Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1186053

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 #	API No. 15
Name:	Spot Description:
Address 1:	Sec TwpS. R East West
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workd	
Oil WSW SWD Gas D&A ENHR OG GSW CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows: Operator:	If yes, show depth set: Feet If Alternate II completion, cement circulated from: feet depth to: w/ sx cmt.
Plug Back Conv. to GSW Conv	
Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Dewatering method used:
ENHR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	On Date or Quarter Sec TwpS. R East West etion Date 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:

	Page Iwo	1186053
Operator Name:	Lease Name:	Well #:
Sec TwpS. R	County:	
INCTRUCTIONS: Chain important tang of formations paratrated De	tail all aaraa Danart all final	appiag of drill stamp tasta giving interval tastad time tast

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 (Attach Additional Sheets)		Yes No		Log Formatio	n (Top), Depth an), Depth and Datum	
Samples Sent to Geological Survey		Yes No	Nar	ne		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-		lew Used termediate, producti	on, etc.		
Purpose of String	Purpose of String Size Hole Drilled		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SC	UEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 an	d 3)

Did you perform a hydraulic fracturing treatment on this well?
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

(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					е			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:	t: Packer At: Liner Run:				No		
Date of First, Resumed	Producti	on, SWD or ENHF	۲.	Producing M	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours			Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity	
DISPOSITION OF GAS:			METHOD OF COMPLE		TION:		PRODUCTION INTE	RVAL:		
Vented Sold	Vented Sold Used on Lease			Open Hole	Perf.	Uually (Submit)	Comp.	Commingled		
(If vented, Sul	bmit ACO	-18.)		Other (Specify)		(Submit)	,	(Submit ACO-4)		

Yes

Yes

No

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Raymond 1-21 Unit
Doc ID	1186053

Tops

Name	Тор	Datum
Anhydrite	1387	760
Heebner	3616	-1469
Lansing	3662	-1515
Base Kansas City	3992	-1845
Pawnee	4058	-1911
Fort Scott	4133	-1986
Cherokee	4152	-2005
Mississippian	4254	-2107
RTD	4263	-2116

