

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1115089

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:	Sec TwpS. R East West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
C C C C C C C C C C C C C C C C C C C	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
□ OG □ GSW □ Temp. A	bd. If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
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	Chloride content: ppm Fluid volume: bbls
	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	
Dual Completion Permit #:	Operator Name:
SWD Permit #:	License #:
ENHR Permit #:	Quarter Sec Two S R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date Date Reached TD Completion Date or 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	1115089		
Operator Name:	Lease Name:	Well #:		
Sec TwpS. 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 (Attach Additional Sheets) Samples Sent to Geological Survey		Yes No	L	-	on (Top), Depth ar	id Datum Top	Sample Datum	
		Yes No	Indin			юр	Datum	
Cores Taken Electric Log Run Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>		YesNoYesNoYesNo						
List All E. Logs Run:								
		CASING	GRECORD Ne	ew Used				
		Report all strings set	-conductor, surface, inte	ermediate, product	ion, 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: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

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

Form	ACO1 - Well Completion
Operator	Mid-Continent Resources, Inc.
Well Name	Grose 5
Doc ID	1115089

Tops

Name	Тор	Datum	
Anhydrite	1378	803	
Chase	2248	-67	
Heebner	3620	-1439	
Lansing	3664	-1483	
Base Kansas City	3979	-1798	
Pawnee	4066	-1885	
Ft. Scott	4130	-1949	
Cherokee	4145	-1964	
Mississippian	4214	-2033	
LTD	4230	-2049	

Geological Report

Mid-Contient Resources, Inc. Grose #5 335' FNL & 700' FEL Sec. 3 T19s R21w Ness County, Kansas



Mid-Continent Resources, Inc.

General Data

Well Data:	Mid-Continent Resources, Inc. Grose #5 335' FNL & 700' FEL Sec. 3 T19s R21w Ness County, Kansas API # 15-135-25504-0000
Drilling Contractor:	Petromark Drilling, LLc. Rig #1
Geologist:	Jason T Alm
Spud Date:	December 27, 2012
Completion Date:	January 3, 2013
Elevation:	2175' Ground Level 2181' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 4 mi. South 1 1/2 mi. to 120 rd. West 1/8 mi. South into location.
Casing:	222' 8 5/8" surface casing4229' 5 1/2" production casing
Samples:	10' wet and dry, 4000' to RTD
Drilling Time:	3600' to RTD
Electric Logs:	Log-Tech, Inc. "Dan Martin" CNL/CDL, DIL
Drillstem Tests:	Two, Trilobite Testing, Inc. "Dustin Rash"
Problems:	Premix Tank engine blew up while circulating fluid during logging.
Remarks:	Due to engine failure we were not able to run a Desco flush before cementing.

	Mid-Continent Res.
	Grose #5
	Sec. 3 T19s R21w
Formation	335' FNL & 700' FEL
Anhydrite	1378', +803
Base	1412', +769
Chase	2248', -67
Heebner	3620', -1439
Lansing	3664', -1483
BKc	3979', -1798
Pawnee	4066', -1885
Fort Scott	4130', -1949
Cherokee	4145', -1964
Mississippian	4214', -2033
Osage	4217', -2036
RTD	4230', -2049
LTD	4230', -2049

Formation Tops

Sample Zone Descriptions

Cherokee "A" Sand(4147', -1966):Covered in DST #1SS – Quartz, clear to slightly frosted, fine to medium grained,
fairly rounded, poor to fairly sorted, poorly cemented with fair to
good inter-granular porosity, light to fair oil stain and saturation in
cluster, slight show of free oil when broken, no odor, dull scattered
yellow fluorescents, 25 units hotwire.Mississippian Osage(4217', -2036):Covered in DST #2
Dolo – Δ – Fine sucrosic crystalline with poor to fair inter-
crystalline and yuggy perosity, heavy triptolitic short, weathered

Dolo – Δ – Fine sucrosic crystalline with poor to fair intercrystalline and vuggy porosity, heavy triptolitic chert, weathered with good vuggy porosity, light to fair oil stain, fair show of free oil, good odor, good yellow fluorescents, 46 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Dustin Rash"

DST #1	Cherokee "A" Sand					
	Interval (4142' – 4165') Anchor Length 23'					
	IHP – 2021 #					
	IFP – 45" – B.O.B. 8 min.	31-97 #				
	ISI -45 " – Dead	133 #				
	FFP -45 " – Built to 3 in. Died back to 2 in.	100-126 #				
	FSI -45 " – Dead	133 #				
	FHP – 2016 #					
	BHT -114° F					
	Recovery: 20' GCO					
	226' MW					
DST #2	Mississippian Osage					
	Interval (4219' – 4227') Anchor Length 8'					
	Interval (4219' – 4227') Anchor Length 8'	36-70 #				
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 #	36-70 # 1108 #				
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 # IFP – 45'' – B.O.B. 44 min.					
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 # IFP – 45'' – B.O.B. 44 min. ISI – 45'' – W.S.B.	1108 #				
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 # IFP – 45'' – B.O.B. 44 min. ISI – 45'' – W.S.B. FFP – 45'' – B.O.B. 45 min.	1108 # 72-92 #				
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 # IFP – 45'' – B.O.B. 44 min. ISI – 45'' – W.S.B. FFP – 45'' – B.O.B. 45 min. FSI – 45'' – W.S.B.	1108 # 72-92 #				
	Interval (4219' - 4227') Anchor Length 8' IHP - 2076 # IFP - 45'' - B.O.B. 44 min. ISI - 45'' - W.S.B. FFP - 45'' - B.O.B. 45 min. FSI - 45'' - W.S.B. FHP - 2035 #	1108 # 72-92 #				
	Interval (4219' - 4227') Anchor Length 8' IHP - 2076 # IFP - 45'' - B.O.B. 44 min. ISI - 45'' - W.S.B. FFP - 45'' - B.O.B. 45 min. FSI - 45'' - W.S.B. FHP - 2035 #	1108 # 72-92 #				
	Interval (4219' – 4227') Anchor Length 8' IHP – 2076 # IFP – 45'' – B.O.B. 44 min. ISI – 45'' – W.S.B. FFP – 45'' – B.O.B. 45 min. FSI – 45'' – W.S.B. FHP – 2035 # BHT – 114°F	1108 # 72-92 #				

124' GWMCO

Structural Comparison

70% Oil, 5% Water

	Mid-Continent Res.	Alpine Oil & Royalty		American Warrior, Inc.	
	Grose #5	Grose #1		Price #10	
	Sec. 3 T19s R21w	Sec. 3 T19s R21w		Sec. 34 T18s R21w	
Formation	335' FNL & 700' FEL	C NE NE		330' FSL & 1300' FEL	
Anhydrite	1378', +803	1385', +795	(+8)	1398', +798	(+5)
Base	1412', +769	NA	NA	NA	NA
Chase	2248', -67	NA	NA	NA	NA
Heebner	3620', -1439	3621', -1441	(+2)	3640', -1444	(+5)
Lansing	3664', -1483	3665', -1485	(+2)	3885', -1489	(+6)
BKc	3979', -1798	3982', -1802	(+4)	NA	NA
Pawnee	4066', -1885	4070', -1890	(+5)	4092', -1896	(+11)
Fort Scott	4130', -1949	4137', -1957	(+8)	4155', -1959	(+10)
Cherokee	4145', -1964	4152', -1972	(+8)	4171', -1975	(+11)
Mississippian	4214', -2033	4224', -2044	(+11)	4298', -2102	(+69)
Osage	4217', -2036	NA	NA	NA	NA

Summary

The location for the Grose #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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run $5\frac{1}{2}$ inch production casing to further evaluate the Grose #5 well.

Recommended Perforations

Primary:	(1015) (005)	
Mississippian Osage	(4217' – 4227')	DST #2
Before Abandonment:		
Cherokee "A" Sand	(4147' – 4152')	DST #1

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

ARDROCK
Consulting, Inc.

