KOLAR Document ID: 1710977

Confidentiality Requested:

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 North / South Line of Section
City: State: Zip:	+ Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	NE NW SE SW
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Wo	orkover Field Name:
	Producing Formation:
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 Dep	oth:
	Conv. to SWD Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Comp	Quarter Sec TwpS. R East West
·	ompletion 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 Approved by: Date:

KOLAR Document ID: 1710977

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool rature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole				nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Steffen Resource Development, LLC
Well Name	CAROL 6-23
Doc ID	1710977

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Production	7.875	5.5	15	4777	H long, classA	375	100
Surface	12.258	8.625	0	160		1956	100

OPERATOR

Company: Steffen Resource Development LLC

Address: 3500 N Mayfield Road

Hutchinson, Kansas 67502

Contact Geologist: Jim Musgrove
Contact Phone Nbr: 620-786-0839
Well Name: Carol #6-23

Location: 17-30s-7w SW-SW-SE-

API: 15-095-00007-00-01 Pool:

State: Kansas Country: USA

Field:

Spivey-Grabs-Basil

Scale 1:240 Imperial

Well Name: Carol #6-23

Surface Location: 17-30s-7w SW-SW-SE-

Bottom Location:

API: 15-095-00007-00-01

License Number: 35666

Spud Date: 3/20/2023 Time: 12:00 AM

Region: Kingman

Drilling Completed: 3/24/2023 Time: 12:00 AM

Surface Coordinates: 330' FSL & 2310' FEL

Bottom Hole Coordinates:

Ground Elevation: 1497.00ft K.B. Elevation: 1510.00ft

Logged Interval: 4300.00ft To: 4886.00ft

Total Depth: 4300.00ft Formation: Arbuckle

Drilling Fluid Type: Chemical/Fresh Water Gel

CASING SUMMARY

Surface Intermediate Main

Bit Size

Hole Size

Size Set At Type # of Joints Drilled Out At

Surf Casing 8 5/8" in 160' ft

Int Casing

Prod Casing 5 1/2" in 4777' ft

CASING SEQUENCE

Type Hole Size Casing Size At 0.00 in 0.00 0.00 ft

OPEN HOLE LOGS

Logging Company:

Logging Engineer: Truck #:

11 uck π.

Logging Date: Time Spent:

Logs Run: 0 # Logs Run Successful: 0

LOGS RUN

Tool Logged Interval Logged Interval Hours Remarks Run#

0.00ft 0.00ft 0.00 0

LOGGING OPERATION SUMMARY

Date From To Description Of Operation

12/5/2007 0.00ft 0.00ft

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude:

Latitude:

IV/S CU-UIU. 330 I SL E/W Co-ord: 2310' FEL

LOGGED BY



James C Musgrove Petroleum LLC Company: 212 Main Street/PO Box 215 Address:

Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-0839

Logged By: KLG #307 James C Musgrove Name:

CONTRACTOR

Contractor: Duke Drilling Co. Inc.

Rig #: 7

Rig Type: mud rotary

Spud Date: 3/20/2023 Time: 12:00 AM TD Date: 3/24/2023 Time: 12:00 AM

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1510.00ft **Ground Elevation:** 1497.00ft

K.B. to Ground: 13.00ft

NOTES

Remarks:

5 1/2" disposal casing was set and cemented at 4777' (109' off the bottom).

