

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Patterson Energy LLC
Well Name	VINE, C.E. 'A' 9
Doc ID	1728949

Tops

Name	Top	Datum
Anhydrite	1231	+705
Base	1266	+670
Topeka	2876	-940
Heebner	3104	-1168
Toronto	3120	-1184
Lansing	3144	-1208
BKC	3367	-1431
Arbuckle	3444	-1508

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

KET NUMBER 0927
 LOCATION Victoria
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-3-23	34898	Vine C.E. A' #9	23	11 S	29 W	Ellis
CUSTOMER Patterson Energy LLC			TRUCK #		DRIVER	
MAILING ADDRESS P.O. Box 400			103		Tom W	
CITY Hays			4/301		Jacket	
STATE KS			201		Chris K	
ZIP CODE 67601						

JOB TYPE Long string surface HOLE SIZE 12 1/4" HOLE DEPTH 1231' CASING SIZE & WEIGHT 8 5/8" 23#
 CASING DEPTH 1231' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on Discovery #2. Circulate mud
Mix 400sf 60/40, followed by 100sf 3+2. Displace 77 Bbl & shut in 4:15pm

Cement circulated

Thanks Tom & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL00B	1	PUMP CHARGE <u>Long string surface</u>	\$950 ⁰⁰	\$950 ⁰⁰
M001	32	MILEAGE	\$6 ⁵⁰	\$208 ⁰⁰
M002	23.04 tons	Ton Mileage delivery	\$1105 ⁹²	\$1105 ⁹²
CB014	400sf	60/40 390cc 290gal	\$18 ⁸⁵	\$7,540 ⁰⁰
CB004	100sf	Class A 390cc 290gal	\$25 ⁵⁰	\$2550 ⁰⁰
FE056	1	8 5/8" top rubber plug	\$315 ⁰⁰	\$315 ⁰⁰
FE069	1	8 5/8" fiber insert	\$150 ⁰⁰	\$150 ⁰⁰
CE003	+	8 5/8" head & m on: Fold		
			subtotal	\$12,818 ⁹²
			less 5% disc.	\$143 ⁴⁴
			subtotal	\$12,225 ⁴⁸
			SALES TAX	705.23
			ESTIMATED TOTAL	12930.71

AUTHORIZATION [Signature] TITLE _____ DATE _____

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.

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

KET NUMBER 0931

LOCATION Victoria

FOREMAN Tam Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-9-23	34	Vine GE A #9	23	11	19	Ellis

CUSTOMER <u>Putterson Energy</u>		
MAILING ADDRESS <u>PO Box 400</u>		
CITY <u>Hog 5</u>	STATE <u>KS</u>	ZIP CODE <u>67601</u>

TRUCK #	DRIVER	TRUCK #	DRIVER
103	Proston D		
201	Jacket		
	Tam W		
	Chas K		

JOB TYPE <u>TOP</u>	HOLE SIZE _____	HOLE DEPTH <u>3530'</u>	CASING SIZE & WEIGHT <u>5 1/2" 15.5#</u>
CASING DEPTH <u>3529</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING _____
DISPLACEMENT _____	DISPLACEMENT PSI _____	MIX PSI _____	RATE _____

REMARKS: safety meeting + set up on Discovery #2 Ben Float equip.
hooked up head + manifold circulate for . Pump 500gal mud flow
followed by 20 Bbl KCL water max 50 sf 60/40 30 R/H 20 M/H
Mix 14.5sf 10% salt 5# kdsol. + displace plug 44 Bbl 11:30 pm

Thanks Tom + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>PL004</u>		PUMP CHARGE	\$950.00	\$950.00
<u>m001</u>	<u>32</u>	MILEAGE	\$6.50	\$208.00
<u>m002</u>	<u>9.75</u>	<u>Tan Mileage Delivery</u>	\$60.00	\$585.00
<u>CB031</u>	<u>14.5sf</u>	<u>Class A 10% salt 5# kdsol</u>	\$27.00	\$391.50
<u>CB010</u>	<u>50sf</u>	<u>60/40 49gal 1/2" float</u>	\$16.10	\$805.00
<u>FE0033</u>	<u>1</u>	<u>5 1/2" AFU cable shoe</u>	\$400.00	\$400.00
<u>FE051</u>	<u>1</u>	<u>5 1/2" latch drum plug obse</u>	\$495.00	\$495.00
<u>FE014</u>	<u>7</u>	<u>5 1/2" turbolift ser</u>	\$80.00	\$560.00
<u>FE022</u>	<u>2</u>	<u>5 1/2" Basket</u>	\$275.00	\$550.00
<u>CP013</u>	<u>500 gal</u>	<u>mud flush</u>	\$1.00	\$500.00
<u>CP014</u>	<u>2 gal</u>	<u>KCL water</u>	\$30.00	\$60.00
<u>CE003</u>	<u>+</u>	<u>Head + manifold</u>		
<u>m004</u>	<u>32</u>	<u>Medium Truck Charge</u>		
			sub total	\$9043.00
			less 5% disc.	\$452.15
			sub total	\$8,590.85
			SALES TAX	484.45
			ESTIMATED TOTAL	9075.30