Geologic Report

Drilling Time and Sample Log

Operato	r Mid-	-Contin	ent Res	ources	, Inc.	El KB	evation 2181'
Lease G	Frose			No.	5	DF GL	2175'
API # 1	5-135-	25504-0	000			Casi Surface	ng Record
Field R	versee						8" @ 222'
		and the low	700! EI	ΓT.			2" @ 4229'
Location	1 332.	FNL &	/00° F1				ical Surveys
Sec.	3	Twp.	19s	Rge.	21w	CNL	/CDL, DIL
County	Ν	ess	State	Kai	nsas		
F	ormatio	on	Log	Tops	Samp	le Tops	Struct Comp
Anhydrite			1279	8' +803	1291	'+8 00	+8
Base	2			2' +769		5' +766	NA NA
Dust							
Chase			224	8' -67			NA
Heebner			3620	' -1439	3620	' -1439	+2
Lansing			3664	' -1483	3664	' -1483	+2
BKc			3979	' -1798	3978	' -1797	+4
Pawnee			4066	' -1885	4065	' -1884	+5
Fort Scott				' -1949		' -1950	+8
Cherokee				<u>' -1964</u>		' -1965	+8
Mississipp	lan			' -2033 ' -2036	_	' -2033 ' -2036	+11 NA
Osage			421/	-2030	421/	-2030	INA
Total Dep	th		4230	' -2049	4230	' -2049	
		Structural (s R21w Nes		_	Oil & Royalty	Co. Inc. G	rose #1

).

Drilling Contracto	or Pet	romark Dri	lling, LLc.	Rig #1	
Commenced	12-27-2012	Comp	leted	1-3-2013	
Samples Saved Fi	rom	4000'	То	RTD	
Drilling Time Ke	pt From	3600'	То	RTD	
Samples Examine	ed From	4000'	То	RTD	
Geological Super-	vision From	4000'	То	RTD	

Displacement

3500' Mud Type Chemical

Summary and Recommendations

The location for the Grose #5 was found via 3-D seismic survey. The new well ran 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 been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Grose #5 well.

Respectfully Submitted,

Jason T Alın Hard Rock Consulting, Inc.

Deformite	REMARKS	PSTAT Construction 1:000 on lot 1:000 on
10 1010 1010 1010 1010 1010 1011 1010 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1010 1000 10	SAMPLE DESCRIPTIONS	LS - Tan lak boy, Sakeh, DNS LS - Tan lak boy, Sakeh, DNS LS - Bro boy - bon LS - LA boy, Sakeh, DNS LS - LA boy, Sakeh, LS - LA boy, Sakeh, LS - LA boy, Sakeh, DNS LS - LA boy, Sakeh, LS - L
LEGEN a a a a a a a a a a a a a a a a a a a	DRILLING TIME (Engarthmic Scale)	All the second s
JupAdjury Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line Line	рівти	



DRILL STEM TEST REPORT

Prepared For: American Warrior, Inc

POBox 399 Garden City, KS 67846

ATTN: Jason Alm

Grose #5

3-19s-21w Ness,KS

Start Date: 2013.01.02 @ 03:46:30 End Date: 2013.01.02 @ 10:07:00 Job Ticket #: 51671 DST #: 1

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

RILOBITE	DRILL STEM TI						
TESTING, IN	American Warrior, Inc		3-19	9s-21w I	Ness, KS		
	POBox 399 Garden City, KS 67846			se #5 Ticket: 51	671	DST#: [,]	I
	ATTN: Jason Alm)13.01.02 @	03:46:30	
GENERAL INFORMATION:	<u> </u>						
Formation: Cherokee "A" San Deviated: No Whipstock: Time Tool Opened: 06:27:30 Time Test Ended: 10:07:00	nd ft (KB)		Test Test Unit	er: [Conventiona Dustin Rash 38		le (Initial)
nterval: 4142.00 ft (KB) To Fotal Depth: 4165.00 ft (KB) (Hole Diameter: 7.88 inches Ho			Refe	erence Ele KB te	evations: o GR/CF:	2181.00 2175.00 6.00	ft (CF)
Serial #: 8520 Outside Press@RunDepth: 125.94 psig Start Date: 2013.01.02 Start Time: 03:56:30	End Date:	2013.01.02 10:07:00	Capacity: Last Calib Time On E Time Off I	o.: Btm: 2	2013.01.02 2013.01.02		psig
FF-VVeak buildi	ng blow . Built to 3 inches. Died to	o 2 inches.					
FSI-No Return. Pressure vs	Time		PR	RESSUR	RE SUMM	ARY	
FSI-No Return. Pressure vo 8000 Presure	Time 650 Temperature File Modester	Time (Min.) 0	PR Pressure (psig) 2021.48	RESSUR Temp (deg F) 102.94	Annotatio	on o-static	
FSI-No Return. Pressure vs 6000 Pressure 1000	Time SGD Temperture File Motoster	¹¹⁰ Time (Min.) [™] 1 ∞ 16 46	Pressure (psig) 2021.48 31.74 97.78 132.84	Temp (deg F) 102.94 102.49 112.72 112.97	Annotatio Initial Hydro Open To F Shut-In(1) End Shut-I	on o-static low (1) n(1)	
FSI-No Return. Pressure vs 800 Pressure		110 110 100 100 100 10 10 10 10	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In	o-static low (1) n(1) low (2) n(2)	
FSI-No Return.	Time SCOT Emperature Fiel Ndorster Fiel Ndorster	110 100 100 100 100 100 100 10 100 10 10	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2)	o-static low (1) n(1) low (2) n(2)	
FSI-No Return.	Time	Time (Min.) 100 0 100 1 ∞ 16 46 46 70 109 ∞ 110 ∞ 110	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57 113.31	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In	o-static low (1) n(1) low (2) n(2)	
FSI-No Return.	Time	Time (Min.) 100 0 100 1 ∞ 16 46 46 70 109 ∞ 110 ∞ 110	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57 113.31	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2) o-static	as Rate (Mcf/d)
FSI-No Return.	Time SD Temperature restructions is STUDIO is STUDI	Time (Min.) 100 0 100 1 ∞ 16 46 46 70 109 ∞ 110 ∞ 110	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57 113.31	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2) o-static	as Rate (Mcf/d)
FSI-No Return.	Time SOT Temperature File Ndorster File Ndorster	Time (Min.) 100 0 100 1 ∞ 16 46 46 70 109 ∞ 110 ∞ 110	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57 113.31	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2) o-static	as Rate (Mct/d)
FSI-No Return.	Time	Time (Min.) 100 0 100 1 ∞ 16 46 46 70 109 ∞ 110 ∞ 110	Pressure (psig) 2021.48 31.74 97.78 132.84 100.39 125.94 133.05	Temp (deg F) 102.94 102.49 112.72 112.97 112.95 114.86 114.57 113.31	Annotation Initial Hydro Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	o-static low (1) n(1) low (2) n(2) o-static	as Rate (Mcf/d)

