KOLAR Document ID: 1425936

Confiden	tiality Requeste	d:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:
	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 EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner 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 #: EOR 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 TwpS. R East West
Recompletion Date Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

KOLAR Document ID: 1425936

Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

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 Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	HIRT FARMS 3-29
Doc ID	1425936

Tops

Name	Тор	Datum
Heebner	3913	-1915
Brown Lime	4080	-2082
Lansing	4093	-2095
Stark	4351	-2353
Base KC	4478	-2480
Pawnee	4547	-2549
Cherokee Shale	4585	-2587
Viola	4653	-2665
Simpson	4780	-2782
Simpson Sand	4812	-2814

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	HIRT FARMS 3-29
Doc ID	1425936

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.75	23	256	Common		3%cc, 2% gel
Production	7.875	5.5	15.5	4866	Class A	200	60/40 Pozmix, salt

250 N. Water St., Suite #200 Wichita, KS 67202

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mu # 5

HURRICANE SERVICES INC

Customer	Griffin Ma	nagement	Lease & Well #	Hirt Farms 3-2	ç — — —			Date		8/3/2018
Service District	Medecine Lo	dge, Kansas	County & State	Pratt, KS	Legals S/T/R	29-2	9-15	Job #		
Јор Туре	surface	PROD		swd	New Well?	TES	No	Ticket #		ICT12
Equipment #	Driver			Job Safety An	alysis - A Discus	sion of Hazarda	& Safety Pr	ocedures		
	bill	Hard hat		Gloves		Lockout/Ta	qout	Warning Sig	ns & Flanding	
231	joe	H2S Monitor		Eye Protection		Required P		Fall Protectio		2
242	quinten/darrel	Safety Footwe	ar	Respiratory Pro	tection	Slip/Trip/Fa	ll Hazards	Specific Job	Sequence/Ex	pectations
	kenny	FRC/Protective	Clothing	Additional Cher	mical/Acid PPE	Overhead H		Muster Point		
	ryan	Hearing Protec	tion	Fire Extinguishe	۶r	Additional	oncerns or is	sues noted below		
	garret				Cor	nments				
		All chemicals and		n Medecine Lodge, Wrf & Cl		will				
Product/ Service Code		Descr	iption		Unit of Measure	Quantity				Net Amoun
001	Heavy Equip. One \	Nay			mi	30.00	T			\$82.88
002	Light Equip. One W				ml	30.00				\$38.25
003	Ton Mileage - One	way			mi	270.00			1	\$298.35
019	Cement Pump				ea	1.00				\$807,50
p006	Regular - Class A C	ement			sack	200.00				\$2,762.50
p016	Bentonite Gel				lb	600.00	<u> </u>			\$153.00
017	Calcium - Chloride				lb	400.00				\$340.00
p020	FLO-Seal				lb	80.00				\$146.20
				7						
			· · · · · · · · · · · · · · · · · · ·							
					-					
Cuelon	ner Section: On the	following costs he	www.uki wow rate t	Jurienno Sominos						
Guston						T			Net:	\$4,628.6
Not	How sat Satisfod 1 2 If asked, how likel	3 4 5		9 10 Extorne	Hy Salisfied	Services relies on	to be sales tax the customer pr to make a deter	exempt. Hurricane	Sale Tax: Total:	\$ - \$ 4,628.6
Uns	□ □ □ knty 1 2 3		0 0 0 6 7 8	ОО 9 10 ем	romoly Likely	HSI Represe	ntative;	Bill Spauldi		

Underson 1 2 3 4 5 6 7 7 8 9 10 Extended Juliana Line Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total Invoice due on or before the 30th day from the date of invoice. Peat due collection, Customer heraby agrees to pay all fees directly or Indirectly Incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates cally and are good for 30 days from the set and or these services. The mediately due and subject to collection. Prices quoted are estimates cally and are good for 30 days from these services. The full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates cally and are good for 30 days from these services. The fully moving these services. The fully may discount is besed on 30 days not payment terms or cash. <u>DISCLAIMER NOTICE</u>: Technical data is presented in good failth, but no warranty is staled or for point due set of recording to a fully or advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the acceptation colline to receive services by HSI may and the results that may be achieved and should be used for congenison purposes and HSI makes no guarantes of call event and property while HSI to no location performance. Customer represents and warrants that we detain services and HSI makes survices by HSI. Likewise, the customer guarantees or call acceptation condition to receive services by HSI. Likewise, the customer guarantes and property while HSI to no location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricen has been provided accuptate welly formation in datamining l

