



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1222142
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1222142

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

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Eulert 21-35
Doc ID	1222142

Tops

Name	Top	Datum
Anhy	902	+947
B/Anhy	938'	+911
Topeka	2688'	-839
Heebner	2939'	-1090
Toronto	2959'	-1110
Lansing	2993'	-1144
B/KC	3269'	-1420
Arbuckle	3309'	-1460

ALLIED OIL & GAS SERVICES, LLC 055453

Federal Tax I.D.# 20-5975804

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

SERVICE POINT
Russell

DATE <u>7.20.14</u>	SEC <u>35</u>	TWP. <u>11</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30</u>	JOB FINISH <u>9:30</u>
LEASE <u>Euler</u>	WELL # <u>21-35</u>	LOCATION <u>Russell Kc</u>			COUNTY <u>Russell</u>	STATE <u>Kc</u>	
OLD OR NEW (Circle one)		<u>n to Mallard w 5 1/2 n 3 n w into</u>					

CONTRACTOR Duke #8

TYPE OF JOB Long Surface

HOLE SIZE T.D.

CASING SIZE DEPTH 902'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15'

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 56.50 ^{kg} H2O

OWNER

CEMENT AMOUNT ORDERED 400sk

+ 27 gal + 31 cc

COMMON <u>400sk</u>	@ 17.9	\$ 7,160.00
POZMIX	@	
GEL <u>7521b</u>	@ 1.05	\$ 789.60
CHLORIDE <u>1,1281b</u>	@ 1.10	\$ 1,240.80
ASC	@	
<u>Material</u>	@	9190.40
<u>Alum</u>	@	3573.31
HANDLING <u>400sk 7/3</u>	@ 2.48	\$ 992.00
MILEAGE <u>282 7/10</u>	@ 2.75	\$ 775.50

EQUIPMENT

PUMP TRUCK CEMENTER Gary

417 HELPER Danny S

BULK TRUCK

481 DRIVER Tracy J.

BULK TRUCK

DRIVER

REMARKS:

TOTAL \$10,957.80

SERVICE

DEPTH OF JOB 902'

PUMP TRUCK CHARGE \$ 2,058.50

EXTRA FOOTAGE @

MILEAGE Heavy 30 @ 7.7 \$ 231.00

MANIFOLD light 15 @ 4.4 \$ 66.00

CHARGE TO: American Warrior

STREET

CITY STATE ZIP

Alum. 1154.44 TOTAL \$12,355.50

PLUG & FLOAT EQUIPMENT

3X 8 5/8 Centralizer @ 75.0 \$ 225.00

1X 8 5/8 Top Rubber Plug @ — \$ 131.00

Alum 99.68 TOTAL \$ 356.00

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 Steve H. Stephens

SIGNATURE Steve H. Stephens

SALES TAX (if Any)

TOTAL CHARGES \$ 13,669.40

DISCOUNT \$ 3,827.43 (28%) IF PAID IN 30 DAYS

Net 9841.97



CHARGE TO:
American Warrior, Inc.

ADDRESS

CITY, STATE, ZIP CODE

TICKET 25521

PAGE 1 OF 2

1. SERVICE LOCATIONS <i>Hays, Ks</i>	WELL/PROJECT NO. <i>21-35</i>	LEASE <i>Eulert</i>	COUNTY/PARISH <i>Russell</i>	STATE <i>Ks</i>	CITY	DATE <i>7-26-14</i>	OWNER
2. <i>Ness City, Ks</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Duke Dole</i>	RIG NAME/NO. <i># 8</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>S/Paradise, Ks</i>	ORDER NO.	
3.	WELL TYPE <i>Dil</i>	WELL CATEGORY <i>W.C.</i>	JOB PURPOSE <i>Cement Longstring</i>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113		75	mi		600	27000
578		1			Pump Charge - CMT - Longstring		1	ea	3407	PL	150000
221		1			Liquid KCL		2	gal		2500	5000
281		1			Mud Flush		500	gal		125	62500
290		1			D-Air		4	gal		4200	16800
402		1			Centralizers		6	ea	5 1/2 in	7000	42000
403		1			Cement Baskets		1	ea	5 1/2 in	30000	30000
406		1			Latch Down Plug of Baffle		1	ea	5 1/2 in	27500	27500
407		1			Insert Float Shoe w/ Auto Fill		1	ea	5 1/2 in	37500	37500

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *[Signature]*

DATE SIGNED *7-26-14* TIME SIGNED *1300*

A.M.
 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	P.1 PAGE TOTAL	3983 00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P.2	5212 14
WE UNDERSTOOD AND MET YOUR NEEDS?				Subtotal	9195 14
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Russell TAX 18.15%	516 91
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	9712 05
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES - The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 25521

CUSTOMER American Warrior, Inc
WELL #21-35 Eulert
DATE 7-26-14
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF									
325		2				Standard CMT - EA-2	175	SKS	16450	lbs	14.50	2537.50	
276		2				Flocele 1/4" SK	44	lbs			2.50	110.00	
283		2				Salt	875	lbs			20	175.00	
284		2				Calseal	823	lbs	9	SKS	35.00	315.00	
292		2				Halad-322 3/4"	124	lbs			8.00	992.00	
581		2				SERVICE CHARGE Cement							
583		2				MILEAGE CHARGE	TOTAL WEIGHT 18316	LOADED MILES 48	80	TON MILES	732.64	1.00	732.64

CONTINUATION TOTAL 5212.14

JOB LOG

SWIFT Services, Inc.

