

Kansas Corporation Commission Oil & Gas Conservation Division

1054148

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 🗌 East 🗌 West
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 Plug Back: Plug Back Total Depth Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name: License #: Quarter Sec Twp S. R East West
ENHR Permit #:	County: Permit #:
Spud Date or Recompletion Date 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 I II Approved by: Date:

Side Two



Operator Name: _ Lease Name: _ _ Well #: _ 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 Wireline Logs surveyed. Attach final geological well site report. **Drill Stem Tests Taken** Yes No Log Formation (Top), Depth and Datum Sample (Attach Additional Sheets) Name Top Datum Samples Sent to Geological Survey ☐ Yes □ No Cores Taken Yes No Electric Log Run Electric Log Submitted Electronically Yes No (If no, Submit Copy) List All E. Logs Run: CASING RECORD Used New Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight # Sacks Type and Percent Type of Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Additives Depth Cement Used ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth TUBING RECORD: Size: Set At: Packer At: Liner Run: No Yes Producing Method: Date of First, Resumed Production, SWD or ENHR. Pumping Gas Lift Other (Explain) Flowing **Estimated Production** Bbls. Water Bbls. Gas-Oil Ratio Oil Gas Mcf Gravity Per 24 Hours **DISPOSITION OF GAS:** METHOD OF COMPLETION: PRODUCTION INTERVAL: Open Hole Dually Comp. Perf. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.)

Other (Specify)

Form	ACO1 - Well Completion								
Operator	American Warrior, Inc.								
Well Name	Elton 4-5 Unit								
Doc ID	1054148								

Tops

Name	Тор	Datum				
Anhydrite	1345	788				
Heebner	3592	-1459				
Lansing	3635	-1502				
ВКС	3958	-1825				
Pawnee	4044	-1911				
Ft. Scott	4114	-1981				
Cherokee	4132	-1999				
Mississippian	4210	-2077				
TD	4226	-2093				

Geological Report

American Warrior, Inc.

Elton Unit #4-5
375' FNL & 85' FEL
Sec. 5 T19s R21w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Elton Unit #4-5 375' FNL & 85' FEL Sec. 5 T19s R21w Ness County, Kansas API # 15-135-25077-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason Alm
Spud Date:	September 3, 2010
Completion Date:	September 11, 2010
Elevation:	2127' Ground Level 2133' Kelly Bushing
Directions:	Bazine KS, South on DD rd to 100 rd, East to EE rd, South to 115 rd. East ½ mi. South and East into location.
Casing:	1367' 8 5/8" surface casing 4225' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "Brett Becker CNL/CDL, DIL
Drillstem Tests:	Two, Trilobite Testing, Inc. "Dustin Rash"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc.
	Elton Unit #4-5
	Sec. 5 T19s R21w
Formation	375' FNL & 85' FEL
Anhydrite	1345', +788
Base	1380', +753
Heebner	3592', -1459
Lansing	3635', -1502
BKc	3958', -1825
Pawnee	4044', -1911
Fort Scott	4114', -1981
Cherokee	4132', -1999
Mississippian	4210', -2077
LTD	4226', -2093
RTD	4227', -2094

Sample Zone Descriptions

Cherokee "A" Sand (4136', -2003): Covered in DST #1

Ss – quartz, fine grained, fairly sorted, sub-rounded, fairly cemented with poor to fair inter-granular porosity, light to fair oil stain and saturation, show of free oil when broken, light yellow fluorescents, no odor, 32 units hotwire.

Mississippian Osage (4210', -2077): Covered in DST #2

Dolo – Δ – Fine to medium sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, heavy chert, triptolic, heavily weathered with good vuggy porosity, light to good oil stain and saturation, show of free oil, good odor, scattered bright yellow fluorescents, 90 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Dustin Rash"

DST #1 Cherokee "A" Sand

Interval (4131' – 4150') Anchor Length 19'

IHP - 2059 #

IFP - 30" - W.S.B. 17-17 #
ISI - 30" - Dead 96 #
FFP - 10" - Dead 18-20 #

FHP - 2135 # BHT - 111°F

Recovery: 3' Mud

DST #2 <u>Mississippian Osage</u>

Interval (4217' – 4227') Anchor Length 10'

IHP - 2119 #

IFP - 10" - B.O.B. 3 min. 51-206 #
ISI - 30" - W.S.B. 1204 #
FFP - 10" - B.O.B. 3 min. 196-312 #
FSI - 30" - W.S.B. 1179 #

