



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1193673  
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: \_\_\_\_\_

1193673

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Grubb 1-5
Doc ID	1193673

All Electric Logs Run

Sonic
Micro
Dual IND.
Dual Comp. Porosity



# ALLIED OIL & GAS SERVICES, LLC 061873

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

great Bend

DATE <u>12-2-13</u>	SEC. <u>5</u>	TWP. <u>16S</u>	RANGE <u>10W</u>	CALLED OUT <u>6:00pm</u>	ON LOCATION <u>8:00pm</u>	JOB START <u>10pm</u>	JOB FINISH <u>10:30pm</u>
LEASE <u>grub</u>	WELL # <u>1-5</u>		LOCATION <u>Wilson Blk top N To</u>			COUNTY <u>clark</u>	STATE <u>TX</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			URD <u>1 3/4 E N data</u>				

CONTRACTOR Duke S  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/2 I.D. 376  
 CASING SIZE 8 5/8 294 DEPTH 376  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15 RT  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 420 22.99 BBI

OWNER American warrior  
 CEMENT  
 AMOUNT ORDERED 275 lbs class A  
3% CC 2% gel

COMMON	<u>275</u>	@	<u>17.90</u>	<u>4,922.50</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>23.40</u>	<u>117.00</u>
CHLORIDE	<u>775</u>	@	<u>.80</u>	<u>620.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>297.36</u>	@	<u>2.48</u>	<u>737.25</u>
MILEAGE	<u>13.57 X 30 X</u>		<u>2.60</u>	<u>1058.46</u>
TOTAL				<u>7,455.41</u>

**REMARKS:**

Run 376' ft 8 5/8 cas Break  
Circulation 2 1/2 hrs mud hook  
To head 5 BBI 420 ahead mix  
275 lbs class A 3% CC 2% gel  
that down Release plug  
displace 22.99 BBI cement did  
circulate

**SERVICE**

DEPTH OF JOB	<u>376</u>			
PUMP TRUCK CHARGE		@	<u>1512.25</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>Hum 30</u>	@	<u>7.70</u>	<u>231.00</u>
MANIFOLD		@		
	<u>Hum 30</u>	@	<u>4.40</u>	<u>132.00</u>
		@		
TOTAL				<u>1,875.25</u>

CHARGE TO: American warrior  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

Rubber Plug	@	<u>131.04</u>	<u>131.04</u>	
	@			
	@			
	@			
	@			
TOTAL				<u>131.04</u>

*Thank you!*

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 STEVE H. STEPHENS  
 SIGNATURE X Steve H. Stephens

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 9,461.70  
 DISCOUNT 1,872.34 IF PAID IN 30 DAYS  
7,569.36



CHARGE TO: AWJ  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 25251

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hays KS</u>	<u>1-5</u>	<u>Grubb</u>	<u>Ellsworth</u>	<u>KS</u>		<u>12-9-13</u>	
2. <u>Ness City KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke</u>	RIG NAME/NO. <u>8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>5 1/2 long string</u>	WELL PERMIT NO.	WELL LOCATION <u>sec 5 Twp 16s R 10w</u>		
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 # 112	70		m.		6.00	420.00
578		1			Pump Charge long string	1		ea		1500.00	1500.00
221		1			Liquid KCL	2		gal		25.00	50.00
281		1			Mud flush	500		gal		1.25	625.00
290		1			D-Air	2		gal		42.00	84.00
402		1			Centralizers	8		ea	5 1/2"	70.00	560.00
403		1			Cement Basket	1		ea		300.00	300.00
406		1			Latch Down Plug + Baffle	1		ea		275.00	275.00
407		1			Insert float shoe w/ Auto fill	1		ea		375.00	375.00

**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 12-9-13 TIME SIGNED 0545  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	PAGE TOTAL	4189.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				12	5114.00
WE UNDERSTOOD AND MET YOUR NEEDS?				sub total	9303.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Ellsworth TAX 7.15%	456.99
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	9759.99
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. 25251

CUSTOMER *AWS* WELL *Grubb 1-5* DATE *12-9-13* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M			
325		2				Standard cement EA-2	175	SKS			14.50	2537	50
276		2				Flarete	50	lbs			2.50	125	00
283		2				Salt	900	lbs			.20	180	00
284		2				Calseal	8	SKS			35.00	280	00
292		2				Haled 322	125	lbs			8.00	1000	00
581		2				SERVICE CHARGE					2.00	350	00
583		2				MILEAGE CHARGE					1.00	641	50
							TOTAL WEIGHT	18325		LOADED MILES	70		
							CUBIC FEET	175		TON MILES	641.50		

CONTINUATION TOTAL 5114.00



JOB-LOG

SWIFT Services, Inc.