DATE 7-26-14 PAGE NO. 1

CUSTOMER **AWI** WELL NO. **21-35** LEASE **Eulert** JOB TYPE **Comcast Longstring** TICKET NO. **25521**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							RD-3410' DN loc. Rig L.D.D.C. Float Equip KB-3407'
	1415							Shot 5 1/2" 15.5 #/ft casing - GL-3399 Insert float shoe w/ fill-up L.D. Baffle - 5J-23' = GL-3376 = 81 BBI Cent - 1-3-5-7-9-11 Basket - #4 pin-end Drop fill-up ball 5 Jts out Fin casing - Tag Start circ / Disco Fin circ
	1600							Plug RH 30 SKS EA-2 cent
	1625	5	12	32		200		Pump 500 gal Mud flush
	1630	6	20	Flushes		250		Precap 20 BBI KCL flush
		4 1/2				200 / 100		Start 145 SKS EA-2 cent vac Fin cent. Wash out pump & lines Drop L.D. Plug
		9				300		Start Displ
		9 / 8	100			400		Caught L.R.F.
		7 / 6	70 / 75			650 / 800		Slow rate
			80			1200		Last circ press
	1700		81			1600		Plug Down - Hold - Release & Hold Wash up & Reel up Ties
								Job Complete
								Thanks Dan, Jon & Craig



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS. 67846

ATTN: Jim Musgrove

Eulert # 21-35

35-11s-15w Russell,KS

Start Date: 2014.07.24 @ 20:35:00

End Date: 2014.07.25 @ 03:25:00

Job Ticket #: 60485 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.29 @ 10:19:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior
PO Box 399
Garden City KS. 67846
ATTN: Jim Musgrove

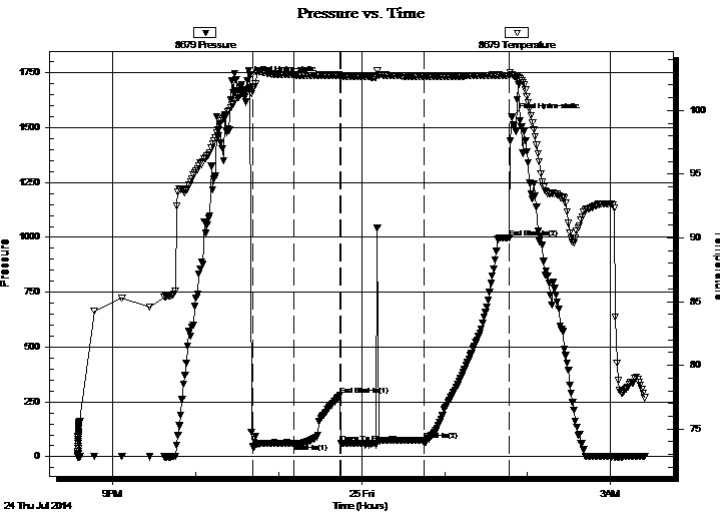
35-11s-15w Russell,KS
Eulert # 21-35
Job Ticket: 60485 **DST#: 1**
Test Start: 2014.07.24 @ 20:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:41:30
Time Test Ended: 03:25:00
Interval: **3241.00 ft (KB) To 3309.00 ft (KB) (TVD)**
Total Depth: 3309.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 58
Reference Elevations: 1849.00 ft (KB)
1841.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8679 Outside
Press@RunDepth: 75.44 psig @ 3244.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.24 End Date: 2014.07.25 Last Calib.: 2014.07.24
Start Time: 20:35:01 End Time: 03:25:00 Time On Btm: 2014.07.24 @ 22:37:30
Time Off Btm: 2014.07.25 @ 01:48:30

TEST COMMENT: I.F - 30 - Weak surface blow built to 9"
I.S.I. - 30 - No blow back
F.F. - 60 - No blow - flushed tool - weak surface blow built to 3 1/2" died to 1/2"
F.S.I. - 60 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.46	101.64	Initial Hydro-static
4	46.73	101.75	Open To Flow (1)
34	61.87	102.80	Shut-In(1)
67	279.22	102.77	End Shut-In(1)
68	59.32	102.67	Open To Flow (2)
128	75.44	102.67	Shut-In(2)
190	996.69	102.75	End Shut-In(2)
191	1547.98	102.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	S,O,S,M, 100%M FEW OIL SPECS	1.40

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City KS. 67846
 ATTN: Jim Musgrove

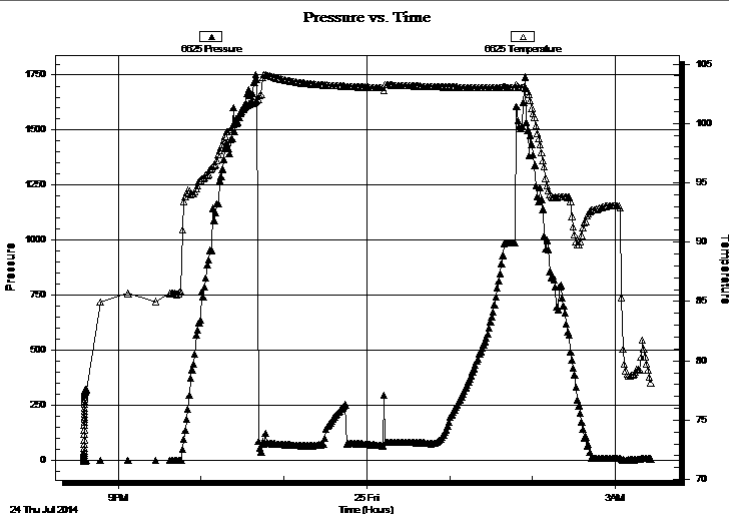
35-11s-15w Russell, KS
Eulert # 21-35
 Job Ticket: 60485 **DST#: 1**
 Test Start: 2014.07.24 @ 20:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:41:30
 Time Test Ended: 03:25:00
 Interval: **3241.00 ft (KB) To 3309.00 ft (KB) (TVD)**
 Total Depth: 3309.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 58
 Reference Elevations: 1849.00 ft (KB)
 1841.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: psig @ 3244.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.24 End Date: 2014.07.25 Last Calib.: 2014.07.25
 Start Time: 20:35:01 End Time: 03:26:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: I.F - 30 - Weak surface blow built to 9"
 I.S.I. - 30 - No blow back
 F.F. - 60 - No blow - flushed tool - weak surface blow built to 3 1/2" died to 1/2"
 F.S.I. - 60 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	S,O,S,M, 100% MFEW OIL SPECS	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