FHP - 2099 # BHT - 123°F

Recovery: 120' GIP

150' GOCWM 10% Oil, 40% Water 540' GOCMW 10% Oil, 75% Water

60' WM

Structural Comparison

	American Warrior, Inc.	American Warrior, Inc.		Martin Exploration Co.		
	Elton Unit #4-5	Olson #1-5		Margheim #1		
	Sec. 5 T19s R21w	Sec. 5 T19s R21w		Sec. 4 T19.s R21w		
Formation	375' FNL & 85' FEL	2302' FSL & 2310' FEL		C SE NW		
Anhydrite	1345', +788	1399', +781	(+7)	1424', +776	(+12)	
Base	1380', +753	1432', +748	(+5)	1453', +747	(+6)	
Heebner	3592', -1459	3644', -1464	(+5)	3670', -1470	(+11)	
Lansing	3635', -1502	3689', -1509	(+7)	3715', -1515	(+13)	
BKc	3958', -1825	4014', -1834	(+9)	NA	NA	
Pawnee	4044', -1911	4090', -1910	(-1)	4127', -1927	(+16)	
Fort Scott	4114', -1981	4164', -1984	(+3)	4198', -1998	(+17)	
Cherokee	4132', -1999	4181', -2001	(+2)	4216', -2016	(+17)	
Mississippian	4210', -2077	4263', -2083	(+6)	4302', -2102	(+25)	

Summary

The location for the Elton Unit #4-5 was found via 3-D seismic survey. The new
well ran structurally as expected via the survey. Two drill stem tests were conducted one
of which recovered commercial amounts of oil from the Mississippian Osage Formation.
After all gathered data had examined the decision was made to run 5 1/2 inch production
casing to further evaluate the Elton Unit #4-5 well.

Recommended Perforations

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Mississippian Osage (4210' – 4216') DST #2

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.

Jason Alm Petroleum Geologist P.O. Box 1260 Hays, KS 67601

APT # 15-135-25077-0000

SAMPLES SAVED FROM COMM: 10:3-2010 Applyclore GEOLOGICAL SUPERVISION FROM SAMPLES EXAMINED TROM CONTRACTOR Letromack WALLING TIME KEPT FROM MUD UP 3400' SEC. FIELD OPERATOR AMERICAN Jechoice COUNTY Ness BK CANS LOCATION 375 FNL 625 FEL Lease -Property Coff or to Ker FORMATION Wildcat Elton Unit 3638' -1502 3958' -1825 1987' -1825 1988' -1825 _ TwP._ 렿 359Z - 1459 345 3500 န - COMPL 3500 DRILLING TIME AND SAMPLE LOG 10 TQL 201 3500' +788 +753 TYPE MUD Chemics! Deiling 11-2010 3600' TO RTI MICK 195 STATE Kansas Warrior, Lnc. GEOLOGIST'S REPORT SAMPLE **ਰ** 3562"-1459 + 5 3638"-1505 + 7 3960"-1827 + 9 4042"-1905 - 1 - WELL NO. 4-5 4276 H148-1585 1348 +785 _ po __RITO ا ا RGE ZIE RIB MULVO RTD Rig #1 STRUCT. PRODUCTION 5/2 P 4/27 SURFACE 8 1/8 1/8 1/367 KB_2133' From Kelly Measurements Are A GL 2127 ELECTRICAL SURVEYS CNY/CDL, DIT Log Tech CASING RECORD ELEVATION Bushir 9 ۶

