





1053640

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 <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span> <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>  Cores Taken <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span> Electric Log Run <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span> Electric Log Submitted Electronically <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span> <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Log</span> <span>Formation (Top), Depth and Datum</span> <span><input type="checkbox"/> Sample</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>Name</span> <span>Top</span> <span>Datum</span> </div>
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CASING RECORD <span style="float: right;"><input type="checkbox"/> New <input type="checkbox"/> Used</span> 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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
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. <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</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	Dotty 1-18
Doc ID	1053640

#### Tops

Name	Top	Datum
Anhydrite	1531	759
Heebner	3809	-1519
Lansing	3852	-1562
BKC	4170	-1880
Pawnee	4295	-2005
Ft. Scott	4322	-2032
Cherokee	4332	-2042
Mississippian	4435	-2145
TD	4440	-2150



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399 Garden City  
Ks 67846

ATTN: Jason Alm

**Dotty #1-18**

**Sec18Twp19sRge20w**

Job Ticket: 36816

**DST#: 1**

Test Start: 2010.08.02 @ 00:46:31

### GENERAL INFORMATION:

Formation: **Cher. Sand "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:32:31

Time Test Ended: 08:14:31

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 4327.00 ft (KB) To 4350.00 ft (KB) (TVD)**

Reference Elevations: 2290.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

2284.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 6.00 ft

**Serial #: 8369 Outside**

Press @ RunDepth: 228.50 psig @ 4328.02 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.02

End Date:

2010.08.02

Last Calib.: 2010.08.02

Start Time: 00:46:36

End Time:

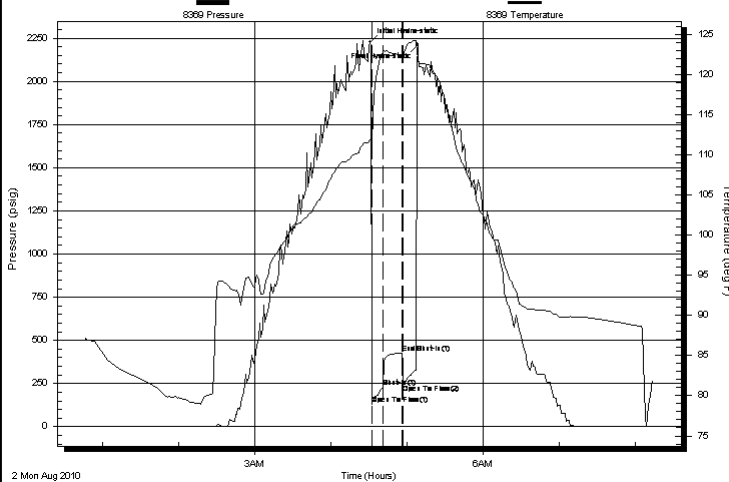
08:14:30

Time On Btm: 2010.08.02 @ 04:31:01

Time Off Btm: 2010.08.02 @ 05:08:30

TEST COMMENT: IF-BOB in 2.5min  
ISI-No blow  
FF-BOB in 2.5min

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.79	111.83	Initial Hydro-static
2	128.09	111.64	Open To Flow (1)
11	228.50	122.80	Shut-In(1)
25	426.96	122.25	End Shut-In(1)
26	246.31	122.47	Open To Flow (2)
38	2214.72	122.28	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
500.00	SMCW 90%W 10%M	5.88
120.00	WCM 35%M 65%W	1.68
60.00	Oilspotted WCM 40%W 60%M	0.84

### Gas Rates

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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

American Warrior Inc.