35-11s-15w Russell,KS

PO Box 399
Garden City KS. 67846

Eulert # 21-35

Job Ticket: 60485

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.07.24 @ 20:35:00

Tool Information

Drill Pipe:	Length: 3232.00 ft	Diameter: 3.80 inches	Volume: 45.34 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: 45.34 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3241.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 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			3222.00	
Shut In Tool	5.00			3227.00	
Hydraulic tool	5.00			3232.00	
Packer	4.00			3236.00	20.00 Bottom Of Top Packer
Packer	5.00			3241.00	
Stubb	1.00			3242.00	
Perforations	1.00			3243.00	
Change Over Sub	1.00			3244.00	
Recorder	0.00	6625	Inside	3244.00	
Recorder	0.00	8679	Outside	3244.00	
Drill Pipe	61.00			3305.00	
Change Over Sub	1.00			3306.00	
Bullnose	3.00			3309.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

35-11s-15w Russell,KS

PO Box 399
Garden City KS. 67846

Eulert # 21-35

Job Ticket: 60485

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.07.24 @ 20:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	S,O,S,M, 100%M FEW OIL SPECS	1.403

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

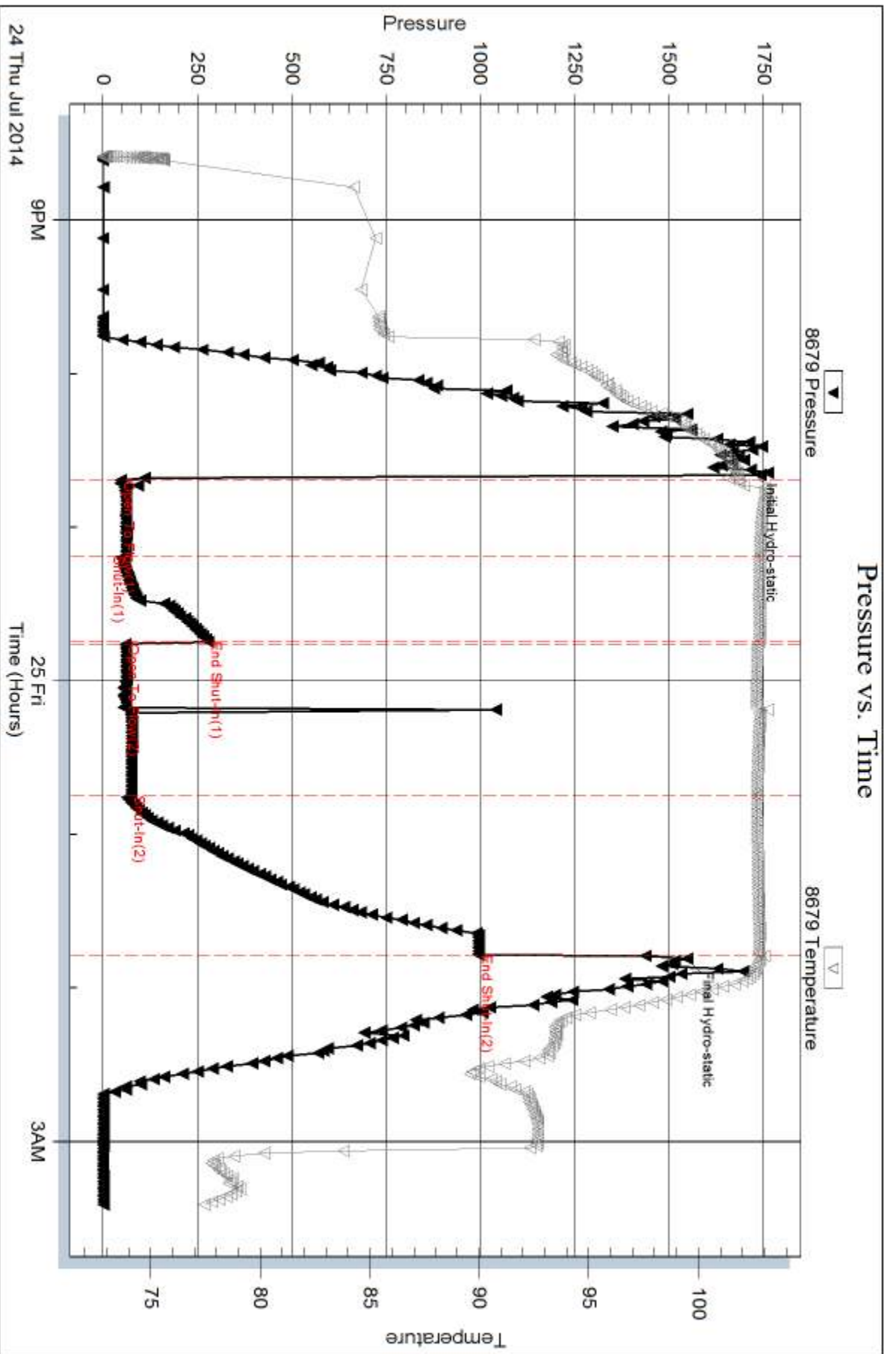
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