	IL & GAS SER	VICES, LLC				MENTING LOG STAGE NO.
11.2.	17	1. 1	15.	1.192		CEMENT DATA:
· / ···	District			cket No. 6194		2 2 1A
npeny <u>r</u> y	novilen was	<u> </u>	Rij	9 <u> </u>		Amt Sks Yield ft³/sk Density P
my N				tate KS		
	ine 2E	IN 1/4	And a second second	eid	L	LEAD: Pump Time hrs. Type
into						Excess
SING DATA:	Conductor], рт	A 🗗 🛛 S	Squeeze 🔲 Mis		Amt Sks Yield ft³/sk Density I
	Surface [] Intermedia	ite 🔲 Pro	oduction 🔲 Line	er 🗋 🛛 1	TAIL: Pump Time hrs. Type 63/43 47.
·	Туре	Weigh	nt	Collar		"/4 F / J Excess Amt. 7.3.0 Sks Yield 1.4.3 ft³/sk Density 1.4.5 F
	$\wedge (A)$			<u>é</u> (*)		Amt. 7.3.5 Sks Yield 1.9.9.5 ft³/sk Density 1.97.7 F WATER: Lead
		· · · · ·		. Š	* * ₁ .7	VVATEN: L980 gais/ sk tall gais/ sk total t
ing Depths: 1	(op		Bottom		F	Pump Trucks Used 7 95 - 1-1. He
ing Dopulo.		· · · · · · · · · · · · · · · · · · ·				Bulk Equip. 473-187- 750 6
				- /		
					·	
Pipe: Size _	41/2	Weight _	16.6	Collars <u>y-h</u>		
n Hole: Size	12/14	T.D	ft. I	P.B. to		Float Equip: Manufacturer
ACITY FACT		-127		W 1575	`	Shoe: Type Depth Float: Type Depth
ng:	Bbls/Lin. ft		Lin. ft./8 , Lin. ft./8			Float: Type Depth Centralizers: Quantity Plugs Top Btm
n Holes: Pipe:	Bbls/Lin. ft Bbls/Lin. ft	ald 3		вы. <u>7272</u>		Stage Collars
nipe: ulus:	Bols/Lin. ft			3bl		Special Equip.
	Bbls/Lin. ft		Lin. ft./8			Disp. Fluid Type Amt Bbls. Weight
iorations:	From	ft, to_		ft. Amt		Mud Type Weight Weight
MPANY REP	RESENTATIVE					
MPANY REP TIME	PRESSU					CEMENTER C
		RES PSI ANANULUS	FLL TOTAL FLUID	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	REMARKS
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TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
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TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS 3N 62 (07, 30 - R.'s 40 He of 40 67 y MEET, 1.9 Run Ling drill pipe Fill bole with Right And 11, 2Kyp cenes 7 proge 1. 1460 - 50 KK 2. 1060 - 50 KK
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS 3N 62 (07, 30 - R.'s 40 He of 50 67, MEET, 1.9 Run Ling drill pipe Fill bole with Right And 11, 2Kyp cenest prope 1 1960 - 50 5KC 2 1060 - 50 5KC
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS DN 62 COT, 20 - R.'s 49 He of 50 674 MET, 1.9 Run 61/2 drill pipe Fill 60 6 44 600 1 110 2Kyp Cone of prope 1. 1460 - 50 4Ks 3. 240 - 50 4Ks
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS DN 62 COT, 20 - R.'s 49 He of 50 674 MET, 1.9 Run 61/2 drill pipe Fill 60 6 44 600 1 110 2Kyp Cone of prope 1. 1460 - 50 4Ks 3. 240 - 50 4Ks
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS DN 62 COT, 20 - R.'s 49 He of 50 674 MET, 1.9 Run 61/2 drill pipe Fill 60 6 44 600 1 110 2Kyp Cone of prope 1. 1460 - 50 4Ks 3. 240 - 50 4Ks
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TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	REMARKS
TIME	PRESSU		TOTAL	Pumped Per	RATE	$\frac{\text{REMARKS}}{3 \times 1/3} = \frac{2}{1} \frac{1}{1} 1$
TIME	PRESSU		TOTAL	Pumped Per	RATE	$\frac{\text{REMARKS}}{2 \text{ Mag bits}} = \frac{1}{2} \frac{1}$
TIME	PRESSU Dral L'Arpe CASINIG		TOTAL	Pumped Per	RATE	$\frac{\text{REMARKS}}{3 \times 1/3} = \frac{2}{1} \frac{1}{1} 1$
TIME	PRESSU Dral L'Arpe CASINIG		TOTAL	Pumped Per	RATE	$\frac{\text{REMARKS}}{3 \times 1/3} = \frac{1}{1} 1$

REMIT TO P.O. B SOUTH	OX 93999 ILAKE, TEXAS 760	92		SERV	ICE POINT:	Bendyks
	SEC. TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 11313	21 185	2/4			9:00AM	10:004
Raymond LEASE	WELL# 1-21	LOCATION BOZIN	e ZE IN	1 7/4E	COUNTY	STATE KS
OLD OR NEW (Ci	rcle one)	N.'ATD				
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	DRIVER Joe 6	andfan	·	· · · · · · · · · · · · · · · · · · ·	_@	- <u> </u>
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REMIT TO P.O.	BOX 93999			CEDI	ICE POINT:	
SOUT	THLAKE, TEXAS 760)92		JEN	Stear	Benp
DATE RAY MOND	3 SEC. TWP. 21 18	RANGE 214	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 7:30 PM
LEASE	WELL# 1-21	LOCATION FF	ROEOFB		COUNTY	STATE
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DRILL STEM TEST REPORT

Prepared For:

American Warrior

3118 Cummings Rd Garden City, KS 67846

ATTN: Jason Alm

Raymond #1-21 Unit

21-18s-21w Ness,KS

 Start Date:
 2013.11.02 @ 06:41:43

 End Date:
 2013.11.02 @ 13:01:43

 Job Ticket #:
 54963
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 Cherokee A Sand

