KOLAR Document ID: 1471418

Confident	tiality R	equested:
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

WELL	HISTORY -		WELL &	IEASE
VVELL	nisioni ·	DESCRIP	WELL Q	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.xxxxx) (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:
	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	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: 1471418

Operator Nam	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 Ctom Tooto Tol	kan						og Eormotio	n (Tan) Danth a	nd Datum	
Drill Stem Tests Tak (Attach Addition				Yes 🔄 No			-	n (Top), Depth a		Sample
Samples Sent to G	ieological S	Survey		Yes 🗌 No		Nam	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Rur	-			Yes No Yes No Yes No						
			Rej	CASING port all strings set-c		Ne e, inte		on, etc.		
Purpose of String	g	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL		SQL	JEEZE RECORD			
Purpose: Depth Top Bottom		Тур	Type of Cement # Sa							
Perforate Protect Casin Plug Back TD										
Plug Off Zone	e									
 Did you perform a Does the volume o Was the hydraulic f 	of the total ba	ase fluid of the h	nydraulic	fracturing treatment		-		No (If No, s	kip questions 2 ar kip question 3) Il out Page Three	
Date of first Production	on/Injection	or Resumed Pro	oduction/	Producing Meth	od:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Productio Per 24 Hours	n	Oil E	3bls.	Gas	Mcf	Wate	er Bb	ols.	Gas-Oil Ratio	Gravity
DISPOS	ITION OF G	iAS:		N	IETHOD OF CO	MPLE	TION:		PRODUCTIC Top	DN INTERVAL:
	Sold U	Jsed on Lease -18.)		Open Hole Perf.		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		Bottom		
Shots Per	Perforation		tion	Bridge Plug	Bridge Plug		Acid	Fracture Shot Ce	menting Squeeze	Becord
Foot	Тор	Botto		Туре	Bridge Plug Acid, Fracture, Shot, Cementing Squeeze Record Set At (Amount and Kind of Material Used)					
						-				
TUBING RECORD:	Siz	:e:	Set At	t:	Packer At:					

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 5
Doc ID	1471418

All Electric Logs Run

Sonic Log
Micro Log
Compensated Density/Neutron Log
Dual Induction Log

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 5
Doc ID	1471418

Tops

Name	Тор	Datum
Heebner	3902	-1914
Brown Lime	4070	-2082
Lansing	4083	-2905
Stark	4345	-2357
Base KC	4472	-2484
Pawnee	4535	-2547
Cherokee	4571	-2583
Viola	4611	-2623
Simpson	4768	-2780

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 5
Doc ID	1471418

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	267	Common	275	2%Gel, 3% CC
Production	7.875	5.5	15.5	4811	AA2		10% Salt, 2% Gel, 3/4% CFR2

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

Sec.	Twp. Range	20	County	State	On Location	Finish
Date 5-17-19 23	295 15W	TZA	HT.	Ks		
Lease AddiE V	Vell No. 5	Locatio	DI PRATT KI	HW1 54 WH	0 14Ju RI DS	10 103h Pd
Contractor WW Dela	R.q+14		Owner 1 E	+130" 201	Stor 1/4 E	Ninto
Type Job 85/8	,		You are here	ell Service, Inc. by requested to rent	cementing equipment	t and furnish
Hole Size 124	T.D. 267		cementer an	d helper to assist own	ner or contractor to do	work as listed.
<u>Csg. 873 Z31</u>	Depth Z66		Charge To	n.t.tin		
Tbg. Size	Depth		Street			
Tool	Depth		City		State	
Cement Left in Csg. 20	Shoe Joint 20'	_			nd supervision of owner	agent or contractor.
Meas Line	Displace 15.7		Cement Amo	ount Ordered 400		
			21/ LEL 31.		60 275 SX	
Pumptrk 6 1			Common 2	15		
BUIKTR / JACE		<u> </u>	Poz. Mix			
Bulktrk			Gel. 5	<u>×</u>		
Pickup JOB SERVICES	& REMARKS		Calcium	1 24		
Rat Hole			Salt			
Mouse Hole			Flowseal	'37.5 ×		······································
Centralizers			Kol-Seal	21.2		
Baskets			Mud CLR 48			
D/V or Port Collar				CD110 CAF 38		
011101	s'cle set) Z/	sh'	Sand			
01	tom Hook up to (se	5	Handling 4	15		
Broak rize willa			Mileage 2	5		
STALT Brana 10 B	61, 1120		çer	FLOAT EQUIPM		
Mis: Pono 2154	2 14.8"/gil		Guide Shoe	HEAD ! MADI-G	ld	
SHUT DAW RELEASE	STE WYDOCH Plug	_	Centralizer	35/2 Warden	01	
START DISD)		Baskets .		J	
Plug down 15.7 Bill,	0.1		AFU Inserts			
Close Value on CSG			Float Shoe			
Gran Cill +mu Jos			Latch Down			
CIEL CUT TO AL		-	SERVICE	Line		
			LMV	25		
1 mnk for				irge Sueface		
PIEDSE (ALLAGIN		Mileage	50		
Dog Asu	1 to Jake	_			Tax	
x Ap e	1				Discount	
Signature for	hen				Total Charge	Taulas Drist'as das
						Taylor Printing, Inc.