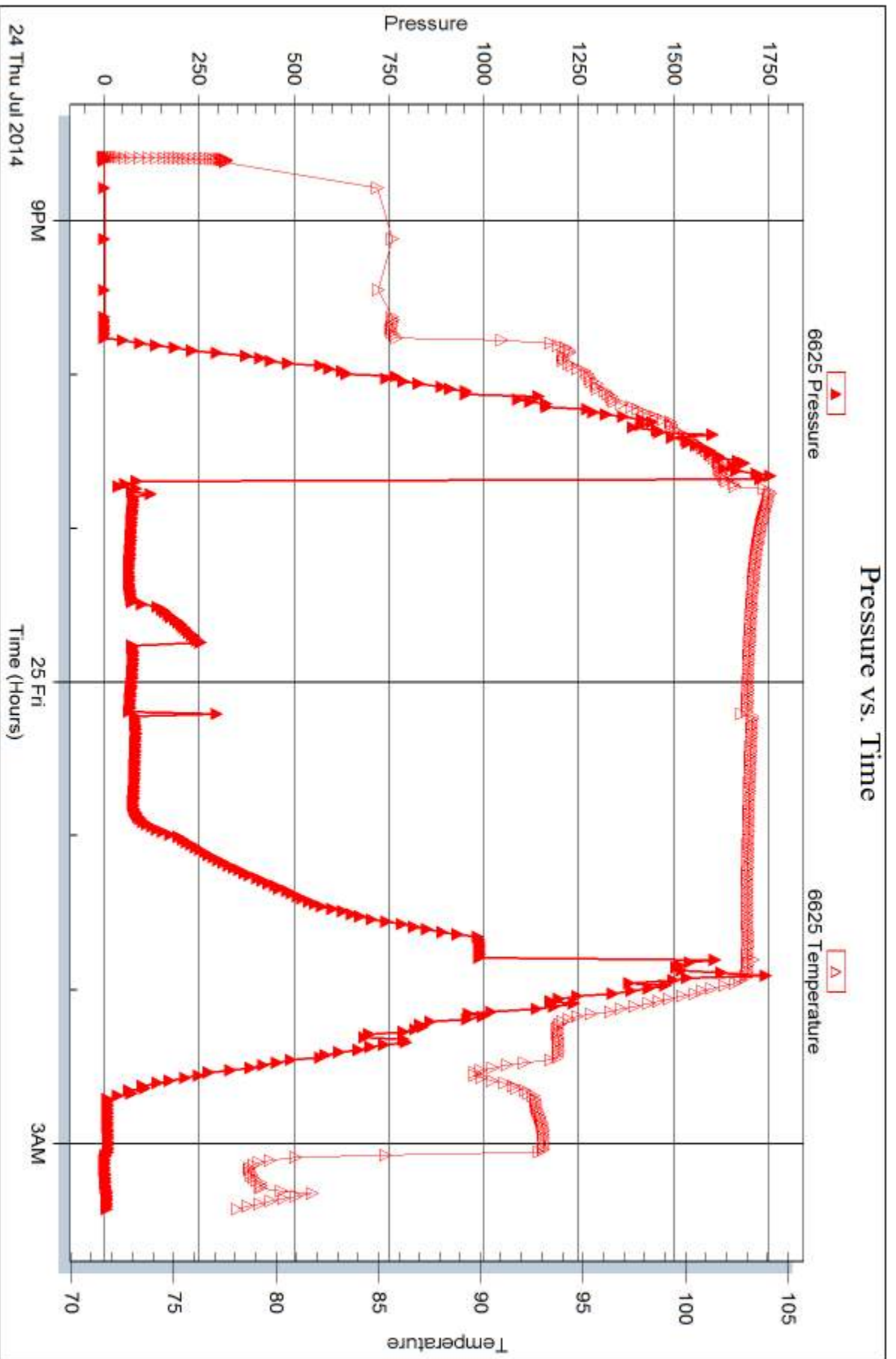
Serial #: 6625

Inside

American Warrior

Event # 21-35

DST Test Number: 1



Trickle Testing, Inc

Ref. No: 60485

Printed: 2014.07.29 @ 10:19:46



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS. 67846

ATTN: Jim Musgrove

Eulert # 21-35

35-11s-15w Russell,KS

Start Date: 2014.07.25 @ 11:00:00

End Date: 2014.07.25 @ 18:20:00

Job Ticket #: 60486 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.29 @ 10:18:30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior
 PO Box 399
 Garden City KS. 67846
 ATTN: Jim Musgrove

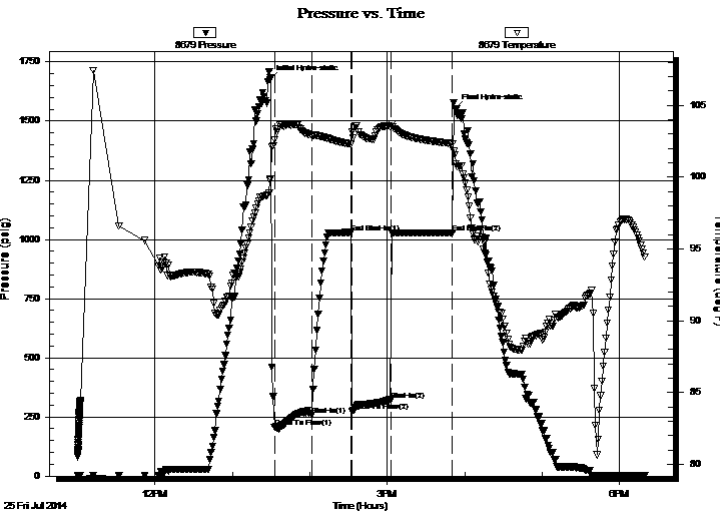
35-11s-15w Russell,KS
Eulert # 21-35
 Job Ticket: 60486 **DST#: 2**
 Test Start: 2014.07.25 @ 11:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:32:30
 Time Test Ended: 18:20:00
 Interval: **3242.00 ft (KB) To 3317.00 ft (KB) (TVD)**
 Total Depth: 3317.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 58
 Reference Elevations: 1849.00 ft (KB)
 1841.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8679 Outside
 Press@RunDepth: 322.98 psig @ 3245.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.25 End Date: 2014.07.25 Last Calib.: 2014.07.25
 Start Time: 11:00:01 End Time: 18:20:00 Time On Btm: 2014.07.25 @ 13:29:00
 Time Off Btm: 2014.07.25 @ 15:52:30