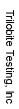
RILOBITE	DRILL STEM TE	SI KEP					
TESTING, I	American Warrior, Inc		3-19)s-21w N	Ness, KS		
	POBox 399 Garden City, KS 67846			se #5 Ficket: 51	671	DST#:1	ı
	ATTN: Jason Alm				13.01.02 @	-	
GENERAL INFORMATION:							
Formation: Cherokee "A" S	and						
Deviated: No Whipstoc Fime Tool Opened: 06:27:30 Fime Test Ended: 10:07:00	k: ft (KB)		Test Teste Unit N	er: D	Conventiona Dustin Rash 88	al Bottom Ho	le (Initial)
Fotal Depth: 4165.00 ft (KB)	4165.00 ft (KB) (TVD) (TVD) Hole Condition: Fair		Refe	rence Ele KB to	vations:	2181.00 2175.00 6.00	ft (CF)
Serial #: 8354 Inside							
	ig @ 4144.00 ft (KB)		Capacity:			8000.00	psig
Start Date: 2013.01.		2013.01.02	Last Calib.			2013.01.02	
Start Time: 03:55:	30 End Time:	10:06:30	Time On B Time Off E				
	vs. Time	2 inches.			E SUMM		
FSFN0 Retur	n.						
		Time	PR	ESSUR	E SUMM		
Pressure	vs. Time		Pressure				
Pressure 8864 Pressure	vs. Time	Time (Min.)	Pressure	Temp			
2000 Pressure	vs. Time	Time (Min.)	Pressure	Temp			
Pressure 3054 Pressure 2000 1750	vs. Time	Time (Min.)	Pressure	Temp			
200 170 120	vs. Time	Time (Min.)	Pressure	Temp			
2000 1750 1250	vs. Time	Time (Min.)	Pressure	Temp			
Pressure 2000 1750 1000 1200 10	vs. Time 854 Temperature	Time (Min.)	Pressure	Temp			
2000 1200	vs. Time	Time (Min.)	Pressure	Temp			
Pressure 200 170 100 100 100 100 100 100 1	vs. Time 854 Temperature	Time (Min.)	Pressure	Temp			
Pressure 200 120 100 100 100 100 100 100	vs. Time	Time (Min.)	Pressure	Temp			
Pressure 8054 Pressure 1700 1000	vs. Time	Time (Min.)	Pressure	Temp (deg F)			
Pressure Sold Pressure 100 100 100 100 100 100 100 10	vs. Time	Time (Min.)	Pressure	Temp (deg F)	Annotati s Rates	on	as Rate (Mct/d)
Pressure 200 100 100 100 100 100 100 100	vs. Time ROAT Temperature ROAT TEMPERATURE RO	Time (Min.)	Pressure	Temp (deg F)	Annotati s Rates	on	as Rate (Mcf/d)
Pressure 200 120 120 120 120 120 120 120	vs. Time 854 Temperature 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time (Min.)	Pressure	Temp (deg F)	Annotati s Rates	on	as Rate (Mcf/d)
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Pressure 2000 12	vs. Time 854 Temperature 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time (Min.)	Pressure	Temp (deg F)	Annotati s Rates	on	as Rate (Mct/d)

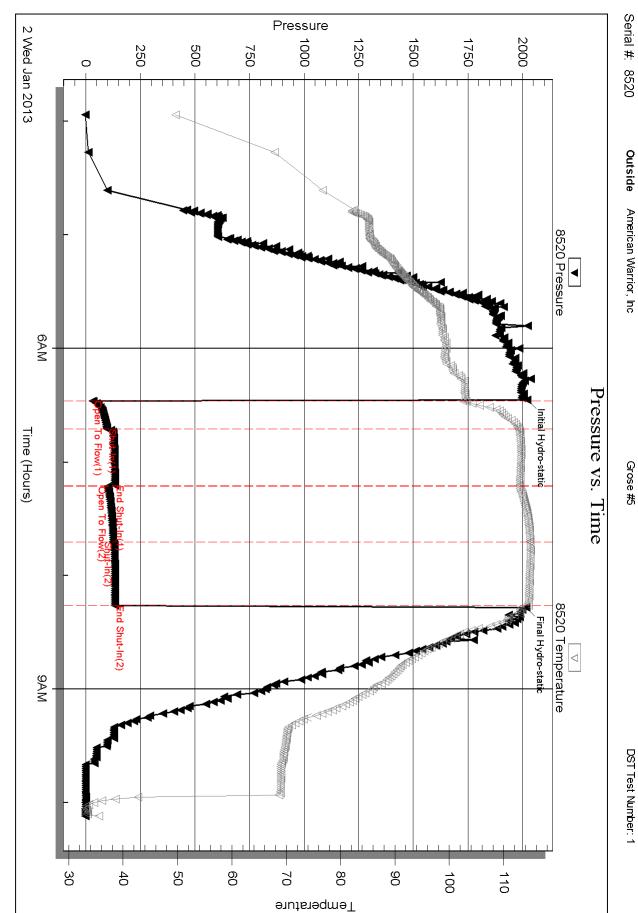
	RILOE		America	n Warrior,	Inc		3-19s-21w Ness,KS	
	TEST	TING , INC	, inchoo	in Warnor,			5-155-21W Ness, NS	
	1 201	mu , wo			70.40		Grose #5	
			Garden	City, KS 6	7846		Job Ticket: 51671	DST#:1
			ATTN:	Jason Alm	l		Test Start: 2013.01.02	@ 03:46:30
Tool Informatio	on		ļ					
Drill Pipe:	Length:	4025.00 ft	Diameter:	3.80	inches Volume:	56.46 bbl	Tool Weight:	3000.00 lb
Hea∨y Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches Volume:	0.00 bbl	Weight set on Packer	r: 26000.00 lb
Drill Collar:	Length:	119.00 ft	Diameter:	2.25	inches Volume:	0.59 bbl	Weight to Pull Loose:	10000.00 lb
Drill Pipe Above ł	KB.	30.00 ft			Total Volume:	57.05 bbl	Tool Chased	0.00 ft
Depth to Top Pac		4142.00 ft					String Weight: Initial	54000.00 lb
Depth to Bottom		4142.00 ft					Final	56000.00 lb
nterval betw een		23.00 ft						
Faallanawih.		51.00 ft						
roor Length:								
0	ers:	2	Diameter:	6.75	inches			
Tool Length: Number of Packe Tool Comments:	ers:		Diameter:	6.75	inches			
Number of Packe Tool Comments: Tool Descriptio	on	2	ngth (ft)	6.75 Serial No			ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Su	on	2	ngth (ft) 1.00			4115.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Su	on	2	ngth (ft) 1.00 5.00			4115.00 4120.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio	on	2	ngth (ft) 1.00			4115.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool	on	2	ngth (ft) 1.00 5.00			4115.00 4120.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Su Shut In Tool	on	2	ngth (ft) 1.00 5.00 5.00			4115.00 4120.00 4125.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptic Change Over Su Shut In Tool Hydraulic tool Jars	on	2	ngth (ft) 1.00 5.00 5.00 5.00			4115.00 4120.00 4125.00 4130.00	ccum. Lengths	Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint	on	2	ngth (ft) 1.00 5.00 5.00 5.00 3.00			4115.00 4120.00 4125.00 4130.00 4133.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer	on	2	ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4115.00 4120.00 4125.00 4130.00 4133.00 4138.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptic Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on	2	ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4115.00 4120.00 4125.00 4130.00 4133.00 4138.00 4142.00		Bottom Of Top Packe
Number of Packe Tool Comments: Fool Descriptio Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations	on	2	ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00		. Position	4115.00 4120.00 4125.00 4130.00 4133.00 4138.00 4142.00 4142.00 4143.00		Bottom Of Top Packe
Number of Packe Tool Comments: Tool Descriptio Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on	2	ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 1.00	Serial No	. Position	4115.00 4120.00 4125.00 4130.00 4133.00 4138.00 4142.00 4142.00 4144.00		Bottom Of Top Packe
Number of Packe Fool Comments: Fool Description Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Recorder	on	2	ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 1.00 0.00	Serial No 8354	. Position	4115.00 4120.00 4125.00 4130.00 4133.00 4138.00 4142.00 4144.00 4144.00		Bottom Of Top Packe

AT		DRI	LL STEM TEST F	REPORT	-		
	RILOBITE	Americ	can Warrior, Inc		3-19s-21w		FLUID SUMMAR
	TESTING INC	Anene				NC 55, NO	
			: 399 n City, KS_67846		Grose #5		
		Garuer	1 Oly, NS 07640		Job Ticket: 5	51671	DST#:1
		ATTN:	Jason Alm		Test Start: 2	2013.01.02 @ 03	3:46:30
lud and Cu	shion Information						
• •	el Chem		Cushion Type:			Oil A PI:	40 deg API
ud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:	26000 ppm
iscosity: /ater Loss:	44.00 sec/qt 7.97 in ³		Cushion Volume:		bbl		
esistivity:	0.58 ohm.m		Gas Cushion Type: Gas Cushion Pressure		psig		
alinity:	5400.00 ppm		Cas Cushion Tressure	·	psig		
ter Cake:	inches						
ecovery In	formation						
	[Recovery Table			Т	
	Leng ft	th	Description		Volume bbl		
		181.00	90%Water/10%Mud		1.45	-	
		45.00	50%Water/50%Mud		0.63	-	
		20.00	100%Oil		0.28	1	
	Total Length:	246	5.00 ft Total Volume:	2.367 bbl			
	Num Fluid Samp		Num Gas Bombs:	0	Serial #	<u>:</u>	
	Laboratory Nam		Laboratory Locatio	n:			
	Recovery Com	ments:					