CUSTOMER AUTHORIZATION SIGNATURE

TREATMENT REPORT



HURRICANE SERVICES INC

Field Rep: JR (fin Management		Date:	8/3/2018	Ticket #:		1262
of a second second second							
Address: P.O.	. Box 347						
City, State:	Pratt	Kansas					
County, Zip:	Pratt	67124					
Field O	rder No.:		Open Hole:	12,25			
We	Il Name: HI	rt 3-29	Casing Depth:	256	Perf D	epths (ft)	Per
ų	ocation: Prat	t county	Casing Size:	8 3/4			
Fo	rmation:	a second s	Tubing Depth:	0 0/4			
Type of	Service: CE	ement	Tubing Size:			-	<u> </u>
, W	ell Type: oil a	and gas	Liner Depth:				
Age	of Well:	new	Liner Size:				
	er Type:		Liner Top:				
	r Depth:		Liner Bottom:				
Treatm	ent Via:		Total Depth:			1	
TIME FI	INJECTION RATE	PRESSURE STP ANNUL	US	REMARKS	PROP (lbs)	HCL (als)	
			US	REMARKS	PROP (lbs)	HCL (gls)	
12:45 PM			arrive location pre job	safety meeting			
12:45 PM 1:00 PM			arrive location pre job made contact with too	o safety meeting ol pusher			
12:45 PM 1:00 PM 2:00 PM			arrive location pre job made contact with too drill pipe stuck return	o safety meeting ol pusher ed to shop			
12:45 PM 1:00 PM			arrive location pre job made contact with too drill pipe stuck return rearrived location pre	o safety meeting ol pusher ed to shop			
12:45 PM 1:00 PM 2:00 PM 6:00 PM			arrive location pre job made contact with too drill pipe stuck return rearrived location pre rig up to casing	o safety meeting ol pusher ed to shop job safety meeting			(bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM			arrive location pre job made contact with too drill pipe stuck return rearrived location pre rig up to casing break circulation with	o safety meeting of pusher ed to shop job safety meeting h2o			(bb)s 6 bb)s
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM			arrive location pre job made contact with too drill pipe stuck return rearrived location pre rig up to casing	o safety meeting of pusher ed to shop job safety meeting h2o			(bbis 6 bbis 50 bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 1:00 PM 1:00 PM 1:05 PM 1:10 PM 1:10 PM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @	o safety meeting of pusher ed to shop Job safety meeting h2o 2 14.8 ppg			(bb)s 6 bb)s
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12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:00 PM 11:00 PM 11:10 PM 11:40 PM 11:45 PM 2:00 AM 2:05 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su	o safety meeting of pusher ed to shop Job safety meeting h2o 2 14.8 ppg			(bbis 6 bbis 50 bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM 11:05 PM 11:05 PM 1:40 PM 1:45 PM 2:00 AM 2:05 AM 2:16 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su close in valve	o safety meeting of pusher ed to shop Job safety meeting h2o 2 14.8 ppg			(bbis 6 bbis 50 bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:00 PM 11:00 PM 11:10 PM 11:40 PM 11:45 PM 2:00 AM 2:05 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mlx 200 sks cement @ begin displacement circulate cement to su close in valve wash up pump truck	o safety meeting of pusher ed to shop job safety meeting h2o 0 14.8 ppg			(bbls 6 bbls 50 bbls
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM 11:05 PM 11:05 PM 1:40 PM 1:45 PM 2:00 AM 2:05 AM 2:16 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su close in valve wash up pump truck rig down trucks	o safety meeting of pusher ed to shop job safety meeting h2o 0 14.8 ppg			50 bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM 11:05 PM 11:05 PM 1:40 PM 1:45 PM 2:00 AM 2:05 AM 2:16 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su close in valve wash up pump truck rig down trucks	o safety meeting of pusher ed to shop job safety meeting h2o 0 14.8 ppg			(bbls 6 bbls 50 bbls
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM 11:05 PM 11:05 PM 1:40 PM 1:45 PM 2:00 AM 2:05 AM 2:16 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su close in valve wash up pump truck rig down trucks	o safety meeting of pusher ed to shop job safety meeting h2o 0 14.8 ppg			(bbis 6 bbis 50 bbis
12:45 PM 1:00 PM 2:00 PM 6:00 PM 11:00 PM 11:05 PM 11:05 PM 11:05 PM 1:40 PM 1:45 PM 2:00 AM 2:05 AM 2:16 AM			arrive location pre job made contact with too drill pipe stuck returns rearrived location pre rig up to casing break circulation with mix 200 sks cement @ begin displacement circulate cement to su close in valve wash up pump truck rig down trucks	o safety meeting of pusher ed to shop job safety meeting h2o 0 14.8 ppg			(bbis 6 bbis 50 bbis