TEST COMMENT: I.F. - 30 - BOB in 4 min
 I.S.I. - 30 - No blow back
 F.F. - 30 - BOB in 5 1/2 min
 F.S.I. - 45 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.00	99.80	Initial Hydro-static
4	207.48	102.61	Open To Flow (1)
33	257.91	102.90	Shut-In(1)
63	1029.80	102.28	End Shut-In(1)
64	272.75	103.17	Open To Flow (2)
94	322.98	103.53	Shut-In(2)
142	1028.97	102.33	End Shut-In(2)
144	1553.28	101.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	H,M,C,W, 30%M 70%W	4.42
282.00	S,O,S,M, 100%M (FEW OIL SPECS)	3.96
0.00	SHOW OF FREE OIL IN TEST TOOL	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior
PO Box 399
Garden City KS. 67846
ATTN: Jim Musgrove

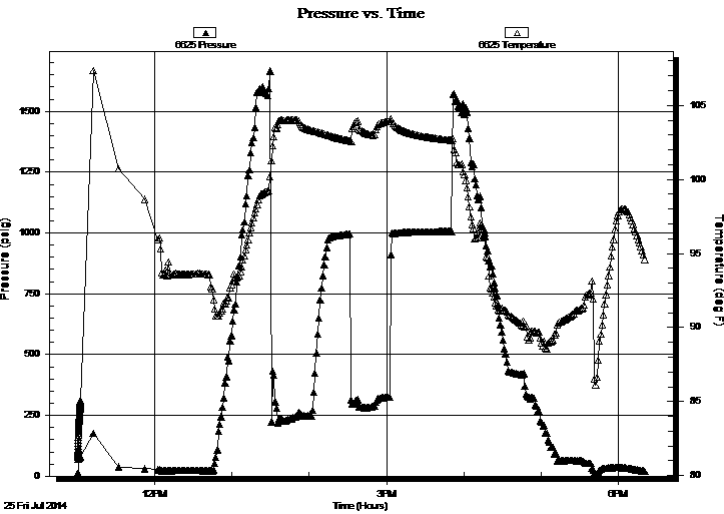
35-11s-15w Russell, KS
Eulert # 21-35
Job Ticket: 60486 **DST#: 2**
Test Start: 2014.07.25 @ 11:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:32:30 Tester: Bob Hamel
Time Test Ended: 18:20:00 Unit No: 58
Interval: 3242.00 ft (KB) To 3317.00 ft (KB) (TVD) Reference Elevations: 1849.00 ft (KB)
Total Depth: 3317.00 ft (KB) (TVD) 1841.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
Press@RunDepth: psig @ 3245.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.25 End Date: 2014.07.25 Last Calib.: 2014.07.25
Start Time: 11:00:01 End Time: 18:21:00 Time On Btm:
Time Off Btm:

TEST COMMENT: I.F. - 30 - BOB in 4 min
I.S.I. - 30 - No blow back
F.F. - 30 - BOB in 5 1/2 min
F.S.I. - 45 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
315.00	H,M,C,W, 30%M 70%W	4.42
282.00	S,O,S,M, 100%M (FEW OIL SPECS)	3.96
0.00	SHOW OF FREE OIL IN TEST TOOL	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

35-11s-15w Russell,KS

PO Box 399
Garden City KS. 67846

Eulert # 21-35

Job Ticket: 60486

DST#: 2

ATTN: Jim Musgrove

Test Start: 2014.07.25 @ 11:00:00

Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 36000.00 lb
			<u>Total Volume: 45.39 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3242.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 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			3223.00	
Shut In Tool	5.00			3228.00	
Hydraulic tool	5.00			3233.00	
Packer	4.00			3237.00	20.00 Bottom Of Top Packer
Packer	5.00			3242.00	
Stubb	1.00			3243.00	
Perforations	1.00			3244.00	
Change Over Sub	1.00			3245.00	
Recorder	0.00	6625	Inside	3245.00	
Recorder	0.00	8679	Outside	3245.00	
Drill Pipe	63.00			3308.00	
Change Over Sub	1.00			3309.00	
Perforations	5.00			3314.00	
Bullnose	3.00			3317.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

35-11s-15w Russell,KS

PO Box 399
Garden City KS. 67846

Eulert # 21-35

Job Ticket: 60486

DST#: 2

ATTN: Jim Musgrove

Test Start: 2014.07.25 @ 11:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	H,M,C,W, 30%M 70%W	4.419
282.00	S,O,S,M, 100%M (FEW OIL SPECS)	3.956
0.00	SHOW OF FREE OIL IN TEST TOOL	0.000

