

Kansas Corporation Commission Oil & Gas Conservation Division

1053640

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
ENHR Permit #:	County: Permit #:
GSW Permit #:	. 5
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY		
Letter of Confidentiality Received		
Date:		
Confidential Release Date:		
Wireline Log Received		
Geologist Report Received		
UIC Distribution		
ALT I II III Approved by: Date:		

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether s it, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify)						

Form	ACO1 - Well Completion	
Operator	American Warrior, Inc.	
Well Name	Dotty 1-18	
Doc ID	1053640	

Tops

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



American Warrior Inc.

Dotty #1-18

Tester:

PO Box 399 Garden City

Job Ticket: 36816

DST#: 1

2284.00 ft (CF)

Ks 67846

Sec18Twp19sRge20w

Test Start: 2010.08.02 @ 00:46:31

ATTN: Jason Alm

GENERAL INFORMATION:

Formation: Cher. Sand "A"

Deviated: Whipstock: Test Type: Conventional Bottom Hole ft (KB)

Time Tool Opened: 04:32:31 Time Test Ended: 08:14:31

Interval:

Unit No:

Total Depth: 4350.00 ft (KB) (TVD)

7.88 inches Hole Condition: Hole Diameter:

4327.00 ft (KB) To 4350.00 ft (KB) (TVD)

Reference Elevations: 2290.00 ft (KB)

> KB to GR/CF: 6.00 ft

Brett Dickinson

Serial #: 8369 Outside

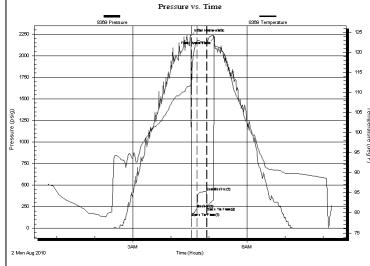
Press@RunDepth: 4328.02 ft (KB) 228.50 psig @ Capacity: 8000.00 psig

Time

Start Date: 2010.08.02 End Date: 2010.08.02 Last Calib.: 2010.08.02 Start Time: 00:46:36 End Time: 2010.08.02 @ 04:31:01 08:14:30 Time On Btm: Time Off Btm: 2010.08.02 @ 05:08:30

TEST COMMENT: IF-BOB in 2.5min

ISI-No blow FF-BOB in 2.5min



	(Min.)	(psig)	(deg F)	
	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)
Temperature	26	246.31	122.47	Open To Flow (2)
rature	38	2214.72	122.28	Final Hydro-static
(deg				
F)				
	1			

PRESSURE SUMMARY

Pressure Temp Annotation

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 (nsig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 36816 Printed: 2010.08.02 @ 09:38:30 Page 1



FLUID SUMMARY

American Warrior Inc.

PO Box 399 Garden City

Ks 67846

Job Ticket: 36816

Dotty #1-18

DST#:1

ATTN: Jason Alm

Test Start: 2010.08.02 @ 00:46:31

Sec18Twp19sRge20w

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil A Pl: deg A Pl

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 40000 ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 9.19 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 8400.00 ppm Filter Cake: inches

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

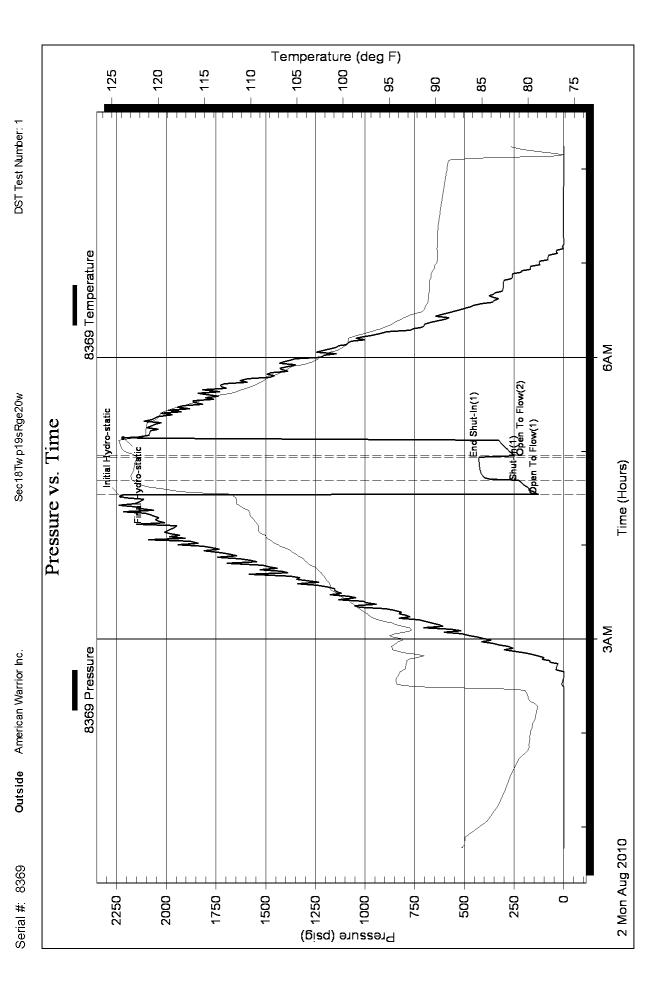
Total Length: 680.00 ft Total Volume: 8.409 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 36816 Printed: 2010.08.02 @ 09:38:31 Page 2