	SUMN	ARY	- in the second
Max FI, Rate	Avg FI, Rate	Max PSI	Avg PSI
-	#DIV/01	-	#DIV/01

PRODUGTS USED

200 sks of class A cement, 600 lbs calcium 400 lbs gel 80lbs pheno

Customer:

Treater:

250 N. Water St., Suite #200 Wichita, KS 67202

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Inv # 39444

HURRICANE SERVICES INC

Customer	Griffin Ma	nagement	Lease & Well #	Hirt3-29					Date	8/9	0/2018
			County & State		10	gals S/T/R	Seo 29-T29	S-R15W	Job #	IC	T1271
Service District	Medicine					lew Well?	TYPES	[No	Ticket #		ICT12
		10 PROD			aty Analysis	s - A Discuss	ion of Hazards	Contraction of the local division of the loc	cedures		
Equipment #	Driver			Gloves	and the second		Lockout/Tago		Warning Signs	& Flagging	
	Retherford, R Halcomb, J	Hard hat		Eye Protec	tion		Required Pen		Fall Protection	33 5	
176/251	Chuck	H2S Monitor		Respirator		,	Slip/Trip/Fall		Specific Job Sec	uence/Expec	tations
170/201		Safety Footwe			 Contraction 		Dverhead Ha		Muster Point/N		
	Dawson, K	Hearing Prote		Fire Exting			Additional co				
		Upreating Prote		ET lie bailing		Con	nments	,		I	
		Sure fooling beca	ause of mud.								
Product/ Service Code		Desc	ription		Unit	of Measure	Quantity				Net Amoun
2001	Heavy Equip, One V	Nay				mi	60.00				\$165.75
:002	Light Equip. One W	lay				ml	30,00				\$38.25
P006	Regular - Class A C	Cement				sack	200.00				\$2,762.50
:P010	60/40 Pozmix Cem	ent				sack	. 25.00				\$273.08
P023	Salt					sack	23.00				\$138.86
P040	Fluid Loss Addilive - Comenting					lb	113,00				\$792.41
P018	KOL-Seal					1b	1,000.00				\$652.50
P019	GYP-Seal					lb	900,00				\$344.25
P029	Defoamer					lb	47.00				\$239.70
P036	Matsolite					lb	200.00				\$302.60
:003	Ton Mileage - One	way				៣វ	365.40				\$403.77
:019	Cemerit Pump					ea	1.00				\$807.50
:012	Cement Plug Conta	iner				job	1.00				\$233.75
PD95	5 1/2 LD Plug & Ba	file				oa	1.00				\$282,63
P093	5 1/2" Centralizers					ea	6,00			~~~~~	\$408.00
PDA3	5 1/2" Guide Shoe					Ba	1.00				\$340.00
	5 1/2" Float Collar			· · · · ·		63	1.00				\$297.60
F101	Liquid KCL Subslite	ule				gal	10.00				\$244.38
									-		
Cust	omer Section: On l	he following scale	how would you tale	Hurricane Ser	vices Inc.?					Net:	\$8,625.
							Total Taxable	\$ -	Tax Rate:		\geq
	ased on this job, ho DDD Urasy 12	ow likely is it you	would recommend			Jai	State tex laws der used on new well Services relies on	em certain prod s to be sales ta the customer p to make a det	ucts and services x exempt. Hurricane oravided well ermination if services	Sale Tax: Total:	\$
							HSI Represe	entative:	Robert Reth	orford	