2013.11.02

RILOBITE	DRILL STEM TES	ST REP	ORT				
	American Warrior		21-1	8s-21w	Ness, KS	6	
ESTING , INC	STID Cummings Nu		Ray	mond #	#1-21 Un	it	
	Garden City, KS 67846		Job T	Ficket: 54	963	DST	#:1
	ATTN: Jason Alm		Test	Start: 20	13.11.02 @	06:41:4	3
GENERAL INFORMATION:							
Formation:Cherokee A SandDeviated:NoWhipstock:Time Tool Opened:09:06:13Time Test Ended:13:01:43	ft (KB)		Test Teste Unit N	er: E	Convention Brandon Tu 60		Hole (Initial)
Interval:4146.00 ft (KB) ToTotal Depth:4180.00 ft (KB) (KB)Hole Diameter:7.88 inches Hole			Refei	rence Ele [.] KB to	vations: o GR/CF:	2141.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8373 Inside							
Press@RunDepth:277.52 psigStart Date:2013.11.02Start Time:06:41:48	End Date:	2013.11.02 13:01:42	Capacity: Last Calib. Time On B Time Off E	Stm: 2	2013.11.02 2013.11.02	2013.11. @ 09:04:	43
TEST COMMENT: IF: BOB in 8 min IS: No return. FF: BOB in 11 n FS: No return.							
Pressure vs T \$33 Pressure	Time T 8373 Tempendure		PR	ESSUR	E SUMM		
2000	Rual Hydro Hall	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotati	on	
1750		0	2081.86 51.44	104.51 104.02	Initial Hyd Open To I		
100 Jan 1		2 30	180.81		Shut-In(1)	• •	
2 m		61	652.63		End Shut-	. ,	
		62 91	182.52 277.52		Open To I Shut-In(2)		
		123	622.29	118.98	End Shut-		
		124	2055.04	118.35	Final Hydi	o-static	
2 Sal Nov 2013 Time (Hour							
Recovery	I				s Rates		T1
Length (ft) Description	Volume (bbl)			Choke (in	nches) Press	ure (psig)	Gas Rate (Mcf/d)
372.00 mcw 95%w 5%m 155.00 w cm 20%w 80%m	4.14						
	2.11						

	DRILL STEM TES	ST REP	ORT			
RILOBITE	American Warrior		21-18s-21	w Ness,K	S	
ESTING , INC	o i io cantingo i ta		Raymone	d #1-21 Ur	nit	
	Garden City, KS 67846		Job Ticket:	54963	DST	#: 1
	ATTN: Jason Alm		Test Start:	2013.11.02	@ 06:41:43	3
GENERAL INFORMATION:						
Formation:Cherokee A SandDeviated:NoWhipstock:Time Tool Opened:09:06:13Time Test Ended:13:01:43	ft (KB)		Test Type: Tester: Unit No:	Conventio Brandon T 60		Hole (Initial)
Interval:4146.00 ft (KB) To4Total Depth:4180.00 ft (KB) (ToHole Diameter:7.88 inches Ho			Reference Kl	Elevations: B to GR/CF:	2141.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8356 Outside						
Press@RunDepth:psigStart Date:2013.11.02Start Time:06:41:36	End Date:	2013.11.02 13:01:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000. 2013.11.	00 psig 02
TEST COMMENT: IF: BOB in 8 mir IS: No return. FF: BOB in 11 r FS: No return.						
Pressure vs. 500 Pressure	Time A355 Temperature		PRESSI	JRE SUM	MARY	
828 Presure 500 500 500 500 500 500 500 50			Pressure Temp (psig) (deg F		ition	
Recovery			G	Sas Rates		
Length (ft) Description	Volume (bbl)		Chok	e (inches) Pres	ssure (psig)	Gas Rate (Mcf/d)
372.00 mcw 95%w 5%m 155.00 w cm 20%w 80%m	4.14 2.17					
	Ref. No: 54963					

