KOLAR Document ID: 1660191

Confident	tiality Rec	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 & 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:
	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	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:				

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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 (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	Justin Energy Corporation
Well Name	HARBISON 49
Doc ID	1660191

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	9.875	7	21	21	Portland	6	50/50 POZ
Production	5.625	2.875	6.5	715	Econobon d		200# Bentonite

SPUD DATE: 6-8-22				1 ,	А		
FINISH DATE: 6-10-22	-						
LEASE: Harbison					$\left[\left(\right) \right]$		
LEASE OPERATOR: Justin	Enerry	onpend	len			2 deser	
WELL: #49					A CALL		
API: 15-121-31686							
SEC: 06 TWP: 175	RNG:	225					
COUNTY: Miami	-					I i setterett	
DRILLERS NAME: Mitchell	Royas			2394 UTA	M ROA	ID	
RIG #:				RANTOUL,	KS 660	079	
SURFACE: SIZE BIT 978	LEN	GTH	21		6 Sac	ks	
DRILL BIT SIZE ? *	LENG	ТН /	15	SIZE 218 Stond BALLI	NI	A	
TD 727 CORED	670-	689'	640	- 709'	•		
FORMATIONS	THICKNESS	FROM	то	FORMATION	THICKNESS	FROM	1 10
Soil Belay	14	0	4	shale	8	550	558
lime	14	4.	18	line	3	558	561
Shale	5	18	23	shale	23	561	584
line	9	23	32	lime	12	584	596
Shale	14	32	146	Shale	1 11	596	607
line	21	46	67	tome	3	607	610
Shale	3	67	20	shule	6	610	616
lime	24	7.0	94	Lime	3	616	619
shele	9	94	103	Shale	8	614	627
lime	5	103	108	lime	3	627	630
Shele	7?	108	185	Shale	111	630	641
line	40	185	225	1. M.E	7	641	648
shale	10	Z25	235	Shele	11	648	659
lime	4		239	lime		659	660
shile	35	239	274	shale	9	660	669
Itme	14	274	288	Brokensed-Sonsend Tomoshie	3,5	664	672,5
Shele	15	288	303	Oilsand - Washed	1	672.5	And in case of the local division of the loc
lime	25	303	328	Brokensaml-lightbleed	.5	673,5	674
Shele	7	328	335	50% brown and 50% shale			
line	22	335	357				1
Shale	5	357	362	Dil sand-Browngoed bleed	2,5	674	681.5
lime - Base of Kensoscily	13	362	375				1
Shale	28	375	403	bil Sind - good bleed	2	681.5	683,5
Brokensand - minimal show	5	403	408	limy brown sand			
Stilly Shale	5	408	413				
Shale	72	413	485	Oilgand- good bleed .	2	683.5	685.5
liny sand	2	485	487				tona ini
Broken squid-lightsblend	3	487	490	linysaul-Hand noshow	.5	685.5	686
Silly shale	2	440	492	oltsand- yearlolad	.5	686	686.5
shale !!!	52	442	544	1 kmy sand - Hand noshow	.5	686.5	687
line	6	544	550		1		10.000 (p. 100)

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SPUD DATE:			and the second second	1				
FINISH DATE:						A		
LEASE:				1.	UTAH	\mathbf{I}	目重	
LEASE OPERATOR: Harbiso	1						J.D.A	
WELL: # 49				1				
API: 15-121-31686								
SEC: TWP:	RNG:						V	
COUNTY:	1						A property	
DRILLERS NAME:]	2394 UTA	I ROAL	D	
RIG #:		-			RANTOUL,	KS 660	79	
SURFACE: SIZE BIT	LEN	GTH		_ SIZE	CEMENT			
DRILL BIT SIZE	LENG	TH		SIZE	BAFFL	-		
TD CORED						The Product of the Constraint of the		
PORMATIONS	THICKNESS	1	TO	FORMATION		THICKNESS	FROM	TO
Dilsand - good bleed	1.5	687	688,5			1		
Darkbrown								
lime-Handnoshow	.5	688.5	689					
Alle I Nation I	+	1000						
Oilsand - Dank sand	1.5	689	640,5					
good bleed			·			Ľ.		
Brokensend - goodbled	75	100 00	100			ļ		
50% sund 50% shale	2,5	690,5	693					
2010 Scan 20135 1910	+			g		<u>↓ </u>		
Shale	34	693	70.52					
	131	0.5	72770			<u>├</u>		
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						And a second	and the same first street.	

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Daap #72



CEMENT TREATMENT REPO	DRT
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Customer: Justin Energy Corporation	Well:	Harbison 49	Ticket:	EP4875
City, State: Wellsville, KS	County:	MI, KS	Date:	6/10/2022
Field Rep: Justin Hoehn	S-T-R:	6-17-22	Service:	Longstring

Dow	nhole li	formatio	n		Calculated Si	utra Lond		culated Slurry - Tail	
Hole Size:			5 5/8 (n		Blend:	Econobond			
Hole Depth: 727 ft				A CONTRACTOR OF		Blend:			
Casing Size: 2 7/8 in				Weight:	13.61 ppg	Weight:	ppg		
Casing Depth:		<u>≰ //9 in</u> 715 ft			Water / Sx:	7.12 gal / sk	Water / Sx:	gal / sk	
Tubing / Liner:					Yield:	1.56 ft ³ / sk	Yield:	ft ^a / sk	
		in ft			Annular Bbis / Fi.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.	
Depth:					Depth:	ft	Depth:	ît	
Tool / Packer:					Annular Volume:	0.0 bbis	Annular Volume:	0 bbls	
Tool Depth:		ft			Excess:		Excess:		
Displacement:		4.14 bbls			Total Slurry:	21.95 bbis	Total Slurry:	0.0 bbis	
			STAGE	TOTAL	Total Sacks:	79 sks	Total Sacks:	0 sks	
TIME	RATE	PSI	BBLs	BBLs	REMARKS				
1:40 PM					on location, held safety	meeting			
				÷					
	4.0				established circulation				
	4.0			- mixed and pumped 200# Bentonite Gel followed by 4 bbl fresh water					
	4.0			mixed and pumped 79 sks Econobond cement, cement to surface					
4.0 - flushed pump clean									
	1.0				pumped 2 7/8" rubber pl	ug to casing TD with 4.14 bbls	fresh water		
	1.0			- pressured to 800 PSI, well held pressure					
			released pressure to set float valve						
	4.0			2	washed up equipment				
2:40 PM					left location				
	-								
	-			_					
		CREW	i W	5 (S. 1997)	UNIT		SUMMAR		
Comenter		Casey Kennedy		1	931	Average Rate	e Average Pressure	Total Fluid	
Pump Operator Bulk H2O:		Nick Beets			238	3.1 bpm	- psi	- bbis	
		Garrett Scott			247				
		Keith	Detwiler		124				