

Kansas Corporation Commission Oil & Gas Conservation Division

1048341

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 □ 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.
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) 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:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

AFFIDAVIT

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

Submitted Electronically

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

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Death		# Sacks	Used		Type and	Percent Additives			
Shots Per Foot	Foot PERFORATION RECORD - Bridge Plugs Set/Typ Specify Footage of Each Interval Perforated			s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole (Specify)	Perf.	Dually ((Submit AC		nmingled mit ACO-4)			

Form	ACO1 - Well Completion	
Operator	American Warrior, Inc.	
Well Name	Kuehn 5-1	
Doc ID	1048341	

Tops

Name	Тор	Datum
Anhydrite	1435	+755
Heebner	3659	-1469
Lansing	3706	-1516
ВКС	4030	-1840
Pawnee	4114	-1924
Ft. Scott	4195	-2005
Cherokee	4216	-2026
Mississippian	4284	-2094
RTD	4305	-2115



DRILL STEM TEST REPORT

American Warrior

Kuehn #5-1

PO Box 399

1-19s-22w/Ness

Garden City, KS 67846

Job Ticket: 38668 **DST#:1**

ATTN: Jason Alm Test Start: 2010.06.03 @ 19:18:29

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 21:12:29

Tester: Tyson Flax
Time Test Ended: 01:44:29

Unit No: 44

Interval: 4288.00 ft (KB) To 4305.00 ft (KB) (TVD) Reference Elevations: 2190.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD) 2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 6668 Inside

Press @RunDepth: 308.43 psig @ 4289.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2010.06.03
 End Date:
 2010.06.04
 Last Calib.:
 2010.06.04

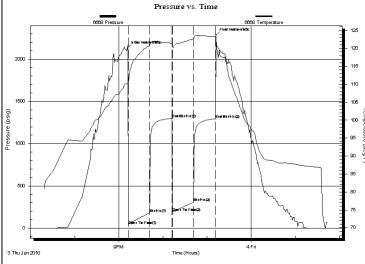
 Start Time:
 19:18:30
 End Time:
 01:44:29
 Time On Btm:
 2010.06.03 @ 23:11:59

 Time Off Btm:
 2010.06.03 @ 23:11:59

TEST COMMENT: IFP-BOB in 7 min

ISI-Blow back built to 8" FFP-BOB in 6.5 min

FSI-Blow back built to 3" died to 1.5"



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2125.16	110.21	Initial Hydro-static
1	36.38	109.38	Open To Flow (1)
30	180.48	120.76	Shut-In(1)
	1	1	

PRESSURE SUMMARY

- 80

121

2282.61

Recovery

Description	Volume (bbl)
MCWO 40%O,20%W,40%M	0.59
GMCO 20%G,60%O,20%TM	1.70
GCO 30%G,70%O	7.80
410' GIP	0.00
	MCWO 40%O,20%W,40%M GMCO 20%G,60%O,20%TM GCO 30%G,70%O

Gas Rates

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

122.70 Final Hydro-static

Trilobite Testing, Inc Ref. No: 38668 Printed: 2010.06.04 @ 08:22:27 Page 1



DRILL STEM TEST REPORT

FLUID SUMMARY

ppm

American Warrior Kuehn #5-1

PO Box 399 1-19s-22w/Ness

Garden City, KS 67846 Job Ticket: 38668 DST#: 1

ATTN: Jason Alm Test Start: 2010.06.03 @ 19:18:29

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 41 deg API Water Salinity:

Mud Weight: Cushion Length: 9.00 lb/gal ft bbl

Viscosity: 52.00 sec/qt Cushion Volume:

Water Loss: 9.19 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 4200.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCWO 40%O,20%W,40%M	0.590
120.00	GMCO 20%G,60%O,20%TM	1.701
550.00	GCO 30%G,70%O	7.796
0.00	410' GIP	0.000