REFERENCE WELL FOR STRUCTURAL COMPARISON

Ulson #1.5

2302 ESLS 2310 EEL

America

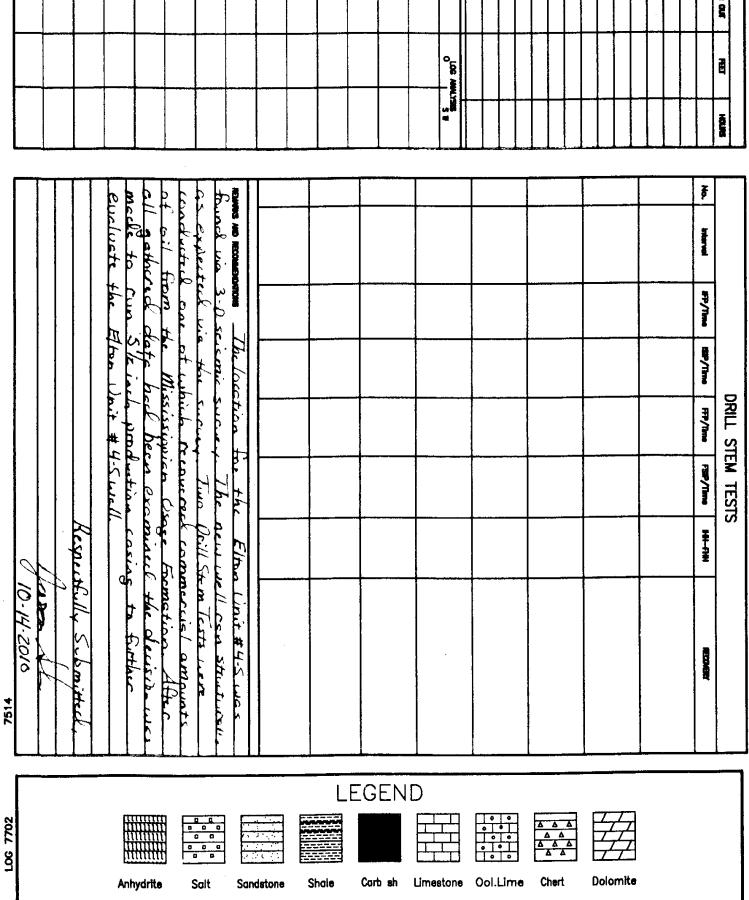
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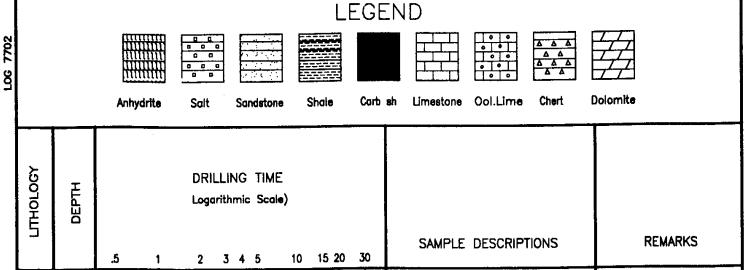
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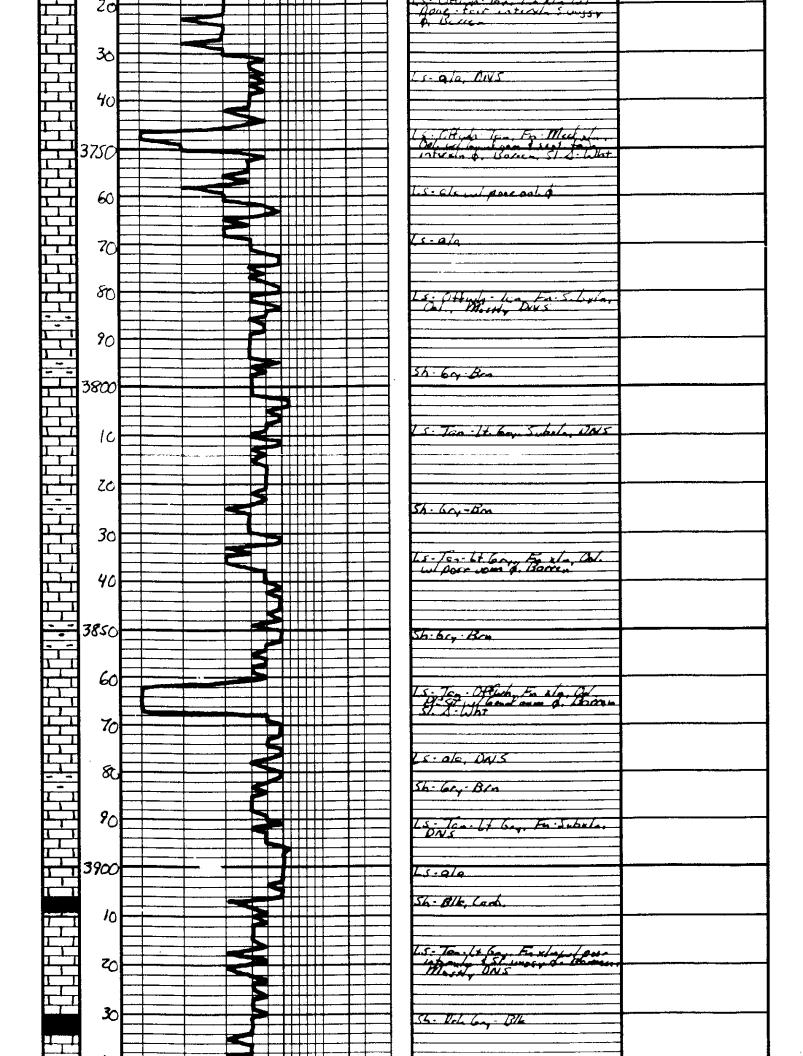
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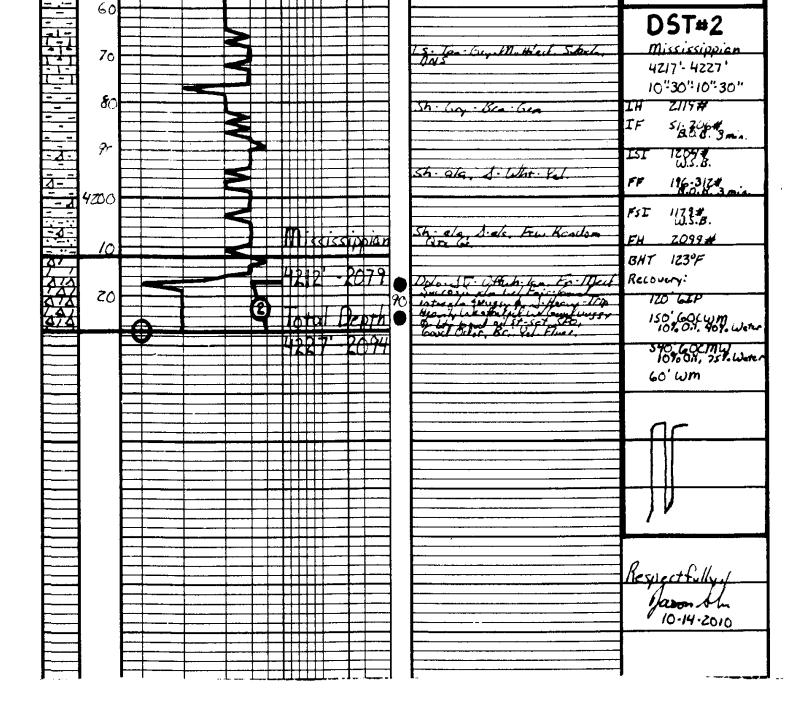




