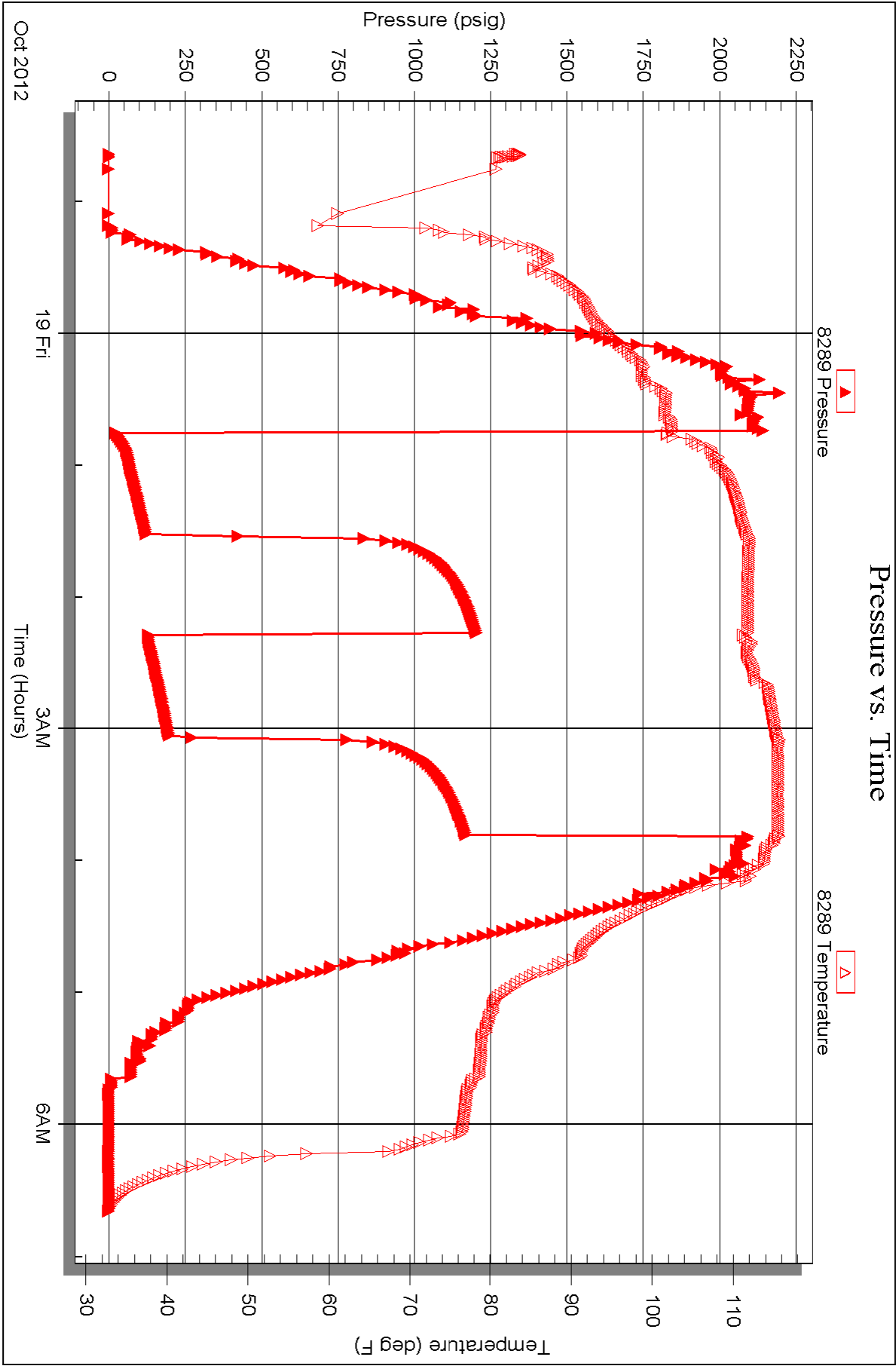
Printed: 2012.11.06 @ 09:41:07

Serial #: 8289

Outside American Warrior, Inc.

Kuehn #8-1

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48709

Well Name & No. Kuehn #8-1 Test No. 1 Date 10-18-12
 Company American Warrior, Inc. Elevation 2190 KB 2185 GL
 Address PO Box 399, Garden City, Ks. 67846
 Co. Rep / Geo. Jason Alm Rig Petromack #1
 Location: Sec. 1 Twp. 19s Rge. 22w Co. Ness State Ks

Interval Tested 4292-4302 Zone Tested Mississippi
 Anchor Length 10' Drill Pipe Run 4155 Mud Wt. 9.4
 Top Packer Depth 4287 Drill Collars Run 123 Vis 46
 Bottom Packer Depth 4292 Wt. Pipe Run 0 WL 8.8
 Total Depth 4302 Chlorides 6200 ppm System LCM 0
 Blow Description IFP - Good Blow, BOB in 15 min
ISI - Blowback Built to 2 3/4"
FFP - Good Blow, BOB in 20 min
FSI - Blowback Built to 2"

Rec <u>460</u>	Feet of <u>Garry Oil</u>	<u>30</u> %gas	<u>70</u> %oil	%water	%mud
Rec <u>30</u>	Feet of <u>OCWPM</u>	%gas	<u>15</u> %oil	<u>10</u> %water	<u>75</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>410' GIP</u>	%gas	%oil	%water	%mud

Rec Total 490 BHT 114 Gravity 40 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2141 ☒ Test 1250 T-On Location 2154
 (B) First Initial Flow 21 ☒ Jars 250 T-Started 22:36
 (C) First Final Flow 120 ☒ Safety Joint 75 T-Open 12:45
 (D) Initial Shut-In 1204 ☐ Circ Sub T-Pulled 3:45
 (E) Second Initial Flow 126 ☐ Hourly Standby T-Out 6:37
 (F) Second Final Flow 197 ☒ Mileage 108 + 167.40 Comments
 (G) Final Shut-In 1169 ☐ Sampler
 (H) Final Hydrostatic 2094 ☐ Straddle ☐ Ruined Shale Packer

☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
 Initial Open 45 Sub Total 0
 Initial Shut-In 45 Total 1742.40
 Final Flow 45 MP/DST Disc't
 Final Shut-In 45

Sub Total 1742.40
 Approved By _____ Our Representative Jason Alm *Thank you*

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