OPERATOR N. Griffin 347 5 67124 22-295-15W 22493	Section 28-293-15W 15-151-22493 Field: Kansas Country: Scale 1:240 Imperial #5 Addie Section 28-29S-15W 15-151-22493 15-151-22493 5/17/2019 Time: Pratt County 5/22/2019 Time: 977.00ft 1988.00ft Time: 330' FSL & 1370' FWL Time: 388.00ft Tott 1977.00ft Tott 1977.00ft Tott 1977.00ft Tott	Well Type: Orienteal (wuddo) Well Type: Vertical Longitude: Latitude: N/S Co-ord: 330' FSL E/W Co-ord: 1370' FWL	
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ά. ·	Contractor: WV Rig #: 14 Rig Type: mu Spud Date: 5/2 Rig Release: 5/2	V Drilling d rotary 7/2019 3/2019	CONTRACTOR	Птме: 3:30 Ттме: 4:00 Ттме: 1:00	3:30 PM 4:00 AM 1:00 PM	
K.B.	K.B. Elevation: 19 K.B. to Ground: 11	E 1988.00ft 11.00ft	ELEVATIONS Ground	S Ground Elevation: 197	1977.00ft	
Surface Casing: Production Casing:	8-5/8	8-5/8" at 267' 5-1/2" at 4810'	NOTES			
Daily Penetration:	05/17/19 05/18/19 2252'	267'	Spud @ 3:30 PM 05/21/19	(/19 4500'	05/20/19	05/19/19 3670'
	0; 05/23/19	5/22/19	19 4810' RTD @ 4:00 AM 4810' Rig released @ 1:00 PM	9 4:00 A		
			FORMATION TOPS			
Formation	Sample Top	Datum	Log Top	Datum Comparison*	trison*	
Heebner Brown Lime Lansing Stark 4345' Base KC Pawnec Cherokee Viola 4611' Simpson	3902' 4070' 4070' 4083' -2357 4472' 4571' 4571' 4571' 456' -2623	-1914 -2082 -2095 -2484 -2547 -2583 -2780	3902' 4068' 4088' 4083' 4083' 4475' 4573' 4573' 4573' 4510' 4768' -2622	-1914 -2080 -2095 -2095 -2487 -2487 -2548 -2548 -2583 -2583 -2780	د، ۲- ۵۰ 11- ۱- ۱۰ 11- ۱۰	
*Charles N. Griffin, #2 Addie, 1190' FSL & 790' FWL, Section 28-29S-15W, Pratt County, Kansas	, #2 Addie, 119	0' FSL & 79	0' FWL, Section 2	8-29S-15W, Prat	t County,	
Cara Chi	<u>ı [−] 1 [−] </u>		ROCK TYPES			
		1TO	OTHER SYMBOLS			
INTERVALS Core · DST · DST · DST	Oil Show Good Show Fair Show O Poor Show O Spotted of Trace	DST DST Int DST alt Core				