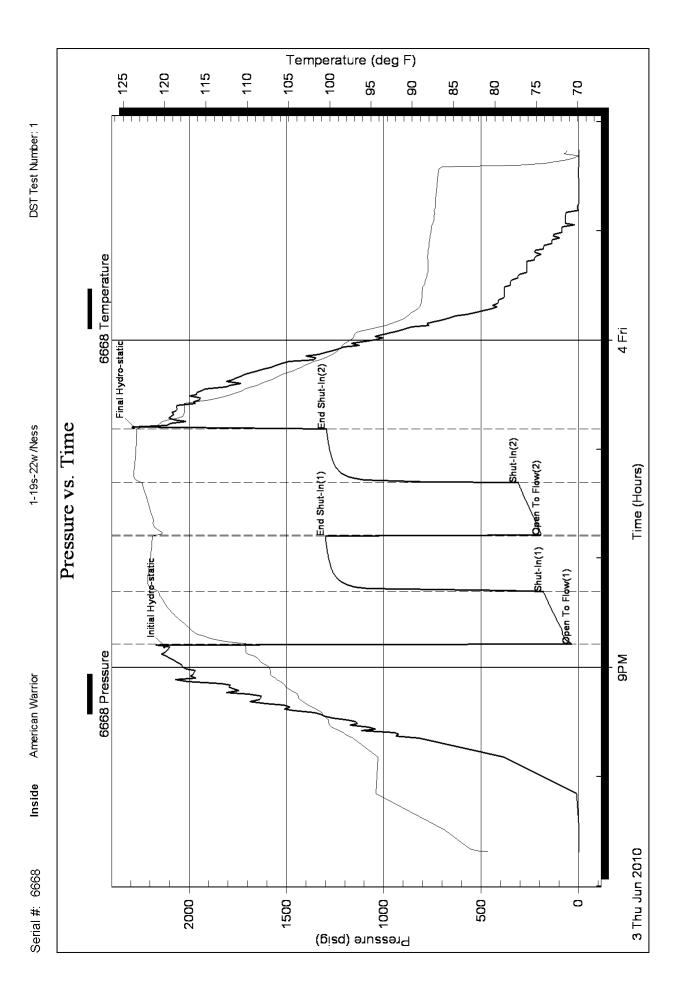
Total Length: 790.00 ft Total Volume: 10.087 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 38668 Printed: 2010.06.04 @ 08:22:28 Page 2



Printed: 2010.06.04 @ 08:22:29 38668 Ref. No: Trilobite Testing, Inc

Page 3

Geological Report

American Warrior, Inc. **Kuehn #5-1**1275' FSL & 2290' FEL
Sec. 1 T19s R22w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Kuehn #5-1 1275' FSL & 2290' FEL Sec. 1 T19s R22w Ness County, Kansas API # 15-135-25003-0000
Drilling Contractor:	Petromark Drilling, LLc Rig #1
Geologist:	Jason Alm
Spud Date:	May 28, 2010
Completion Date:	June 5, 2010
Elevation:	2184' Ground Level 2190' Kelly Bushing
Directions:	Bazine KS, from the south side of town, South on DD rd. 1½ mi. to 110 rd. West on 110 rd. 7/8 mi. North into location through cattle guard.
Casing:	220' 8 5/8" surface casing 4304' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Tyson Flax"
Problems:	None
Remarks:	None

Formation Tops

	American Warrior, Inc.
	Kuehn #5-1
	Sec. 1 T19s R22w
Formation	1275' FSL & 2290' FEL
Anhydrite	1435', +755
Base	1469', +721
Heebner	3659', -1469
Lansing	3706', -1516
BKc	4030', -1840
Pawnee	4114', -1924
Fort Scott	4195', -2005
Cherokee	4216', -2026
Mississippian	4284', -2094
RTD	4305', -2115

Sample Zone Descriptions

Fort Scott (4195', -2005): Not Tested

Ls – Fine to medium crystalline with poor to fair inter-crystalline porosity, light to fair oil stain with scattered saturation in porosity, slight show of free oil, light odor, bright yellow fluorescents. 196 units hotwire.

Mississippian Osage (4284', -2094): Covered in DST #1

Dolo – Δ – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, heavy chert, triptolitic, heavily weathered with good vuggy porosity, heavy oil stain and saturation, good show of free oil, strong odor, bright yellow cut fluorescents, 305 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Tyson Flax"

DST #1 <u>Mississippian Osage</u>

Interval (4259' – 4284') Anchor Length 25'

IHP - 2125 #

IFP - 30" - B.O.B. 7 min. 36-180 #
ISI - 30" - Built to 8 in. 1300 #
FFP - 30" - B.O.B. 6 1/2 min. 192-308 #
FSI - 30" - Built to 3 in. 1294 #