Respectfully yours,

James C Musgrove Petroleum Geologist

ROCK TYPES



Clystcol Dolprim Dolsec

sdy Imst Lmst fw7>

Lmst fw<7

shale, grn shale, gry Carbon Sh

shale, red <u>∷∷∷∷</u> Ss

ACCESSORIES

STRINGER

∽ Chert

Limestone

···· Sandstone Siltstone

Shale

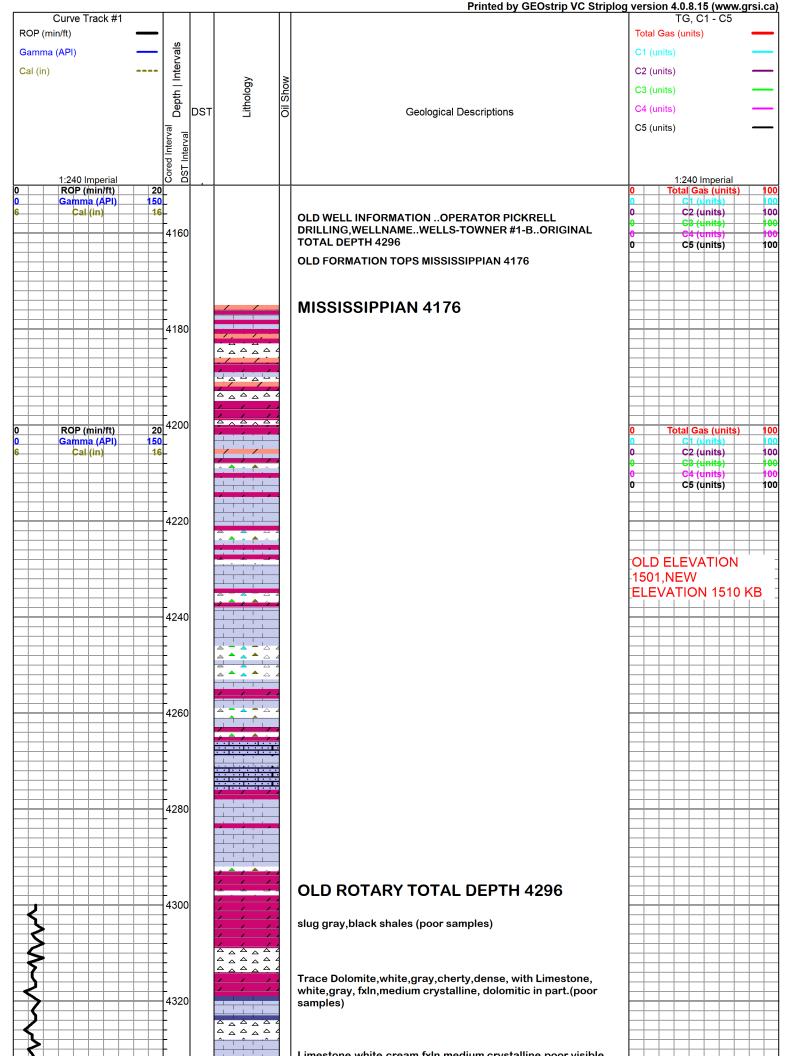
green shale red shale

carb shale

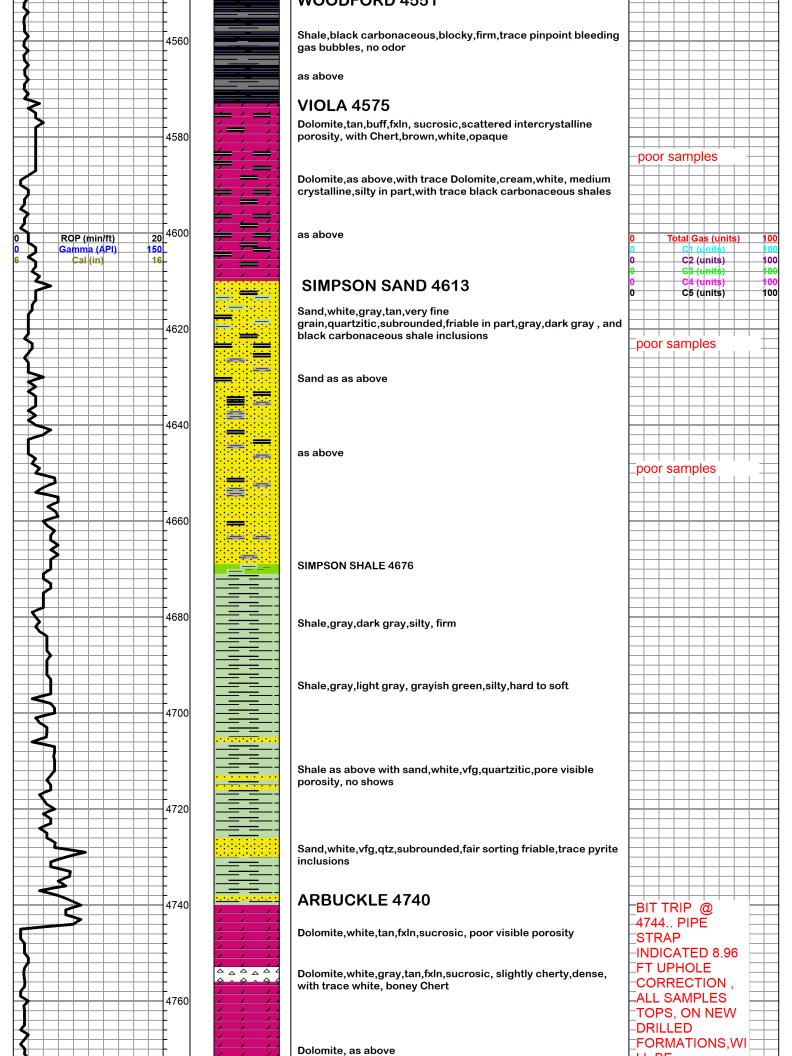
OTHER SYMBOLS

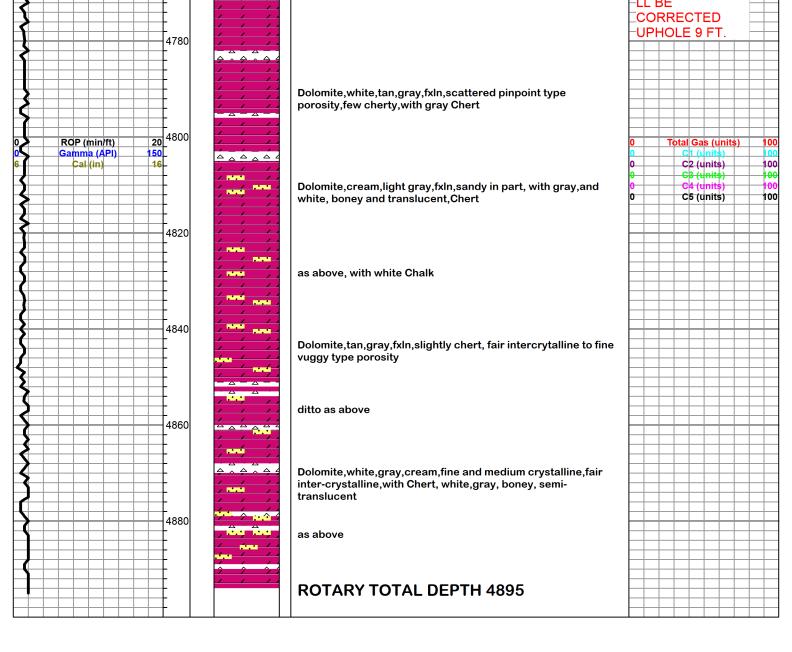
Oil Show

- Good Show
- Fair Show
- Poor Show
- O Spotted or Trace
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence **☀** Gas
- **DST** DST Int DST alt Core II tail pipe



		 		Ennestone,white,cream,rxm,medium crystamne,poor visible							-
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		4340									
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Customer		DURCE DEVELO	PME Lease & W	ell# CAROL 6-23				Date		3/2	4/2023
Service District	PRATT		County & S	tate KINGMAN KS	Legals S/T/I	R 17-	30S-07W	Job#		0,2	WEU20
Job Type	2 STAGE L.S.	□ PROD	מו ם	☑ SWD	New Well?	☑ YES	□ No	Ticket#	泉	LACE	14000
Equipment#	Driver			Job Safety A	nalysis - A Discu	ssion of Hazai		Procedures		VVI	4089
912	MATTAL	☐ Hard hat		☑ Gloves		□ Lockout/		☐ Warning Si	ane Or Flance	MISIN.	
179/521	CLIFTON	☑ H2S Monit	or	☑ Eye Protection		□ Required		□ Fall Protect		ing	
525/534	JOSH	☑ Safety Foot		☐ Respiratory Pro	tection	□ Slip/Trip/					
		☑ FRC/Protect	tive Clothing	☐ Additional Che	mical/Acid PPE	□ Overhead		☐ Specific Job ☐ Muster Poin			
		☐ Hearing Pro	otection	☐ Fire Extinguishe	er			issues noted belo		ocatio	ns