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Printed by GEOstrip VC Stripton TG, Cit, CS, Cit, C	
Printed by GEOstrip VC Stripto Discriptions Ceological Descriptions Ceological Descriptions Ceological Descriptions Limestone: few pieces tan, cream to white, fine crystalline, poor visible porosity, dense, sub-chalky. Limestone: gray, cream to white, fine crystalline, poor visible porosity, dense, sub-chalky. Limestone: gray, cream to white, fine crystalline, very chalky. Limestone: gray, cream to white, fine crystalline, very chalky. Shale: gray to green Joedow, fissile, soft Shale: brack, fissile, soft Shale: brack, fissile, soft	Shale: light gray, very finely sandy Shale: light gray, sandy
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Shale: light gray, sandy	Sandstone: cream to light gray, very fine grained, micaceous	Sandstone: light gray, very fine grained	Sandstone: cream to light gray, line grained	Sandstone: line to very slightly medium grained Brown Lime 4066' (-2078)	Limestone: light tan to brown, fine crystalline, dense Shale: medium gray, green, brown Lansing 4083' (-2095)	Limestone: cream to white, fine crystalline, poor visible porosity, sub- chalky. Note samples carry lots of sandstone	Limestone: cream, light tan to light gray, fine crystalline to fossiliferous, poor visible porosity. Note samples carry lots of sandstone	Limestone: cream, fine crystalline, some small pinhead vug porosity	Poor quality sample	Limestone: cream to gray, line crystalline, dense
	0 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	4020	4040	4060			4120	4140	4160	

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Limestone: Ilight brown, cream to gray, fine to slightly medium crystalline, poor visible porosity, dense.	Limestone: cream to light tan, some white, fine crystalline, poor visible porosity, sub-chalky. Note sample quality has improved	Limestone: cream to light tan, fine crystalline, mealy with some visible porosity	Limestone: cream to light tan, fine to rare medium piece, poor visible porosity	Limestone: no significant change	Limestone: cream to tan, light brown, fine crystalline slightly fossiliferous, poor visible porosity	Limestone: cream to light tan, some brown, fine crystalline, rare medium crystalline, dense	Limestone: Jight tan to brown, dense Stark 4343' (-2355)	Limestone: cream to light tan, fine crystalline, rare piece poorly developed oolitic porosity, sub-chalky, very faint odor, NSFO	Limestone: cream to white, fine crystalline, dense	Limestone: cream to white, fine crystalline, poor to no visible porosity, dense
0 1 2 3 3 4 200 4 200 3 3 4 200 3 3 4 200 4 2 2 2 2	4220	4240	4260	4280	4300	4320	4340		4380	0 ROP 10 10 10 10 10 10 10 10 10 10 10 10 10

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									Depth 4625' Mud Weight 9.4 Funnel Viscosity 53
Limestone: chalky white	Limestone: cream to gray, fine crystalline, poor to no visible porosity, sub-shaley	Limestone: cream to gray to light tan, fine crystalline, poor visible porosity, Sample carries lots gray to green shale B/KC 4472' (-2484)	Shale: dark to medium gray, solt	Shale: gray. Note Bit Trip @ 4500. Changed from PDC to Button Bit Limestone: cream to light tan, fine crystalline, few pieces pelletal, poor	using producty, occurs. Limestone: cream, while to brown, fine to micro crystalline, no visible porosity, dense, some chalky material	Pawnee 4535' (-2547) Limestone: as above Limestone: cream to tan, line to micro crystalline, very dense, some scattered gray brown shale. Limestone: while, light tan, sub-chalky	Limestone: cream, while to light tan, fine to micro crystalline, no visible porosity, dense, sub-chalky Cherokee 4571' (-2583) Limestone as above	Shale: gray, green, brown and rust red. Limestone: crm to tan, fine crystalline, dense Shale: gray to green, some pieces hard and brittle, some scattered Shale: Gray to green, some pieces hard and brittle, some scattered	Limestone: cream, fine crystalline to sliphtly fossiliferous, abundant shale, gray, green, scattered few sanstone clusters, light, NS Viola 4611' (-2623) Shale: gray, green, rust red., sitly, few pieces pyrite. Sample washes slightly red Chert: cream to white, vitreous, opaque, sharp and blocky. Sandstone: light tan, fine grained, moderately friable, milky cut, odor when broken.
4420	4440	4460			450		4560		0 4620