Printed: 2013.01.09 @ 11:01:03

Ref. No: 51671



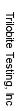


Grose #5

DST Test Number: 1

Printed: 2013.01.09 @ 11:01:04

Ref. No: 51671





Grose #5



DRILL STEM TEST REPORT

Prepared For: American Warrior, Inc

POBox 399 Garden City, KS 67846

ATTN: Jason Alm

Grose #5

3-19s-21w Ness,KS

Start Date: 2013.01.02 @ 19:40:30 End Date: 2013.01.03 @ 04:16:00 Job Ticket #: 51672 DST #: 2

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

	BITE 🗆	DRILL STEM T				0 . 0			
	TING , INC	American Warnor, Inc			3-13	95-21W I	Ness,KS		
		POBox 399 Garden City, KS 67846)se #5 Ticket: 51	672	DST#:2	2
		ATTN: Jason Alm					13.01.02 @		
GENERAL INFORMA	TION:								
ormation: Missi Deviated: No Time Tool Opened: 22:23: Time Test Ended: 04:16:		ft (KB)			Test Test Unit	ter: I	Conventiona Dustin Rash 66	al Bottom Hol	e (Initial)
otal Depth: 4227	f t (KB) To 4227 7.00 ft (KB) (TVD 7.88 inchesHole C				Refe	erence Ele KB t	evations: o GR/CF:	2181.00 2175.00 6.00	ft (CF)
Serial #: 8354 Press@RunDepth: Start Date: Start Time:	Inside 92.64 psig @ 2013.01.02 19:50:30	4221.00 ft (KB) End Date: End Time:	:	2013.01.03 04:16:00	Capacity Last Calit Time On Time Off	o.: Btm: 2	2013.01.02	8000.00 2013.01.03 @ 22:22:30 @ 01:32:30	psig
F	SI-Weak surface re F-Weak building b	eturn @ 4 1/2 minutes. Died low . BOB @ 45 minutes. jutes. Died @ 11 minutes.	d @ 17	7 minutes.					
R354 Pressure	riessure vs. rim	s 8354 Temperature		Time	Pressure	Temp	RE SUMM		
			- 10 10 Temperature (deg F) 	(Min.) 0 1 47 92 93 142 189 190	(psig) 2076.80 36.68 70.11 1108.35 72.72 92.64 1083.89 2032.99	(deg F) 105.55 105.11 107.45 110.00 109.84	Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I Final Hydro	low (1) n(1) low (2) n(2)	
.0 GPM	3 Thu Time (Hours)	ЗАМ							
.0 GPM	3 Thu Time (Hous)	зам				Ga	s Rates		
Length (ft)	Recovery Description	Volume (bbl)]			Ga: Choke (i		ure (psig) Ga	s Rate (Mcf/d)
Length (ft) 124.00 10%Gas/	Recovery Description 70%Oil/5%Water/	Volume (bbl) 15%Mud 0.66				-		ure (psig) Ga	s Rate (Mcf/d)
Length (ft)	Recovery Description 70%Oil/5%Water/ 60%Oil	Volume (bbl)				-		ure (psig) G≳	s Rate (Mcf/d)

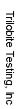
	RILOBITE	American Warrior, Inc			3-1	9s-21w	Ness, KS		
	ESTING , INC								
		POBox 399 Garden City, KS 67846				5:5:2 #5 Ticket: 5	4070	DST#:2	
		ATTN: Jason Alm					013.01.02	-	
u),••d[l,					103		010.01.02	5 10.40.00	
GENERAL	INFORMATION:								
-	Mississippian No Whipstock: ened: 22:23:00 ded: 04:16:00	ft (KB)			Tes	ter:	Conventiona Dustin Rash 66	al Bottom Hol า	e (Initial)
nterval:	4219.00 ft (KB) To 42				Ref	erence El	evations:	2181.00	
Total Depth: Hole Diameter	4227.00 ft (KB) (T 7.88 inchesHole	√D) ∋ Condition: Fair				KB	to GR/CF:	2175.00 6.00	
Serial #: 8	3520 Outside								
Press@RunD		@ 4221.00 ft (KB)			Capacity	:		8000.00	psig
Start Date:	2013.01.02	End Date:	2	2013.01.03	Last Cali			2013.01.03	
Start Time:	19:51:30	End Time:		04:16:00	Time On Time Off				
	FSI-Return @ 3 Pressure vs. T				PI	RESSU	RE SUMM	IARY	
	FSI-Return @ 3	minutes. Died @ 11 minutes		Time			RE SUMM		
2000	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes		Time (Min.)	Pressure (psig)	RESSUI Temp (deg F)	RE SUMM		
2000	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes	- 	-	Pressure	Temp			
1750	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes		-	Pressure	Temp			
1780	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes		-	Pressure	Temp			
1750	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes	120 110 110 100 100 100 100 100 100 100	-	Pressure	Temp			
	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes	120 110 100 80 80 70 80 80 80 80 80 80 80	-	Pressure	Temp			
	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes	120 120 110 100 88 80 70 70 80 80 70 70 80 80 70 70 80 80 70 70 80 80 80 70 70 80 80 80 80 80 80 80 80 80 8	-	Pressure	Temp			
	FSI-Return @ 3 m	Time	122 110 100 100 100 100 100 100	-	Pressure	Temp			
	FSI-Return @ 3 Pressure vs. T	minutes. Died @ 11 minutes	122 120 120 100 80 80 80 80 80 80 80 80 80	-	Pressure	Temp			
	FSI-Return @ 3 m	Time	122 120 120 100 80 80 80 80 80 80 80 80 80	-	Pressure	Temp (deg F)			
1750 1200	FSI-Return @ 3 m Pressure vs. 1 BOO Pressure Description	Time Contraction of the second secon	122 120 120 100 80 80 80 80 80 80 80 80 80	-	Pressure	Temp (deg F)	Annotati	on	s Rate (Mcf/d)
1750 1220 1200	FSI-Return @ 3 m Pressure vs. 1 Pressure vs.	Time BEED Temperature BEED T	120 120 100 100 100 100 100 100	-	Pressure	Temp (deg F)	Annotati	on	s Rate (Mcf/d)
1760 1200	FSI-Return @ 3 n Pressure vs. 1 COD Presure COD Presur	Time SECTION FORMER AND ADDRESS TO ADDRESS	120 120 100 100 100 100 100 100	-	Pressure	Temp (deg F)	Annotati	on	s Rate (Mct/d)
1750 1250 1250 1250 1000 250 250 0 Wed Jan 2013 Length (ft) 124.00 62.00	FSI-Return @ 3 m Pressure vs. 1 Pressure vs.	Time BEED Temperature BEED T	120 120 100 100 100 100 100 100	-	Pressure	Temp (deg F)	Annotati	on	s Rate (Mcf/d)
1750 1200	FSI-Return @ 3 n Pressure vs. 1 COD Presure COD Presur	Time SECTION FORMER AND ADDRESS TO ADDRESS	120 120 100 100 100 100 100 100	-	Pressure	Temp (deg F)	Annotati	on	s Rate (Mct/d)