DATE 12-9-13 PAGE NO.

CUSTOMER *AWB* WELL NO. *1-5* LEASE *Grubb* JOB TYPE *5 1/2 long string* TICKET NO. *25257*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>0545</i>							<i>on location</i>
								<i>TO 3400 SS 42</i>
								<i>TP 3385 Inset 3353</i>
								<i>5 1/2 x 14 #</i>
								<i>Centralizers 1,3,5,7,9,11,13,15</i>
								<i>Basket 4</i>
	<i>0700</i>							<i>Start Pipe</i>
	<i>0900</i>							<i>Drop Ball Break circulation</i>
	<i>1000</i>		<i>7</i>					<i>Plug Rit 50 sts</i>
		<i>5</i>	<i>12</i>		<input checked="" type="checkbox"/>		<i>300</i>	<i>Start Mud Flush</i>
		<i>5</i>	<i>20</i>		<input checked="" type="checkbox"/>		<i>300</i>	<i>Start KCL Flush</i>
		<i>5</i>	<i>35</i>		<input checked="" type="checkbox"/>		<i>200</i>	<i>Start Cement 145 sts EA-2</i>
	<i>1040</i>							<i>Drop Plug</i>
								<i>Wash out Pump + Lines</i>
	<i>1042</i>	<i>6.5</i>			<input checked="" type="checkbox"/>			<i>Start Displacement</i>
	<i>1100</i>		<i>81.8</i>		<input checked="" type="checkbox"/>		<i>600 / 1500</i>	<i>land Plug</i>
	<i>1102</i>							<i>Release Dry</i>
								<i>wash up Back up</i>
	<i>1145</i>							<i>Job Complete</i>
								<i>Thank You</i>
								<i>Josh, Brian, John</i>





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kurt Talbott

### **Grubb #1-5**

#### **5-16s-10w Ellsworth KS**

Start Date: 2013.12.07 @ 14:05:00

End Date: 2013.12.08 @ 07:59:30

Job Ticket #: 55364                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.11 @ 08:57:39



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Kurt Talbott

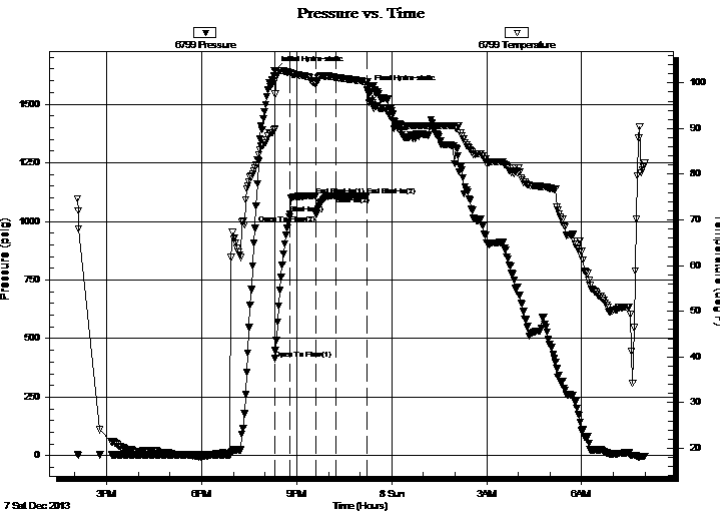
**5-16s-10w Ellsworth KS**  
**Grubb #1-5**  
Job Ticket: 55364      **DST#: 1**  
Test Start: 2013.12.07 @ 14:05:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:18:30  
Time Test Ended: 07:59:30  
Interval: **3236.00 ft (KB) To 3290.00 ft (KB) (TVD)**  
Total Depth: 3290.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1828.00 ft (KB)  
1820.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6799      Inside**  
Press@RunDepth: 1108.97 psig @ 3275.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.12.07      End Date: 2013.12.08      Last Calib.: 2013.12.08  
Start Time: 14:05:05      End Time: 07:59:29      Time On Btm: 2013.12.07 @ 20:18:00  
Time Off Btm: 2013.12.07 @ 23:13:45