FHP - 2083 # BHT - 123°F

Recovery: 410' GIP

550' GCO Gravity: 41° API

120' GMCO 60% Oil

120' MCWO 40% Oil, 20% Water

Structural Comparison

Formation	American Warrior, Inc. Kuehn #5-1 Sec. 1 T19s R22w 1275' FSL & 2290' FEL	American Warrior, Inc. Kuehn #4-1 Sec. 1 T19s R22w 1420' FSL & 1350' FWL		American Warrior, Inc. Kuehn #3-1 Sec. 1 T19s R22w 648' FSL & 990' FEL	
Anhydrite	1435', +755	1420', +749	(+6)	1428', +759	(-4)
Base	1469', +721	1458', +715	(+6)	1462', +725	(-4)
Heebner	3659', -1469	3640', -1471	(+2)	3656', -1469	FL
Lansing	3706', -1516	3686', -1517	(+1)	3700', -1513	(-3)
BKc	4030', -1840	4009', -1840	FL	4030', -1843	(+3)
Pawnee	4114', -1924	4092', -1923	(-1)	4115', -1928	(+4)
Fort Scott	4195', -2005	4172', -2003	(-2)	4191', -2004	(-1)
Cherokee	4216', -2026	4192', -2023	(-3)	4210', -2023	(-3)
Mississippian	4284', -2094	4255', -2086	(-8)	4284', -2097	(+3)

Summary

The location for the Kuehn #5-1was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted 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 Kuehn #5-1 well.

Recommended Perforations

Primary:

Mississippian Osage: (4284' – 4300') DST #1

Before Abandonment:

Fort Scott: (4198' – 4204') Not Tested

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.

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

API # 15-135-25003-0000

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American Warrise, Inc.	GEOLOGIST'S REPORT
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EPSTATUS A	GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR

FIELD DeWald North

LOCATION 1275 FSL \$2290 FEL

COUNTY Ness STATE Konsos

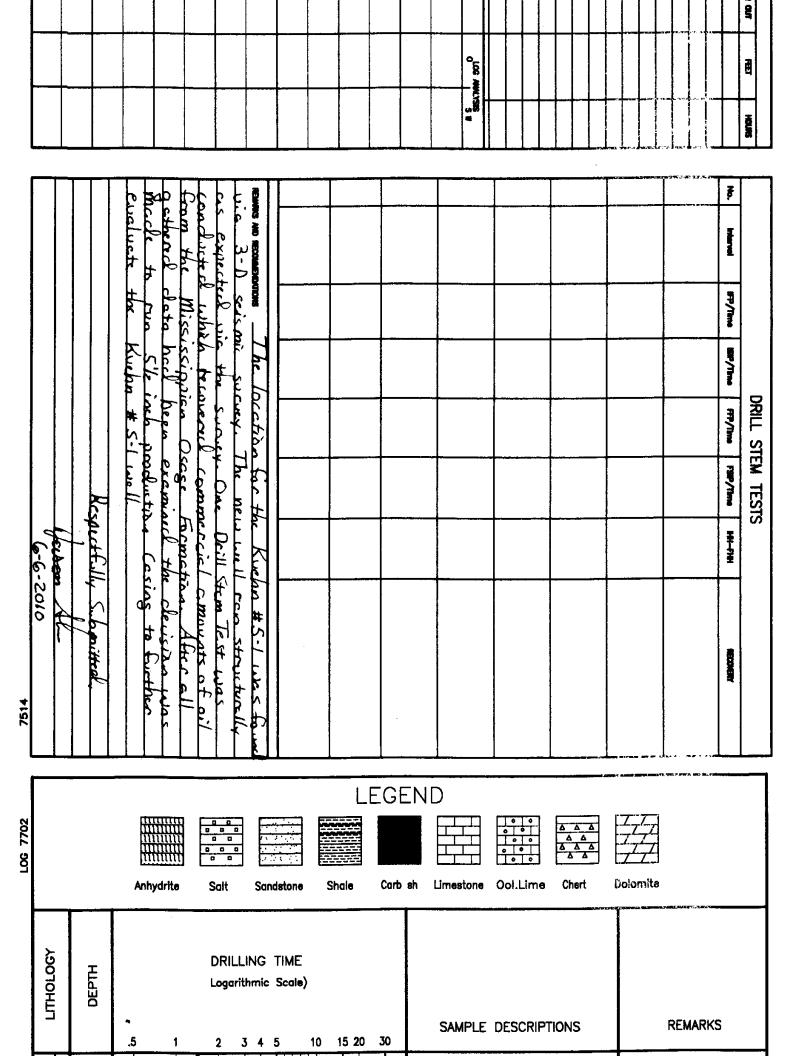
GEOLOGICAL SUPERVISION FROM SAMPLES SAVED FROM _ COMM. 6:28:2010 COMP. G.S. MUD UP 3400 SAMPLES EXAMINED FROM DRILLING TIME KEPT FROM MB 4305 3500 70 -300 3500 TYPE MUD (hemics 3700 None ี เ 2010 B RID B

