KOLAR Document ID: 1295466

Confident	tiality Re	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	- DESCRIPTION	OF WELL	& I FASE
	III JIONI	- DESCRIF HOR		a LLASL

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.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:
☐ 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 #:	Location of fluid disposal if hauled offsite:
EOR Permit #: GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Reached TD Completion Date of 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: 1295466

Operator Name:	Lease Name: Well #:
Sec TwpS. 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 Yes No Log Formation (Top), Depth 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			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	ed 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 Method: Image: Flowing index production of the production of th							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas Mcf Water Bbls. Gas-Oil Ratio					Gravity		
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	COMPLETION:			PRODUCTION INTERVAL:		
Vented Sold (If vented, Subn	Used on Lease		Open Hole		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)			Bottom		
	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	Tailwater, Inc.
Well Name	South Kempnich 8-L
Doc ID	1295466

Casing

	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	9.8750	7	17	24	POZ	5	POZ
Production	5.62	2.8750	6.45	826	50/50 POZ	114	50/50 POZ

PVANS PNERGY DEVELOPMENT NC. 11 Lewis Drive

Oil & Gas Well Drilling Water Wells Geo-Loop Installation

Phone: 913-557-9083 Fax: 913-557-9084

shale

WELL LOG Tailwater, Inc. South Kempnich #8-L API #15-003-26,490 December 22, 2015 - January 4, 2016

Paola, KS 66071

Thickness of Strata	Formation	<u>Total</u>
14	soil & clay	14
4	clay & gravel	18
49	shale	67
28	lime	95
4	shale	99
3	lime	102
5	shale	107
7	lime	114
35	shale	149
4	lime	153
3	shale	156
17	lime	173
7	shale	180
35	lime	215
6	shale	221
24	lime	245
3	shale	248 black
21	lime	269 base of the Kansas City
174	shale	443
2	lime	445
3	shale	448
2	lime	450
5	shale	455
9	lime	464 oil show at 460, light
52	shale	516
4	lime	520
10	shale	530
2	lime	532
8	shale	540
4	lime	544
48	shale	592
4	lime	596
9	shale	605
2	lime	607
14	shale	621
3	oil sand	624 good, bleeding
3	broken sand	627 50% bleeding sand, 50%

South Kempnich #8-L

Page 2

33	shale	660
3	oil sand	663 brown, little bleeding
3	broken sand	666 brown 50% shale 50% sand better bleeding
77	shale	743
5	oil sand	748 good stuff
3	shale	751
5	oil sand	756 good stuff
2	shale	758
2	black sand	760 no show
25	shale	785 few thin sand seams
2	sand	787
28	silty shale	815
18	sand	833 white, no oil
3	shale	836 TD

Drilled a 9 7/8" hole to 23.5' Drilled a 5 5/8" hole to 836'

Set 23.5' of 7" surface casing with 5 sacks of cement.

Set 826' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.