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TICKET 19076

	DATE SIGNED 46CT 1D	START OF WORK OR DELIVERY OF GOODS	MUST BE SIGNED BY CLISTOMER OR CLISTOMER'S AGENT BRICE TO	but are not limited to, PAYI	the terms and conditions on t	LEGAL TERMS: Customer	583	881	330	276	290	22/	281	410	4/2	409	576D	575	PRICE SECO	THE PROPERTY OF	A.	3	2.	SERVICE LOCATIONS	Services,
	TIME SIGNED / OD P.M.	OODS	VISIONS.	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to								•					SECONDARY REFERENCE/ ACCOUNTING PART NUMBER LOC ACCT	INVOICE INSTRUCTIONS	ľ	WELL TYPE WELL	CONTRACTOR	WELL/PROJECT NO. LEASE	Inc.
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SWIFT OPERATOR

Goo & Rosell

Thank You!

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SWIFT Services, Inc.



CUSTOMER DMERICAN WARRIDE JOB TYPE CEMENT 85/8 TICKET NO. 19076 LEASE LITON 4.5 WELL NO. PRESSURE (PSI) VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS ON LOCATION 1910 START PIPE 878-23" 2130 RIDEISOP SETE 1369 CENTRALIZERS 1.4.9.28 2304 CIRCULATE. 12 200 Punp 500 SAC M/UD FLUSH 2323 وا 20 6 Pump 20 BOR KCL FLUSH 2329 MIX CEMENT. 46 1005x@11.8006 1505×@ 12,5 pp6 100 S.@ 13,5 PPG 100 SX@ 14,5 pp6. 26 RELEASE PLUG START DISPLACEMENT 6 000b PLUG DOWN. CIRCULATE 25 SX TO PIT 83 14600 WASHTRUCK JOB COMPLETE 0100 THANKS #110 JASON JEFF LANE