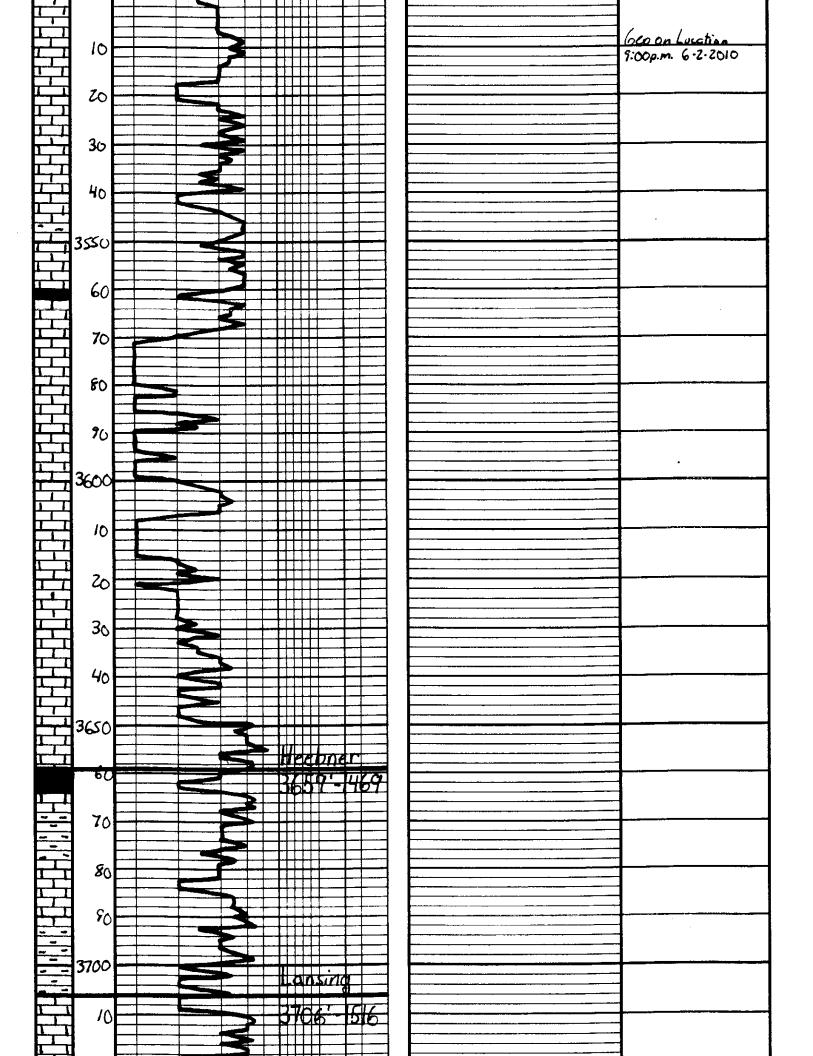
FORMATION	TOP LOG DATUM TOP	SAMPLE TOP DATUM	STRUCT.
Anhydrik		143S.+.2SC	÷6
Rose		7	194
Heeboer		13659 - 14691 + 2	42
Lensing		13706 - 1516	+1
RRC 0		14030'- 1 <i>8</i> 40	FL
Paumee		14114,-1624	- 1
Fort Scatt		H195'-20051	-2
Cherokec		H216:-2026	ر -
Mississionich		HZSH'-2094 -8	- 89
Total Depth		H305'-2115	

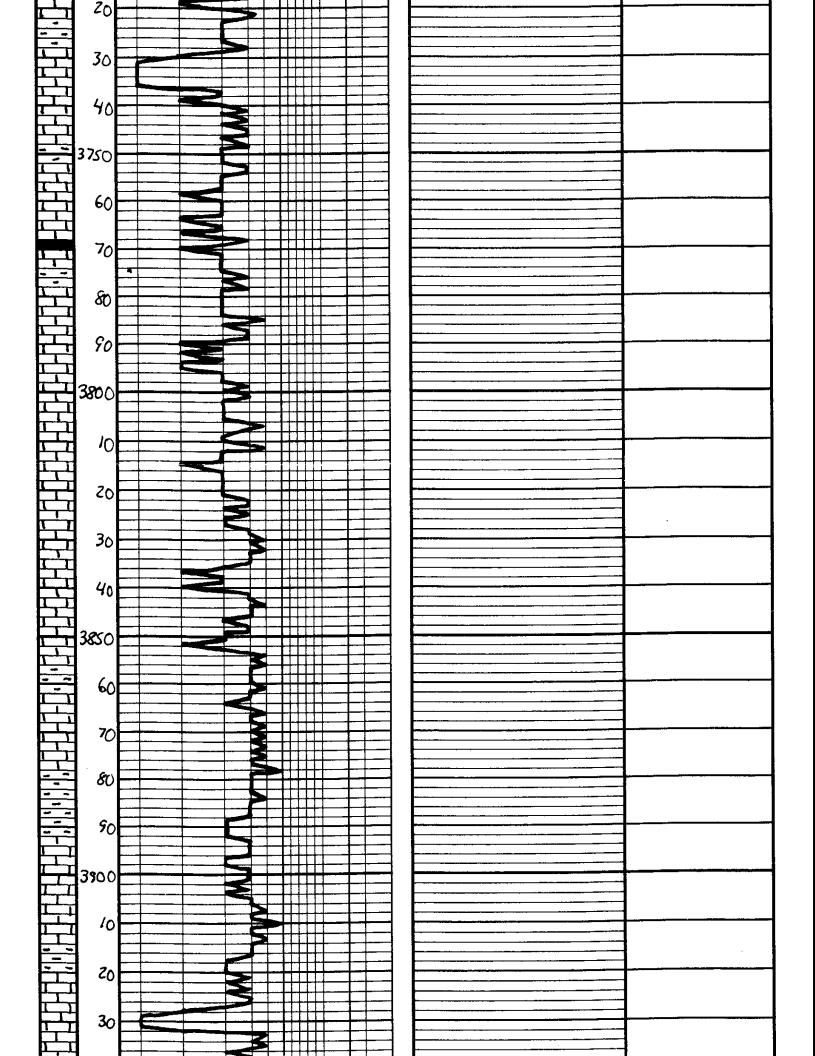
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Kuchn #4.1 1470'ESL 1350'FW Sec. 1 T195 R2ZW	REFERENCE WELL FOR STRUCTURAL COMPARISON AMERICAN (A) CLICA, The
195 R2Zw	a Wassing Tre

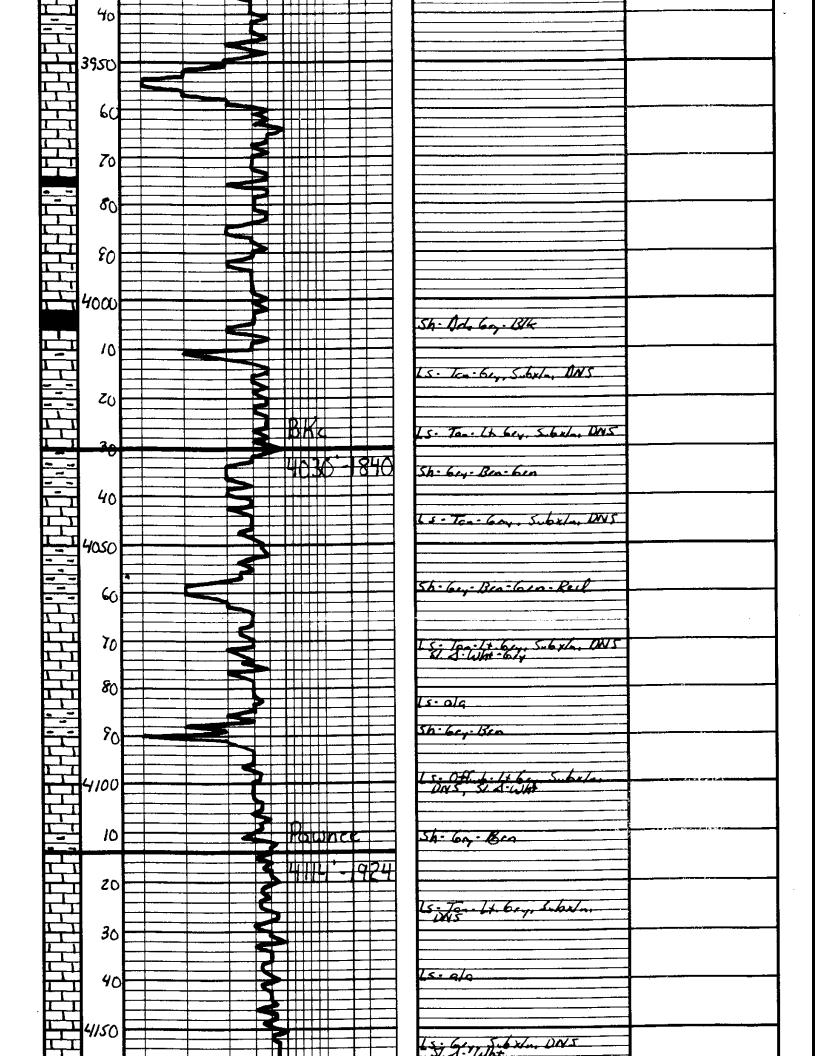
7195 RZZW	ELECTRICAL SURVEYS	CASING RECORD SURFACE 8/8 6 ZZC'	ELEVATION KB_2190' DF GL_2184' GL_2184' Measuraments Are All Measuraments Are All From Kelly Bushing	
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		.□ NO	TES TILL VILLE ON SERVICE	AIR LOO SALIST	785_798_2300		TIME SIGNI	DATE SIGNED
	ī x		JOB JOB SERVICE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	P.O. BOX 466 NESS CITY KS 67560		START OF WORK OR DELIVERY OF GOODS	TART OF WORK OR DE
4007 50	J		OUT DELAY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.)R TO	LIMITED WARRANTY PROVISIONS UST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRICE	IMITED WARR
<300 00			PERFORMED XXVIII XAND	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND WET YOUR MEETS?		of which include, IDEMNITY, and	the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT , RELEASE , INDEMNITY , and	ne terms and con out are not limited
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JOB LOG CUSTOMER SWIFT Services, Inc.

DATE - 4-10 PAGE NO

	RAN WA		<u>. 5</u>		MDA		WH3U	512" LONGSTRING TICKET NO. 17868
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	T	MPS C	PRESSUR TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0900							CATERIOS GO
	1000							START 51/2" CASING IN WELL
								TD-4305 SET = 4304
								TP-4306' S'2#15.5
								ST= 43
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								CMT BSKTS-5,68
					ije.			PORT COURC 1411' TOP JT #68
	1140							DOOP BALL - CORCULATE ROTAT
	1212	6	12		1		450	PUMP 500 GAL MUBTIUSH "
				5				
	1214	6	20		1		450	PUMP 20 BRS KCL-FLOSH "
	1220		77					PLUG RH (305KS)
	1223	4	35		V		200	MX COMOT - 145 SIX EA-2 = 15.5 PP6 ,
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	1232							WASH OUT PUMP. LINES
	1233							RELEASE LATCH DOWN PLUG
	1235	•	0		1			DISPLACE PLUG
		H	92				700	SHUT OFF ROTATING
	1236	61/2	101.5				1500	PING DOWN - PSTUP LATCH ZW PING
	1252						OK	RELEASE PSE-HELD
			V.					
								WASHTRUCK
	1330						<u> </u>	JOB COMPLETE
	الله الشياسة الد							THANK YOU
							 	WAYNE BRETT, LANE



SERVICE LOCATIONS

WELL/PROJECT NO.

ICKET TYPE CONTRACTOR

IN SERVICE

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REFERRAL LOCATION

INVOICE INSTRUCTIONS

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18560 TICKET

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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 LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED

6-21-10

SWIFT OPERATUR

NOSTE

TIME SIGNED 0830

SWIFT SERVICES, INC. P.O. BOX 466

REMIT PAYMENT TO:

SURVEY

AGREE DECIDED AGREE

NESS CITY, KS 67560 785-798-2300

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? ERFORMED WITHOUT DELAY? CUSTOMER DID NOT WISH TO RESPON 0 8 PAGE TOTAL TOTAL J. 1857 5.139 130310B 130 4173 50

ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby ac

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 5-21-10 PAGE NO

	M ME	Destrop I					WH30	CSMRT PORT COLUR 18560		
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