250 N. Water, Ste 200 - Wichita, Ks 67202

HURRICANE SERVICES INC

104 Prairie Plaza Parkway - Garnett, Ks 66032

			п.	UKKILAN	IE JEKVI	CES INC						
Gustemer	Martin oli	properties			atomer Name			Tieket No.: 50696			6	
Address:						· · · · · · · · · · · · · · · · · · ·		1/4/2016	/4/2016			
City, State, Zip:					Job type	cement long						
Service District:						5 5/8 hole @	836 27/8	casing @ 820	3			
Well name & No.	South Ker	npnich 8-L			Well Location		County	anderson	State	ks		
Equipment #	Driver	Equipment #	Driver 1	Equipment #	Hours	TRUCK CAL		Internet	1		1 1994	
26	Joe				<u> </u>	ARRIVED AT				A41 Pi2		
231	Jeff					START OPE				АМ РЧ		
240	Troy					FINISH OPE	RATION			2 4		
111	Jr				ļ	RELEASED				33		
109	Ron	1	<u> </u>	Ťr	l eatment St	MILES FROM	I STATION T	O WELL	<i></i>			
Product/Service					Un-t of		Lisi	Gross	Item			
Code	Description				Measure	Quantity	Price/Unit	Amount	Discount		NELAmount	
c00101		ip. One Way			mi	·	\$3.25	\$0.00	ļ		\$0.00	
c00102	Light Equip	o. One Way			<u>mi</u>	· ·	\$1.50	\$0.00	ļ		\$0.00	
 c23103	Cement Pump				ea	1.00	\$675.00	\$675.00	10.00%		\$607.50	
c11100	Vacuum Tr				ea	1.00	\$84.00	\$84.00	10.00%		\$75.60	
c10900	Vacuum Tr	ruck 80 bbl	-		ea	1.00	\$84.00	\$84.00	10.00%		\$75.60	
c24001	Cement Bulk Truck - Minimum				ea	1.00	\$300.00	\$300.00	50.00%		\$150.00	
p01604		50/50 Pozmix Cement				114.00	\$11.30	\$1,288.20	10.00%		\$1,159.36	
p01607 p01607	Bentonite (Bentonite (lb k	200.00	\$0,30	\$60.00	10.00%		\$54.00	
	Pheno Sea				lb lb	191.00 28.00	\$0.30 \$1.70	\$57.30 \$47.60	10.00%		<u>\$51.57</u> \$42.84	
p02000	H2O				gai	4,600.00	\$0.01	\$59.80	10.00%		\$53.82	
p01631	Rubber Plu	ıg 2 7/8			ca	1.00	\$30.00	\$30.00	10.00%		\$27.00	
	•	<u> </u>			<u> </u>		<u> </u>					
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ENMS: Cash in advan	ed accounts are	lotal invoice due on o	r balare the 30th d	lay from the date		·	Gross:	\$ 2,685.90	Net:	\$	2,297.31	
UNHE OF SALE IOF SCOOTON	of involce. Past due accounts may pay interest on the balance past due at the rate of 1 16% per month or the maximum allowable by applicable atale or federal laws if such laws limit interest to					Taxable	\$ -	Tax Rate:	7.650%	\geq	\leq	
f involce. Past due aco nonits or the maximum	allowable by app	a lesser amount. In the event it is necessary to employ an agoncy and/or attorney to affect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred.					Frac and Add sorvice treatments designed with Intent Sate Tax: \$					
f Involce. Past due acc nonits or the maximum i losser amount. In the i ollection of said accourt	allowable by app event it is naces ni, Cusiomer her	eby agrees to pay all	less directly or ind	irectly incurred	to increase p	wolls are not taxable. Total: \$ 2 297 5						
If involce. Past due aco nonth or the maximum i lesser amount. In the i offection of said accour or such collection. In th he right to revolve any a	allowable by app event it is neces nit, Customerher he event that Cus and all discounts	oby agrees to pay all former's account with i previously applied in	less directly or inci HSI becomes delin amiving at not invo	quent, HSI has bice price. Upon	to increase p				Total:	\$	2,297.31	
f involce. Past dus acc sommer an unit or the maximum issuer amount. In the i offection of said accourt of such collection. In the such collection, in the right to revolke any a svocation, the full invol	allowable by app event it is neces nit, Customerher he event that Cus and all discounts	oby agrees to pay all former's account with i previously applied in	less directly or inci HSI becomes delin amiving at not invo	quent, HSI has bice price. Upon	to increase p			1/4/2016	Total:	\$	2,297.31	
If involce. Past dus acc monits or the maximum i leaser amount. In the i collection of said accour or such coltection. In the ne right to revolve any a evocation, the full invol	allowable by app event it is neces nit, Customerher he event that Cus and all discounts	oby agrees to pay all former's account with i previously applied in	less directly or inci HSI becomes delin amiving at not invo	quent, HSI has bice price. Upon		wells are not taxable	B.	1/4/2016 Joe Blanchard		\$	2,297.31	
of Invoice. Past due acc month or the maximum a losser amount. In the r	allowable by app event R is necess nit, Customer her is event that Cus and all discounts ice price without	oby agrees to pay all former's account with i previously applied in	less directly or Ind HSI becomes delin antiving at not invo immediately due a	quent, HSI has bice price. Upon	ж	wells are not taxable Date of Service:	e.		1	\$	2,297.31	

Hurricane Services appreciates any Comments. Concerns or Criticiam's from our valuable customers as Safety and Customer Satisfaction are our Number 1 goal. All Commonts are confidential and will be used in a constructive manner to improve our Safety and Job Performance.