AUTHORIZATION *Tam* TITLE _____ DATE _____

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.



Geologic Report
Drilling Time and Sample Log

Operator Patterson Energy, LLC.
Lease Vine C.E.
API # 15-051-27083-0000
Field Solomon
Location 1568' FNL & 391' FWL
Sec. 23 Twp. 11S Rge. 19W
County Ellis State Kansas
Formation Sample tops Log Tops Datum Struct Comp
Anhydrite 1221' 1231' +705'
Base 1268' 1266' +670'
Topeka 2877' 2876' -940'
Heebner 3104' 3104' -1168' (-3)
Toronto 3123' 3120' -1184' -1189' (+5)
Lansing 3144' 3144' -1208' -1208' (TL)
BKC 3369' 3367' -1431'
Arbuckle 3445' 3444' -1508' -1508' (TL)

Elevation
KB 1936'
DF
GL 1928'
Casing Record
Surface 8.58' @ 1231'
Production 5.12' @ 3529'

Electrical Surveys
CNL/CDL, DIL, MEL

Drilling Contractor
Completed
Samples Saved From
Drilling Time Kept From
Samples Examined From
Geological Supervision From

Discovery Drilling Co., Inc. Rig #2
S-9-2023
RTD
RTD
RTD
RTD

2850'
2850'
2850'
2850'

To
To
To
To

Chemical
2722'

Displacement

Mud Type

Summary and Recommendations
The location for the Vine C.E. A #9 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. No Drill Stem Tests were conducted. Commercial oil shows were encountered in the Arbuckle Formation. After all gathered data had been examined the decision was made to run 5 1/2" production casing to further evaluate the Vine C.E. A #9 well.

Respectfully Submitted,
Jason T Alm
Hard Rock Consulting, Inc.

Reference Well For Structural Comparison Continental Oil Company #3 Vine C.E. A #9
SW SW NW Sec. 23 T11S R19W Ellis Co. KS

Drilling Contractor
Completed
Samples Saved From
Drilling Time Kept From
Samples Examined From
Geological Supervision From

Discovery Drilling Co., Inc. Rig #2
S-9-2023
RTD
RTD
RTD
RTD

2850'
2850'
2850'
2850'

To
To
To
To

Chemical
2722'

Displacement

Mud Type

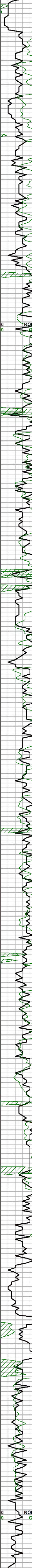
ROCK TYPES

- Congl Dolprim
- Dolsec Lmst fw7>
- shale, grn shale, gry
- Carbon Sh shale, red
- Ss

OTHER SYMBOLS

- OIL SHOWS: Even Stn, Spotted Stn 50-75%, Spotted Stn 25-50%, Spotted Stn 1-25%, Questionable Stn, Dead Oil Stn, Fluorescence
- DST: DST Int, DST alt, Core, tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



