

Kansas Corporation Commission Oil & Gas Conservation Division

1069806

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

AFFIDAVIT

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

Submitted Electronically

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

Side Two



INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stem time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach com line Logs surveyed. Attach final geological well site report. Drill Stem Tests Taken (Attach Additional Sheets) Samples Sent to Geological Survey Yes No Cores Taken Yes No Electric Log Run Electric Log Submitted Electronically Yes No Electric Log Submitted Electronically	
time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach combine Logs surveyed. Attach final geological well site report. Drill Stem Tests Taken (Attach Additional Sheets) Samples Sent to Geological Survey Yes No Cores Taken Yes No Yes No Yes No Electric Log Run	
(Attach Additional Sheets) Samples Sent to Geological Survey Cores Taken Yes No Electric Log Run Name Top	bottom hole temperature, fluid
Samples Sent to Geological Survey	um Sample
Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No	Datum
(If no, Submit Copy)	
List All E. Logs Run:	
CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc.	
Purpose of String	Sacks Type and Percent Used Additives
ADDITIONAL CEMENTING / SQUEEZE RECORD	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone Depth Top Bottom Type of Cement # Sacks Used Type and Percent	Additives
Shots Per Foot PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squee Specify Footage of Each Interval Perforated (Amount and Kind of Material U	
TUBING RECORD: Size: Set At: Packer At: Liner Run:	
Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain)	
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil	Ratio Gravity
DISPOSITION OF GAS: METHOD OF COMPLETION: PR	ODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Leininger 1
Doc ID	1069806

Tops

Name	Тор	Datum
Anhydrite	1354	798
Chase	2338	-86
Heebner	3614	-1462
Lansing	3654	-1502
Base KC	3972	-1820
Pawnee	4052	-1900
Ft.Scott	4118	-1966
Cherokee	4134	-1982
Mississippian	4226	-2074
LTD	4264	-2112

Geological Report

American Warrior, Inc.

Leininger #1

990' FSL & 1950' FWL

Sec. 26 T18s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Leininger #1 990' FSL & 1950' FWL Sec. 26 T18s R21w Ness County, Kansas API # 15-135-25109-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason Alm
Spud Date:	April 29, 2011
Completion Date:	May 6, 2011
Elevation:	2146' Ground Level 2152' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 to HH Rd. South 300 ft. East and South into location.
Casing:	1374' 8 5/8" surface casing 2649' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log Tech, Inc. "Jared Long" CNL/CDL, DIL
Drillstem Tests:	None
Problems:	None
Remarks:	No drill stem tests were run due to lack of shows. Production casing was set over the Chase shallow

gas zones.

Formation Tops

	American Warrior, Inc.
	Leininger #1
	Sec. 26 T18s R21w
Formation	990' FSL & 1950' FWL
Anhydrite	1354', +798
Base	1389', +763
Krider	2238', -86
Winfield	2293', -141
Towanda	2366', -214
Heebner	3614', -1462
Lansing	3654', -1502
BKc	3972', -1820
Pawnee	4052', -1900
Fort Scott	4118', -1966
Cherokee	4134', -1982
Mississippian	4226', -2074
RTD	4264', -2112

Sample Zone Descriptions

Krider	(2238', -86):	Not Tested
	24 unit gas kick	
Winfield	(2293', -141):	Not Tested
	4 unit gas kick	
Towanda	(2366', -214):	Not Tested
	8 unit gas kick	
Mississippian Os	age (4226', -2074):	Not Tested

Dolo $-\Delta$ – Fine sucrosic crystalline with fair vuggy porosity, very heavy trip chert, heavily weathered with good vuggy porosity, barren, no fluorescents, no gas kick.

Structural Comparison

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Leininger #1	Jensen #3		Witthuhn #5-35	
	Sec. 26 T18s R21w	Sec. 27 T18s R21w		Sec. 35 T18s R21w	
Formation	990' FSL & 1950' FWL	1250' FSL & 680' FEL		1300' FNL &1800' FWL	
Anhydrite	1354', +798	1314', +798	FL	1360', +797	(+1)
Base	1389', +763	1349', +763	FL	NA	NA
Krider	2238', -86	NA	NA	NA	NA
Winfield	2293', -141	NA	NA	NA	NA
Towanda	2366', -214	NA	NA	NA	NA
Heebner	3614', -1462	3564', -1452	(-10)	3610', -1453	(-9)
Lansing	3654', -1502	3608', -1496	(-6)	3645', -1488	(-14)
BKc	3972', -1820	3926', -1812	(-8)	NA	NA
Pawnee	4052', -1900	4008', -1894	(-6)	4059', -1902	(+2)
Fort Scott	4118', -1966	4079', -1965	(-1)	4116', -1959	(-7)
Cherokee	4134', -1982	4094', -1982	FL	4132', -1975	(-7)
Mississippian	4226', -2074	4194', -2080	(+6)	4206', -2049	(-25)

Summary

The location for the Leininger #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. No drill stem tests were run due to lack of oil shows throughout the well. Although, there was substantial gas shows throughout the Chase Group. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the shallow Chase Group gas shows in the Leininger #1 well.