					Co	mments		noted belo			
Product/ Service											
Code		Do	escription		Unit of Measu	re Quantity					Net Amo
010	H-Long				sack	175.	00				\$6,1
	Class A Cement H-Plug A				sack	150.	00				\$3,0
Control of the Contro	Cello-flake				sack	50.6	00				\$7
	Calcium Chloride				lb	83.0	10				\$1
	5 1/2"Type B Bask	at Ohaa			lb	282.0	00				\$2
	5 1/2" Latch Down				ea	1.0	0				\$1,7
	5 1/2" DV Tool - 2				ea	1.0	0				\$3
	5 1/2" Cement Bas				ea	1.0	0				\$5,0
with the second	5 1/2 Turbolizer	yet			ea	2.0	0				\$6
	Super Flush II				ea	10.0	0				\$1,2
	Light Equipment M	ileane		The second second	gal	1,000.0	0				\$1,78
	3 - 4- p	licage			mi	50.0	0				\$10
0 7	Ton Mileage	*									
0					tm	870.0					\$1,30
) B	BLENDING AND M	IIXING									
	Depth Charge: 400				SK	375.00)				\$52
	Cement Pump Serv				job	1.00					\$2,50
	ement Data Acqui				ea	1.00		*			\$1,50
	ement Plug Conta				job	1.00					\$25
	ervice Supervisor				job	1.00	-				\$25
Н	eavy Equipment M	lileage			day	1.00					\$27
					mi	100.00					\$40
Custom	er Section: On the	e following scale	how would you sale	∍ Hurricane Services In							
						T-4-1-	T-2		Net:		\$27,986
Base	d on this job, how	v likely is it you	would recommen	d HSI to a colleague?		Total Taxable	\$ -	Tax Rate:			><
						usea on new well Humcane Service	s to be sales ta s relies on the	ducts and services ix exempt. customer provided a determination if	Sale Tax:	\$	
Unlike	ny 1 2 3	3 4 5	6 7 8	9 10 Extrem	sely Likely	services and/or pr	aduate :	r determination it			