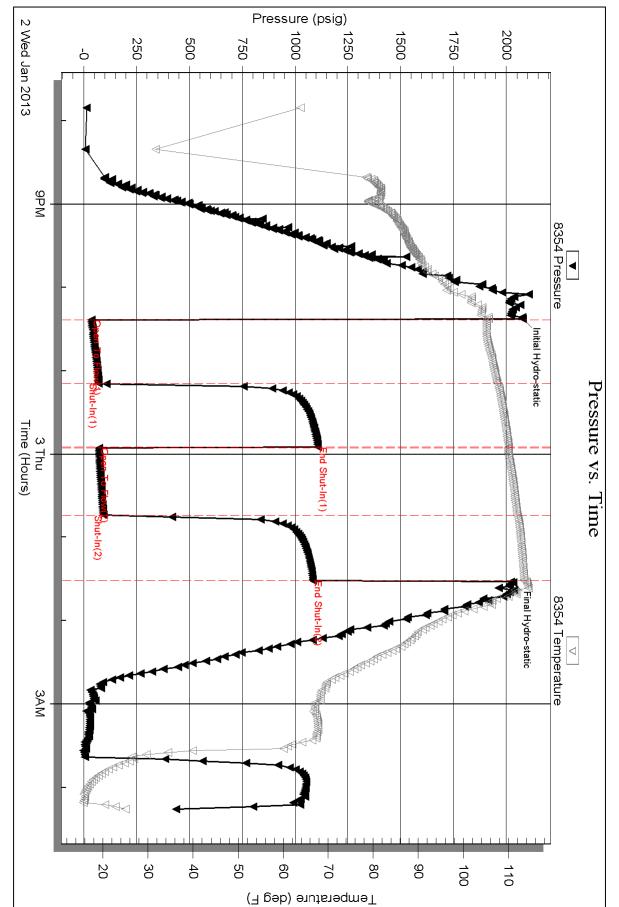
	RILOE	DIIE	America	an Warrior, In	IC		3-19s-21w Ness,K	S
	ES1	TING , INC					Grose #5	
			Garden	City, KS 678	846		Job Ticket: 51672	DST#:2
			ATTN:	Jason Alm			Test Start: 2013.01.02	2 @ 19:40:30
Tool Informatio	on							
Drill Pipe: Heavy Wt. Pipe: Drill Collar:	Length: Length: Length:	4089.00 ft 0.00 ft 119.00 ft		2.70 in	iches Volume: iches Volume: iches Volume:	0.00 bbl	Weight set on Pack	
Drill Pipe Above I Depth to Top Pac	KB:	17.00 ft 4219.00 ft	Diameter.	2.20 11	Total Volume:		Tool Chased String Weight: Initia	0.00 ft I 56000.00 lb
Depth to Bottom Interval betw een Fool Length:	Packer:	ft 8.00 ft 36.00 ft					Fina	I 56000.00 lb
0		-						
Number of Packe Tool Comments:	ers:	2	Diameter:	6.75 in	iches			
Number of Packe Tool Comments:			Diameter: ngth (ft)	6.75 in Serial No.	Position	Depth (ft)	Accum. Lengths	
Number of Packe Tool Comments:	on					Depth (ft) 4192.00	Accum. Lengths	
Jumber of Packe Tool Comments: Tool Description Change Over Su	on		ngth (ft)				Accum. Lengths	
Number of Packe Tool Comments: Fool Description Change Over Su Shut In Tool	on		ngth (ft) 1.00			4192.00	Accum. Lengths	
Jumber of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool	on		ngth (ft) 1.00 5.00			4192.00 4197.00	Accum. Lengths	
Number of Packe Tool Comments: T ool Descriptio Change Over Su Shut In Tool Hydraulic tool lars	on		ngth (ft) 1.00 5.00 5.00			4192.00 4197.00 4202.00	Accum. Lengths	
Number of Packe Tool Comments: Fool Description Change Over Su Shut In Tool Hydraulic tool lars Safety Joint	on		ngth (ft) 1.00 5.00 5.00 5.00			4192.00 4197.00 4202.00 4207.00	Accum. Lengths	Bottom Of Top Pack
Number of Packe Fool Comments: Fool Description Change Over Su Shut In Tool Hydraulic tool lars Safety Joint Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00			4192.00 4197.00 4202.00 4207.00 4210.00		Bottom Of Top Pack
Number of Packe Fool Comments: Fool Description Change Over Su Shut In Tool Hydraulic tool Hars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4192.00 4197.00 4202.00 4207.00 4210.00 4215.00		Bottom Of Top Pack
Jumber of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool lars Safety Joint Packer Packer Stubb	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4192.00 4197.00 4202.00 4207.00 4210.00 4215.00 4219.00		Bottom Of Top Pack
Jumber of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool ars Safety Joint Packer Packer Stubb Perforations	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00			4192.00 4197.00 4202.00 4207.00 4210.00 4215.00 4219.00 4220.00		Bottom Of Top Pack
Number of Packe Tool Comments: Tool Description Change Over Su Shut In Tool Hydraulic tool Jars Safety Joint Packer Stubb Perforations Recorder	on		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 1.00	Serial No.	Position	4192.00 4197.00 4202.00 4207.00 4210.00 4215.00 4219.00 4220.00 4221.00		Bottom Of Top Pack
Number of Packe	on		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 1.00 0.00	Serial No. 8354	Position	4192.00 4197.00 4202.00 4207.00 4210.00 4215.00 4219.00 4220.00 4221.00		Bottom Of Top Pack

アッチログリント エノリレンレー		ILL STEM TEST REPO	K I	FL	UID SUMMAR
	NG , INC POB	ican Warrior, Inc	3-19s-21v	vNess,KS	
I ESTI		ox 399 en City, KS 67846	Grose #5		
	Garu		Job Ticket:	51672 I	OST#: 2
	ATTA	k Jason Alm	Test Start:	2013.01.02 @ 19:4	0:30
lud and Cushion Info	rmation				
ud Type: Gel Chem		Cushion Type:		Oil A PI:	41 deg AP
ud Weight: 9.00 lb	/gal	Cushion Length:	ft	Water Salinity:	ppm
iscosity: 52.00 s	ec/qt	Cushion Volume:	bbl		
/ater Loss: 7.98 in	3	Gas Cushion Type:			
esistivity: ol	hm.m	Gas Cushion Pressure:	psig		
alinity: 8900.00 p Iter Cake: in	om ches				
ecovery Information					
		Recovery Table			
	Length ft	Description	Volume bbl		
	124.00	10%Gas/70%Oil/5%Water/15%Mud	0.65	55	
	62.00	40%Gas/60%Oil	0.87	70	
	0.00	62' G.I.P.	0.00	00	
	oratory Name: overy Comments:	Laboratory Location:			

Printed: 2013.01.09 @ 11:00:14

Ref. No: 51672





Grose 艿

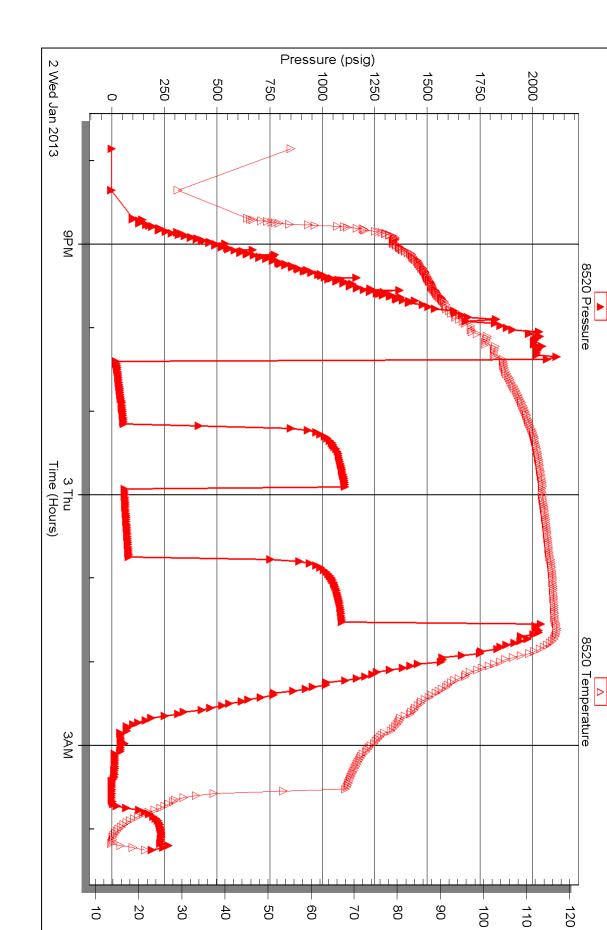
DST Test Number: 2

Serial #: 8354 Inside American Warrior, Inc

Printed: 2013.01.09 @ 11:00:15

Ref. No: 51672

Trilobite Testing, Inc



Temperature (deg F)