CITY, STATE, ZIP CODE

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Services, Inc.	S, IRC.						۶
SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE		STATE	CITY	DATE OWNER	
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.2	TICKET TYPE CONTRACTOR			SHIPPED	SHIPPED DELIVERED TO	ORDER NO.	
	SERVICE PETRO	BALES PETROMARK DRILLING		×	LOCATION		
	WELL TYPE	WELL CATEGORY JOB F	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
4	016	DE VELOPMENT	5 & LOWSTRING	-		RS. IE WN DE NAVIO	アンナンプ
REFERRAL LOCATION	INVOICE INSTRUCTIONS						3
PRICE SEC	SECONDARY REFERENCE/ ACCOUNTING	NTING					

	DATE SIGNED	START OF WORK OR JELL	MUST BE SIGNED BY CHST	but are not limited to, PAYMENT,	the terms and condi	LEGAL TERMS: C	 			221	28)	419	407	406	403	402	578	575	PRICE
	TIME SIGNED	START OF WORK OR WELVERY OF GOODS	TOMER OR CUSTOMER'S AGENT PRICE	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to		ķ											SECONDARY REFERENCE/ PART NUMBER
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/00-/30-/20V	>	P.O. BOX 466	SWIFT SERVICES, INC. PERFO						÷	LIDENS KCL	MUD FLUSH	ROTATING HEAD RENTAL	LUSERT FLOGT SHOT WIGHTO FILL	LATEH DOWN PLUG & BASTIC	CEMENT BASKET	CENTRALIZERS	Pump CHARGE	MILEAGE B //()	DESCRIPTION
])U SATISFIE	-RATED THI REORMED ATIONS ACTORILY?	RVICE WAS	IET YOUR NEEDS?	UR EQUIPMENT PERFO	SURVEY													
CHETOMES DID NOT WISH TO BESSE	RE YOU SATISFIED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	OUT DELAY?	AND P	UR EQUIPMENT PERFORMED TTHOUT BREAKDOWN?	EY			_	218	500 k	/tsus	184	1/4	1 ka	5 KA		100 mil	αιν. υ
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SWIFT OPERATOR

TOMER ACCEPTANCE OF MATERIALS AND SERVICES 💎

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

APPROVAL



TICKET CONTINUATION

NO. 19083

283 290 292 PO Box 466 Ness City, KS 67560 Off: 785-798-2300 FLOCELE STAUDARD CEMENT 1255 CRISTAL CUSTOMER CRICAN WARRIOR DIAIR HALAD SZZ LOVDED WILES CUBIC FEET 17 SETTIN NO. Ecton and 4-5 900ills 44/16 HE を **※** 次 1/65 175sx <u>8085||8</u> DATE 1 DOTION PAGE العا 31(7) <u>8</u> 3 8 397400 R B 250 99 SIDDIS 5 898 S کے 8

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SWIFT Services, Inc.



DATE / DOT 10 PAGE N

CUSTOMER	alu hadi	RRIDR	WELL NO.		LEASE	LINIT	4-5 JOB TYPE 5 & LONGSTRING	TICKET NO. 19083
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION	
	1115						ON LOCATION	
	1215		,				START PIPE 52-1	5.5
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							SET @ 4226 SHOES	
							CENTRALITERS 1,2,34	80
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	1400						DROP BAU CIRCULATE.	
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	1428	<u> </u>	20			<u> </u>	Pump SODGE MUD Pump 20 Ble KCL	
	7750						J avvi or or just just just just just just just just	COU
	1434	2	7				PLUGRH (305X)	
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٠	1438	4	35	~			MIX CEMENT 1455 F	A2 @ 15.5006
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,	1449					ļ	RELEASE PLUG	
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	1450					<u> </u>	WASH OUT Pump LINI	55.
	1455	le			 		Since Decrees	· · · · · · · · · · · · · · · · · · ·
	1723	U	1				START DISPLACEMENT	
	1512	B	993			1500	PLUG DOWN PRESSURE L	o losa Pour El
	1,3,00		1 / 2			7300	TANGE ODDN TRISONEL	PZANA ICOCIN
	1515			7			RELEASE PRESSURE DE	?u
	1517						WASH TRUCK.	
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	1545		_				JOB COMPLETE	·
								