**Dotty #1-18**

PO Box 399 Garden City  
Ks 67846

**Sec18Twp19sRge20w**

Job Ticket: 36816

**DST#: 1**

ATTN: Jason Alm

Test Start: 2010.08.02 @ 00:46:31

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 8400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

40000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	SMCW 90%W 10%M	5.884
120.00	WCM 35%M 65%W	1.683
60.00	Oilspotted WCM 40%W 60%M	0.842

Total Length: 680.00 ft

Total Volume: 8.409 bbl

Num Fluid Samples: 0

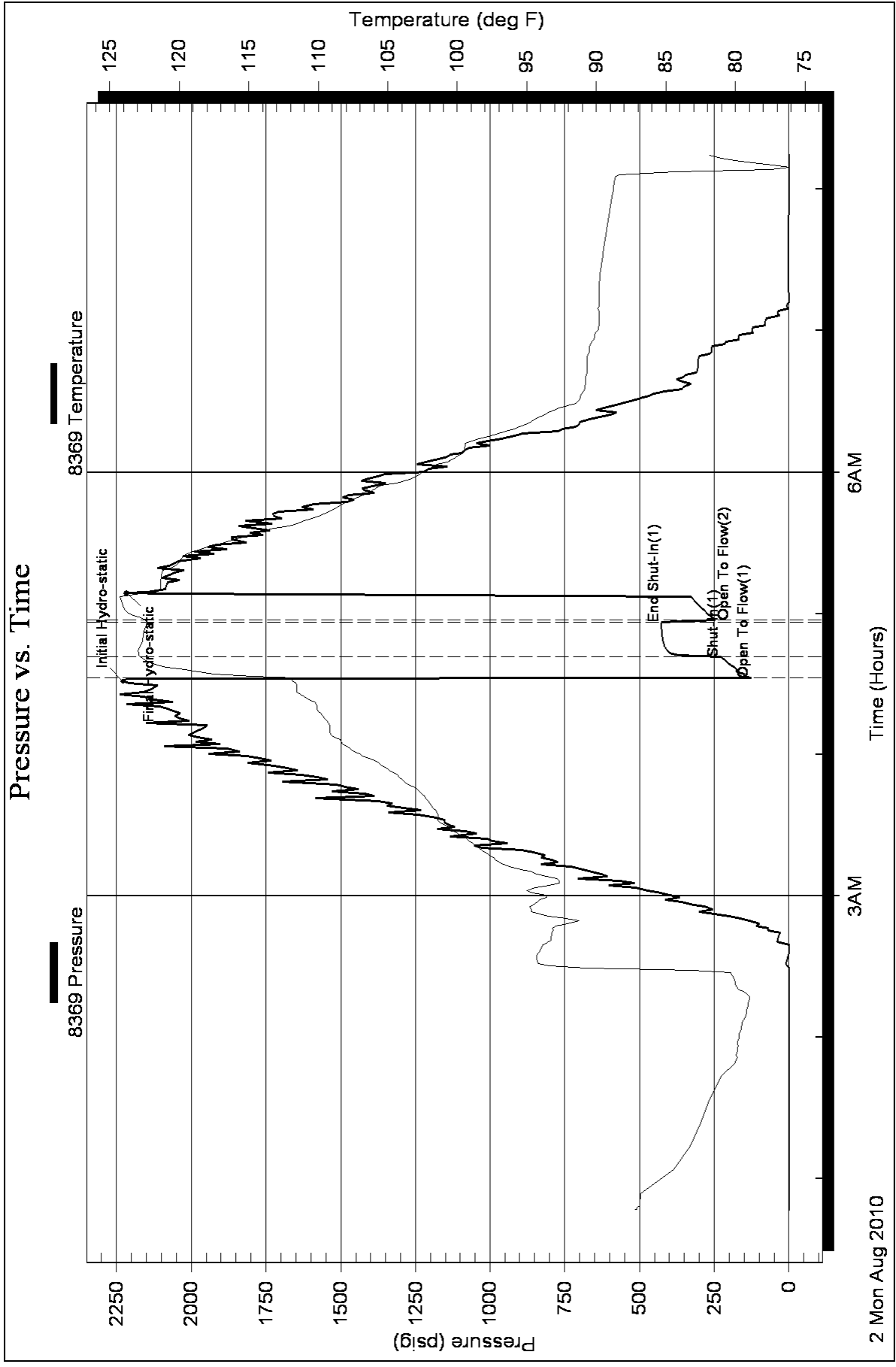
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399 Garden City  
Ks 67846