Serial #: 8520 Outside American Warrior, Inc

Grose 携

Pressure vs. Time

DST Test Number: 2

4/10	RILOBITE ESTING INC. 1515 Commerce Parkway		Test NO.	t Ticket 51671	
ISI-We	Box 399 Ga Salon Alm <u>3</u> Twp. 195 142-4165 3' 4137 4142 5 F-Fain builds all sulface res	Test No. Ly Inc, Elevation Elevation RigRig RgeZIWCo/ Zone TestedCo/ Drill Pipe Run Drill Collars Run Wt. Pipe Run Wt. Pipe Run Chlorides SHOW, BOB@ 8 WM. O 5 MINUTES	on 2181 67846 Petromal Vess Kee "A" ppm System Min ares 3		S_GL
FF- Weak FST No P Rec ZD	Building blow, Return, Feet of Bil	Built To Bircles			2
Rec 45 Rec 181	Feet of Muddy Was	L	%oil	%water 50 %water 90 %water	%mud 50 %mud 10 %mud
Rec	Feet of	%gas %gas	%oil	%water %water	%mud %mud
(E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In	ZOZI 32 98 33 100 126 33	Gravity <u>40</u> API RW <u>5</u> D Test <u>1250</u> D Jars <u>250</u> Safety Joint <u>75</u> Circ Sub <u>1250</u> Hourly Standby <u>15</u> Sampler <u>15</u>	T-On Loc T-Started T-Open T-Pulled T-Out _/ Commer	cation <u>03/5</u> d <u>0445</u> 07/7 0905	
(H) Final Hydrostatic _ Initial Open Initial Shut-In Final Flow Final Shut-In Approved By	30	Straddle Shale Packer Extra Packer Extra Recorder Day Standby Accessibility Sub Total _1730		ed Shale Packer ed Packer i Copies I0 1730 Disc't 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.

4/10	RILOBITE ESTING INC. 1515 Commerce Parkway	• Hays, Kansas 67	601		Ficket 51672	
Well Name & No CompanyAM AddressO, Co. Rep / Geo Location: Sec Interval TestedZ Anchor Length Top Packer Depth Bottom Packer Depth Bottom Packer Depth Total DepthZ Blow Description	SLOSE #5 erican Wallio Box 399 Ga Jason Alm 3 TWP. 195 7 7 7 7 F- Weak builden ak sulface nota	Rge. ZIW Zone Tested _ Drill Pipe Run Drill Collars Run Wt. Pipe Run Chlorides _ Chlorides Chlorides _ Chlorides _ Chlorides _ Chlorides _	Ne Mississ 4089 118,73	Z 18 1 57846 EFIOMALI SS Apian Mu Vis WL pm System LC MAUTES,	StateK d wt7,Z 5,Z 8,O	GL
Rec 124	L building blow, up @ 3 Minute Feet of <u>GassyOil</u> Feet of <u>GHOCWM</u> Feet of	BOB Q. 9 8. Died	5 M MUTEL D 11 MMU 40%gas 10 %gas %gas	5, FeS, ED %oil 78 %oil %oil	%water 5 %water %water	%mud 55%mud %mud
Rec Rec Total (A) Initial Hydrostatic (B) First Initial Flow (C) First Final Flow (D) Initial Shut-In	2077 37 70 108	Gravity // Test 1250 Jars 250 Safety Joint Circ Sub	75	T-On Local T-Started _	111-	%mud %mud ppm
 (E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In (H) Final Hydrostatic Initial Open Initial Shut-In Final Flow 	93 084 2033	 Hourly Standby Mileage Sampler Straddle Shale Packer Extra Packer Extra Recorder 	OXZ 155	Comments	I Shale Packer I Packer Copies 0	
Final Flow Final Shut-In Approved By	45	Day Standby Accessibility Sub Total1730		MP/DST		

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.

SENTILI AVE TEVAC TAINYT		SERV	ICE POINT:	R
SOUTHLAKE, TEXAS 76092		•	0/41	Bondits
DATE / 2-27-12 SEC. 3 TWP. RANGE 2.14	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
	14		COUNTY	STATE
EASE VOSC WELL # 5 LOCATION A 7.	e 1/23	24 Sint	10055	1 15
		,	J .	
CONTRACTOR P-YISmark Rig #1	OWNER			· .
YPE OF JOB Surface	-			
IOLE SIZE 12/4 T.D.	CEMENT	1	and I	1 - 11
CASING SIZE 554 DEPTH 22/.70	AMOUNT ORD		SKS L	455/4
TUBING SIZE DEPTH	34.1024			
DRILL PIPE 1/2 DEPTH	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		
TOOL DEPTH PRES. MAX MINIMUM			A	
RES. MAXMINIMUMMEAS. LINE SHOE JOINT	COMMON POZMIX	·····	_@ @	· · · · · · · · · · · · · · · · · · ·
CEMENT LEFT IN CSG. $/SF_{+}$	GEL			
PERFS.	CHLORIDE			<u> </u>
DISPLACEMENT 13, 14 66's	ASC	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
EQUIPMENT			@	
EQUIPMENT	-			
	•		@	
UMP TRUCK CEMENTER Dusy: Chambers			@	
	-		@	
BULK TRUCK			_@	
DRIVER 73el Monahan		· · · · ·	@	
DRIVER			_@	.
	- HANDLING		_@	. <u></u>
and a second	MILEAGE		and the first state of	
REMARKS:			TOTAL	
Brack Urch larion with Rig Mad	_			
pup 566's Freshwarer		SERVI	СЕ	
M/x 150 5K1 Class A 31.00 24gol	-			
119, 11 4 13, 14 16 13 11 c St & dree	DEPTH OF JOB			
	PUMP TRUCK			an a
Ceveny die Gir HAloye	EXTRA FOOTA	GE	_@	
plug Don 1:00AM 12-28-12		*	0	
ping Donn 1:00AM 12-28-12 Big Donn	MILEAGE			
plui Dun 1:00AM 12-28-12 Rig Don DN followion 6:00ph - 12-27-12			_@	-
ping Dunn 1:00AM 12-28-12 ping Donn	MILEAGE	· · · · · · · · · · · · · · · · · · ·	@	· · · · · · · · · · · · · · · · · · ·
plus Dunn 1:00AM 12-28-12 Rig Donn DN followion 6:00ph - 12-27-12 Higher hois rine	MILEAGE		_@	· · · · · · · · · · · · · · · · · · ·
plus Dunn 1:00AM 12-28-12 Rig Donn DN Locanion 6:00ph - 12-27-12 Historian Fine	MILEAGE		@ @ @	
p(n; 1)on 1:00AM 12-28-12 p; 1) 1)on N folgenion 6:00ph - 12-27-12 H/2 hr bait rime CHARGE TO: Mid Continent	MILEAGE		@	
р (и, /) un 1:00 / 12-28-12 р. · · ј /) опа DN folanion 6:00 ph - 12-27-12 И/2 hr bait rine CHARGE TO: M. · d (on tinen+ STREET	MILEAGE		@ @ @	
р (и у / Donn 1:00 Ам 12-28-12 р. у / Donn DN folgnion 6:00 ph - 12-27-12 И п he hait rine CHARGE TO: Mid (on tinent STREET	MILEAGE	LUG & FLOA	@ @ @ TOTAL	
р (и / Donn 1:00AM 12-28-12 р. у Donn DN folgnion 6:00ph - 12-27-12 И/2 hr bait rine CHARGE TO: Mid Continent STREET	MILEAGE	LUG & FLOA	@ @ @ TOTAL	rr .
р (му / Допа 1:00 Ам 12-28-12 р. 1 / Допа DN folanion 6:00 ph - 12-27-12 H/2 he bait Fine CHARGE TO: Mid (on Tinen+ STREET	MILEAGE	LUG & FLOAT	@ @ @ TOTAL	r r
р (му / Допа 1:00 Ам 12-28-12 р. 1 / Допа DN folanion 6:00 ph - 12-27-12 H/2 he bait Fine CHARGE TO: Mid (on Tinen+ STREET	MILEAGE	LUG & FLOA	@ @ @ TOTAL F EQUIPMEN @	T
<u>р (и у / Donn / 1:00 A и 12-28-/2</u> <u>р. у / Donn</u> <u>DM folanion 6:00 ph - 12-27-/2</u> <u>H/2 hr hait Fine</u> CHARGE TO: <u>M.'d (ontinent</u> STREET STREET CITY STATE ZIP	MILEAGE	LUG & FLOA	@ @ @ TOTAL F EQUIPMEN @	i r
р (и; /) Jon 1:00 / 12-28-12 р. · · ј /) Don DN folanion 6:00 ph - 12-27-12 И/2 hr bait rime CHARGE TO: M. · d (on Tinen+ STREET	MILEAGE	LUG & FLOA	@ @ @ TOTAL F EQUIPMEN @	

TOTAL

SALES TAX (If Any).