Total Length: 597.00 ft Total Volume: 8.375 bbl

Num Fluid Samples: 0

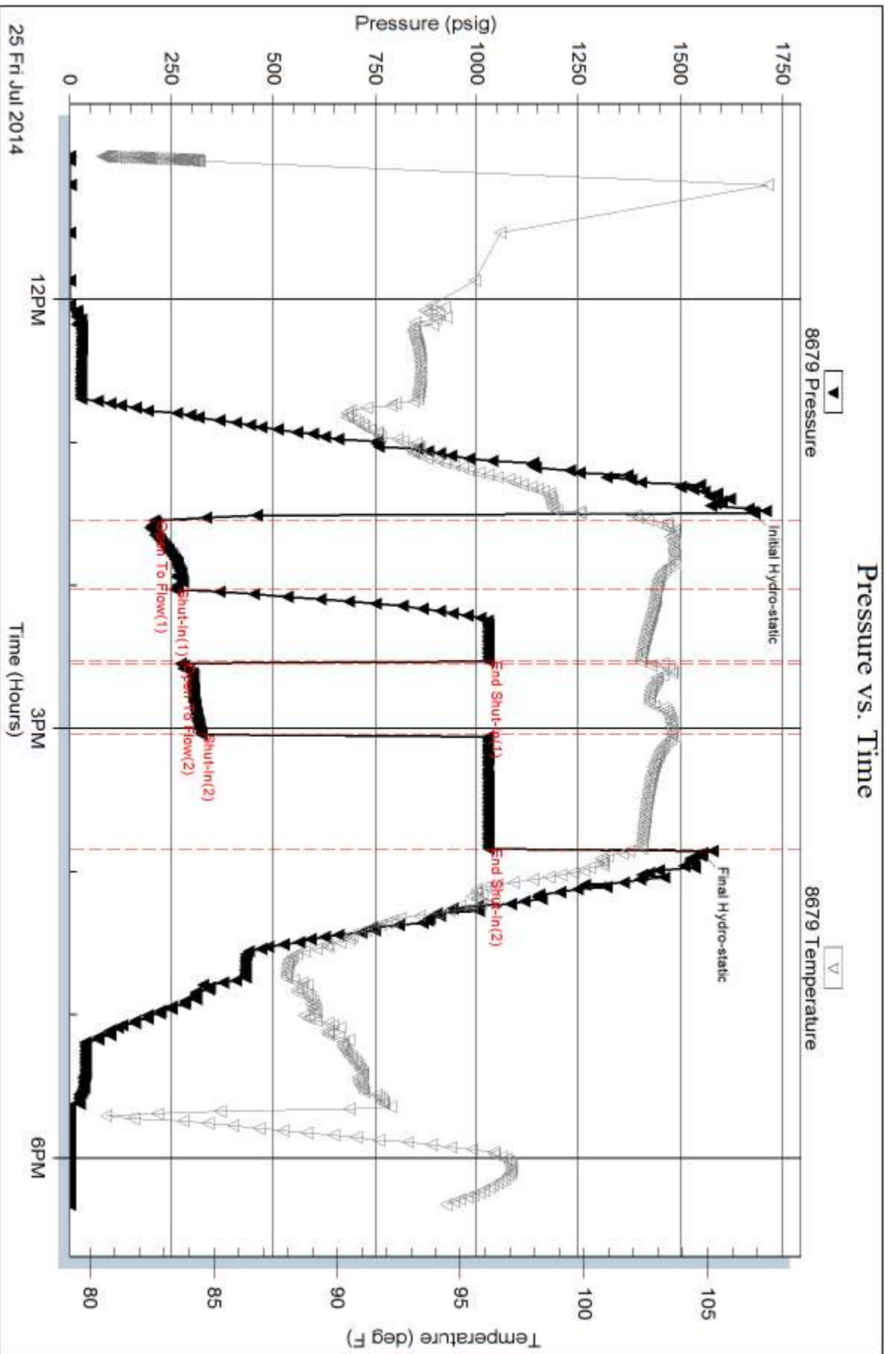
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = 0.45 OHMS @ 103 DEG.