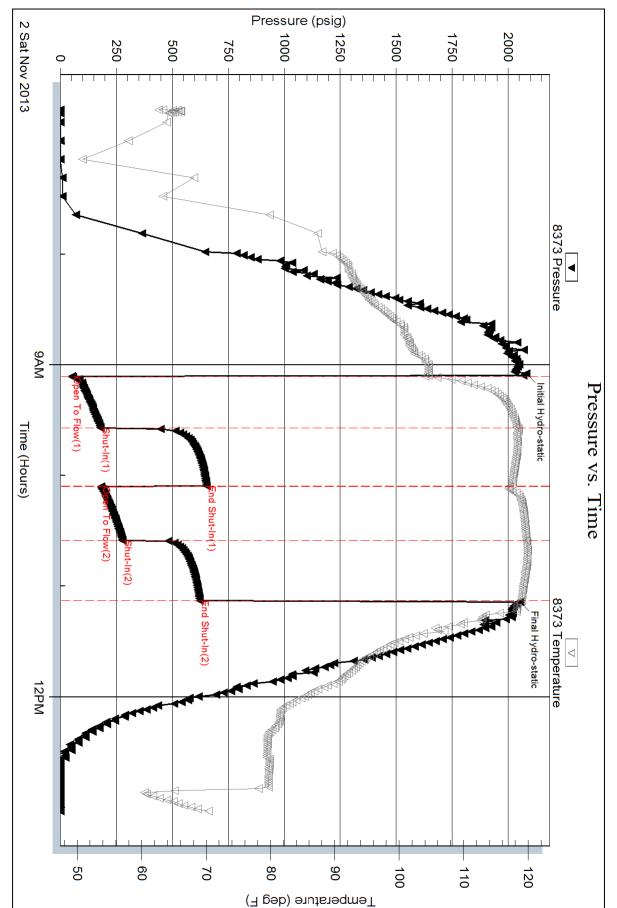
AND T		אדר	DRI	LL STE	MTEST	REPO	RT	TOOL DIAGRA
		BITE TING , INC	Americ	an Warrior			21-18s-21w Ness,K	S
翻	j EST	FING , INC	000	ummings Rd			Raymond #1-21 Ur	hit
			Garden	n City, KS 678	46		Job Ticket: 54963	DST#: 1
			ATTN:	Jason Alm			Test Start: 2013.11.02	@ 06:41:43
Tool Informatio	on		Į					
Drill Pipe:	Length:	4030.00 ft	Diameter:	3.80 in	ches Volume:	56.53 bb	I Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bb	I Weight set on Packe	r: 30000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 in	ches Volume:	0.58 bb		
Drill Pipe Above k	KB:	30.00 ft			Total Volume:	57.11 bb		0.00 ft
Depth to Top Pac		4146.00 ft					String Weight: Initial	62000.00 lb
Depth to Bottom		ft					Final	68000.00 lb
Interval between	Packers:	34.00 ft						
Tool Length:		62.00 ft						
-								
Number of Packe Tool Comments:	ers:	2	Diameter:	6.75 in	ches			
	ers:	2	Diameter:	6.75 in	ches			
			Diameter: ngth (ft)	6.75 in Serial No.	ches Position	Depth (ft)	Accum. Lengths	
Tool Comments:						Depth (ft) 4119.00	Accum. Lengths	
Tool Comments: Tool Descriptio			ngth (ft)			/	Accum. Lengths	
Tool Comments: Tool Descriptio Stubb Shut In Tool			ngth (ft) 1.00			4119.00	Accum. Lengths	
Tool Comments: Tool Descriptio Stubb Shut In Tool			ngth (ft) 1.00 5.00			4119.00 4124.00	Accum. Lengths	
Tool Comments: Tool Descriptio Stubb Shut In Tool Hydraulic tool			ngth (ft) 1.00 5.00 5.00			4119.00 4124.00 4129.00	Accum. Lengths	
Tool Comments: Tool Descriptio Stubb Shut In Tool Hydraulic tool Jars			ngth (ft) 1.00 5.00 5.00 5.00			4119.00 4124.00 4129.00 4134.00	Accum. Lengths	Bottom Of Top Packe
Tool Comments: Tool Descriptio Stubb Shut In Tool Hydraulic tool Jars Safety Joint			ngth (ft) 1.00 5.00 5.00 5.00 3.00			4119.00 4124.00 4129.00 4134.00 4137.00	-	Bottom Of Top Packe
Tool Comments: Tool Descriptic Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer			ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4119.00 4124.00 4129.00 4134.00 4137.00 4142.00	-	Bottom Of Top Packe
Tool Comments: Tool Descriptio Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer			ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4119.00 4124.00 4129.00 4134.00 4137.00 4142.00 4146.00	-	Bottom Of Top Packe
Tool Comments: Tool Descriptio Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb			ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00	Serial No.	Position	4119.00 4124.00 4129.00 4134.00 4137.00 4142.00 4146.00 4147.00	-	Bottom Of Top Packe
Tool Comments: Tool Descriptic Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder			ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	Serial No. 8373	Position	4119.00 4124.00 4129.00 4134.00 4137.00 4142.00 4146.00 4147.00 4147.00	-	Bottom Of Top Packe