American Warrior Inc.

Dotty #1-18

PO Box 399 Garden City

I-l- T-l--+ 00047

Sec18Twp19sRge20w

Ks 67846

Job Ticket: 36817 **DST#:2**

ATTN: Jason Alm Test Start: 2010.08.02 @ 14:56:12

GENERAL INFORMATION:

Formation: Cher. Sand

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole

Time Tool Opened: 17:05:42 Tester: Brett Dickinson
Time Test Ended: 19:44:42 Unit No: 47

Interval: 4350.00 ft (KB) To 4382.00 ft (KB) (TVD) Reference Elevations: 2290.00 ft (KB)

Total Depth: 4382.00 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: 236.51 psig @ 4351.02 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2010.08.02
 End Date:
 2010.08.02
 Last Calib.:
 2010.08.02

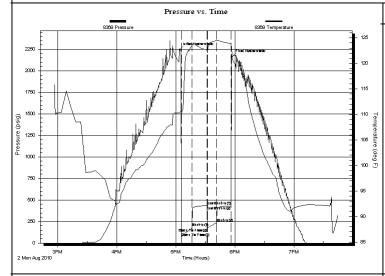
 Start Time:
 14:56:17
 End Time:
 19:44:41
 Time On Btm:
 2010.08.02 @ 17:03:42

Time Off Btm: 2010.08.02 @ 17:57:12

TEST COMMENT: IF-BOB in 4min

ISI-No blow FF-BOB in 7min

FSI-w eak surface blow died in4min



Ы	RESS	URE	SUMM	ARY

ı				
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	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	w ater	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 Ref. No: 36817 Printed: 2010.08.02 @ 21:44:19 Page 1



FLUID SUMMARY

American Warrior Inc.

Dotty #1-18

PO Box 399 Garden City

ATTN: Jason Alm

Sec18Twp19sRge20w

Ks 67846

Job Ticket: 36817 **DST#: 2**

Test Start: 2010.08.02 @ 14:56:12

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: 35000 ppm

Viscosity: 68.00 sec/qt Cushion Volume: bbl

Water Loss: 10.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 8200.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

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

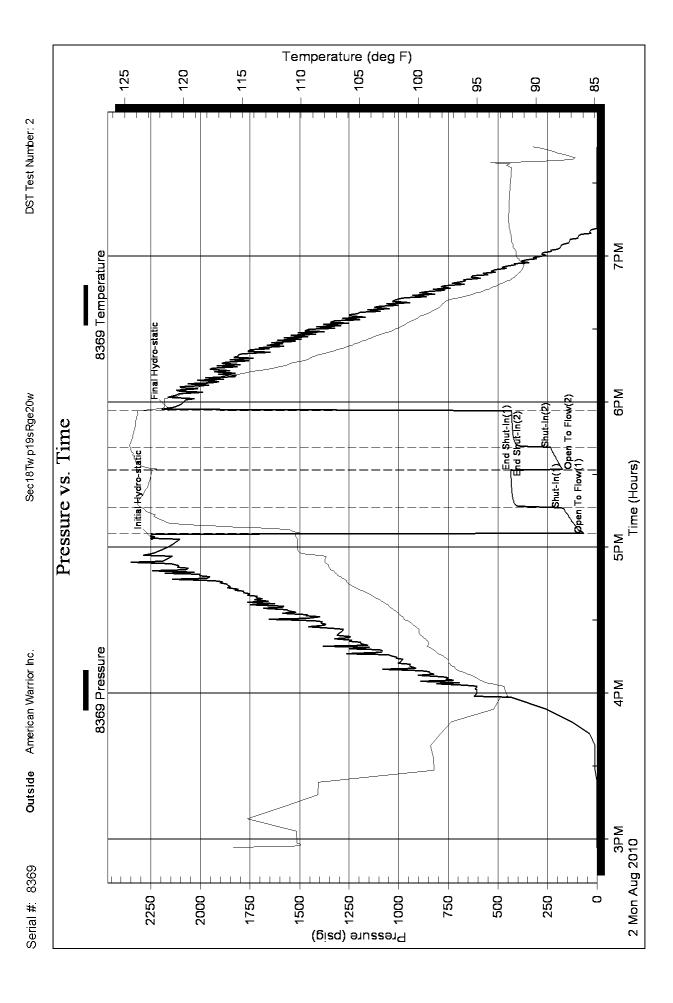
Total Length: 500.00 ft Total Volume: 5.885 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 36817 Printed: 2010.08.02 @ 21:44:19 Page 2



