### KOLAR Document ID: 1746422

Сс	onfiden	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

		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:
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:
Gas DH EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
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 Produc	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD Permit #:	
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:						

#### KOLAR Document ID: 1746422

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 Stem Tests Taken (Attach Additional Sh	acate)	Y	′es 🗌 No		Log Formation (Top), Depth and Datum		Sample		
			⁄es 🗌 No	1	Name	Э		Тор	Datum
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs 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 Used		d Type and Percent Additives			
Protect Casing 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 fracture</li> </ol>	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			Water Bbls. Gas-Oil Ratio Gravity			
DISPOSITIO	N OF GAS:		METHOD OF		COMPLETION:			PRODUCTION INTERVAL: Top Bottom	
Vented Sold (If vented, Subn	Used on Lease		Open Hole Perf.		Dually Comp.     Commingled       (Submit ACO-5)     (Submit 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	Castle Resources, Inc.
Well Name	HARTWICH 1
Doc ID	1746422

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Microresistivity
Borehole Compensated Sonic

Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	HARTWICH 1
Doc ID	1746422

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	8.625	12.25	23	307	common	3%CC 2%GEL

# **FRANKS Oilfield Service** ◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269

9,45 1-27-21 - Julie Kcc

1166 TICKET NUMBER

DATE

◆ Office Phone (785) 639-3949

Email: franksoilfield@yahoo.com

LOCATION Havie KS

FOREMAN Restor RT

FIELD	TICKET	&	TREATMENT	REPOR

CEMENT

DATE	CUSTOMER #	WELL NAME & NUN			-		
1-27-24		3 8		SECTION	TOWNSHIP	RANGE	COUNTY
CUSTOMER		Hatwich #1	1	12	115	106	Lachange
Co	stic Resa	MPS. THE					marting first frage f
MAILING ADDRE	SS		-	TRUCK #	DRIVER	TRUCK #	DRIVER
				0103	Chris K		
CITY		STATE ZIP CODE	-	= 201	Reston D		
JOB TYPE DT	A	HOLE SIZE					
CASING DEPTH				2845			
SLURRY WEIGHT						OTHER	
		SLURRY VOL	WATER gal/sk				
DISPLACEMENT		DISPLACEMENT PSI	MIX PSI		DATE		
REMARKS:	ety meetha	+ spipon white	habt	Et. a	4		
1st dia a	+ 2725"	- 20 sales			CO DPOPCE		
2nd plan o	+ 2300'	20 soulis					
3rd dil a	+ 1350'	- 20 sales					
44h plug et	307'-	75 salis					
Tet lole in	30 section						

2 Paul AM 28-24 1-

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PLOOS		PUMP CHARGE		TOTAL
Masi	255	MILEAGE		
1003		the second s		
CEDIO	1115 secles	100/00 years 4 chart		
CROS	100 *	- sola		
			_	
			SALES TAX	
UTHORIZATION	1 Nat	TITLE Test Pasher	ESTIMATED TOTAL	
	and the second s	TITLE TOOL KISHOC	DATE	

A

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# • 815 Main Street Victoria, KS 67671 • 24 Hour Phone (785) 639-7269