TOTAL CHARGES

DISCOUNT .

IF PAID IN 30 DAYS

PRINTED NAME

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.

	LA GAS SER	VICES, LLC		.#.		MENTING LÖG STAGE NO.
12-27-	<u>12</u> Distric	Great	and FS Tick		<u> </u>	EMENT DATA: Epacer Type: <u>Firshing</u> Amt 5655-Sks Yield ft ³ /sk Density 6.31
mpeny <u>'''</u>	1 Conti	NºH 7		11 No5		Amt. <u>5655</u> -Sks Yield ft ³ /sk Density <u>6.37</u>
unt <u>y tog</u>	ş	le e de	Sta	toK		
cation $\frac{124}{2}$	2.2 1	125 72	Fiel	d	L	EAD: Pump Time hrs. Type Excess
ASING DATA:	Conductor	_				Amt Sks Yield ft ³/sk Density
451] Surface 	_		Juction 🔲 Line	ョロ ī 名ノ	All Pump Time <u>thicken time</u> hrs. Type <u>61095</u>
•	iype <u>^</u>	vverg	Jin		A	Amt. 150 Sks Yield 1, 34 ft 3/sk Density 15.2
					v	NATER: Lead gals/sk Tail gals/sk Total
sing Depths: To	p-KB		. Bottom	21,70	P	Pump Trucks Used 34-7354 I
		<u></u>			E	Bulk Equip. <u>639 73-61 M</u>
					· _	
ill Pipe: Size	12/14	Weight		Collars X-h		
en Hole: Size _ PACITY FACTO		T.D	ft. P.	B. to		Float Equip: Manufacturer
sing:	یسے .Bbis/Lin. ft	3637	Lin. ft./Bt	15.7	<u>)</u> F	Float: Type Depth
en Holes:	Bbls/Lin. ft	2/11/2	, Lin. ft./Bb	3		Centralizers: Quantity Plugs Top Btm Stage Collars
ill Pipe: mulus:	Bbls/Lin. ft Bbls/Lin. ft	3176	Lin. ft./Bl Lin. ft./Bl			Special Equip
HIUIUS.						
	Bbls/Lin. ft	ft. to	Lin. ft./Bt	ft. Amt		Disp. Fluid Type <u>for Shind Type</u> Amt Bbls. Weight <u>for</u> Mud Type <u>Nay Make</u> Weight <u>for</u> CEMENTER <u>Dugy in C</u>
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ft. Amt ID PUMPED [P	Mud Type Weight
OMPANY REPR	ESENTATIVE			ft. Amt	I	Mud Type <u>Nay Magnin</u> Weight <u>4</u> CEMENTER <u>Dugy in C</u> REMARKS
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ft. Amt ID PUMPED [Pumped Per	DATA	Mud Type <u>Nay Magnin</u> Weight <u>4</u> CEMENTER <u>Dugy in C</u> REMARKS
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ft. Amt ID PUMPED [Pumped Per	DATA	Mud Type May Mud Weight 4 CEMENTER Dugytin C REMARKS DIV bold select y C
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ft. Amt ID PUMPED [Pumped Per	DATA	Mud Type May Mud Weight 4 CEMENTER Dugytin C REMARKS DIV bold select y C
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ft. Amt ID PUMPED [Pumped Per	DATA	Mud Type May Mud Weight 4 CEMENTER Dugytin C REMARKS DIV bold select y C
OMPANY REPR	ESENTATIVE	RES PSI	FLU	ID PUMPED [Pumped Per Time Period	DATA	Mud Type <u>Nay Magne</u> CEMENTER <u>Dugyin</u> REMARKS DIV bolazion - Riy 42 Hod safet y Marying Bun 574 Hodson y Riy An Hook 1 Cenent page
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED [Pumped Per Time Period	DATA	Mud Type <u>Nayin</u> Weight <u>free</u> CEMENTER <u>Dugyin</u> C REMARKS DIV bolaxing Remarks DIV bolaxing - Rig 4 2 Hed select y Merying Bun 5514 61510 9 Bun 556515 Grest work
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED [Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> CEMENTER <u>Dugytin</u> REMARKS DIV bolarioun - Rig 4 D Hed select y Morying Bun Star Erging Bun Star Erging Bun Star Erging Discopt Licentarion u, 126 Rig Min Hook 1, 2 Covert pungt Jung 56613 Greet unit
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> CEMENTER <u>Dugytin</u> REMARKS DIV bolarioun - Rig 4 D Hed select y Morying Bun Star Erging Bun Star Erging Bun Star Erging Discopt Licentarion u, 126 Rig Min Hook 1, 2 Covert pungt Jung 56613 Greet unit
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nayin</u> Weight <u>free</u> CEMENTER <u>Dugyin</u> C REMARKS DIV bolaxing Remarks DIV bolaxing - Rig 4 2 Hed select y Merying Bun 5514 61510 9 Bun 556515 Grest work
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> CEMENTER <u>Dugytin</u> REMARKS DIV bolarioun - Rig 4 D Hed select y Morying Bun Star Erging Bun Star Erging Bun Star Erging Discopt Licentarion u, 126 Rig Min Hook 1, 2 Covert pungt Jung 56613 Greet unit
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> Weight <u>free</u> CEMENTER <u>Dugytin</u> <u>C</u> REMARKS DIV bo (asimon <u>Riy</u> 4 D <u>Hed Jacket y Morying</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Hook y 2 (encing pung</u>) <u>Jung 56615 Grest work</u> <u>Nix 150 spas class fl 311ce 2444</u> <u>13 Sharin</u> <u>19 Sharin</u> <u>Cenen 7 did Liyentgre</u>
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> Weight <u>free</u> CEMENTER <u>Dag tin C</u> REMARKS DIV bo (at i Don - Bi'r 4, 2) Ho d safet y Marying Bun 5 14 61 5in 5 Bun 5 14 61 5in 5 13 rook 1: (cula, on 1; 4 Bi'r An Hook 1 2 (ene.17 page Jung 56 bi's Grest work Mi'r 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 19 19 10 13.06 6bi's Freedmander 19 10 13 10 10 11 12 11 12
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> Weight <u>free</u> CEMENTER <u>Dugytin</u> <u>C</u> REMARKS DIV bo (asimon <u>Riy</u> 4 D <u>Hed Jacket y Morying</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Bun 5514 et gin G</u> <u>Hook y 2 (encing pung</u>) <u>Jung 56615 Grest work</u> <u>Nix 150 spas class fl 311ce 2444</u> <u>13 Sharin</u> <u>19 Sharin</u> <u>Cenen 7 did Liyentgre</u>
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> Weight <u>free</u> CEMENTER <u>Dag tin C</u> REMARKS DIV bo (at i Don - Bi'r 4, 2) Ho d safet y Marying Bun 5 14 61 5in 5 Bun 5 14 61 5in 5 13 rook 1: (cula, on 1; 4 Bi'r An Hook 1 2 (ene.17 page Jung 56 bi's Grest work Mi'r 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 19 19 10 13.06 6bi's Freedmander 19 10 13 10 10 11 12 11 12
OMPANY REPR	ESENTATIVE	RES PSI	FLU TOTAL FLUID	ID PUMPED I Pumped Per Time Period	DATA	Mud Type <u>Nay Made</u> Weight <u>free</u> CEMENTER <u>Dag tin C</u> REMARKS DIV bo (at i Don - Bi'r 4, 2) Ho d safet y Marying Bun 5 14 61 5in 5 Bun 5 14 61 5in 5 13 rook 1: (cula, on 1; 4 Bi'r An Hook 1 2 (ene.17 page Jung 56 bi's Grest work Mi'r 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 13 150 9/45 Class A Freedmander 19 19 10 13.06 6bi's Freedmander 19 10 13 10 10 11 12 11 12
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SWIFT OPERATOR		MUST BE SIGNED BY CUSTOMER OR CLUSTOM START OF WORK OR DELIVERY OF GOODS	LEGAL TERMS: (the terms and cond but are not limited	¢	419	Loh	404	404	403	HDJ	281	221	578	575		REFERRAL LOCATION		9	1. NESS CAY, KS	Ser	10
SWIFT OPERATOR AND ANDE ATTSON		MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS	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												SECONDARY REFERENCE PART NUMBER	INVOICE IN	0	A SERVICE	a.	Services, Inc.	
ζ.		A	Medges and agrees t hereof which include SE, INDEMNITY, an				-						-	1	EI ACCOUNTING	TIONS	д Г	DE PETROMARY DAUG	TE CONTRACTOR	CITY, STATE, ZIP CODE	CHARGE TO ADDRESS
		SWIFT SERVICES, INC P.O. BOX 466 NESS CITY, KS 67560			ROTATING HEAD RENTAL	SHOE	2 Pu	PORT COLLAR TORT #	CEMENT BASKETS	CENTRALTISES	MUDFINSH	LEWIS Kel	Pump Charles	MILEAGE # 114	G DE DESCRIPTION		sur s'h."		SE COUNTYPARISH	21P COOR	Mrs Contrast Resources
		•				WAVTO FEIL	File	53									Laussprus	3			
	CUSTOMER DID NOT WISH TO RESPOND	OUR SERVICE WAS PERFORMED WITHOUT DELAY? RECORDINED THE EQUIPMENT AND PERFORMED JOB CALCULATIONIES JOB SATISFACTORILY? MIDE YOT SATIRETY WITH YOTB SERVICE?	rerformed performed own/7 AND			1 64			2 (2)	SIEA	Soder		S.	20 m	OTY. UM		WELL PERMIT NO.	Louro			
	D RESPOND		DECIDED				ألحنب سا	1364 Fr		512 "		·			OTY. UM		• .		DATE		
	TOTAL	sub to 1.2 1	PAGE TOTAL		200 00		368	2400 00	2000	50,00	74	大日	1500100	6.00	PROCE		BATTAN VA - 4 E		.3-13 om	PAGE 1	TICKET
Thank You!	11,45348	456125	634500		200100	350 00	25000	2400				50 8	1500 00	120 00	ANOUNT		m 2s He		43		