TREATMENT REPORT



HURRICANE SERVICES INC

Custemen	Martin oil pro	operties			Dete:	1/4/2016	304		120	
Representatives							-	•	-	
Address										
City, States	· · · · · · · · · · · ·				•					
County, Zipi										
oven y, alp	<u> </u>					<u></u>				
Fiel	d Order No.:	50	596		Open Hole:	5 5/8	ו	Perf De	pths (ft)	Perfs
	Well Name:		npnich 8-L	c	asing Depth:	826	1			1
	Location:				Casing Size:	2 7/8	1			<u> </u>
	Formation:			т	- ubing Depth:		1			
Тур	e of Service:	Long	string		Tubing Size:		1			
	Well Type:				Liner Depth:	······································	1			
	Age of Well:	n	w		Liner Size:		1			
	Packer Type:				Liner Top:]			
Pa	acker Depth:			Ĺ	iner Bottom:					
Tre	eatment Via:				Total Depth:	836				
									Total Perfs	0
							•			
TIME	INJECTIC FLUID	NRATE N2/CO2	PRES STP	SURE ANNULUS		REMARKS		PROP (ibs)	HCL (gls)	FLGiD (bbls)
12:00pm					called out					
12:15 PM					leave shop					
12:30pm					on location					
12:30 PM					Ran wireline to	confirm casing TD				
12:35Pm					safty meeting					
12:50pm					spotted trucks	n location				<u> </u>
1:00pm					Hooked up to w					
1:05pm					1	200# gel for sweep				6.00
1:10pm	Sopm		100.0			le with 5 bbi h20				5.00
1:12Pm	36pm		100.0		1	le with gel sweep			l	8.00
1:15 PM			100.0	_		e with 5 bbl water spacer				5.00
1:18pm 1:20 PM	3.5bpm		120.0			5 bbl dye and mixing cement		· · -		5.00
1:20 PM 1:30pm			150.0			ble with 14.4 ppg cement				
1:33pm	1.6 bpm 3bpm					shut down flush lines w/ water				2.00
1:35pm	1.5bpm		1,200.0		Plug hits botton	hisplacement with fresh h20			<u> </u>	4.80
1:37pm					release plug flo		-			
1:40pm					1	n well and start wash up			·	<u> </u>
							TOTAL:	•		
								·		•
		SUMI	MARY			PRODUCTS USED				

 Max Fl. Rate
 Avg Fl. Rate
 Max PSI
 Avg PSI

 1,200.0

114 sks 50/50 poz mix 2% GEL 1/4 pheno seal

Treater: Joe Blanchard

Customer: Martin Oili Properties

TREATMENT REPORT



HURRICANE SERVICES INC

	INJECTH	UN RATE	PRES	SURE		PROP	RCL	FLUID
Trile	FLU D	N2/C02	STP	ANNULUS	REMARKS	(Pbs)	(als)	(bbls)
1:55pm	· · · · · · · · ·		<u> </u>		Wash up done rack up and left location			
}			<u> </u>					
								
ļ					Thanks Jos , Jeff , Ron , Troy , Jr		·	
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Activity provided on this page is calculated in the summary and totals on page 1

TREATMENT REPORT



HURRICANE SERVICES INC

Customen	Martin Oll Pro	operties		Date:	2/19/2016		Ticket No.:	164	17
Fleid Rep: Dan						_	_		
Address:		· · · · ·							
City, State:									
County, Zip:									
Fi	eld Order Na.:			Open Hole:]	Perf Dep	ths (ft)	Perfs
Well Name: S. Ke		S. Kemp	S. Kempnich #8-L				742.0	747.0	11
Location				Casing Size:	2 7/8		750.0	755.0	11
Formation: Lo		Lower	Squirrel	Tubing Depth					
Type of Service:		Linear Gel Frac		Tubing Size:					
Well Type:		0)i)	Liner Depth:		_			
Age of Well:		N	New			_	 		
	Packer Type:								
Packer Depth:				Liner Bottom					
τ	reatment Via:	C	SG	Total Depth:	814				
								Total Perfs	22
	INJECTI	N RATE	PRES	SURE			PROP	HCL	FLUID
TIME	FLUID	N2/CO2	STP	ANNULUS	REMARKS		(lbs)	(gls)	(bbis)
				Spot HCL/Safe	ty Meeting/Rig Up				.
			3,800.0	Line CK					
6.0 16.0			1,400.0	Load and Brea	Load and Break				
			1,300.0	EST Rate/Pump Pad with 100 mesh sand			100.00		15
	16.0		1,200.0	.25# 12/20			50.00		.4
	16.0		1,200.0	.5# 12/20			150.00		
	16.0	=	1,600.0	1# 12/20 Drop			500.00		11
	16.0		2,400.0	2# 12/20 Drop			1,000.00		11
16.0			3,000.0		2 Balls and 25# Rock Salt		1,300.00		12
· · · ·	16.0		2,700.0	Flush			- <u> </u>		5
				Surge					
	16.0		1,400.0	Over Flush					5
	 		600.0	ISIP					
				<u> </u>			+		
			<u> </u>	<u>├ · </u>			•		
	+		<u> </u>	<u> </u>			+	-	
		L,.,	.L	L		TOTAL:	3,100.00	•	73.
		~			BOADHOTE HEED				
	Max FI. Rate	SUM Avg FL Rate	MARY Max PSI	Avg PSI	PRODUCTS USED		·		

Treater:

Customer:

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