TERMS; Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and are good for 30 days from the services. Any discount is based on 30 days net payment terms or cash. <u>DISCLAIMER NOTICE</u>: Technical date is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE



A STATE OF			IT REP	OURCE DEV	(EL ODME)			
46 31				DURCE DE		CAROL 6-2	WP4089	
		RAGO I			County:	KINGMAN F	e: 3/24/2023	
Field	d Rep:	KURT S	TRUBE		S-T-R:	17-308-07\	V Service	2 STAGE L.S.
Dow	nhole i	nformati	on		Calculated Slu	rry - Lead	Ca	alculated Slurry - Tail
Hole	Size:	7 7/8	in		Blend:	H-LONG	Blen	The state of the s
Hole [epth:	4895	ft		Weight:	15.0 ppg	Weigh	
Casing			1896		Water / Sx:	6.0 gal/sx	x2 5.0 gal / sx	
		4777.21	ft		Yield:	1.42 ft ³ / sx	d: 1.30 ft ³ / sx	
ubing /			in		Annular Bbls / Ft.:	bbs / ft.	bbs / ft.	
	epth:		ft		Depth:	ft	it ft	
ool / Pa	icker:				Annular Volume:	0.0 bbls	Annular Volume	
Tool E		313.57	ft		Excess:		Exces	
splace	ment:	112.7	bbls		Total Slurry:	44.3 bbls	Total Slurr	
			STAGE	TOTAL	Total Sacks:	175 sx	Total Sacks	
	RATE	PSI	BBLs	BBLs	REMARKS			Name of the second second
':30 PM				(2)	ON LOCATION			
:10 PM				-	RUN 5 1/2 15.5# CASING V	VITH BASKET SHOE ON BOT	TOM, BAFFLE IN COLLAR OF	#1 DV TOOL AT 313.57'
						LIZERS IN 2,4,6,8,10,12,14 &		
:10 PM				•	CASING IN,118' OFF BOTT	ГОМ		
:32 PM				-	DROP BALL, HOOK TO CA	ASING, BREAK CIRCULATIO	N WITH RIG	
:39 PM		500.0			SET PAKER SHOE			
:35 PM	3.0	310.0	24.0	24.0	MIX 1000 GALLONS SUPE	R FLUSH II		
:44 PM	3.0	250.0	5.0	29.0	PUMP 5 BBL WATEWR			
:45 PM	5.0	410.0	44.3	73.3	MIX 175 SKS H-LONG			
:58 AM	4.0	25.0	4.0	77.3	WASH PUMP AND LINES,	DROP PLUG		
:05 PM	5.0	130.0		77.3	START DISPLACEMENT			
:24 PM	5.0	250.0	89.0	166.3	LIFT PRESSURE			
:29 PM	3.5	320.0	102.0	268.3	SLOW RATE			
:35 PM			115.0	383.3	PLUG DID NOT LAND, WE	NT 2% OVER, RELEASED AN	ID HELD	
:58 PM				383.3	DROP OPENING TOOL	- The second		
MA 00:	2.0	25.0	7.0	390.3	MIX 30 SKS H-PLUG FOR I	RAT HOLE		
:05 AM	2.0	25.0	5.0	395.3	MIX 20 SKS H-PLUG FOR I			
:09 AM		500.0		395.3	OPEN TOOL AND CIRCULA	ATE		
:16 AM	3.8	130.0	34.7	430.0	MIX 150 SKS CLASS A	EMENT TO SURFACE WHILE	E MIXING CEMENT	
:28 AM	4.0	25.0	4.0	434.0	WASH PUMP AND LINES,	DROP CLOSING PLUG		
:32 AM	3.0	130.0		434.0	START DISPLACEMENT			
:36 AM			7.7	441.7	PLUG DID NOT LAND			
50 AM		900.0	8.0	449.7	PUMPED .25 BBL AND PLU	JG LANDED CLOSING TOOL		
				•	JOB COMPLETE, THANK Y	OU!		
				-	MIKE MATTAL			
N. IIV.		O.D.	and the same	E WAR	AUSTIN & JOSH	PARTICIPATE CONTRACTOR OF THE PARTICIPATE OF THE PA		
		CREW	HE LEE	W. 1 19.	UNIT		SUMMA	RY
	enter:	MATT			912	Average Rate	Average Pressure	Total Fluid
mp Ope		CLIFT			179/521	3.6 bpm	262 psi	450 bbls
Bu	lk #1:	JOSH			525/534			

ftv: 7-2020/11/30 mplv: 367-2023/02/28