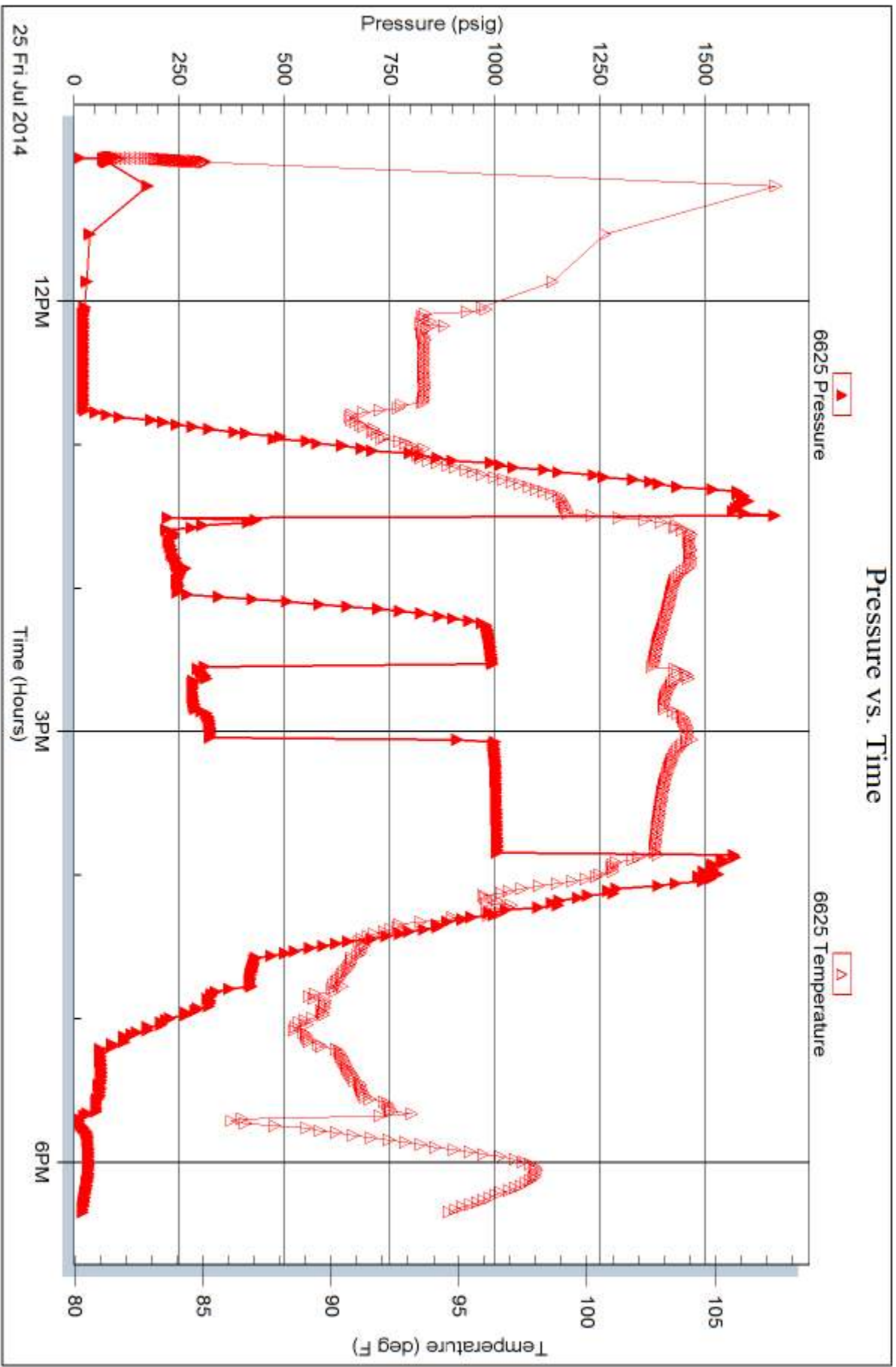
Serial #: 6625

Inside

American Warrior

Event # 21-35

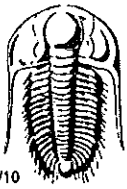
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60486

Printed: 2014.07.29 @ 10:18:32



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60485

Well Name & No. Euler #21-35 Test No. 1 Date 7-24-14
 Company A.W.I Elevation 1849 KB 1841 GL
 Address P.O. Box 399 Garden City KS. 67846
 Co. Rep / Geo. Adam Falk Rig Duke 8
 Location: Sec. 35 Twp. 11-S Rge. 15-W Co. Russell State KS.

Interval Tested 3241-3309 Zone Tested Arch.
 Anchor Length 68' Drill Pipe Run 3232 Mud Wt. 9.4
 Top Packer Depth 3236 Drill Collars Run --- Vis 55
 Bottom Packer Depth 3241 Wt. Pipe Run --- WL 7.8
 Total Depth 3309 Chlorides 5,600 ppm System LCM Trace

Blow Description I.F.-30-1/2" I.N.H. Blow Built to (9" in 30 min.)
I.S.I.-30-No B.B.
F.F.-60-No Blow flushed tool @ 23 min. W.S.B. Built to (3 1/2" then dropped)
F.S.I.-60-No B.B.
to 1/2" in 60 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>100'</u>	Feet of <u>S.O.S.M</u>	<u>Few oil specs</u>			<u>100% mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100' BHT 102.7 Gravity --- API RW --- @ --- °F Chlorides --- ppm

- (A) Initial Hydrostatic 1,716
- (B) First Initial Flow 47
- (C) First Final Flow 62
- (D) Initial Shut-In 279
- (E) Second Initial Flow 59
- (F) Second Final Flow 75
- (G) Final Shut-In 997
- (H) Final Hydrostatic 1,548

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60

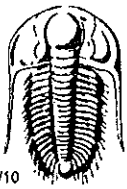
- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 66/R.T. 102.30
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1252.30

T-On Location 20:15:00
 T-Started 20:35:00
 T-Open 22:58:00
 T-Pulled 01:58:00
 T-Out 03:25:00

Comments (Thank-you)

- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1252.30
- MP/DST Disc't

Approved By _____ Our Representative [Signature]
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60486

Well Name & No. Kulert #21-35 Test No. 2 Date 7-25-14
 Company A.W.I Elevation 1849 KB 1846 GL
 Address P.O. Box 399 Garden City KS. 67846
 Co. Rep / Geo. Adam folk Rig Duke #8
 Location: Sec. 35 Twp. 11 S. Rge. 15 W. Co. Russell State KS.