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ADDRESS	

19090

PART NUMBER	NCE/	REFERRAL LOCATION INVOICE INSTRUCTIONS	OIL	WELL TYPE	SALES SALES	TICKET TYPE CONTRACTOR	丄	SERVICE LOCATIONS WELLIPROJECT NO.	Services, IIIC.
LOC ACCT DF	ACCOUNTING		DEVENDENT	WELL CATEGORY			L	LEASE	
CEGORYTON			CEMENT AUNULUS	JOB PURPOSE	VA	RIG NAMENO. SHIPPED	ELTON 4-5 NESS 115.	COUNTY NAMED STATE	
QTY. UM			-	WELL PERMIT NO.	LOCATION	DELIVERED TO	BAZINE KS	слу	
QTY.					کے		KS		
U/M PRICE	TIMU	,	スズボ	WELL LOCATION		ORDER NO.	190071	DATE	
ICE AMOUNT			なをなるがりたいつ	SN.			0	OWNER	_

1/08	DATE SIGNED	START OF WORK OR DELIVERY OF GOODS	LIMITED WARRANTY provisions	the terms and cond	LEGAL TERMS: (58%	283	330	276			290	577	575	PRICE
10 1 1100	TIME SIGNED	START OF WORK OR DELIVERY OF GOODS X Scott	LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to													SECONDARY REFERENCE/ PART NUMBER
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70-790-2300		In as a	SWIFT SERVICES, INC. PERFORMED WITH	TEMIL TAYMENI IO: OUR EQUIL					MINIMUM DRAYAGE	SERVICE CHARGE CEMPENT	SWIFT MULTI DEUSITY STANDARD	FLOCELL			D-AIR	Fump CHARGE	MILEAGE# 110	DESCRIPTION
CUSTOMER DID NOT WISH TO RESPOND	ARE YOU SALISHED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT WID PERFORMED JOB MAILULATIONS MAISFACTORILY?	WE UNDERSTOOD AND MET YOUR NEEDS? JUR SERVICE WAS PERFORMED WITHOUT DELAY?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY				12392 Jbs	125	125	33					Q	QTY.
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

Thank You!

JOB	LOG

SWIFT Services, Inc.

DATE/9001/0 PAGEN

USTOMER YMERV	ALV LAS	RRIDR	WELL NO.		LEASE	N 4-	5 JOB TYPE EMENT AUNULUS.	TICKET NO. 19090
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUI TUBING		DESCRIPTION OF OPERATION AN	
	1515	(OF M)	[ODL) (GAL)		TOBING	CASING	DN LOCATION	
	1530					500	PRESSURE UP CASING SHUT	IN.
	1550	2/2			1	400	TAKE INJECTION RATE	
							MIX CEMENT	
		3	29		-		755x@12.5006	
		3	24			400	505 C11.7 Pp6.	
	11.715				1.	<u> </u>		
	/630						SHUT AUDULUS IN.	
						 		
	1135					<u> </u>	WASHTRUCK	· · · · · · · · · · · · · · · · · · ·
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DRILL STEM TEST REPORT

American Warrior

Elton #4-5

P.O. Box 399

5/19S/21W-Ness

DST#: 1

Garden City, KS 67846

ATTN: Jason Alm

Job Ticket: 41080

Test Start: 2010.10.10 @ 01:35:38

GENERAL INFORMATION:

Formation: Cherokee 'A' Sand

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

Time Tool Opened: 04:21:38 Tester: Dustin Rash

Time Test Ended: 07:17:08 Unit No: 42

4131.00 ft (KB) To 4150.00 ft (KB) (TVD) 2131.00 ft (KB) Interval: Reference Elevations:

Total Depth: 4150.00 ft (KB) (TVD) 2127.00 ft (CF)

7.88 inches Hole Condition: Poor Hole Diameter: KB to GR/CF: 4.00 ft

Serial #: 8652 Outside

Press@RunDepth: 17.69 psig @ 4133.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2010.10.10 End Date: 2010.10.10 Last Calib.: 2010.10.10 Start Time: 01:35:43 End Time: 07:17:07 Time On Btm: 2010.10.10 @ 04:19:38

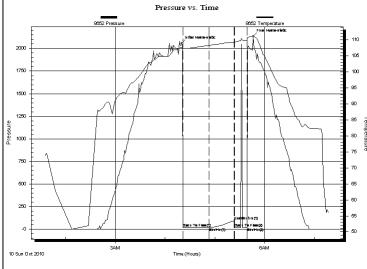
2010.10.10 @ 05:46:08 Time Off Btm:

TEST COMMENT: IF-Very weak surface blow. Died after 11 minutes.

ISI-No Return.

FF-No blow . Flushed tool. No blow .

FSI- Pulled tool.