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API Filtrate 8.8 Chloride 8.000							Pepth Depth Mud Weight Funnel Viscosity API Filtrate Chloride 4,000
Chert: more cream than white, vitreous, opaque. Sandstone: light tan to tan, fine grained fair to good friable, increase in amount in sample tray. Odor in fresh, sslo. Some pale green limestone, dense Chert: cream, white to of white, mostly vitreous, few pieces weathered, decrease in amount of sandstone, rare piece dark tan dolomite with some visible porosity. Fluorescence when broken, vssfo, faint odor Shale: flood gray, red, slightly sitly Poor quality sample ⁻	Chert: while to off-while, vitreous, opaque, sharp and blocky, some dull fluorescence. fluorescence. b Circulated @ 4680' Chert: mostly while vitreous, poor quality sample. 60' Cherty dolomite: medium brown, line crystalline, sucrosite, 10% of sample. Faint odor, sto when broken, scattered bright fluorescence	Chert: while to cream, virreous, very sharp, blocky, good porosity. Minor amount of cream dolomite, very faint odor with vssfo, moderate fluorescence Cherty dolomite as above	Cherty dolomitic lime: cream to while, fine crystalline, sub-sucrosic, poor visible porosity. NS Cherty dolomitic lime as above Poor quality sample	Poor quality sample, sample carries abundant shale Poor quality sample, sample carries abundant shale	Simpson 4768' (-2780) Shale: varicolored, mostly rust red, gray Shales as above	Shale: gray, red, few pieces blue Shale: gray, red, brown, increase in blue	Circulated at 4810' Shales as above with some sandstone clusters, white, fine grained, moderate porosity, barren
b c c <td>1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td> 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td></td> <td></td> <td></td>	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
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TREATMENT REPORT

Charles Gri	KRin	Lease No.				Date /	, -	7 1	G
ease Addic	5	Well #	5			フ	-Z.	5-1	7
ield groer to a Station	Pratt		Casing 5	1/2 Depth	811.59	County	Pratt	_	State
ype Job Z-42	5 1/2" LU	ng strin	9	Formation	0		Legal Des	scription_	295-15
PIPE DATA	PERFORATIN	NG DATA	FLUID US	SED		TREAT	IMENT R		
sing Size Tubing Size	Shots/Ft	Aci	1.2	SKS A	A-2	RATE PRES	SS	ISIP	
pth 11.59 Depth	From T	o Pre	Pad50	Suls 6	Max U.O	PUZ		5 Min.	
lumey.5 Volume	From T	Pac			Min			10 Min.	
AX Press 1/300 Max Press	From T	o Fra	с		Avg		8	15 Min.	
ell Connection Annulus Vol.	From T	ö			HHP Used			Annulus Pi	ressure
g Depth, 64 Packer Dept	th From T	o Flue	sh 114		Gas Volum	ne		Total Load	
stomer Representative J	R Grikkin	Station Man	ager W+	ester	me of y	Treater ·	hATI	w/	
rvice Units & 3353	8498	20920		19960					
mes MATTA		Wan=z		Coil	luy				
Time Casing	Tubing Pressure Bbls. P	umped	Rate			Servic	e Log		
Di45)		1	On	luçar	1'un/3	ARM	ey r	re-eting
3:30 /				run	5 1/2'	" csr	29	΄ Z	0.95' 5
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5:11 200			5	Pun	10 5	5 661	vi A	rer	
8:13 200		38	5	nix	15		AA		
8:23 -				Drop	Pluy	/WAS	4 prin	nP + l	LU'H-L
8:26 100			0	STAM		P.			
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Taylor Printing, Inc. 620-672-3656