Geological Descriptions
Ls - Tan-lr gry, subxln, dns
Sh - Gry-lt grn, soft
Topeka 2877' -941
Ls - Tan-gry, fn xln, ool in part, many ool mottled w/ gry sh
Ls - ala
Ls - Tan, fn xln w/ fair-good interxln & vuggy por, lt-fair oil st, many rxs w/ lt brn sat, fsfo, good odor, fair yel fluor
Sh - Gry
Ls - Tan-gry, fn-subxln, mostly dns, few pcs sl ool, chalky in part
Ls - ala
Ls - Tan-offwh, fn xln w/ poor-fair interxln & vuggy por, few pcs w/ lt brn oil st, sl sfo, lt odor
Sh - Blk, carb
Sh - Gry-brn
Ls - Tan, fn-subxln, mostly dns
Ls - Lt gry-gry, fn xln, mostly dns, chalky in part
Sh - Gry
Sh - Blk, carb
Ls - Offwh-lt gry, fn-coarse xln, ool pkst in part w/ fair vuggy, ooc & interxln por, few pcs lg calcite xtals, lt-fair oil st, few pcs w/ lt sat, fsfo on break, lt odor, dull yel fluor
Sh - Gry
Ls - Tan-lt gry, fn xln, ool in part w/ poor ooc por, lt spot oil st in por, nsfo no odor
Ls - Tan-lt gry, fn-subxln, ool in part, dns, chalky in part
Heebner 3104' -1168
Sh - Blk, carb
Sh - Gry
Toronto 3123' -1187
Ls - Tan, fn xln w/ scat poor-fair vuggy & interxln por, lt-fair scat oil st, sl sfo when broken, v lt odor, scat dull yel fluor
Lansing 3145' -1209
Ls - Tan, fn xln w/ poor-fair scat interxln por, lt spot oil st in por, sl sfo when broken, lt odor, dull yel fluor
Ls - Tan-lt gry, fn-subxln, dns, sl mottled w/ gry sh
Ls - Tan, fn xln, ool in part w/ poor-scat fair interxln & ooc por, fair oil st in por, many rxs w/ lt sat, fsfo on break & cup, fair odor, lt-fair yel fluor
Ls - Tan, fn xln, ool pkst in part w/ poor scat ooc por, lt-scat fair oil st in por, sl sfo on break, lt odor, dull yel fluor
Sh - Drk gry-blk
Ls - Tan, fn xln, ool pkst w/ poor-fair ooc por, lt-fair oil st w/ lt sat, sl sfo on break, lt odor, fair yel fluor
Ls - Tan, fn xln, ool w/ fair ooc & vuggy por, lt scat oil st, v sl sfo on cup, v lt odor, no fluor, chalky in part
Ls - Tan, fn-subxln, ool in part, mostly dns
Ls - ala, sl chert-tan-gry
Sh - Blk, carb
Sh - Gry-brn
Ls - Tan, fn-subxln, mostly dns
Sh - Gry
Ls - Offwh-lt gry, fn xln w/ poor-scat fair pinpoint interxln por, lt-spot fair oil st in por, sl sfo on cup, lt odor, dull yel fluor
Ls - Tan, fn xln, ool pkst in part w/ poor ooc por, lt spot oil st in por, sl sfo on cup, v lt odor, spot dull yel fluor, mostly dns
Sh - Blk, carb
Ls - Tan-offwh, fn-subxln, ool pkst in part w/ poor scat ooc por, lt spot oil st in por, sl sfo when broken, v lt odor, dull spot fluor, mostly dns
Ls - Tan-offwh, fn-subxln, ool in part, dns
Sh - Blk, carb
BKC 3369' -1433
Ls - Tan, fn xln, ool in part w/ poor vuggy & scat pinpoint intra-fossil por, lt oil st in por, v sl sfo when broken, mostly dns
Ls - Tan, fn xln, ool pkst in part w/ poor scat ooc por, lt-fair oil st, few rxs w/ lt spot sat, sl sfo when broken, lt odor, dull yel fluor
Cong - Red sh, dns Ls, sl chert
Cong - ala, few pcs Ls w/ fair vuggy por, lt oil st, many pcs chert w/ pinpoint vuggy por w/ dead oil st
Cong - ala, barren
Sh - Gry-drk gry-grn, few pcs dns dolo
Sh - Dolo - ala
Sh - Grn, waxy, few pcs interbedded dns Ss, lt oil st, sfo on cup
Arbuckle 3445' -1509
Dolo - Tan, fn-v fn sucxln, ool in part w/ fair interxln por, lt-heavy oil st, many rxs w/ good sat, gsfo, good odor, fair yel fluor
Dolo - ala
Dolo - Tan, fn-med sucxln, ool in part w/ fair-good interxln por, lt-good oil st, many rxs w/ good sat, gsfo, good odor, fair yel fluor
Dolo - Tan, fn-med sucxln, ool in part w/ fair-good interxln por, lt-fair oil st, few rxs w/ fair sat, fsfo, good odor, fair yel fluor
Dolo - Tan, fn-med sucxln, ool in part w/ fair-good interxln por, barren, sl chert-wht
Dolo - ala
Total Depth 3530' -1594

Comment
Geo on location 5:30 p.m. 5-6-2023
Mud Check @ 3143'
VIS 49
WT 8.9
FIL 8.0
PH 10.5
CHL 4k

Respectfully Submitted,
Jason T Alm
AAPG # 10134582