TEST COMMENT: 30 - IF- B.O.B. in 1 minute  
45 - IS- 1/2" return  
FF- B.O.B. in 1 minute, died back to a 1/2" blow after 22 minutes  
FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.12	89.61	Initial Hydro-static
1	413.62	89.84	Open To Flow (1)
30	1031.00	102.21	Shut-In(1)
79	1108.11	99.90	End Shut-In(1)
79	1029.58	99.86	Open To Flow (2)
117	1108.97	101.17	Shut-In(2)
176	1110.99	100.23	End Shut-In(2)
176	1562.51	100.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	GHOCM, 20%G, 30%M, 50%O	2.61
2622.00	GO, 40%G, 60%O	36.78
372.00	GO, 20%G, 80%O	5.22

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Kurt Talbott

**5-16s-10w Ellsworth KS**  
**Grubb #1-5**  
Job Ticket: 55364      **DST#: 1**  
Test Start: 2013.12.07 @ 14:05:00

**Tool Information**

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	39000.00 lb
			<u>Total Volume: 45.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	25000.00 lb
Depth to Top Packer:	3236.00 ft			Final	26000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3216.00	
Shut In Tool	5.00			3221.00	
Hydraulic tool	5.00			3226.00	
Packer	5.00			3231.00	21.00      Bottom Of Top Packer
Packer	5.00			3236.00	
Stubb	1.00			3237.00	
Perforations	5.00			3242.00	
Change Over Sub	1.00			3243.00	
Drill Pipe	31.00			3274.00	
Change Over Sub	1.00			3275.00	
Recorder	0.00	6799	Inside	3275.00	
Recorder	0.00	8648	Outside	3275.00	
Perforations	12.00			3287.00	
Bullnose	3.00			3290.00	54.00      Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Kurt Talbott

**5-16s-10w Ellsworth KS**  
**Grubb #1-5**  
Job Ticket: 55364      **DST#: 1**  
Test Start: 2013.12.07 @ 14:05:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11.00 ppm			
Filter Cake: inches			

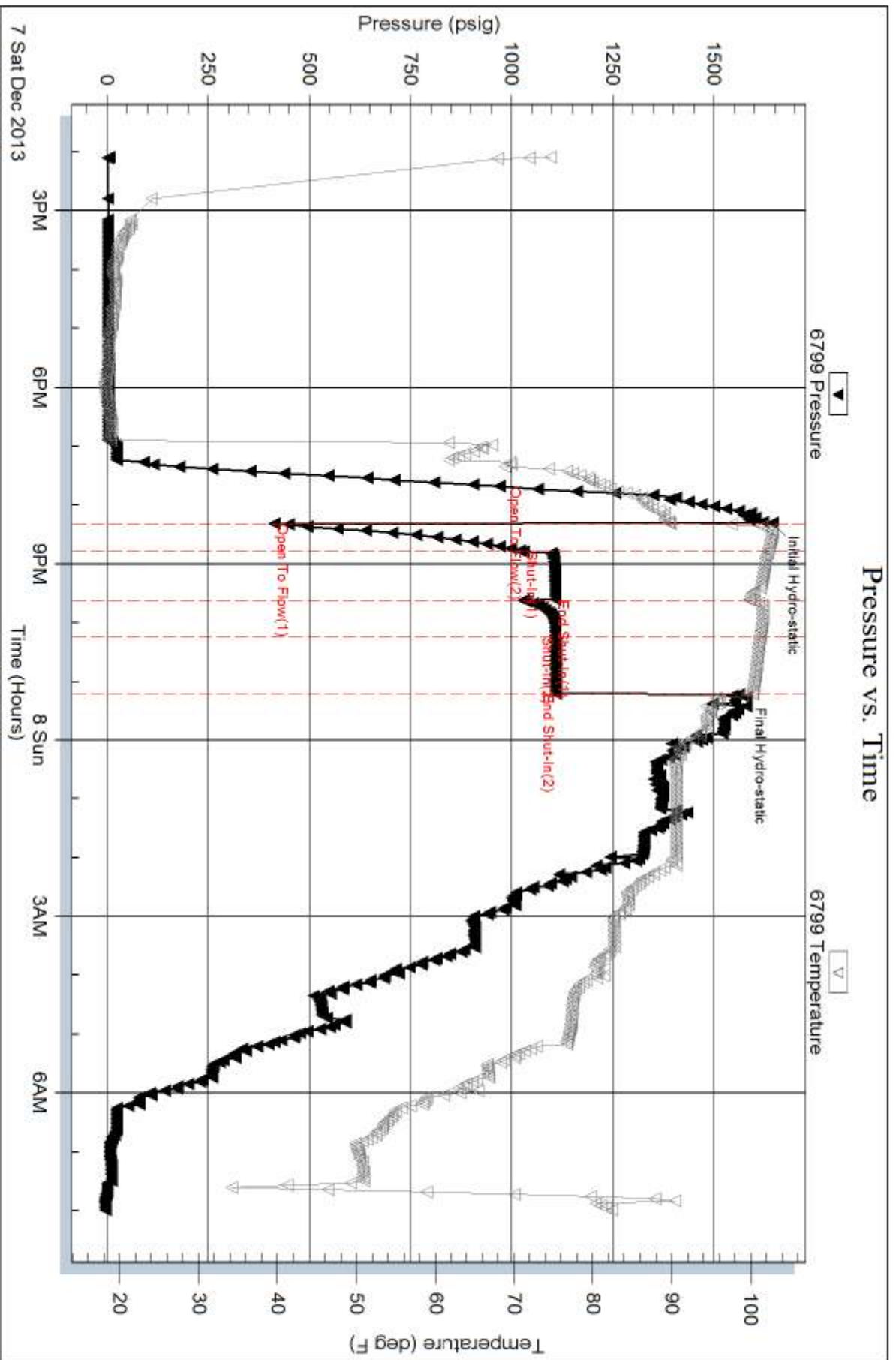
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GHOCM, 20%G, 30%M, 50%O	2.609
2622.00	GO, 40%G, 60%O	36.780
372.00	GO, 20%G, 80%O	5.218