TERMS: Cash in advance unless Hurricane Services Into. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of Invoice. Past due accounts shall pay linterest on the balance past due at the rail of 1 X% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an eagency and/or altomay to affect the collection. Lottome haraby agrees to pay all fees directly incurred for such cellection. In the event the HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price or indirectly incurred for such cellection. In the event that Customer's excount with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net involce price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of price angliance and price angliance and revoke any discounts previously due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of a days from the date price adjusted price adjustments. Actual charges may vary depending upon line, equipment, and matriarital intradety required to perform these services. Any discount is based on 30 days not payment lems or cash. <u>DISCLAIMER NOTICE</u>: Technolai data is presented in a bord fith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations guarantees of (thure production proformance, Customer represents and warrants that wells a basimate of the accutal tesults that may be achieved and should be used for comparison purposes and HSI makes no guarantees of full fully enduction areas to a twell and all associated equipment in accutal tesults that may be achieved and acceptance of all terms/conditions stated above, and HUI makes no provided accurates well inform

CUSTOMER AUTHORIZATION SIGNATURE

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HURRICANE SERVICES INC

	stomer: Griffin Management				Date:	8/9/2018		Ticket #:	ICT1	271
Field Rep: JR Griffin										
Address:	P.O. Box 347	,								
City, State: Pratt Kansas			sas							
County, Zip:			and the second se							
FI	eld Order No.:	- <u></u>		and the second second second	Open Hole:	7 7/8	٦	Perf D	epths (ft)	Perfs
	Well Name:	Hirt	3-29		Casing Depth:	4880,13	-			
	Location: Pratt County, Sun City			Casing Size:	5 1/2 20# & 15.5#	-				
	Formation:			Section and	Tubing Depth:		-1			
Ty	pe of Service:	Cen	nent		Tubing Size:		-			
	Well Type:		Gas		Liner Depth:		-			
	Age of Well:	Ne	w		Liner Size:	and a straight of the	1			
	Packer Type:				Liner Top:		1			
	Packer Depth:				Liner Bottom:		-			
T Tu P	reatment Via:				Total Depth:	4880				
							_		Total Perfs	0
TIME	INJEGTIO FLUID	ON RATE N2/CO2	PRESS	SURE ANNULUS	artera, ili	REMARKS		PROP (lbs)	HCL (gls)	FLUID (hbis)
TIME 5:00 AM				ANNULUS	Arrive on location					
and the second data				ANNULUS	Arrive on location Put float equipment					
5:00 AM				ANNULUS						
5:00 AM 9:30 AM				ANNULUS	Put float equipme	nt on casing				
5:00 AM 9:30 AM 11:00 AM				ANNULUS	Put float equipme Rig Up	nt on casing				(bbls)
5:00 AM 9:30 AM 11:00 AM 11:30 AM	FLUID			ANNULUS	Put float equipmen Rig Up Rig break circulat	nt on casing ion Irculation				(hbls)
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM	FLUID 2.0				Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement	nt on casing ion irculation avenger				(bbls) 5. 6.
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lin	nt on casing ion :Irculation ivenger ies				(bbls) 5. 6. 52.
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:55 PM 1:15 PM 1:20 PM	FLUID 2.0 2.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and Iir Displace 2% Kci w	nt on casing ion circulation ivenger nes vater				(bbls) 5 6 52
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater				(bbls) 5. 6. 52.
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:55 PM 1:15 PM 1:20 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and Iir Displace 2% Kci w	nt on casing ion circulation ivenger nes vater				(bbls) 5 6 52
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:49 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater				
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:49 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater			(gls)	(bbls) 5. 6. 52.
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater			(gls)	(bbls) 5 6 52
5:00 AM 5:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater			(gls)	(hbis) 6 6 62
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:65 PM 1:15 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater			(gls)	(bbls) 5 6 52
5:00 AM 9:30 AM 11:00 AM 11:30 AM 12:40 PM 12:48 PM 12:65 PM 1:16 PM 1:20 PM 1:40 PM	FLUID 2.0 2.0 5.0			ANNULUS	Put float equipmen Rig Up Rig break circulat Pump and break c Mix and pump sca Cement flush pump and lir Displace 2% Kcl w Check float, it held	nt on casing ion circulation ivenger nes vater			(gls)	(bbls) 5 6 52

anna de la la	SUMM	ARY		
Max Fi. Rale	Avg F1. Rate	Max PSI	Avg	PSI
6.0	4.0	-	#DI	V/01

PRODUCTS USED 25 sks 60/40 POZ as Scavenger mixed at 13 ppg with 8.3 gal/sk, 200 sks A with 10%Salt, 5% Gypsum, 5# Kol seal, 1/4% Defoamer, 6/10% Fluidloss, 1% Sodium Metasilicate, mixed at 15 ppg with 6.89 gal/sk yielding 1.46 cufl/sk