PI	RESSUR	E SUMMARY
Pressure	Temp	Annotation

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2059.37	107.72	Initial Hydro-static
	2	17.21	107.14	Open To Flow (1)
	34	17.69	108.30	Shut-In(1)
	64	96.34	109.31	End Shut-In(1)
Ten	64	18.10	109.25	Open To Flow (2)
Temperature	79	20.13	109.96	Shut-In(2)
ure	87	2135.99	111.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	100% Mud	0.01

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 41080 Printed: 2010.10.11 @ 08:48:52 Page 1



DRILL STEM TEST REPORT

FLUID SUMMARY

ppm

American Warrior

Elton #4-5

P.O. Box 399

5/19S/21W-Ness

Serial #:

Garden City, KS 67846

Job Ticket: 41080 **DST#:1**

Water Salinity:

ATTN: Jason Alm Test Start: 2010.10.10 @ 01:35:38

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight:9.00 lb/galCushion Length:ftViscosity:51.00 sec/qtCushion 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
3.00	100% Mud	0.015

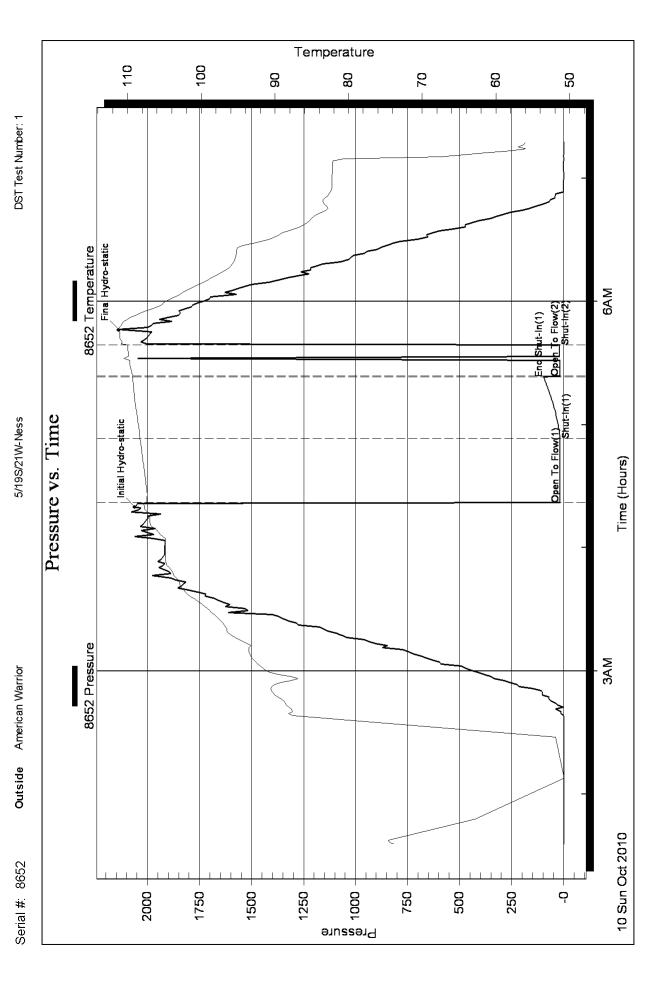
Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 41080 Printed: 2010.10.11 @ 08:48:53 Page 2



Page 3 Printed: 2010.10.11 @ 08:48:53 41080 Ref. No:

Trilobite Testing, Inc



DRILL STEM TEST REPORT

American Warrior

Elton #4-5

P.O. Box 399

5/19S/21W-Ness

Job Ticket: 41081

DST#: 2

ATTN: Jason Alm

Garden City, KS 67846

Test Start: 2010.10.10 @ 14:03:28

GENERAL INFORMATION:

Formation: Mississippian

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

Time Tool Opened: 16:51:58

Tester: Dustin Rash
Time Test Ended: 22:13:28

Unit No: 42

Interval: 4217.00 ft (KB) To 4227.00 ft (KB) (TVD) Reference Elevations: 2131.00 ft (KB)

Total Depth: 4227.00 ft (KB) (TVD) 2127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 4.00 ft

Serial #: 6625 Inside

Press @RunDepth: 311.88 psig @ 4219.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2010.10.10
 End Date:
 2010.10.10
 Last Calib.:
 2010.10.10

 Start Time:
 14:03:33
 End Time:
 22:13:27
 Time On Btm:
 2010.10.10 @ 16:50:58

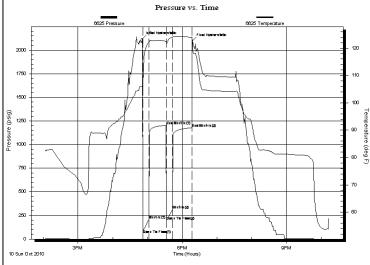
 Time Off Btm:
 2010.10.10 @ 18:17:58

TEST COMMENT: IF-Strong building blow . BOB in 3 minutes.