TICKET NUMBER

1158

♦ Office Phone (785) 639-3949

24 Hour Phone (785) 639-7269
 Email: franksoilfield@yahoo.com

FOREMAN Preston

LOCATION Metory

FIELD TICKET & TREATMENT REPORT

CEMENT

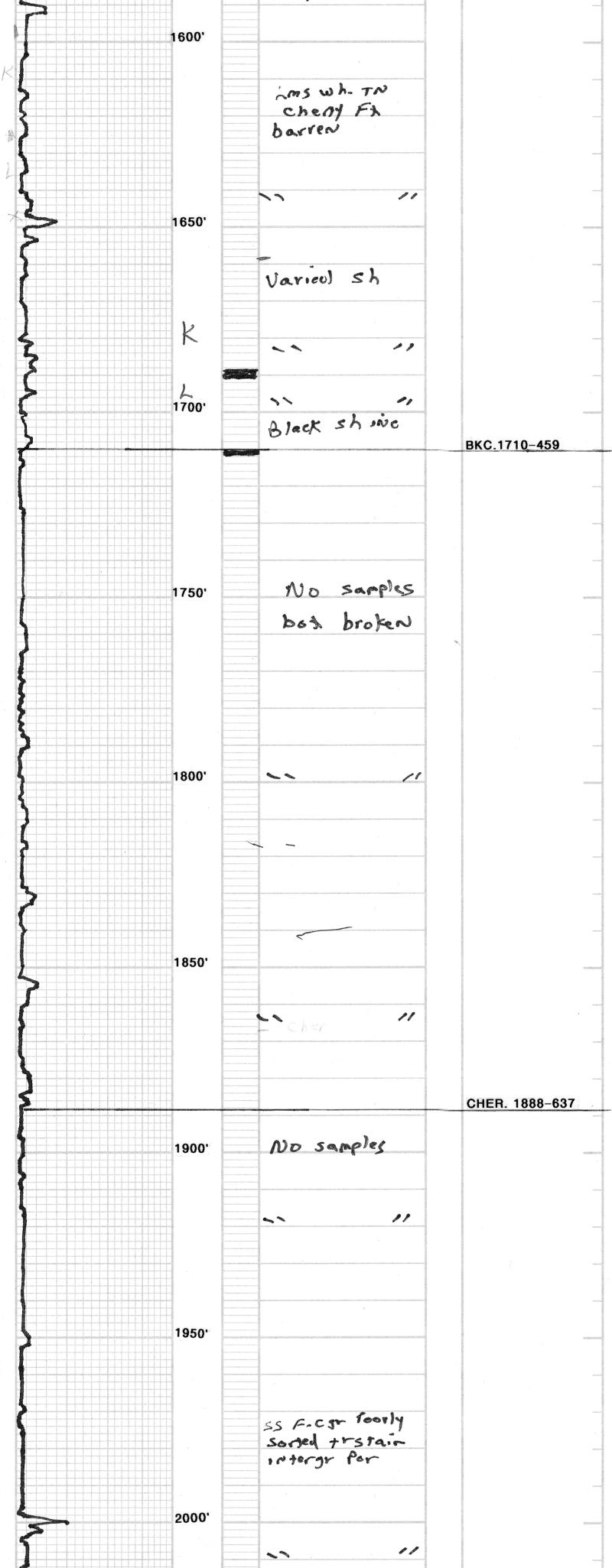
DATE	OUTONIER "	1						
DATE	CUSTOMER #	WEL	L NAME & NUMI	BER	SECTION	TOWNSHIP	RANGE	COUNTY
1-6-24 CUSTOMER		Hortes	ich =		12	115	IDE.	herbenore
-	alla Rom	- man						LEAST CE E
MAILING ADDRESS			-	TRUCK #	DRIVER	TRUCK #	DRIVER	
					# iOS	Conce D		,
CITY		OTATE		-	\$201	Marc. Y		
		STATE	ZIP CODE		= 30i	Retor D		
	8							
JOB TYPE		HOLE SIZE	2 "4"	HOLE DEPTH	307'	CASING SIZE & W	EIGHT Sike	22 "
CASING DEPTH_	307'	DRILL PIPE		TUBING			OTHER	
SLURRY WEIGHT		SLURRY VOL					Manufacture of the second second	
DISPLACEMENT				MIX PSI		RATE	the second se	
REMARKS: 54	nu nortin	c. Ret in	200 101	me Varl	57	since man		,
45 cortis	of Helle	5 may	<u> </u>	TE KOLGME	<u>Sun a</u>	sinc. Mix	200 SA U:	5 w. 4h.
lat cat E	$\overline{D}$	1 States	~ 16.5	1 Dols ox	H20. Ce	men didn	st circulat	Ê.
Jet set 5 hrs. Run 1" door balaside tog cement at St. Mix 100 sales of comban 3°0 (C w) 2°10 get wi 1/2° Elassal. Circulate cement to surfice								
Jallin	> 1-10 pe	wij 12	Elo ascil	· Circe	Cere Cene	it to surfa	ce	
	and the second secon							
		an a		Thenk	-p-'		We are a stand of the second	
				1/2	Dy cru	and an		