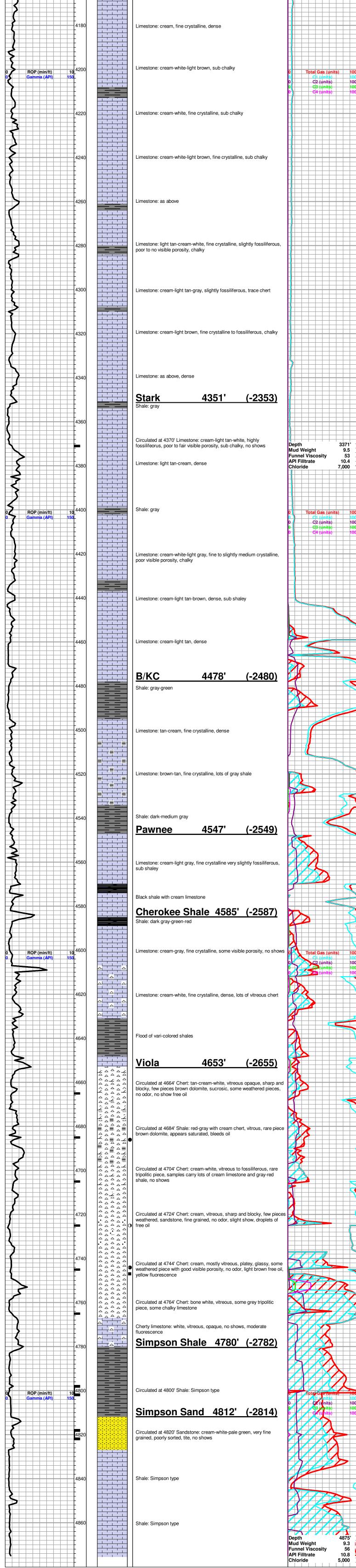
Customer:

Treater:

1

				RATOR		
	Company: Address:	Charles N G PO Box 347 Pratt, KS 67	,	47		
Contact	t Geologist: Phone Nbr: Well Name: Location: Pool:	#3-29 Hirt F Section 29-2		V	API: Field:	15-151-22478
	State:	Kansas			Country:	USA
	Well Name:	#3-29 Hirt F	arms	240 Imperial		
	m Location: m Location: API:	Section 29-2		V		
	se Number: Spud Date:	8/3/2018	0		Time:	8:45 PM
Drilling	Region: Completed:	Pratt County 8/8/2018			Time:	7:30 AM
Bottom Hole C		3050' FSL &	& 660' F	EL		
K.B	d Elevation: . Elevation: .ed Interval:	1993.00ft 1998.00ft 3800.00ft			To:	4875.00ft
-	Total Depth: Formation:	4875.00ft				
Drilling	Fluid Type:	Chemical (N				
	Well Type:	SURI Vertical	FACE C	O-ORDINATE		
	Longitude: N/S Co-ord: Z/W Co-ord:	3050' FSL 660' FEL			Latitude:	
	./ W 00-010.	000 TEL	LOG	GED BY		
	Company:		Y S	ATE ERVICE,		
	Address:	1632 S. We Wichita, KS	st St. Si	uite 12		
	Phone Nbr: Logged By:	316-617-395 Geologist	59		Name:	Bruce Reed
	Contractor:	WW Drilling		RACTOR		
	Rig #: Rig Type: Spud Date: TD Date: lig Release:	4 mud rotary 8/3/2018 8/8/2018 8/9/2018			Time: Time: Time:	8:45 PM 7:30 AM 6:00 PM
	. Elevation: to Ground:	1998.00ft 5.00ft	ELEV	ATIONS Ground	Elevation:	1993.00ft
		5.001	NC	DTES		
Surface Casing: Production Casing:		-5/8" at 259' -1/2" at 4866	;'			
Daily Penetration:	0 0 0	8/03/18 8/04/18 8/05/18 8/06/18 8/07/18	Spud 259' 1886' 3255' 4305'	@ 8:45 PM		
		8/08/18 8/09/18	4850' 4875'	Drilling com Rig Released		
			FORM	MATION TO	PS	
Formation	Sample 7	Гор Datum		Log Top	Datum	Comparison*
Heebner	3913'	-1915		<u>3914'</u>	-1916	-15
Brown Lime Lansing	4080' 4093'	-2082 -2095		4078' 4091'	-2080 -2093	-13 -18 -16
Stark	4351'	-2353		4350'	-2352	-17
Base KC Pawnee	4478' 4547'	-2480 -2549		4478' 4548'	-2480 -2550	-18 -19
Cherokee Shale Viola	4585' 4653'	-2587 -2665		4584' 4652'	-2586 -2654	-21 -24
Simpson Simpson Sand	4780' 4812'	-2782 -2814		4780' 4810'	-2782 -2812	-34 -35
Surfoon Stand		_011			_01_	
*Vincent Oil Corp,	#2-29 Hirt]	Farms, 100' S	NE SI	E Section 29-2	29S-15W, P	ratt County, Kansas
				(TYPES		
△ △ △ △ Cht □ □ □ □ Lmst fw7>		e, gry oon Sh	• <u>••••</u> •	Ss		
			ACCE	SSORIES		
MINERAL ∠ Dolomitic • Sandy						
 △ Chert White ■ Argillaceous/Shale 						