ATTN: Jason Alm

**Dotty #1-18**

**Sec18Twp19sRge20w**

Job Ticket: 36817

**DST#: 2**

Test Start: 2010.08.02 @ 14:56:12

### GENERAL INFORMATION:

Formation: **Cher. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:42

Time Test Ended: 19:44:42

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 4350.00 ft (KB) To 4382.00 ft (KB) (TVD)**

Total Depth: 4382.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2290.00 ft (KB)

2284.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 236.51 psig @ 4351.02 ft (KB)

Start Date: 2010.08.02

End Date:

2010.08.02

Start Time: 14:56:17

End Time:

19:44:41

Capacity: 8000.00 psig

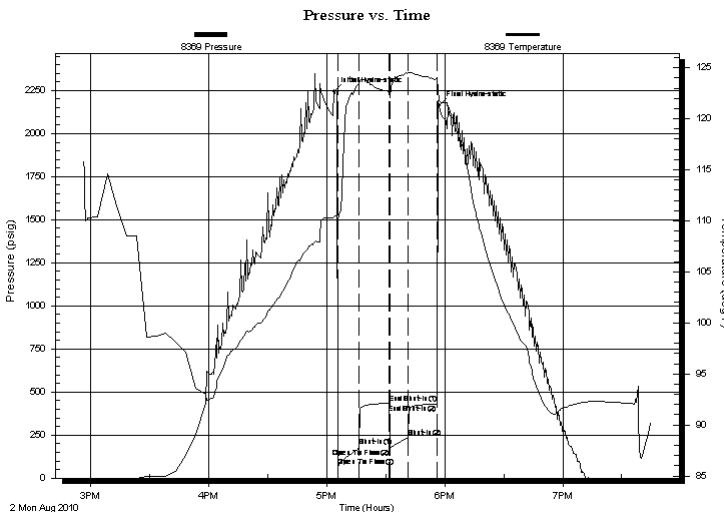
Last Calib.: 2010.08.02

Time On Btm: 2010.08.02 @ 17:03:42

Time Off Btm: 2010.08.02 @ 17:57:12

TEST COMMENT: IF-BOB in 4min  
ISI-No blow  
FF-BOB in 7min  
FSI-weak surface blow died in 4min

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.10	110.35	Initial Hydro-static
2	68.99	109.99	Open To Flow (1)
13	182.52	123.48	Shut-In(1)
28	433.33	122.66	End Shut-In(1)
29	176.08	122.09	Open To Flow (2)
38	236.51	124.50	Shut-In(2)
53	430.75	123.93	End Shut-In(2)
54	2162.16	121.77	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
480.00	water	5.60
20.00	mcw 30%M 70%W	0.28

### Gas Rates

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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

American Warrior Inc.

**Dotty #1-18**

PO Box 399 Garden City  
Ks 67846

**Sec18Twp19sRge20w**

Job Ticket: 36817

**DST#: 2**

ATTN: Jason Alm

Test Start: 2010.08.02 @ 14:56:12

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 10.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 8200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 35000 ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	water	5.604
20.00	mcw 30%M 70%W	0.281