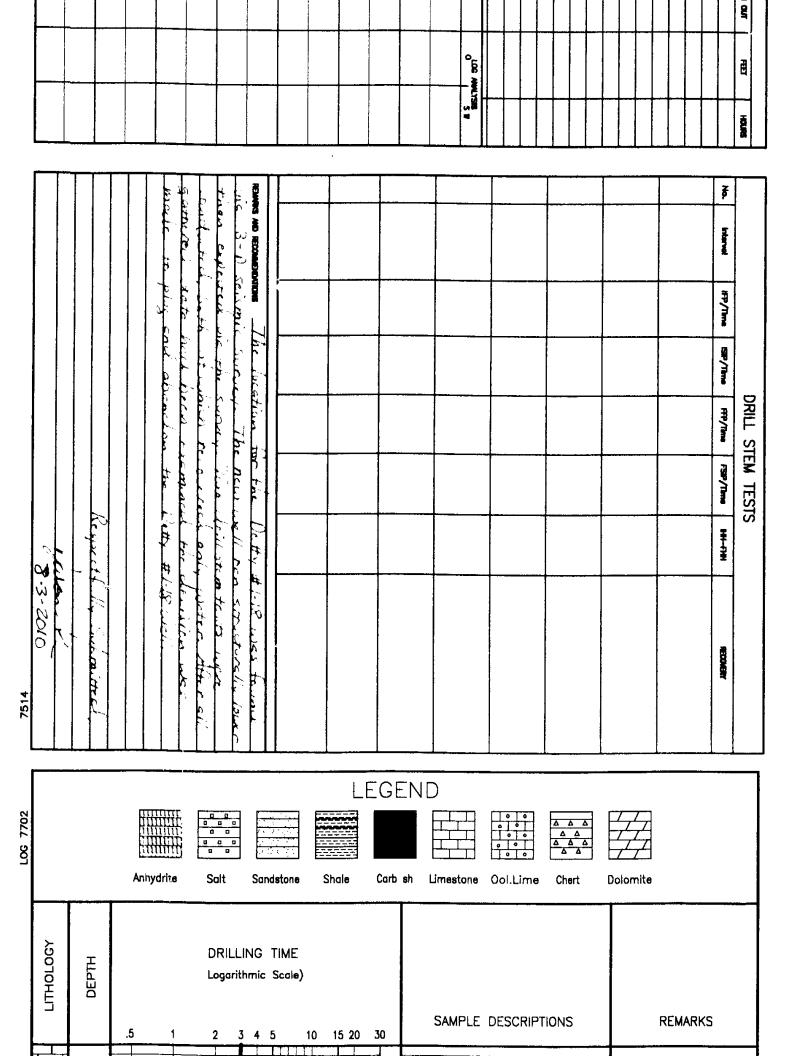
Printed: 2010.08.02 @ 21:44:19 Page 3 36817 Ref. No: Trilobite Testing, Inc

Hard Rock Consulting, Inc. Jason Alm Petroleum Geologist P.O. Box 1260 Ilays, KS 6760]

