### KOLAR Document ID: 1519099

Сс	onfiden	tiality Red	quested:
	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 & L	EASE

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 #:      Dual Completion Permit #:	Dewatering method used:
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           Recompletion Date         Recompletion Date         Recompletion Date	Quarter Sec TwpS. R East West           County: Permit #:
Recompletion Bate	Γ σταπτγ Γ στηπι #

#### 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:					

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Operator Nan	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			Yes 🗌 No			og Formatio	on (Top), Depth	and Datum	Sample
(Attach Additional Sh					Name	e		Тор	Datum
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:			Yes No Yes No Yes No Yes No Yes No						
		Rep	CASING	RECORD	_ Ne <sup>r</sup> e, inte		ion, etc.		
Purpose of String	Size Hole Drilled	S	ize 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: Perforate Protect Casing	Depth Top Bottom	Тур	e of Cement	# Sacks Use	# Sacks Used		Type and Percent Additives		
Plug Back TD Plug Off Zone									
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the</li> <li>Was the hydraulic fractular</li> </ol>	total base fluid of th	ie hydraulic f	racturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	skip questions 2 ar skip question 3) iill out Page Three	
Date of first Production/In Injection:	jection or Resumed	Production/	Producing Meth	nod:		Gas Lift 🗌 C	Other <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas Mcf		Water Bbls. Gas-Oil Ra		Gas-Oil Ratio	Gravity	
			METHOD OF					PRODUCTION INTERVAL: Top Bottom	
Vented Sold	Used on Leas	ie L	Open Hole			·	mmingled mit ACO-4)		
		oration ottom	Bridge Plug Type	Bridge Plug Set At		Acid		ementing Squeeze	
TUBING RECORD:	Size:	Set At	:	Packer At:					

Form	ACO1 - Well Completion
Operator	Lakeshore Operating, LLC
Well Name	NUNNENKAMP A LO-12
Doc ID	1519099

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	9.875	7	23	20	Class A	5	0
Production	5.875	2.875	6.5	971	60/40 Pozmix	124	3%

					$\triangleleft$	HS					
		ATMEN	T DED	)PT							
		les anne de la	in Sone da								
		Lakesho	-	ating	Well:	Nunn	enkamp A LO	-12	Ticket:	IC	T3049
City,	State:	Wichita,	Ks		County:		Wilson, Ks.		Date:	1/	2/2020
Fiel	d Rep:	Greg Ja	ckman		S-T-R:		SE 5-29-16		Service:	G	arnett
Dow	nhole I	nformatio	on		Slurr	У			Cem	ient Blend	
Hole	e Size:	5 7/8	in		Weight:	14	#/sx	Produ	ct	%	#
	Depth:				Water / Sx:		gal / sx	Class A		60.0	6994
	g Size:				Yield:	1 1/3	ft <sup>3</sup> / sx	Poz		40.0	3670
Casing					Bbis / Ft.:			Gel		2.0	213
Tubing /			in		Depth:		ft	Gel flush			100
	Depth:		ft		Volume:	29.8		Pheno Seal			124
Tool / P					Excess:		%	Kol Seal			620
	Depth:		ft		Total Slurry:	29.8					
Displace	ement:		bbls		Total Sacks:	124	SX	L		Total	11,73
TIME	RATE	PSI	BBLs				REMARKS		<b>HARARA</b>		
1400						Arrive on le	ocation. Rig up. Ho	old safety meeti	ng		
1433	5.0	100.0	29.8		Mixed and pumped 124 sacks 60/40/2 cement with 5# Kol seal, 1# Pheno seal per sack. Circulated cement to surface.						
1439	1.0	800.0	5.6		Flushed pump. Pumped	d plug to cas	ing TD with 5.6 bb	ls clean water.	Well held 8	00 PSI. Set fl	oat.
1500						Was	hed equipment and	d picked up.			
							.akeshore Operati	ng, LLC.			
304 S. Laura											
							Wichita, Ks. 67	/211			
							Wes Ketchu	m			
							844-557-467	3			
		CREW		法的资源	UNIT				SUMMARY	and the second second second	
	menter:		Alan Ma		90		Average Rate	Average P		Total F	
Pump O			Harold Be		239		3.66667 bpm	333.33 psi		50.40	bbls
	er Truck		Keith Det		124						
Wate			Keith Det Casey Ken		124 248				September 20 million and		

## Jackman Oilfield Services 1 West Mulberry St. Colony, KS 66015 620-852-3350

## WELL LOG Lakeshore Operating, LLC Nunnenkamp LO-12

### December 30, 2019

Thickness of Strata	<b>Formation</b>	<u>Total</u>
3.00	clay	3.00
3.00	lime	6.00
2.00	shale	8.00
12.00	lime	20.00
10.00	shale	30.00
8.00	sand	38.00
9.00	sand	47.00
3.00	lime	50.00
6.00	sand	56.00
14.00	lime	70.00
7.00	sand	77.00
6.00	shale	83.00
1.00	coal	84.00
20.00	shale	104.00
3.00	lime	107.00
21.00 `	shale	128.00
1.00	lime	129.00
7.00	sand/lime	136.00
2.00	shale	138.00
41.00	lime	179.00
2.00	shale	181.00
41.00	lime	222.00
8.00	shale	230.00
5.00	sandy shale	235.00
3.00	shale	238.00
18.00	sandy shale	256.00
2.00	coal	258.00
14.00	lime	272.00
3.00	shale	275.00
81.00	lime	356.00
36.00	shale	392.00
1.00	lime	393.00

23.00	shale	416.00		
1.00	lime	417.00		
17.00	shale	434.00		
9.00	lime	443.00		
2.00	shale	445.00		
31.00	lime	476.00		
36.00	shale	512.00		
2.00	sand	514.00		
29.00	sand	543.00		
6.00	coal	549.00		
24.00	lime	573.00		
7.00	coal	580.00		
37.00	shale	617.00		
18.00	lime	635.00		
15.00	shale	650.00		
2.00	coal	652.00		
11.00	shale	663.00		
2.00	coal	665.00		
71.00	shale	736.00		
2.00	coal	738.00		
34.00	shale	772.00		
1.00	coal	773.00		
14.00	shale	787.00		
7.00	lime	794.00		
24.00	shale	818.00		
2.00	sand	820.00		
6.00	shale	826.00		
1.00	coal	827.00		
3.00	shale	830.00		
3.00	lime	833.00		
65.00	shale	898.00		
5.00	sand	903.00		
4.00	sand	907.00		
4.00	sand	911.00		
4.00	sand	915.00		
1.00	coal	916.00		
2.00	broken sand	918.00		
15.00	shale	933.00		
2.00	lime	935.00		
56.00	water sand	991.00	TD White sand-very	fine

Set 20' of surface casing cemented with 5 sacks of portland cement Ran 971' of 2 7/8" No cores No seating nipple

Cemented 1/2/2020

Nunnenkamp LO-12