Total Length: 500.00 ft

Total Volume: 5.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

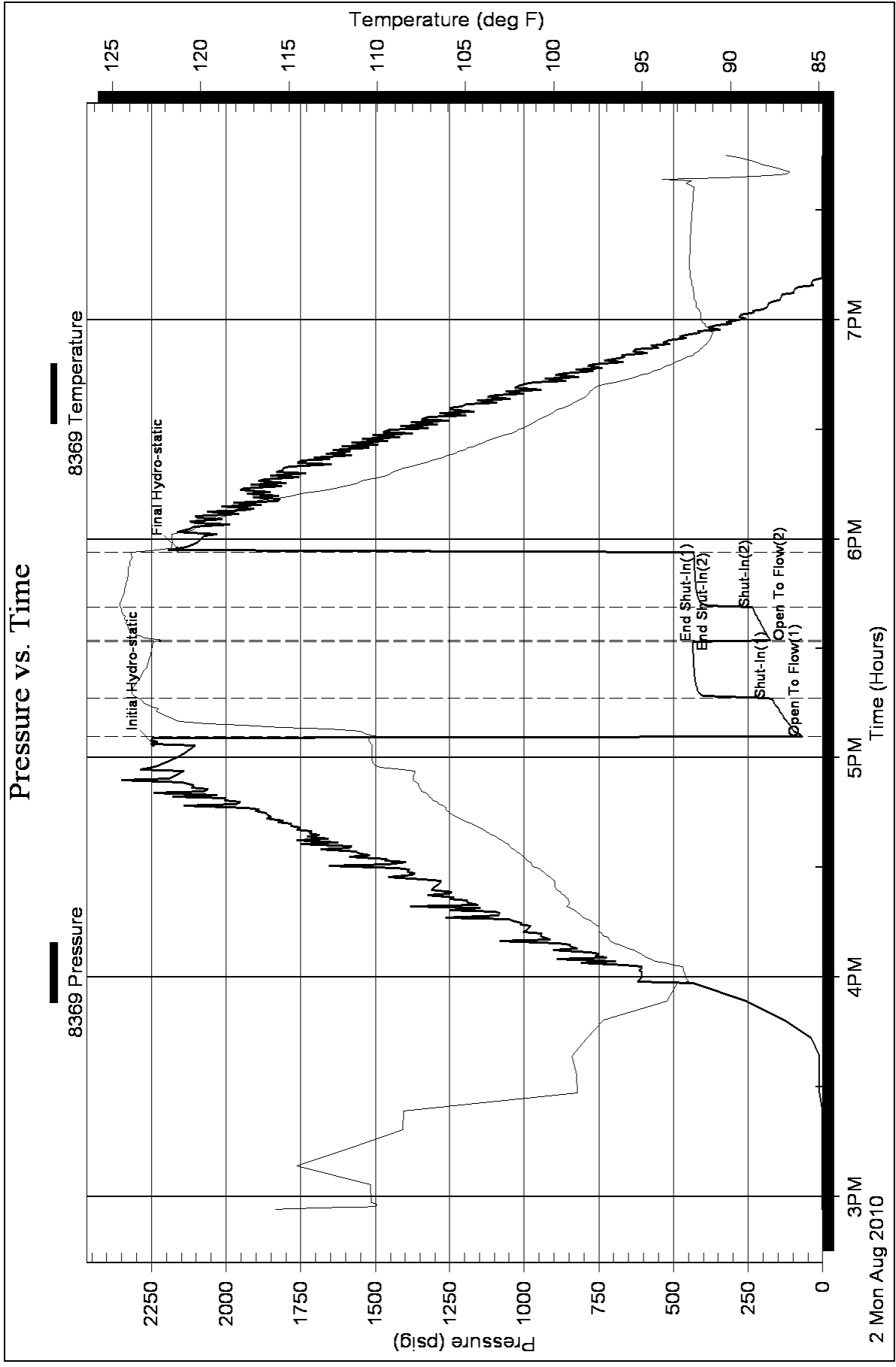
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





ATT # 15-165-21864-0000

## GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

OPERATOR American Lbation, Inc.

LEASE Duffy WELL NO. 1-18

FIELD Kobbe

LOCATION 1390' ENL & 645' EEI

SEC. 18 TWP. 19s RGE. 20w

COUNTY Rush STATE Kansas

CONTRACTOR Petro-mek Drilling, LLC Rig #7

COMM: 1-2-2018 COMP: 8-3-2018  
RTD 4440 LOG TO None

SAMPLES SAVED FROM 3200' TO 1770'  
DRILLING TIME KEPT FROM 3200' TO 1770'