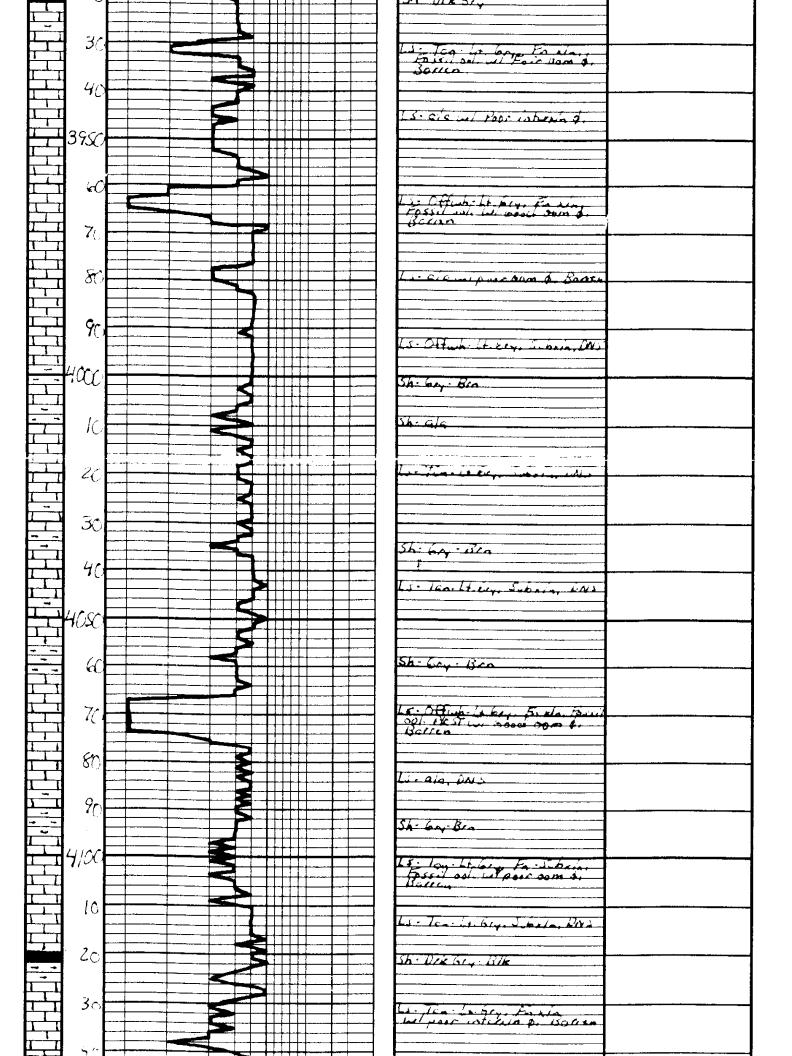
GEOLOGIST'S REPORT

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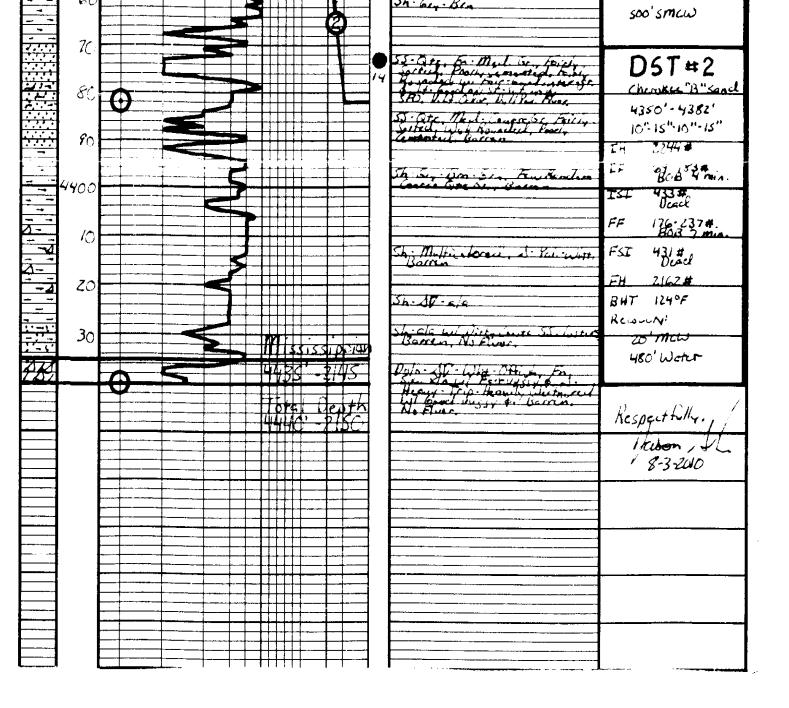
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Geological Report

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

None

Remarks:

Formation Tops

	American Warrior, Inc.
	Dotty #1-18
	Sec. 18 T19s R20w
Formation	1390' FNL & 645' FEL
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

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 - 2162 #

Recovery: 20' MCW

480' Water

Structural Comparison

	American Warrior, Inc.	Tomlinson & Kathel		Zetco Petroleum Co.	
	Dotty #1-18	Kober #1		Kober #1	
	Sec. 18 T19s R20w	Sec. 18 T19s R20w		Sec. 18 T19s R20w	
Formation	1390' FNL & 645' FEL	S2 NE NE		C N2 S2 NE	
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.