		ILL STEM TEST REPOR	RT	F	LUID SUMMAR
	ITE Amer	ican Warrior	21-18s-21w	/Ness,KS	
ESTI	ING , INC. 3118	Cummings Rd	Raymond	#1-21 Unit	
	Garde	en City, KS 67846	Job Ticket: 5	4963	DST#:1
	ATTN	: Jason Alm	Test Start: 2	013.11.02 @ 06	:41:43
lud and Cushion Info	ormation				
Aud Type: Gel Chem		Cushion Type:		Oil A PI:	0 deg API
/ud Weight: 9.00 lk	-	Cushion Length:		Water Salinity:	36000 ppm
/iscosity: 46.00 s Vater Loss: 8.79 ir		Cushion Volume: Gas Cushion Type:	bbl		
Resistivity: 0.00 o		Gas Cushion Pressure:	psig		
alinity: 6300.00 p			poig		
ilter Cake: 1.00 ir	-				
Recovery Information	1				
	· · ·	Recovery Table		I	
	Length ft	Description	Volume bbl		
	372.00	mcw 95%w 5%m	4.143	-	
	155.00	w cm 20%w 80%m	2.174		
Tot	tal Length: 52	7.00 ft Total Volume: 6.317 bl	bl		
Nur	m Fluid Samples: 0	Num Gas Bombs: 0	Serial #:		
	covery Comments: .:				