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1832																LAWAL 322	1-A22	CALSSAL	SALT		STANDARD CEMENT	Mon Contractor Resources	TICKET CONTINUATION
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TON MILES	CUBIC FEET								 -		-	-	 	 	 - <u></u>	125 uss	2 641	8 515	900/185	Solus	175 545	GROSE	
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JOB LC	G			0	SWIFT	Serv	ices, Inc.
MASS CO	TRAST	RESOURCES	WELL NO. #	5	1.8/48	SROSE	
CHART NO.	TIME	RATE (BPM)	(BBL POAL)	PUMPS	PRESSUR	RE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
	1600	(Drm)	NODEP(GAL)	T C	TUBING	CASING	Quilourion
							
	1645						START 5'2" CASENG IN WELL
					1		
							TD-4230 SET e 4229
					1		79-4233 5/2 15.5
					T	1	55-44
							CETTEALTZES - 1,2,3,4,67
					-		CMT BSKTS - 5,68
							PORT COLLAR - 1364 TOPJT " 68
	1845						DROP BALL - CORCULATE ROTATE
	1925	6	12	/		450	PUMP SOD GAL MUDFLUSH
	-						
	1927	6	20	✓		450	PUMP 20 BBIS KCL-FLUSH
	10.1					ļ	A
	1935		7				PLUG RH (305xx)
	10.1						
	1940	<u> </u>	<u>35</u>		·	200	Max Cement - 145 545 EA-2 e 15.4 PPG
	101						
	1950					 	WASH OUR PUMP . LINKS
	1950						
	1750						RELIASE LATTEH DOWN PLUG
	1955	7	0			<u> </u>	DESPUSE RUG
	1105		0		1	<u> </u>	USPACE 1005
		7	90			600	SHUT OFF ROTATING
			10			1000	SAM OFF RUAIDE
·	2008	6	99.7			Icon	PLUG DOWN - PST UP LATCH IN PLUG
	~~~~					1300	
	2010					OK	RELGASE PST - HEUS
			· · · · · · · · · · · · · · · · · · ·			The factor	
						1	WASH TRUCK
					1		
· ·	2100						JOB COMPLETE
							THANK YOU
							WAWE, BLAINE, JERMY

Thank You!	<b>b</b>						MX	SWIFT OPERATOR
4478 68	TOTAL	SPOND	CUSTOMER DID NOT WISH TO RESPOND		ED <b>24</b> AM 785-798-2300		TIME SIGNED	DATE SIGNED
148 68	10-3/0			WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORY ADD YOT CORE Y?	P.O. BOX 466 NESS CITY KS 67560	5	SAGOODS	START OF WORK OR DELIVERY OF GOODS
				WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS	SWIFT SERVICES INC.	DEMINITY, and	YMENT, RELEASE, INC rovisions.	LIMITED WARRANTY provisions.
4330 00	PAGE TOTAL	UN- DIS- DECIDED AGREE	AGREE	SURVEY OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	REMIT PAYMENT TO:	which include,	er hereby acknowledges on the reverse side hereof	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,
00 (252	8		104		Drycze (min)			282
352 20	04 2		12456		Sorvice che se	<u> </u>		581
250100	8-10NZ		109	hall	bet collar too Rent			<b>1</b>
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	12 50 8		_1		m Ch	•		5762
80,02/	<b>E</b> 7		Ē.		MILEAGE TREIS			575
AMOUNT					DESCRIPTION	LOC ACCT DF	SECONDARY REFERENCE/ PART NUMBER	PRICE SE
							INVOICE INSTRUCTIONS	REFERRAL LOCATION
	WELL LOCATION	WELL	WELL PERMIT NO.		precipient coment ant little	R	0,1	
			1xattor	VA VA	H-10			
	Jan 13 OWNER	DATE	on Brzine		E CIOSC COUNTRIPARISH		TICKET TYPE I CON	1. MAN 61
	PAGE 1					CITY, STATE, ZIP CODE	Inc.	Services,
	TICKET				Amelvica Univer	CHARGE TO: ADDRESS		
		یں						

SWIFT Services, Inc. DATE / Jan 13 JOB LOG TICKET NO. 2374 CUR OMERICAN LETTICT LEASE Grase WELL NO. coment part colking 5 CHART NO. RATE (BPM) VOLUME (BBL) (GAL) PUMPS PRESSURE (PSI) TIME DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING T C 1755/2 54AD w/4# Finceles 23-52 HODT (042AR - 1364 1600 on loc TRK 115 tost to 1000 psi - held 1670 100 1000 aper port coller 1635 1642 inj rate 46pm 6 600 psi 4 2 600 Mix SMD comment @ 11.7 pmg fluid to suface 4 1645 600 4 600 65 comment to supace 175 4 650 Destre Nixed 20 Displace up 42 hb H20 42 4 650 1707 close pat aller test to 100 ps; - hold Run 5 pinls kno 1000 1710 Poverse hole clain -2 cement plags -1720 20 anoh truck RACK up job complet Brine Journal