ISI- Return after 16 minutes. Built to 1/4 inch.

FF- Strong blow . BOB in 3 minutes.

FSI- Return after 26 minutes. Built to 1/4 inch.



1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2119.40	106.02	Initial Hydro-static
	1	50.85	105.74	Open To Flow (1)
	12	206.22	121.95	Shut-In(1)
Ţ	42	1204.13	122.50	End Shut-In(1)
Temperature	42	196.33	122.12	Open To Flow (2)
	52	311.88	123.85	Shut-In(2)
(dea F	86	1178.81	123.92	End Shut-In(2)
פ	87	2099.61	119.39	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
60.00	60%Mud/40%Water	0.30
540.00	%5Mud/75%Water/10%Oil/10%Gas	7.57
150.00	40%Mud/40%Water/10%Oil/10%Gas	2.10
	-	

Gas Rates Choke (inches) | Pressure (psig) | Gas Rate (Mct/d)

Trilobite Testing, Inc Ref. No: 41081 Printed: 2010.10.11 @ 08:47:36 Page 1



DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Elton #4-5

P.O. Box 399

5/19S/21W-Ness

Garden City, KS 67846 Job Ticket: 41081

DST#: 2

ATTN: Jason Alm

Test Start: 2010.10.10 @ 14:03:28

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 71.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 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
60.00		60%Mud/40%Water	0.295
İ	540.00	%5Mud/75%Water/10%Oil/10%Gas	7.575
İ	150.00	40%Mud/40%Water/10%Oil/10%Gas	2.104

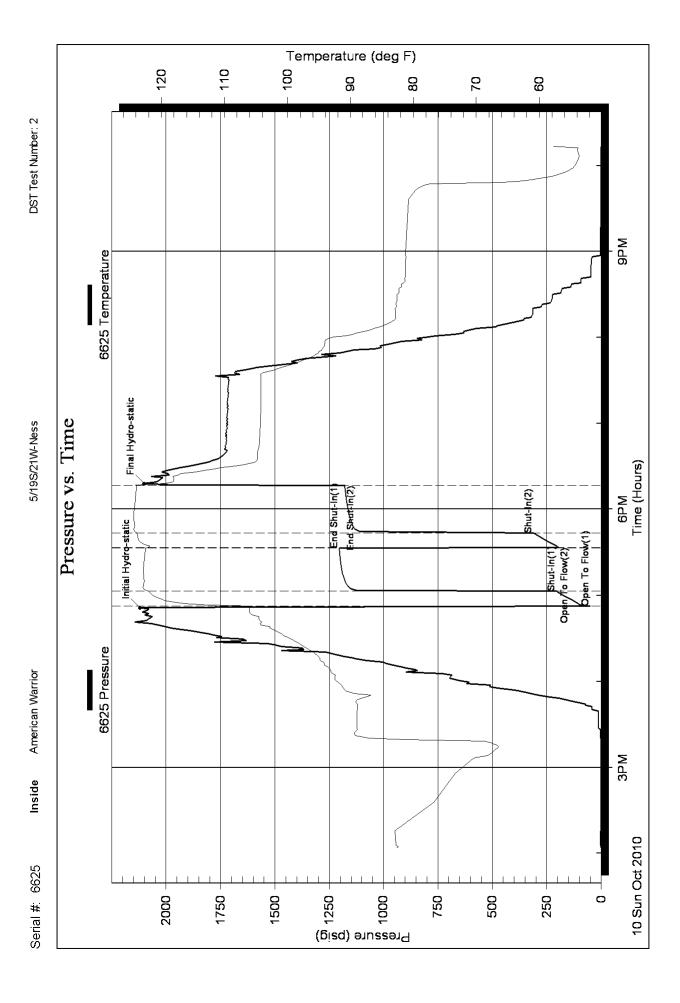
Total Length: 750.00 ft Total Volume: 9.974 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 41081 Printed: 2010.10.11 @ 08:47:36 Page 2



Trilobite Testing, Inc

Page 3