Printed: 2013.11.06 @ 10:49:23

Ref. No: 54963





Raymond #1-21 Unit

Serial #: 8373

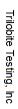
Inside

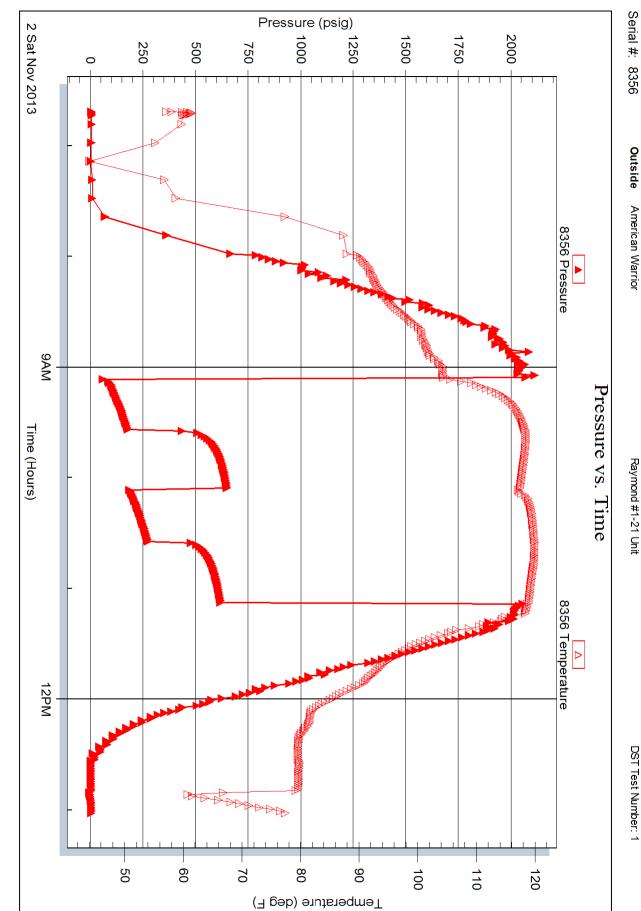
American Warrior

DST Test Number: 1

Printed: 2013.11.06 @ 10:49:23

Ref. No: 54963





Raymond #1-21 Unit

DST Test Number: 1

Outside

American Warrior

4/10	RILOBITE ESTING INC. 1515 Commerce Parkwa	1.00 Store 1		Test Ticket NO. 54963
Well Name & No Company Address Co. Rep / Geo Location: Sec Interval Tested Anchor Length Top Packer Depth Bottom Packer Depth Bottom Packer Depth Blow Description	nerican W 8 cumming Tason All 21 Twp. 183 46 4/8 34 4141	Rge. 21 C Zone Tested C Drill Pipe Run Drill Collars Run Wt. Pipe Run Chlorides 8 m.n.	ner A. 4030 118	Ly KS 67846 rom9rK SS State S9nC Mud Wt. 9.3 Vis 46 WL 8.8
Rec 155 Rec 372 Rec 372 Rec Rec Rec Rec Rec Rec 70tal 52 Rec Total 52 (A) Initial Hydrostatic (B) First Initial Flow (C) First Final Flow (C) First Final Flow (C) Initial Shut-In (E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In (H) Final Hydrostatic (C)	222	Gravity AP Gravity AP Test250 Jars50 Safety Joint75 Circ Sub7 Hourly Standby Mileage60 Sampler Straddle	100rt x2 310	%oilZO%water80%mud%oil95%water5%mud%oil%water%mud%oil%id%id%oil%id%id <t< td=""></t<>
Initial Open <u>30</u> Initial Shut-In <u>9</u> Final Flow <u>9</u> Final Shut-In <u>9</u>	30 30 30	 Shale Packer Extra Packer Extra Recorder Day Standby Accessibility Sub Total1885 Our Recorder 		Ruined Packer Extra Copies Sub Total 0 Total 1885 MP/DST Disc't

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.

Geological Report

American Warrior, Inc. **Raymond #1-21 Unit** 2530' FSL & 1680' FEL Sec. 21 T18s R21w Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Raymond #1-21 Unit 2530' FSL & 1680' FEL Sec. 21 T18s R21w Ness County, Kansas API # 15-135-25664-0000
Drilling Contractor:	Petromark Drilling, LLC. Rig #1
Geologist:	Jason T. Alm
Spud Date:	October 26, 2013
Completion Date:	November 3, 2013
Elevation:	2141' Ground Level 2147' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 to FF rd. North 1 mi. to 140 Rd. East ¹ / ₂ mi. North into location.
Casing:	228' 8 5/8" surface casing
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Brandon Turley"
Problems:	None
Remarks:	None

	American Warrior, Inc.
	Raymond #1-21 Unit
	Sec. 21 T18s R21w
Formation	2530' FSL & 1680' FEL
Anhydrite	1387', +760
Base	1417', +730
Heebner	3616', -1469
Lansing	3662', -1515
BKc	3992', -1845
Pawnee	4058', -1911
Fort Scott	4133', -1986
Cherokee	4152', -2005
Mississippian	4254', -2107
RTD	4263', -2116

Formation Tops

Sample Zone Descriptions

Cher. "A" Sand (4156', -2009): Covered in DST #1 Ss – Fine grained, well sorted, fair to well cemented, fair to wellrounded with poor to fair inter-granular porosity, light spotted oil stain in cluster, no show of free oil, no odor, light yellow spotted cut fluorescents, 11 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Brandon Turley"

Cherokee "A" Sand **DST #1** Interval (4146' – 4180') Anchor Length 34' IHP - 2082 # IFP – 30" – B.O.B. 8 min. – 30" – Dead ISI FFP - 30" - B.O.B. 11 min. – 30" – Dead FSI FHP - 2055 # BHT $-119^{\circ}F$

Recovery:	155' WCM	20% Water
	372' MCW	95% Water

51-181 #

183-278 #

653 #

622 #

Structural	Comparison
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	A	Emmer Oil & Car		A	
	American Warrior, Inc.	Ferguson Oil & Gas		American Warrior, Inc.	
	Raymond #1-21 Unit	Clarence Foos #1		Ryersee #3-28	
	Sec. 21 T18s R21w	Sec. 21 T18s R21w		Sec. 28 T18s R21w	
Formation	2530' FSL & 1680' FEL	C NW SW		840' FNL & 430' FEL	
Anhydrite	1387', +760	1380', +760	FL	1335', +773	(-13)
Base	1417', +730	NA	NA	1367', +741	(-11)
Heebner	3616', -1469	3601', -1461	(-8)	3574', -1466	(-3)
Lansing	3662', -1515	3649', -1509	(-6)	3618', -1510	(-5)
BKc	3992', -1845	NA	NA	NA	NA
Pawnee	4058', -1911	4046', -1906	(-5)	4012', -1904	(-7)
Fort Scott	4133', -1986	4121', -1981	(-5)	4089', -1980	(-6)
Cherokee	4152', -2005	4141', -2001	(-4)	4106', -1998	(-7)
Mississippian	4254', -2107	4228', -2088	(-19)	4189', -2081	(-26)

Summary

The location for the Raymond #1-21 Unit was found via 3-D seismic survey. The new well ran structurally as expected on all datums besides the Mississippian. One drill stem test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Raymond #1-21 Unit well.