SAMPLES EXAMINED FROM 3700' TO RTD  
GEOLOGICAL SUPERVISION FROM 3500' TO RTD

MUD UP 3500 TYPE MUD Chemical

FORMATION	TOP	LOG	DATUM	SAMPLE		STRUCT. COMP.
				TOP	DATUM	
Alphabets				1531	+759	-1
Base				1565	+725	-5
Hebeur				3809	-1519	-4
Leaving				3852	-1562	-2
Bike				4170	-1880	-5
Palmer				4295	-2005	
Port Scott				4322	-2032	-7
Thomson				4332	-2042	-7
Mississippi				4435	-2145	-14
Total Depth				4440	-2150	

## ELEVATION

容

DF\_\_\_\_\_

G  
1234

## Measurements Are All

From Levi's

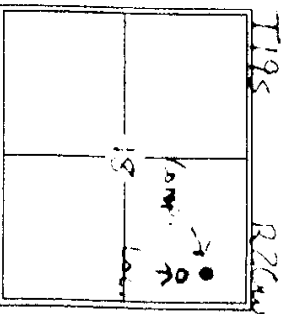
# CASING RECORD

**SURFACE** 0.5

**PRODUCTION** 1-6-63

## ELECTRICAL SURVEYS

4-7



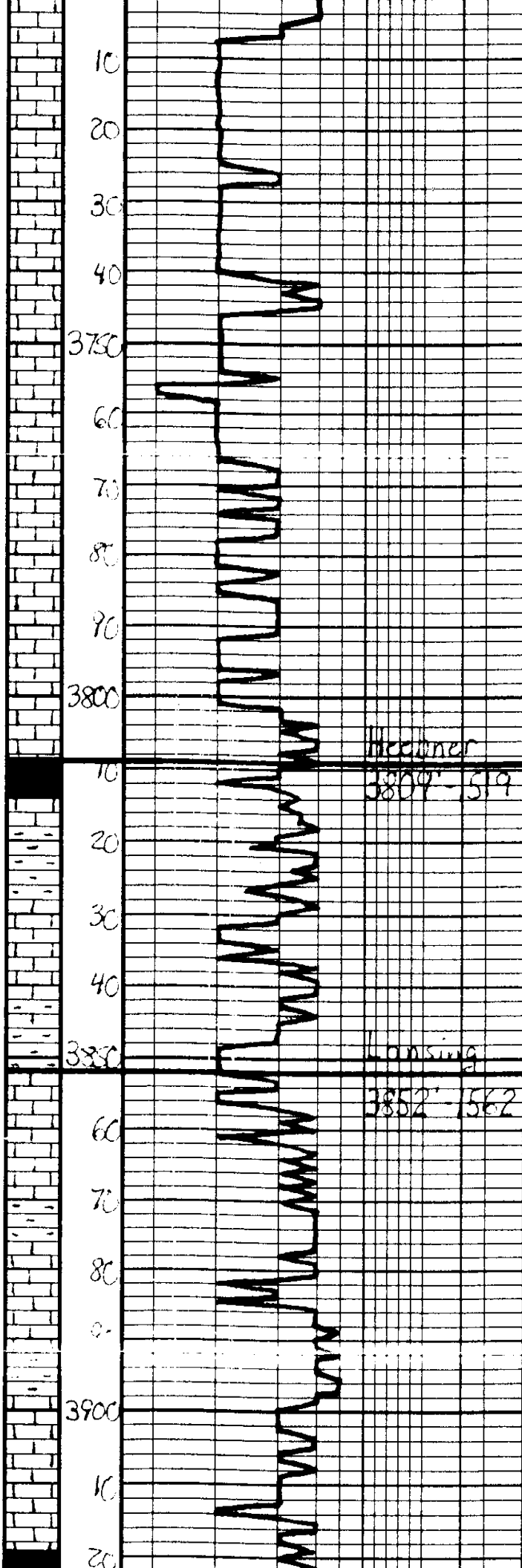
REFERENCE WELL FOR STRUCTURAL COMPARISON

NE SE NE Sec. 18 T13S R21W

Thunderbird Oilfield Kaber #7

[illegible]

[illegible]