Interval Tested 3242-3217 Zone Tested Arb.
 Anchor Length 75' Drill Pipe Run 3236 Mud Wt. 9.3
 Top Packer Depth 3212 Drill Collars Run _____ Vis 48
 Bottom Packer Depth 3217 Wt. Pipe Run _____ WL 8.0
 Total Depth 3242 Chlorides 5,500 ppm System LCM HgCe

Blow Description I.F.-30- 1/2 INT. Blow Built to (B.O.B. in 4 min.)
I.S.I-30 - No B.B.
E.F.-30 - 1/2 INT. Blow Built to (B.O.B. in 5 1/2 min.)
F.S.I-45 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
300					
<u>282</u>	<u>S.O.S.M. (Few oil specs)</u>				<u>100</u> %mud
<u>315</u>	<u>H.M.C.W</u>			<u>70</u> %water	<u>30</u> %mud
Rec Total	<u>592</u>	BHT <u>101.6</u>	Gravity _____	API RW <u>0.45 @ 103</u> °F	Chlorides <u>9,000</u> ppm

(A) Initial Hydrostatic 1,677 Test 1150 T-On Location (Stayed)
 (B) First Initial Flow 207 Jars _____ T-Started 11:00:00
 (C) First Final Flow 258 Safety Joint _____ T-Open 13:47:00
 (D) Initial Shut-In 1,030 Circ Sub _____ T-Pulled 16:02:00
 (E) Second Initial Flow 273 Hourly Standby _____ T-Out 18:20:00
 (F) Second Final Flow 323 Mileage _____
 (G) Final Shut-In 1,029 Sampler _____
 (H) Final Hydrostatic 1,553 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1150
 Final Flow 30 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1150

Approved By _____ Our Representative [Signature]
 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.

JAMES C. MUSGROVE

Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.
Eulert #21-35
SE-SW-NW-SE (1330' FSL & 2240' FEL)
Section 35-11s-15w
Russell County, Kansas

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5 1/2" Production Casing Set

Contractor: Duke Drilling Co. (rig #8)

Commenced: July 18, 2014

Completed: July 25, 2014

Elevation: 1849' K.B., 1847' D.F., 1841' G.L.

Casing program: Surface; 8 5/8" @ 902'
Production, 5 1/2" @ 3409'

Sample: Samples saved and examined 2500' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2500 ft. to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log and Micro-Resistivity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	902	+947
Base Anhydrite	938	+911
Topeka	2688	-839
Heebner	2939	-1090
Toronto	2959	-1110
Lansing	2993	-1144
Base Kansas City	3269	-1420
Erosional Arbuckle	3303	-1454
	3300	-1460

American Warrior Inc.
Eulert #21-35
SE-SW-NW-SE (1330' FSL & 2240' FEL)
Section 35-11s-15w
Russell County, Kansas

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SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECITON

- 2722-2730' Limestone, gray, white, finely crystalline, fossiliferous, chalky, trace poor stain, no free oil and no odor in fresh samples.
- 2860-2870' Limestone, tan, brown, finely crystalline, few granular, fossiliferous, chalky, poor brown stain, no free oil and no odor in fresh samples.
- 2900-2930' Limestone, tan, gray, medium crystalline; fossiliferous in part, few sub-oomoldic, fair porosity, dark brown and brown stain, show of free oil and faint odor in fresh samples.

TORONTO SECTION

- 2960-2970' Limestone, gray, white, finely crystalline, few oolitic/fossiliferous, chalky, poor visible porosity, brown stain, trace of free oil and questionable odor in fresh samples.

LANSING SECTION

- 2993-3000' Limestone, white, gray, tan, fossiliferous, chalky, poor visible porosity, brown stain, trace of free oil and questionable odor in fresh samples.
- 3018-3026' Limestone, tan, oolitic, sub-oomoldic; fair oomoldic porosity, brown and black stain, show of free oil and faint odor in fresh samples.
- 3032-3040' Limestone, tan, oolitic; few sub-oomoldic, fair porosity, dark brown stain; show of free oil and faint odor.
- 3046-3054' Limestone, as above, decreasing stain and show.
- 3060-3070' Limestone, tan, fossiliferous, chalky, poor visible porosity, brown spotty stain, no show of free oil and questionable odor.
- 3080-3085' Limestone, tan, oolitic, oomoldic, fair porosity, brown stain, trace of free oil and questionable odor.

American Warrior Inc.
Eulert #21-35
SE-SW-NW-SE (1330' FSL & 2240' FEL)
Section 35-11s-15w
Russell County, Kansas

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- 3210-3220' Limestone, shite/cream, finely crystalline, fossiliferous, few medium crystalline, questionable edge staining, no free oil and no odor.
- 3260-3268' Limestone, as above, no shows.

ARBUCKLE SECTION

- 3303-3309' Dolomite, tan, cream, finely crystalline, weathered; cherty; poor visible porosity, plus tan dolomitic chert, fractured; brown stain, trace free oil and odor (poor samples). (Erosional Arbuckle)

Drill Stem Test #1 **3241-3309**

Times: 30-30-60-60
Blow: Weak to good
Recovery: 100' mud; with oil specks
Pressures: ISIP 279 psi
FSIP 996 psi
IFP 46-62 psi
FFP 59-75 psi
HSH 1716-1548 psi

- 3309-3317' Dolomite, cream, white, finely crystalline, sucrosic, few medium and course crystalline, fair inter-crystalline to vuggy type porosity; brown stain and saturation, show of free oil and fair odor in fresh samples. (Solid Arbuckle).

Drill Stem Test #2 **3242-3317**

Times: 30-30-30-45
Blow: Strong
Recovery: 282' oil speckled mud
315' muddy water

American Warrior Inc.
Eulert #21-35
SE-SW-NW-SE (1330' FSL & 2240' FEL)
Section 35-11s-15w
Russell County, Kansas

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- | | |
|------------|---|
| 3350-3380' | Dolomite, as above, fair to good porosity, trace stain, weak show of free oil and questionable odor in fresh samples. |
| 3380-3390' | Dolomite, white, cream, fine and medium crystalline, good inter-crystalline/vuggy type porosity, no show. |
| 3390-3409' | Dolomite, as above, sandy in part, no shows. |

Rotary Total Depth: 3410
Log Total Depth: 3409

Recommendations:

5 ½ production casing was set and cemented on the American Warrior Inc., Eulert #21-35.

Respectfully Submitted,

James C. Musgrove and Adam Folk
Petroleum Geologist