Total Length: 3180.00 ft      Total Volume: 44.607 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

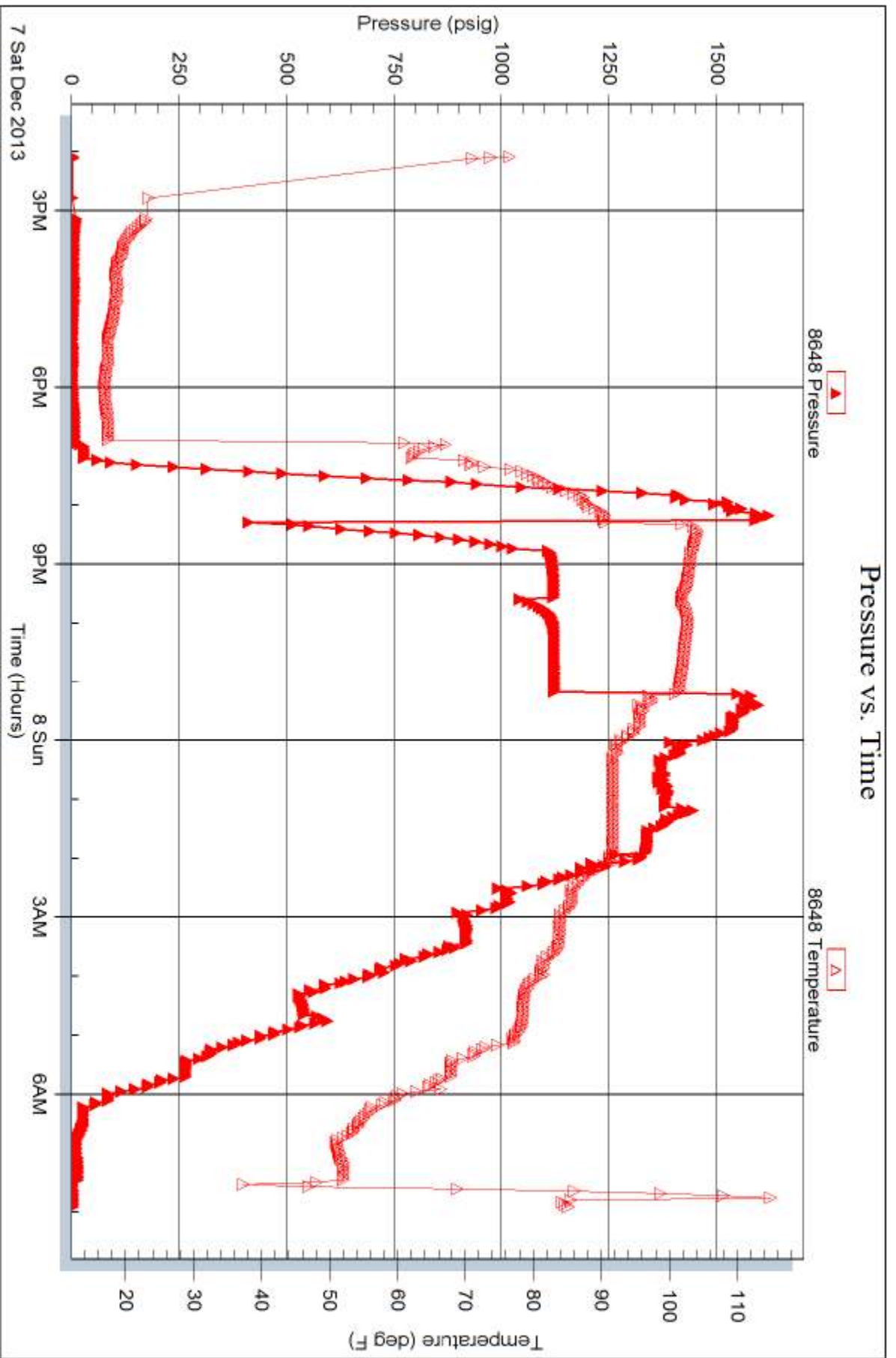


Serial #: 8648

Outside American Warrior Inc

Grubb #1-5

DST Test Number: 1

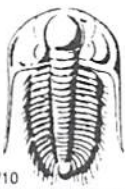


Trilobite Testing, Inc

Ref. No: 55364

Printed: 2013.12.11 @ 08:57:41





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55364**

4/10

Well Name & No. Grab # 1-5 Test No. 1 Date 12-7-13  
 Company American Warrior Inc Elevation 1828 KB 1820 GL  
 Address Po Box 399 Garden City KS, 67846  
 Co. Rep / Geo. Kurt Rig Duke 8  
 Location: Sec. 5 Twp. 16s Rge. 10W Co. Ellsworth State KS

Interval Tested 3236 - 3290 Zone Tested Ar buckle  
 Anchor Length 54' Drill Pipe Run 3222 Mud Wt. 9.6  
 Top Packer Depth 3231 Drill Collars Run — Vis 65  
 Bottom Packer Depth 3236 Wt. Pipe Run — WL 8.0  
 Total Depth 3290 Chlorides 11 ppm System LCM —

Blow Description IF - B.O.B. in 1 minute  
ISI - 1/2" blow  
FF - B.O.B. in 1 minute, died back to 1/2" blow after 20 minutes  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>GHOCM</u>	<u>20</u>	<u>50</u>	<u>30</u>	
<u>2622</u>	<u>60</u>	<u>40</u>	<u>60</u>		
<u>372</u>	<u>60</u>	<u>20</u>	<u>80</u>		

Rec Total 3180' BHT 100° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1544  Test 1150 T-On Location 1339  
 (B) First Initial Flow 413  Jars \_\_\_\_\_ T-Started 14:05 2:05pm  
 (C) First Final Flow 1031  Safety Joint \_\_\_\_\_ T-Open 20 20  
 (D) Initial Shut-In 1108  Circ Sub 50 T-Pulled 2305  
 (E) Second Initial Flow 1029  Hourly Standby 8.5h 850 T-Out 0800  
 (F) Second Final Flow 1108  Mileage 124 RT 192.20  
 (G) Final Shut-In 1110  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1562  Straddle \_\_\_\_\_

Comments Suppose to be on bank @ 2:30pm Dropped bar

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2242.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2242.20