LS: Tan. Gyp. Mottled, Fa.  
Fossil, Fossil, Fossil

Geo on location  
9:00p.m. 7-31-2006

LS: a/a

LS: a/a

LS: Tan. Gyp. Mottled, Fa.  
Fossil, Fossil, Fossil

LS: a/a

LS: Tan. Gyp. Mottled, Fa.  
Fossil, Fossil, Fossil

Sh: Blk, Carb. Fossil

Sh: Gyp. Ben. Gen

LS: Off-white, Tan. Fa. a/a  
Fossil, Fossil, Fossil

Sh: Gyp. Ben

LS: Tan. Gyp. Fossil, Fa.  
Fossil, Fossil, Fossil

LS: a/a, a/a

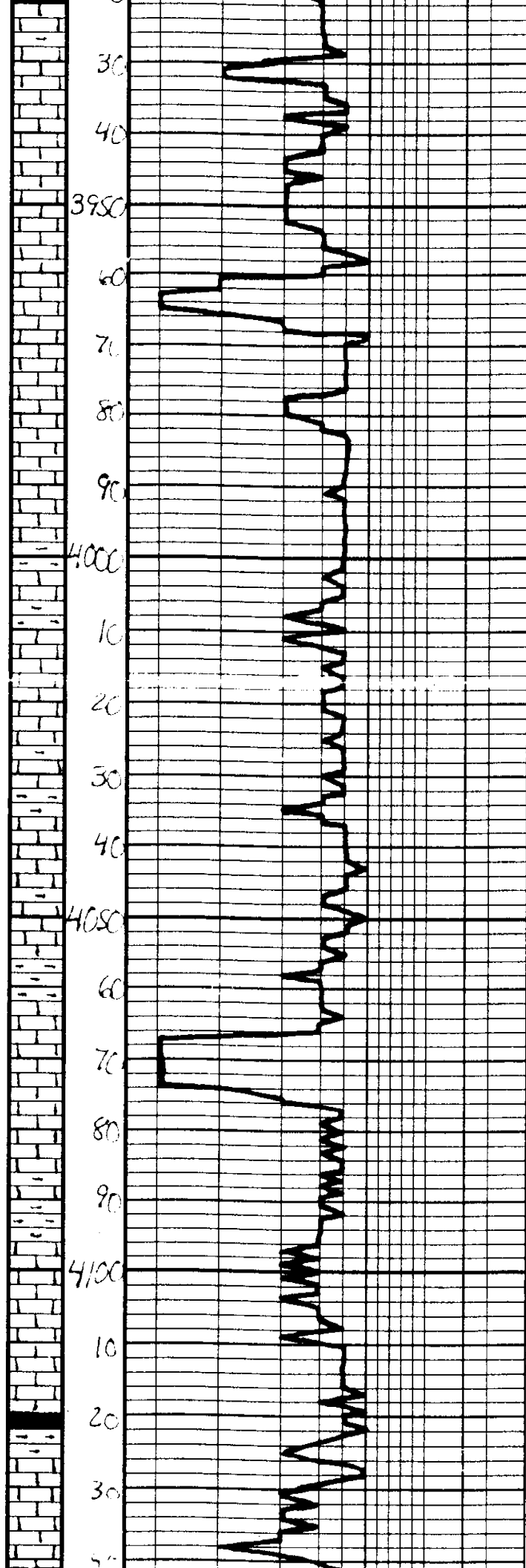
Sh: Gyp. Ben

LS: Off-white, Tan. Fa. a/a  
Fossil, Fossil, Fossil

Sh: Gyp. Ben

LS: Off-white, Tan. Fa. a/a  
Fossil, Fossil, Fossil

Sh: Det. S



Ls. Tan. Lt. grey. Fa. aia.  
Fossil soil. vel. Fair. Nam. q.  
Bollen

Ls. aia. vel. Poor. inter. q.

Ls. Off. white. Lt. grey. Fa. aia.  
Fossil soil. vel. poor. Nam. q.  
Bollen

Ls. aia. p. aia. Nam. q. Bollen

Ls. Off. white. Lt. grey. Fa. aia. Nam. q.