ADDRESS
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TICKET

*	
8856	

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	TAX				WE OF ERALED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTIORALY? ABE VOILS THE FEBRUARY AND SET OF THE PERFORMENT AND SET OF THE PERFORMEN	AND PERFORMED IN AND PERFORMED CALCULATIONS SATISFACTORILY?	P.O. BOX 466 NESS CITY, KS 67560			EVERT OF GOODS	X CONTROL DELIVERY OF GOODS
-					PERFORMED WITHOUT DELAY?	PERFORMED WITH	SWIFT SERVICES, INC.		10	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	MUST BE SIGNED BY CU
					TOOD AND JEEDS?	MET YOUR NEEDS?		r, and	N.	LIMITED WARRANTY provisions.	LIMITED WARRANTY provisions
276000	PAGE IOIAL				OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	OUR EQUIPMENT PERFO WITHOUT BREAKDOWN?	ACIVILI PATMENT TO:	ndude,	which in	the terms and conditions on the reverse side hereof which include,	the terms and con
	- 1	AGREE	DECIDED	AGREE	SURVEY		DEMIT DAVMENT TO	ees to	and agi	LEGAL TERMS: Customer hereby acknowledges and agrees to	LEGAL TERMS:
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TNUONA	PROF	Ž	OTY	[]	QTY.		DESCRIPTION	ACCOUNTING ACCT DF	ACC:	SECONDARY REFERENCE/ PART NUMBER	REFERENCE

D SERVICES The extra to the services

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES THE COLD

SMIRT OPERATOR

Thank You!

RATE (BPM)	WELL NO. VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING	1	DATE 7-27-10 PATE 10 PAT
	VOLUME (BBL) (GAL)	PUMPS	PRESSUR	E (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
			, osmo	O/O/IC	
					RUN LOCA TION
			T		8% 23#
		1			TO 223'
·					TP-222'
					P5-222'
-				·	Start 8% Casing
			ļ		
					Break Circulation
42	_5_			2000	Pump 5661 Water
ши					
7/2		17		200	Start Cement 150sks 147pp
	21				CLIM
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176				20	Start Displacement
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1.0	. 10			500	25sks to Pit
	-				23,23,10,711
	13,2			300	Shat Down-Shatin
					Wash Truck
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					Job Complete
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				/	Job Complete Thank ye Britt, Deve, + Brian
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ALLIED CEMENTING CO., LLC. 036791

SERVICE POINT:

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 Great Benily RUSSELL, KANSAS 67665 JOB START JOB FINISH CALLED OUT ON LOCATION RANGE SEC. DATE 8-3-10 10:30 B 100000 STATE COUNTY LOCATION Alexzand - 4 East Kush WELL# / - 18 LEASE Dotty South To a RD I west 45 winter OLD OR NEW (Circle one) OWNER American warrier Ris 1 CONTRACTOR Det - man & TYPE OF JOB Ratary Plas **CEMENT** HOLE SIZE 7 7 T.D. AMOUNT ORDERED 2205x 60/40 4% DEPTH **CASING SIZE** Gel 4 + TIOSFEL DEPTH **TUBING SIZE** 1560 **DEPTH** DRILL PIPE **DEPTH** TOOL @ COMMON_____ MINIMUM PRES. MAX @ POZMIX ____ **SHOE JOINT** MEAS. LINE @ CEMENT LEFT IN CSG. GEL : CHLORIDE @ @ BBLS DISPLACEMENT @ **EQUIPMENT** @ @ CEMENTER Wayue - D PUMP TRUCK @ HELPER BOW-R # 181 (a) BULK TRUCK @ DRIVER # 344 @ **BULK TRUCK** @ DRIVER @ HANDLING_ MILEAGE _ TOTAL **REMARKS:** 13 blue 1560 mix 505x Dis 58815 H35 13 BBLS Ris mad 201 plue 630 mix 805x Dis 2,25 **SERVICE** 3-4 DI4 & 260 MIX SOCX D. 25 DEPTH OF JOB 1560 Plus GO MIX 205X DIS. 25 PUMPTRUCK CHARGE @ Ka+ mix 300X EXTRA FOOTAGE @ MILEAGE @ MANIFOLD _ @ @ CHARGE TO: Purerican warrio-TOTAL ___ STREET _____ CITY_____STATE____ZIP_ PLUG & FLOAT EQUIPMENT @ _@ 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 TOTAL ____ done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL SALES TAX (If Any) TERMS AND CONDITIONS" listed on the reverse side. TOTAL CHARGES _____ IF PAID IN 30 DAYS PRINTED NAME Someth G. Bonch DISCOUNT _ Kundle Rom