14

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PCC07	i	PUMP CHARGE		
mooi	145	MILEAGE	\$1150°C	dispec
m003	141, 81 7605	and and the	\$ (e 50	\$107250
C300-1	30 sahs	Clas A 3/6 CC + 2% ccl	\$344548	\$3,445 48
POIL	2.250°	and the second	125 50	\$7,45000
CPOOL	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Conton seed hulls	\$/00	\$225000
		Fleed	\$3.00	\$ 15000
CPOOS		Salt	\$.50	\$10000
			esto total	\$16,037 98
		less	5% disc.	8501 89
			sep total	\$15,731,09
				,
			SALES TAX	626.76
	( Al		ESTIMATED TOTAL	15862.85
UTHORIZATION			DATE	And the second

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

BKC. CHER. MISS. KH. HUNTON HUNTON GEOLOGIST ON WELL 1-6-24 1-27-24 SAMPLES SAVED FROM GEOLOGICAL SUPERVISION FROM 1400 SAMPLES EXAMINED FROM 1400 DRILLING TIME KEPT FROM 1400. MUD UP 2100 SPUD 1-5-24 SEC 12 LOCATION 2070 FINL 3880 FEL RTD 2845 CONTRACTOR WHITE KNIGHT DRLG. COUNTY WABAUNSEE STATE WILDCAT COMPANY CASTLE RESOURCES INC. 0 EASE HARTWICH #1 EORMATION TOPS 6000 FOLOGIS 677) CONSULTING GEOLOGIST オカイ TWSP 11S 6 1710-459 1892-641 2354-1103 2544-1293 2754-1503 2844-1593 COMP 1-28-24 70 1400 TYPE MUD CHEM.  $\overline{m}$ 10 2844 00 77 17 77 77 6771 KS 1710-459 1888-637 2350-1099 2544-1293 2756-1505 2845-1594 10E SAMPLES DRILLING TIME AND SAMPLE LOG PHONE: 785-625-5155 4350 Keystone Rd STACK/MICRO/SONIC HAYS, KS 67601 of the second se PRODUCTION SURFACE @ 307 Measurements Get V pixees 0 200 ELECTRICAL SURVEYS 1251 TD. TD TD. 1246' TD. S 40 K A H H Nº P REMARKS This we) ( was 40-50 Neaves) lower +bon COMMERCIA parties shows. Les 1-Jh dry holes AI + het well priolical recommended be plugged + 6:3 respectfully submitted LEGEND 0 A Δ Anhydrite Salt Sandstone . Shale Carb sh Limestone Ool.Lime Chert Dolomite DRILLING TIME IN MINUTES PER FOOT A DO TO HELL **OIL SHOWS Rate of Penetration Decreases** DEPTH REMARKS 5" 10" 15" SAMPLE DESCRIPTIONS 1400' L Los whoffen FX barren Soft Gray sh. 1450' Lms offich - evenm FA barren w Alt Graysh 1500 5555 and such くく 1550' and and LMS offul -25 TN Cherry FX barren Poor Por. - 1600 Sample



Black shine 2050 bray + Black shales 2100' 10 Ger sh- Green + L+ Rd SS 2150' Mieaceons Green F gr well sorted barren 1 m 2200' Caray + Black shales 11 55 C gr single 2250' grains - clusters Jarico) sh ISS offul For 2300' well sor ted Clusters barren Burgess -LMS TN Friable Fr barren with Javieos shales 2350' MISS. 2350-1099 Varied chert+ Inter & Por Com Stern and a chert who TN apaque + p> barren 2400' 11 and and RH and and Charles Charles 2450' N NN Bit Trie 2001 Shale Green-Geolograph brown 2500' Shak varico) purple/brown Green, Gray Black Rd - Las wh-The FX Fr FX barren --KH.2544-1293 shak 2550' 11 • 2600' 00 えへつ Varia) sh\_ cherty 2650 Lmg-some Foss-Few Pièces-corral Greensh inc - 1-124 HI -CFS 5 shok Groy Green CFS-AN C 2700' -cfs Sh Gray Green Z Shalt varies) mostly Green barren CFS 2750' HUNTON 2756-1505 Dol FX barren cherry inters Por Pol offich FX Cherty Tr Vug Por barren 2800' . -10 po 2850'