Recommended Perforations

Primary Perforations:		
Krider:	(2243' – 2254')	24 units
Before Abandonment:		
Winfield:	(2293' – 2298')	4 units
Towanda:	(2366' – 2370')	8 units

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

Withhuhn #5-35 1300' FNL 1800' FWL So	Anhydrite 1354' + 798 1355' + 797 Base 1389' + 763 1392' + 760 Krider 2238' - 86 Winfield 2366' - 214 Heebner 3614' - 1462 3614' - 1462 Lansing 3654' - 1502 3658' - 1506 BKC 3972' - 1820 3973' - 1821 Pawner 4052' - 1900 4063' - 1911 Fort Scott 4118' - 1966 4119' - 1967 Cherokee 4134' - 1982 4134' - 1982 Mississippien 4226' - 2074 4227' - 2075 Total Depth 4264' - 2112 4265' - 2113	GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LIST OPERATOR American Warrior, Inc. LEASE Leininger WELL NO. 1 FIELD Ryersee Northwest LOCATION 990 FSL : 1950 FWL SEC. 26 TWP. T185 RGE RZIW COUNTY Ness STATE Kansas CONTRACTOR Petromark Drilling, LLC Rig #1 COMME 4-29-2011 COMPS S- 8-2011 RTD 4265' SAMPLES SAVED FROM 3500' TO RTD DRILLING TIME KEPT FROM 3500' TO RTD SAMPLES EXAMINED FROM 3500' TO RTD GEOLOGICAL SUPERVISION FROM 3600' TO RTD	Hard Rock Consulting, I Jason Alm Petroleum Geologisa
en Warrior, Inc. cc. 35 T185 RZIW	Log Tech CNL/CDL, DIL T18s R2/w 26	IS-135-25/09-0000 LOG ELEVATION KB 215Z' DF GL 2146' Measurements Are All From Kelly Bushing CASING RECORD SURFACE 8/8 @ 1374' PRODUCTION 5/2"@2649' ELECTRICAL SURVEYS	Inc.
		FORMATION INTERNAL	DUE GEPH
		DESCRIPTION OF SHOW	NO SEE NAC T
		COS VANCASIS SIS	NYE DISPIN CEIT FEET HISIMIE
	Structurally tests were throughout		No. Interval 8
Respectfully Surface All S-8-ZOU	The location for the Leininger #. 3.0 seismic survey. The new well is as expected via the survey. No a conclusted clye to lack of oil show the well. Although, there was substituted been examined the clecision was much production casing to further evaluate on gas shows in the Leininger		DRILL STEM TESTS IFP/Time ISIP/Time FEP/Time BM-FHN III
mitted.	WGS	LEGEND GAAA CON CONTRACTOR CONTRA	
DEPTH LITHOLOGY	Anhydrite Sait Sandstons Shall DRILLING TIME Logarithmic Scale) 5 1 2 3 4 5 10 15	is 20 30 Limestone Ool.Lime Chert Dolomite REMARKS	
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REFERRAL LOCATION	-	INVOICE INSTRUCTIONS				
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HART			VOLUME	PUMPS	LEASE JEIN PRESSUR	NOEK	6 618 SIRFACE 2017						
NO.	TIME	RATE (BPM)	(BBL) (GAL)	T C	TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS						
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SWIFT Services, Inc.



DATE (MAY | | PAGE NO.

CUSTOMER ATTER	ICAN INA	RRIDA	WELL NO.		LEININGER H	JOB TYPE 5 2 LONGSTRING TICKET NO. 20785
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1300					ON LOCATION
	1325					START PIPE 53.14#
						RIDE 4265 SETE 2649
						SHOE JT 42.46.
·						(FUTRALIZERS 5, 10, 8, 9, 11
						BASKEIS 1,12
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	1500		#7			Pur 121 /20 = \
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	7-20-7	4	2)	7	1,00	MIX 755x SMD W/6AS STOP
			4/	7		17 13 3 X 31110 W 1003 310
	1535					WASH OUT PUMPING LINES.
	1537	10		7		RELEASE PLUC START DISPLACEMENT
,						
	1548	Ø	124	7	1200	PLUC DOWN PRISSURE UP LATCH PLUG
	1551					RELEASE PASSURE DRY
	1553					WASH TRUCK
	1630	,				JOB COMPLETE.
						THANKS \$ 110
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		· · · · · · · · · · · · · · · · · · ·				JASON JEFF DAUID
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