			OTHER SYMBOLS	
INTERVALS Core	Oil Show ● Good S	Show	DST DST Int	
· DST	 Fair Sh Poor Sh Spotted 	how	DST alt Core I tail pipe	
	O Question D Dead C	onable Stn Dil Stn		
	■ Fluores ★ Gas	scence		
Curve Track #1		1 1	Printed by GEOstrip VC Striple	og version 4.0.7.0 (www.grsi.ca) TG, C1 - C5
ROP (min/ft)	s s			Total Gas (units)
Gamma (API)	Depth Intervals			C1 (units)
	epth I	Lithology Oil Show		C3 (units)
			Geological Descriptions	C4 (units)
	Cored Interval DST Interval			
1:240 Imperial 0 ROP (min/ft) 1	0 0000			1:240 Imperial 0 Total Gas (units) 100 0 C1 (units) 100
0 Gamma (API) 15			Geologist on site @ 3806'	0 C2 (units) 100 0 C3 (units) 100
	ŧ I			0 C4 (unit\$) 100
	3820		Limestone: cream-light tan-gray, fine crystalline, slightly fossiliferous, poor visible porosity, dense	
	ŧ I		poor visible porosity, dense	
	ŧ I			
			L'an de la complete l'altre la complete de la comp	
	3840		Limestone: cream-white-light tan-brown, fine crystalline, trace fossiliferous, sub chalky	
	Ī			
	Ē			
	3860		Limestone: more cream-white, fine crystalline, rare pinpoint porosity, sub chalky	
	3880		Shale: gray-green-brown	
X	- 3900		Limestone: cream-tan, fine crystalline	
2				
>	Ŧ		<u>Heebner 3913' (-1915)</u>	
	3920		Shale: black, carbonaceous, soft	
>	3920		Shale. Diack, carbonaceous, son	
5	3940		Limestone: cream-light gray, fine crystalline, dense, sub shaley	
٤ 				
	3960		Limestone: cream-white, fine crystalline, very slightly fossiliferous, sub	
\$			chalky	
	Ŧ			
	- 3980		Shale/Sandstone: gray-brown, some pyrite	
	0 4000		Shale: light gray, some fine sandstone, dirty	
0 ROP (min/ft) 1 0 Gamma (API) 15	0			0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100
				0 C2 (units) 100 0 C3 (units) 100 0 C4 (units) 100
			Obstances	
	4020		Shale: gray	
	Ŧ			
	4040		Shale: gray with some sandstone, tite, no shows	
	‡	<u></u>		
	4060		Shale: gray	
	‡			
	4080		Brown Lime 4080' (-2082)	
			Lansing 4093' (-2095)	
2	4100		Limestone: cream-light tan-gray, fine crystalline, poor to no visible	
<u> </u>			porosity	
	‡			
	<u>+</u>			
	4120		Limestone: gray, increase in fossiliferous pieces, dense	
	‡			
			Circulated at 4140' Limestance aream light area from and "	
	4140		Circulated at 4140' Limestone: cream-light gray, fine crystalline to fossiliferous, rare visible porosity, slight odor in fresh, 40% fluorescence, show gas bubble	
	Ŧ			
	4160		Limestone: cream-light tan-gray, fine crystalline, good porosity, no shows	



<u>B/KC</u>	4478'	(-2480)
Shale: gray-green		