Sh. grey. Ben

Sh. aia

Ls. aia. p. aia. Nam. q.

Sh. grey. Ben

Ls. Tan. Lt. grey. Fa. aia. Nam. q.

Sh. grey. Ben

Ls. Off. white. Lt. grey. Fa. aia. Nam. q.  
Fossil soil. vel. poor. Nam. q.  
Bollen

Ls. aia. Nam. q.

Sh. grey. Ben

Ls. Tan. Lt. grey. Fa. aia. Nam. q.  
Fossil soil. vel. poor. Nam. q.  
Bollen

Ls. Tan. Lt. grey. Fa. aia. Nam. q.

Sh. Dark grey. Bk

Ls. Tan. Lt. grey. Fa. aia.  
vel. poor. inter. q. Bollen





# **Geological Report**

American Warrior, Inc.

**Dotty #1-18**

1390' FNL & 645' FEL

Sec. 18 T19s R20w

Rush County, Kansas



**American Warrior, Inc.**



## General Data

Well Data:	American Warrior, Inc. Dotty #1-18 1390' FNL & 645' FEL Sec. 18 T19s R20w Rush County, Kansas API # 15-165-21864-0000
Drilling Contractor:	Petromark Drilling, LLc. Rig #1
Geologist:	Jason Alm
Spud Date:	July 27, 2010
Completion Date:	August 3, 2010
Elevation:	2284' Ground Level 2290' Kelly Bushing
Directions:	Alexander KS, 4 mi. South, 1 mi. West, West into location.
Casing:	223' 8 5/8" surface casing
Samples:	10' wet and dry, 3700' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	None
Drillstem Tests:	Two, Trilobite Testing, Inc. "Brett Dickinson"
Problems:	None
Remarks:	None

## Formation Tops

### Formation

Anhydrite	1531', +759
Base	1565', +725
Heebner	3809', -1519
Lansing	3852', -1562
BKc	4170', -1880
Pawnee	4295', -2005
Fort Scott	4322', -2032
Cherokee	4332', -2042
Mississippian	4435', -2145
RTD	4440', -2150

American Warrior, Inc.

Dotty #1-18

Sec. 18 T19s R20w

1390' FNL & 645' FEL

## Sample Zone Descriptions

### **Cherokee "A" Sand (4334', -2044): Covered in DST #1**

SS – Fine grained, well sorted, well rounded, poorly cemented with fair to good inter-granular porosity, light to good oil stain and saturation in porosity, show of free oil, light odor, dull yellow fluorescents, 26 units hotwire.

### **Cherokee "B" Sand (4370', -2080): Covered in DST #2**

SS – Fine to medium grained, fairly sorted, poorly cemented, fairly rounded with fair to good inter-granular porosity, light to good oil stain and saturation in porosity, show of free oil, very light odor, dull yellow fluorescents, 14 units hotwire.

### **Mississippian Osage (4435', -2145): Not Tested**

Dolo – Δ – Fine sucrosic crystalline with fair vuggy porosity, heavy chert, triptolitic, weathered with good vuggy porosity, barren, no fluorescents.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Brett Dickinson"

**DST #1**

**Cherokee Sand**

Interval (4327' – 4350') Anchor Length 23'

IHP	– 2227 #	
IFP	– 10" – B.O.B. 2.5 min.	128-229 #
ISI	– 15" – Dead	427 #
FFP	– 10" – B.O.B. 2.5 min.	246 #
FHP	– 2214 #	
BHT	– 122°F	

Recovery: 60' WCM w/ oil spots  
120' WCM  
500' SMCW

**DST #2**

**Cherokee Sand**

Interval (4350' – 4382') Anchor Length 32'

IHP	– 2244 #	
IFP	– 10" – B.O.B. 4 min.	69-183 #
ISI	– 15" – Dead	433 #
FFP	– 10" – B.O.B. 7 min.	167-237 #
FSI	– 15" – Dead	431 #
FHP	– 2162 #	
BHT	– 124°F	