Approved By \_\_\_\_\_ Our Representative Co dy [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  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.  
Grubb #1-5  
NW-SE-SW-SE (335' FSL & 1652' FEL)  
Section 5-16s-10w  
Ellsworth County, Kansas  
Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (Rig #8)  
**Commenced:** December 2, 2013  
**Completed:** December 8, 2013  
**Elevation:** 1828' K.B; 1826' D.F; 1820' G.L.  
**Casing program:** Surface; 8 5/8" @ 367'  
Production; 5 1/2" @ 3399'  
**Sample:** Samples saved and examined 2700' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2700 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There was one (1) Drill Stem Test ran by Trilobite Testing Co.  
**Electric Log:** By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log, Micro and Sonic Logs.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	874	+954
Base Anhydrite	895	+933
Heebner	2855	-1027
Toronto	2875	-1047
Douglas	2884	-1056
Brown Lime	2955	-1127
Lansing	2973	-1145
Base Kansas City	3263	-1435
Arbuckle	3283	-1455
Rotary Total Depth	3400	-1572
Log Total Depth	3402	-1574

(All tops and zones corrected to Electric Log measurements).

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

**TOPEKA SECTION**

2801-2822' Limestone; tan, cream, buff, fine and medium crystalline, slightly dolomitic, cherty in part, few fossiliferous, oomoldic in part, scattered intercrystalline and oomoldic porosity, dark brown

stain, no free oil and no odor in fresh samples.

**TORONTO SECTION**

2875-2885' Limestone; cream, white, finely crystalline, few fossiliferous, chalky, poor visible porosity, no shows.

**LANSING SECTION**

2973-2978' Limestone; cream, white, finely crystalline, oolitic/fossiliferous, few oomoldic porosity, poor fair oomoldic type porosity, no shows.

3000-3010' Limestone; cream, white, finely crystalline, oolitic, oomoldic, fair oomoldic porosity, trace stain, no free oil and no odor.

3020-3024' Limestone; cream, tan, finely crystalline, oolitic/fossiliferous, poor scattered porosity, spotty dark brown stain, no show of free oil and no odor.

3027-3034' Limestone; cream, tan, finely crystalline, oolitic/fossiliferous, chalky, poor scattered porosity, spotty dark brown stain, no show of free oil and no odor.

3050-3059' Limestone; cream, tan, finely crystalline, oolitic/fossiliferous, sub oomoldic, poorly developed porosity, spotty dark brown stain, no show of free oil and no odor.

3067-3084' Limestone; white, cream, finely crystalline, oomoldic, oolitic, oomoldic porosity, spotty brown stain, no free oil and no odor.

3185-3205' Limestone; cream, white, finely crystalline, oolitic, poorly developed intercrystalline porosity, trace brown edge staining, no show of free oil and no odor in fresh samples.

3218-3232' Limestone; tan, cream, gray, finely crystalline, oolitic, sub oomoldic, poorly developed sub oomoldic porosity, trace spotty brown stain, no show of free oil and no odor.

3244-3256' Limestone; tan, cream, finely crystalline, oolitic, chalky, dense.

**ARBUCKLE SECTION**

3283-3290' Dolomite; tan, cream, fine and medium crystalline, sucrosic in part, fair to good intercrystalline to vuggy type porosity, golden born stain and saturation, good show of free oil and good odor in fresh samples.

**Drill Stem Test #1** **3236-3290'**

**Times:** 30-45-45-60

**Blow:** Strong

**Recovery:** 2995' clean gassy oil  
186' muddy gassy oil  
(20% gas, 30% mud, 50% oil)

**Pressures:** ISIP 1031 psi  
FSIP 1111 psi  
IFP 414-1031 psi  
FFP 1030-1108 psi  
HSH 1644-1562 psi

- 3290-3310' Dolomite; tan, brown, fine and medium crystalline, sucrosic, fair to good intercrystalline to vuggy type porosity, golden brown stain, good show of free oil and good odor in fresh samples.
- 3310-3330' Dolomite; cream, tan, fine to medium crystalline, few with scattered vuggy porosity, brown stain, show of free oil and good odor, plus white, cream, boney chert.
- 3330-3350' Dolomite; tan, cream, few medium crystalline, sucrosic in part, fair porosity, trace stain, trace of free oil and faint odor.
- 3350-3370' Dolomite; tan, cream, fine and medium crystalline, poorly developed porosity, trace stain, no free oil and no odor.
- 3370-3400' Dolomite; cream, tan, finely crystalline, slightly cherty, poorly developed porosity, no shows.

**Rotary Total Depth** 3400  
**Log Total Depth** 3402

Respectfully submitted;

*Kurt Talbott & James C. Musgrove*

Kurt Talbott and  
James C. Musgrove,  
Petroleum Geologists