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

				Drilling Contractor Commenced	Petro 10-26-2013		lling, LLC. pleted	Rig #1 11-3-2013
	Geo	ologic Rep	ort	Samples Saved From	10-20-2013	3900'	То	RTD
HARDROLL		g Time and Sampl		Drilling Time Kept Fr	rom	3500'	То	RTD
Consulting, Inc.		5 - mie mie omipi		Samples Examined Fr		3900'	То	RTD
				Geological Supervisio		3900'	То	RTD
Operator American W	Varrior, Inc.	KB	Elevation 2147'					
Lease Raymond	No. 1-2	21 Unit GL	2141'	Displacement 3	400' Mud 7	Гуре	Chemical	
API # 15-135-25664-0	0000	C Surfac	asing Record æ					
Field Wildcat		Produ			Summary an	d Recon	mendatio	ons
Location 2530' FSL &	& 1680' FEL	Ele	None ctrical Surveys					nd via 3-D seismic all datums besides
Sec. 21 Twp.	18s Rge.	21w	None	the Mississippian	. One drill sten	n test was	conducted	which was negative on was made to plug
County Ness	State Kan	sas		and abandon the				on was made to plug
Formation	Log Tops	Sample Top	s Struct Comp					
Anhydrite		1387' +760	FL					
Base		1417' +730						
Heebner		3616' -1469	-8					
Lansing		3662' -1515	-6					
BKc		3992' -1845						
Pawnee		4058' -1911	-5					
Fort Scott		4133' -1986	-5					
Cherokee		4152' -2005	-4					
Mississippian		4254' -2107	-19					
Total Depth		4263' -2116					Respe	ctfully Submitted,
							Jason	T Alm

REMARKS	600 on Loc. 10/31/2013 10:00a.m.								DST#1 DST#1 Cher. "A" Sand 4146'-4180' 30"30"30"30" IH ZO32# IF 2082# FF 183-278# FF 183-278# FF 183-278# FF 183-278# FF 183-278# FF 2055# FF 2055# BHT 119°F Recovery: 155', WCM 332', MGW	Respectfully,
SAMPLE DESCRIPTIONS					LERCH- Fare Fixder, Odicree	Sh- Gry LS. Ton, F Supplar, Ool. w/ Poor com & Bernin, Ool. w/ LS- ala, DNS Sh- Drk Gry- Gry LS. Ton- Lt Gry, Subaln, DNS, Sh. Dit G.	sn-urkeny Ls-Ten-Gry, Subala, DNS Ls-ala Sh-Bin-Gry-Gen	LS- Ton-Lt. Gry. Subula, DWS Sh-Bim-Gry LS- Ton-Offluh, Subul, DNS Sh-Gry-Bim LS-Lf. Gry. Subula, DNS LS-Lf. Gry. Subula, DNS LS-da	L3- Gry, Subala, ONS L3- Gry, Subala, ONS L3- ala Sh-BIK, Carb. Sh-BIK, Carb. L5- Elk, Carb. L5- The Off A. S. Abdelle, DNS Few Res. W. F. Main. DNS Sh-Old Gry- Gun. Br. Sh-Old Gry- Gun. Br. Sh-Old Gry- Gun. Br.	Sh-Bin-Gin, Few With 55 Clures Screen Sh-Birty SS - ala Sh-Dirty SS - ala Sh-Bin-Gin-Gry, J-Yel Whr- Sh-J-ala Sh-J-ala
DRILLING TIME (Logarithmic Scale)		Heebner John Marshall Heebner Lansing 3662-1515	M. M. M	Mmm			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Munec Mulose-Igi		J Montal Seises in the seises
HT930	20 20 20 20 20 20 20 20 20 20 20 20 20 2	%0 40 3600 3650 40 3650 45 3650 30 3650 30 30 30 30 30 30 30 30 30 30 30 30 30 3	90 3700 10 20 30 40 40 3750	70 80 70 70 70 70 70 70 70 70 70 70	3850 60 80 80	3100 10 20 30 40 40 3350	2	2	70 1100 1100 1100 1100 1100 1100 1100 1	80 4200 10 20 30 40 40