Recovery: 20' MCW  
480' Water

**Structural Comparison**

	American Warrior, Inc. Dotty #1-18 Sec. 18 T19s R20w 1390' FNL & 645' FEL	Tomlinson & Kathel Kober #1 Sec. 18 T19s R20w S2 NE NE		Zetco Petroleum Co. Kober #1 Sec. 18 T19s R20w C N2 S2 NE	
<b>Formation</b>					
Anhydrite	1531', +759	1540', +761	(-2)	NA	NA
Base	1565', +725	NA	NA	NA	NA
Heebner	3809', -1519	3822', -1521	(+2)	3776', -1515	(-4)
Lansing	3852', -1562	3865', -1564	(+2)	3820', -1559	(-3)
BKc	4170', -1880	NA	NA	4138', -1877	(-3)
Pawnee	4295', -2005	NA	NA	NA	NA
Fort Scott	4322', -2032	4326', -2025	(-7)	NA	NA
Cherokee	4332', -2042	4337', -2036	(-6)	4298', -2037	(-5)
Mississippian	4435', -2145	NA	NA	NA	NA

## **Summary**

The location for the Dotty #1-18 was found via 3-D seismic survey. The new well ran structurally lower than expected via the survey. Two drill stem tests were conducted both of which recovered only water from the Cherokee Sand. After all gathered data had been examined the decision was made to plug and abandon the Dotty #1-18 well.

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.



## JOB LOG

SWIFT Services, Inc.

DATE 7-27-K PAGE NO.

CUSTOMER American Warrior WELL NO. 1-18 LEASE Dotty JOB TYPE Cement Surface Pipe TICKET NO. 18856

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							On Location 8 5/8 23# TD 223' TP-222' PS-222'
	2030							Start 8 5/8 Casing
	2115							Break Circulation
	2130	4 1/2	5	✓			200	Pump 5661 Water
		4 1/2		✓			200	Start Cement 150 sks 14.7 ppg
			36				-	Shut Down
		4 1/2		✓			200	Start Displacement
		4 1/2	8	✓			300	Cement to Surface 25 sks to Pit
	2145		13.2				300	Shut Down - Shut in
								Wash Truck
	2200							Job Complete Thank you Britt, Dave, & Brian

# ALLIED CEMENTING CO., LLC. 036791

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

G - east Beverly

DATE 8-3-10	SEC. 18	TWP. 19S	RANGE 21W	CALLED OUT	ON LOCATION	JOB START 10:00 AM	JOB FINISH 10:30 AM
LEASE Ratty	WELL# 1-18	LOCATION Alexander 1/4 East			COUNTY Rush	STATE US	
OLD OR NEW (Circle one)			South To WARD 1 west 1/4 S with				

CONTRACTOR Peterson Rig 1  
TYPE OF JOB Rotary Plug  
HOLE SIZE 7 7/8 T.D. 4440  
CASING SIZE DEPTH  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 DEPTH 1560  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG.  
PERFS.  
DISPLACEMENT 2 1/4 BBLS 13 mud

## EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D  
# 181 HELPER Bob-R  
BULK TRUCK  
# 344 DRIVER B. 11  
BULK TRUCK  
# DRIVER

## REMARKS:

1st plug 1560 mix 50 SX Dis 5 BBLS  
H2O 13 BBLS Rig mud  
2nd plug 630 mix 80 SX Dis 2.25  
3rd plug 260 mix 50 SX Dis .25  
4th plug 60 mix 20 SX Dis .25  
Rat mix 30 SX

CHARGE TO: American warrior  
STREET  
CITY STATE ZIP

To Allied Cementing Co., 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 Kenneth G. Roach

SIGNATURE Kenneth G. Roach

OWNER American warrior  
CEMENT  
AMOUNT ORDERED 220 SX 40/40 49%  
Gel 1/4 # floreal

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

TOTAL

## SERVICE

DEPTH OF JOB 1560  
PUMP TRUCK CHARGE  
EXTRA FOOTAGE @  
MILEAGE @  
MANIFOLD @  
@  
@

TOTAL

## PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS