Confidentiality Requested: Yes No

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

1177120

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:	
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: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:     SWD Permit #:	
SWD         Permit #:           ENHR         Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date of Recompletion Date of Recompletion Date of Recompletion Date Rec	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 Two	1177120
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTOLICTIONS. Chow important tapa of formations panatrated Dat	ail all aaraa Bapart all fina	Leanian of drill atoms toots giving interval tootod, time tool

**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 She	eets)	Yes No	L	og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	,	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c			on, 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 / SQL	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No, skip	o questions 2 an	d 3)
		raulic fracturing treatment ex				question 3)	(m. 100 m)
Was the hydraulic fracturing	treatment information	n submitted to the chemical o	lisclosure registry?	Yes	No (If No, fill o	out Page Three o	of the ACO-1)

			DRD - Bridge Plugs Set/Type f Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Rec (Amount and Kind of Material Used)			Depth	
TUBING RECORD:	Siz	ze:	Set At	:	Packer	At:	Liner R		No	
Date of First, Resumed	Product	ion, SWD or ENHF	ł.	Producing Me	thod:	bing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI		GAS: Used on Lease			METHOD (		Comp.	Commingled	PRODUCTION I	NTERVAL:
(If vented, Su	bmit ACC	D-18.)		Other (Specify) _		(Submit )	400-5)	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Ryersee 2-36
Doc ID	1177120

# Tops

Name	Тор	Datum
Anhydrite	1349	795
Heebner	3598	-1454
Lansing	3640	-1496
Base Kansas City	3957	-1813
Pawnee	4055	-1911
Fort Scott	4105	-1961
Cherokee	4120	-1976
Mississippian	4197	-2053
TD	4209	-2065

# **Geological Report**

American Warrior, Inc. **Ryersee #2-36** 1550' FNL & 455' FWL Sec. 36 T18s R21w Ness County, Kansas



# **American Warrior, Inc.**

# **General Data**

Well Data:	American Warrior, Inc. Ryersee #2-36 1550' FNL & 455' FWL Sec. 36 T18s R21w Ness County, Kansas API # 15-135-25650-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason T Alm
Spud Date:	August 17, 2013
Completion Date:	August 24, 2013
Elevation:	2136' Ground Level 2144' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 4 ½ mi. South thru cattle guard 1 ¼ mi. East into location.
Casing:	<ul><li>221' 8 5/8" surface casing</li><li>4208' 5 1/2" production casing</li></ul>
Samples:	10' wet and dry, 3900' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "Jarrod Long" CNL/CDL, DIL
Drillstem Tests:	None
Problems:	None
Remarks:	None

	American Warrior, Inc.
	Ryersee #2-36
	Sec. 36 T18s R21w
Formation	1550' FNL & 455' FWL
Anhydrite	1349', +795
Base	1381', +763
Heebner	3598', -1454
Lansing	3640', -1496
BKc	3957', -1813
Pawnee	4055', -1911
Fort Scott	4105', -1961
Cherokee	4120', -1976
Mississippian	4197', -2053
RTD	4208', -2064
LTD	4209', -2065

#### **Formation Tops**

#### **Sample Zone Descriptions**

#### Cherokee "A" Sand (4134', -1990): Not Tested

SS – Quartz, clear, fine grained, well sorted fair to poorly cemented, sub-rounded with poor to fair inter-granular porosity, light spotted oil stain in cluster, slight show of free oil, no odor, fair cut fluorescents, 10 units hotwire.

#### Cherokee "B" Sand (4148', -2004): Not Tested

SS – Quartz, clear to slightly frosted, fine to medium grained, poorly sorted, poorly cemented, sub-rounded with fair to good inter-granular porosity, light to fair oil stain and saturation in cluster, fair show of free oil, light odor, fair to good cut fluorescents, very friable, 50 units hotwire.

#### Mississippian Osage (4197', -2053'): Not Tested

 $\Delta$  – Dolo – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with good vuggy porosity, light to fair oil stain and saturation in porosity, fair show of free oil, good odor, bright yellow fluorescents, 60 units hotwire.

## **Structural Comparison**

	American Warrior, Inc.	John Jay Darrah Jr.		American Warrior, Inc.	
	Ryersee #2-36	Ryersee #G		Ryersee #1-36	
	Sec. 36 T18s R21w	Sec. 36 T18s R21w		Sec. 36 T18s R21w	
Formation	1550' FNL & 455' FWL	3960' FSL & 4850' FEL		2560' FSL & 335' FWL	
Anhydrite	1349', +795	1352', +797	(-2)	1368', +782	(+7)
Base	1381', +763	1380', +769	(-6)	1400', +750	(+13)
Heebner	3598', -1454	3602', -1453	(-1)	3610', -1460	(+6)
Lansing	3640', -1496	3644', -1495	(-1)	3654', -1504	(+8)
BKc	3957', -1813	NA	NA	3969', -1819	(+6)
Pawnee	4055', -1911	NA	NA	4066', -1916	(+5)
Fort Scott	4105', -1961	4108', -1959	(-2)	4116', -1966	(+5)
Cherokee	4120', -1976	4122', -1973	(-3)	4131', -1981	(+5)
Mississippian	4197', -2053	4213', -2064	(+11)	4208', -2058	(+5)

#### **Summary**

The location for the Ryersee #2-36 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. No drill stem tests were conducted but commercial oil shows were encountered in the Cherokee Sands and the Mississippian Osage Formations. After all gathered data had been examined the decision was made to run  $5\frac{1}{2}$  inch production casing to further evaluate the Ryersee #2-36 well.

#### **Recommended Perforations**

Primary: Mississippian Osage	(4197' – 4207')	Not Tested
Secondary: Cherokee "B" Sand	(4148' – 4157')	Not Tested
Before Abandonment: Cherokee "A" Sand	(4134' – 4137')	Not Tested

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

Consulting, Inc.	Geologic Re Drilling Time and Sat						
Operator Americ	an Warrior	·, Inc.		El KB	evation 2144'		
Lease <b>Ryersee</b>		No.	2-36	DF	2136'		
API # 15-135-250	50 0000	1.01	200		ng Record		
	350-0000			Surface 8 5/8	3" @ 221'		
Field Ryersee				Production	n		
Location 1550' F	NL & 455' ]	FWL			" @ 4208' cal Surveys		
Sec. 36 Ty	wp. 18s	Rge.	21w	CNL/CDL, DIL			
County Ness	State	Ka	nsas				
Formation	Log	Log Tops Samp		le Tops Struct Con			
Anhydrite	134	9' +795	1359	+785			
Base		1' +763		+763			
Heebner	3598	8' -1454	3598'	-1454	-1		
Lansing		0' -1496	_	-1498	-1		
BKc		7' -1813		-1813			
Pawnee		5' -1911		-1911			
Fort Scott		5' -1961		-1965	-2		
Cherokee Mississippien		0' -1976 7' -2053	-	-1980 -2053	-3		
Mississippian	419	/ -2033	419/	-2053	+11		
Total Depth	4209	9' -2065	4208'	-2064			

Disc	overy Drillin	g Co. Inc.	Rig#3	
8-17-2013	Comp	leted	8-24-2013	
	3900'	То	RTD	
rom	3500'	То	RTD	
rom	3900'	То	RTD	
on From	3900'	То	RTD	
		8-17-2013 Comp 3900' from 3500' from 3900'	8-17-2013         Completed           3900'         To           Trom         3500'         To           Trom         3900'         To	3900'         To         RTD           from         3500'         To         RTD           from         3900'         To         RTD

Displacement 3400'

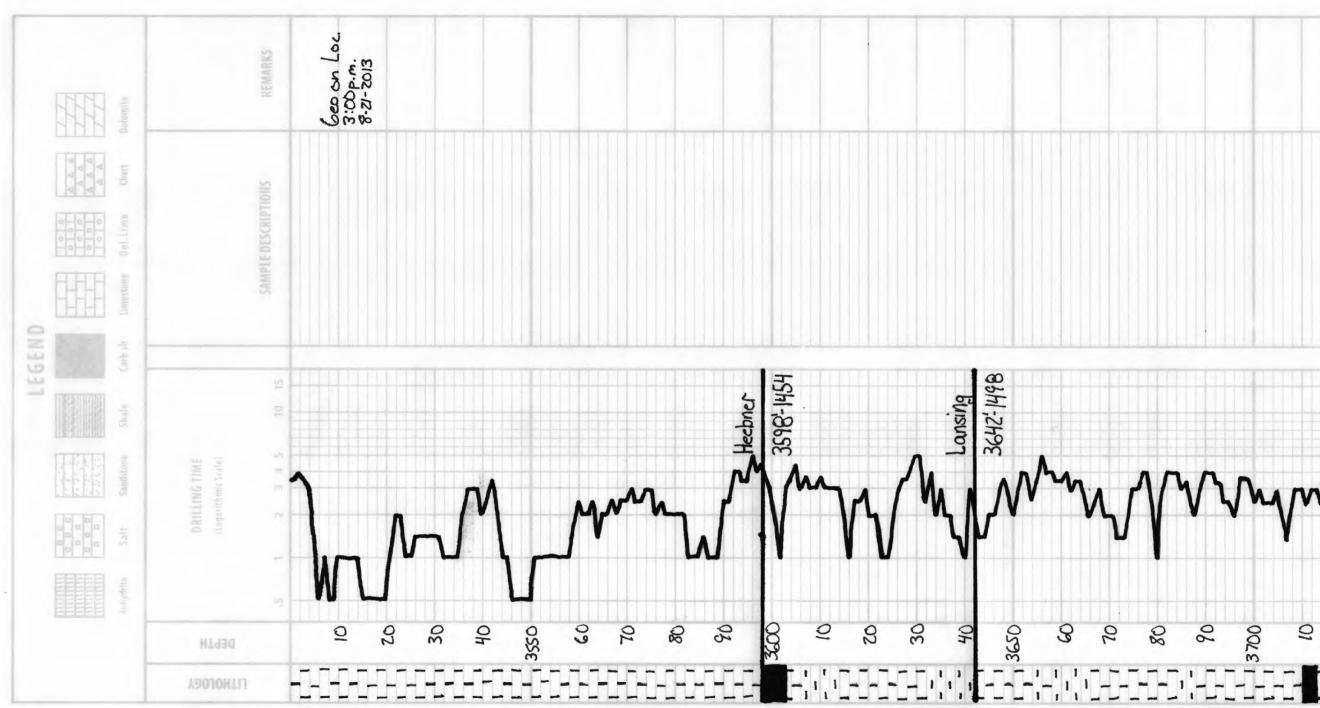
Mud Type Chemical

## Summary and Recommendations

The location for the Ryersee #2-36 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. No drill stem tests were conducted. Cherokee Sands and Mississippian Osage Formations looked good in samples and on electric logs. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Ryersee #2-36 well.

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.



Les. Partier a com partie Source	sh- Drk 6ry	LET Roth do the first Barring Cal. Sh. BIK LET Tower buy. SI. Mattel, Sub-	Ls - ela Sh - Bin - bin - Gay Ls - Oftiuh - Li . Gay, Subkla, DNS Ls - ale Ls - ale Sh - Dikling - Gay - Bin	Sh. Bin-biy-bin Ls- Ten-bi bin Jus Ls- qla Sh- bin-biy-Bin	LS - Lt. Gry, Subula, DNS LS - alg, introbulded Dik Gry Sh. LS - alg LS - ala LS - ala LS - ala Sh · Bik, Carb. Sh · Bik, S. Makel. Subuk.	<ul> <li>Sh- Enve Bin</li> <li>Le - Ten, Sl. Saudy, Rynixu, DNS</li> <li>Serger Ule, E., Kull Sart, Fair-Mark, Row Fair, 2005.</li> <li>Serger Ule, E., Kull Sart, Fair-Mark, Row Park, Env. 2015.</li> <li>Serger Ule - She Kull Sart, Fair Mark, Env. 315, 1320-37.</li> <li>Serger Ule - She Kull Sart, Fair Mark, Env. 315, 1320-37.</li> <li>Serger Ule - She Kull Sart, Fair Mark, Env. 315, 1320-37.</li> <li>Serger Ule - She Kull Sart, Fair Mark, Env. 315, 1320-37.</li> <li>Serger Ule - She Kull Sart, Fair Mark, Env. 315, 1320-37.</li> <li>Serger Ule - She She Kull - Uldt, Fair Mark, St. Flan, Kank, Kank, Kank, She Kull, Kank, Kank, Kank, Kank, She Kull, Kank, Kank,</li></ul>
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# ALLIE OIL & GAS SERVICE, LLC 061756

CEMENT

COMMON.

CHLORIDE

HANDLING

MILEAGE .

2/ 92

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

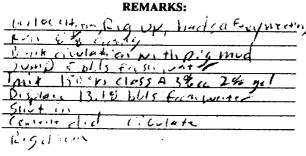
SERVICE POINT: Grand B. , 0

DATE 6-14-13	SEC.36	TWP J g	RANGE	21	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Ryanne		2-36	LOCATION	BUNG	inder The	Sec.	COUNTY	STATE
OLD OR NEW (Cin	cle one)					<u> </u>	1	•

CONTRACTOR De action	#3	OWNER
TYPE OF JOB S MEANS		×
HOLE SIZE 17 2	T.D.	CEMENT
CASING SIZE	DEPTH 222	AMOUNT
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	POZMIX
CEMENT LEFT IN CSG. 15 F	· +	GEL
PERFS.		CHLORID
DISPLACEMENT 13.14	·····	ASC

#### EQUIPMENT

PUMPTRUCK	CEMENTER Just. Isake
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BULK TRUCK	· · · · ·
# 3401 - 17.0	DRIVER ACTOR I.F. HOUSE
BULK TRUCK	
#	DRIVER



CHARGE TO: AIN MENTS STREET \_ CITY\_ \_\_\_\_\_\_ STATE \_\_\_\_ ZIP

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AMOUNT ORDERED 150 SKS (1435 A 22 -

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#### SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	Ø	
MILEAGE		
MANIFOLD	@	
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TOTAL

TOTAL \_\_\_\_

#### **PLUG & FLOAT EQUIPMENT**

To: Allied Oil & Gas Serv	ices, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was 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.

PRINTED NAMEX GAIEN GASCHLER SIGNATURE X John Guckle Think 100 المتكمة كتبر بتجراب جسانت الترجيب فالمتحاصر يسا

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TOTAL \_

IF PAID IN 30 DAYS

SALES TAX (If Any)-

TOTAL CHARGES \_\_\_\_\_

DISCOUNT.

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		<b>TFT</b>		\$ ··	ĊF	MENTING LOG STAGE NO.
	L & GAS SR	VICES, LL	C			
						CEMENT DATA:
Dete	Distri	ct <u>(</u>	red T	icket No. 6139	16	Spacer Type: Fin His inter
Company A!		Lotin	R	oficery	3	Amt 7 54.13 Sks Yield ft3/sk Density
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ocation	·		<u></u> Fi	eld <u> </u>		LEAD: Pump-Time hrsType
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Inc.         Inc. <th< th=""><th>Construction         Construction         No.         Example           Barrow No.         Bry Prof.         Boundarian         Boundarian</th><th></th><th>ICIAL</th><th>RESPOND</th><th>OMER DID NOT WISH TO</th><th></th><th></th><th></th><th></th><th></th></th<>	Construction         Construction         No.         Example           Barrow No.         Bry Prof.         Boundarian		ICIAL	RESPOND	OMER DID NOT WISH TO					
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USTOMER	DG		WELL NO		TIEADE	Sew	ices, Inc. 🔍	DATE 8-23-73 PAGENO.
Ameri	cun Wo	· · · · · · · · · · · · · · · · · · ·	WELL NO. "2-		LEASE	<u>~~</u>	JOB TYPE Coment 51/2 Longstring	TICKET NO. 23850
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL	PUMPS T C	PRESSURE TUBING	(PSI) CASING	DESCRIPTION OF OPERATION A	ND MATERIALS
	2130						on Location	
		ļ	+					
		ļ	+				RTD -42(8 1	10-4209
			<u> </u>				TP-4212 ST	
							P.C. * 65 1322'	51/2 15.5*
			╉────┤-				Centralizer - "12'3'4	
							Bushel - 4 5 65	125 shs EA-Jul/41
	2150						Start 51/2" 15.5 th cas	ing in well
	2325		+			<u></u>	Drop Ball Circulate	
							•	
<u>24-B</u>	0005	63/4	12			300	Pamp Salger Mud Fl	
		634	20	-11	·	₹D	Phimp 20 661 KCL Fl.	nsh
			2-5				Plug RH - MH	(30-20)
		1.11						
	0018	<u> 4%</u>	30			200	Mix 125 shs E1.2 @	15.6 ppg
							Wesh out Pump + Line	
·	·						Relase to Latch	Davn Plug
	0034	634		V		pc)	Start Displacement	
		L3/4	80			250	Start Displacement L.A. PSI	· · · · · · · · · · · · · · · · · · ·
		l'h,	91.9	1			Mar Lift PSI	
	0000	614	99.2	V	Ľ	FU	Loved Lotch Dawn Plue	)
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	2100						Job Complete	· · · · · · · · · · · · · · · · · · ·
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Thank You!				A.	1)	APPROVAL	- A	Jurd Kuchn	
6337 56	TOTAL	C RESPOND	CUSTOMER DID NOT WISH TO RESPOND		2 2 2 2 1			TIME SIGN	DATE SIGNED 9-10-13
238 56	17555 16.15%		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORIL Y? ARE YOU SATISFIED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR I	P.O. BOX 466 NESS CITY, KS 67560			OF GOOD	MUST BE SIGNED BY CUSTOM START OF WORK OR DELIVER
			S? S? S S S?	WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES. INC.		EMNITY, an	but are not limited to, <b>PAYMENT</b> , <b>RELEASE</b> , <b>INDEMNITY</b> , and <b>LIMITED WARRANTY</b> provisions.	but are not limited to, PAYMENT, LIMITED WARRANTY provisions
<b>6099</b>	PAGE TOTAL	EE DECIDED AGREE	VEY AGREE PERFORMED DOWN?	SURVEY OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			ind agrees t hich include	<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: C. the terms and condit
20	<u></u> 05C	2				<sup>m</sup>			582
350	28	175 sts			Service Charge Coment	ş			182
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AMOUNT	PRICE	QTY. UM	QTY. UM		DESCRIPTION	6 9	ACCOUNTING	SECONDARY REFERENCE/	PRICE
-								INVOICE INSTRUCTIONS	REFERRAL LOCATION
ME Sinte	Bazzine MS - 5	₽ĕ	WELL PERMIT NO.	Coller	LOBPURPOSE	Cive Canada	~ ₹		÷
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	E OWNER	DATE	Bazing			LEASE Rycrisce		ONS C. 1, KS WELLPROJECT NO.	SERVICE LOCATIONS
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25578	TICKET				an Warrior	American	CHARGE TO: ADDRESS	VIFT	IS SI
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JOB LO	DG			0		SWIFT	Serv	ices, Inc.
CUSTOMER Arner	ican We	WELL NO.			LEASE Ryersce		JOB TYPE JUST POUL Calley TICKET NO. 25578	
CHART NO.	TIME	RATE (BPM)	VOLUME	PUN		PRESSUR	le (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
<u>NO.</u>	1100	(DPM)	(BBL) (GAL)		C	TUBING	CASING	On Location
<u></u>	1		1	<u> </u>				2 34" × 5%"
			1	<u> </u>	1			236" × 5%" PC 1322' RBP - 3400
								Sout Sand - Ria Allrowly Did
								Spot Sand-Rig Allrowdy Did 175 sks SMD cml w/ 1/4 Flocele
							1	
	1150	2	32	-	1		100	Land Hole
	1205	Ø	Ø		4		1000	Pressure test - Hold-
								Open Port Collar
		2//		L-,		1		
	1220	31/2	4			400	<u> </u>	Injection Rate
	me	31/2	70			400		E DE CMO (VECLOUD)
	iws	312	70	1		400		Mix B5 sks SMD w/ 44 Flocele @ 11.2009 Fluid to Suiface
		32	65	1		300		Fluid to Surface 135 sts take 1
		<u></u>	00	-		300		
•·····	1242	31/2	41/2			400		Displace Coment 20 to pit
	1-1-		1.40			1-0		
	1215	Ø	6	/		1000		Close Port Collar - Hold.
		/				10		
	1255							Run SJts
	1300	3	JO		/		300	Reverse Clean
	1350	<u> </u>	40		2		400	Reverse Sund off Plug
						-		
								Wash up Truck
	1420							Sob Complete
	1430							Thank You
								Dave Flint John
								Cave Him Sound
<u></u>								