KOLAR Document ID: 1472663

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 # 32218
Name: TDR Construction, Inc.
Address 1: PO BOX 339
Address 2:
City: LOUISBURG State: KS Zip: 66053 + 0716
Contact Person: Lance Town
Phone: (913) 710-5400
CONTRACTOR: License # 32218
Name: TDR Construction, Inc.
Wellsite Geologist: N/A
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 #:

9/16/2019	9/19/2019	9/19/2019
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-059-27197-00-00
Spot Description:
NW SW SE NE Sec. 32 Twp. 15 S. R. 21 ☑ East ☐ West
2990 Feet from ☐ North / ☑ South Line of Section
1060 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Franklin
Lease Name: MCCOY Well #: 4WA
Field Name: Paola-Rantoul
Producing Formation: Squirrel
Elevation: Ground: 1044 Kelly Bushing: 0
Total Vertical Depth: 820 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 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: 1500 ppm Fluid volume: 20 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 10/11/2019

Operator Name: TDR Construction, Inc. Lease Name: MCCOY Well #: 4WA

Sec. 32 Twp. 15 S. R. 21 ☑ East ☐ West County: Franklin

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 Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

GammaRayNeutronCCL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Squirrel	740	GL

CASING RECORD ☑ New ☐ 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
Surface	9	6.25	10	20	Portland	3	50/50 POZ
Production	5.625	2.875	8	811	Portland	137	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top	Bottom
		740	750

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
	740	750			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	TDR Construction, Inc.
Well Name	MCCOY 4WA
Doc ID	1472663

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	6.25	10	20	Portland	3	50/50 POZ
Production	5.625	2.875	8	811	Portland	137	50/50 POZ

Franklin County, KS
Well: McCoy 4WA
Lease Owner: TDR

TDR Construction, INC.
(913) 710-5400

Commenced Spudding:
9/16/2019

WELL LOG

Thickness of Strata	Formation	Total Depth
0-45	soil-clay	45
35	shale	80
24	lime	104
7	shale	111
10	lime	121
5	shale	126
21	lime	147
37	shale	184
20	lime	204
74	shale	278
23	lime	301
23	shale	324
1	lime	325
1	shale	326
5	lime	331
42	shale	373 redbed
2	lime	375
14	shale	389
9	lime	398
2	shale	400
13	lime	413
9	shale	422
23	lime	445
4	shale	449
4	lime	453
3	shale	456
6	lime	462 hertha
127	shale	589
7	sand	596 odor-no show
44	shale	640
7	lime	647
8	shale	655
4	lime	659
8	shale	667 coal
6	lime	673
14	shale	687
3	lime	690
13	shale	703
5	lime	708
22	shale	730

Franklin County, KS
Well: McCoy 4WA
Lease Owner: TDR

TDR Construction, INC.
(913) 710-5400

Commenced Spudding:
9/16/2019

2	lime	732
5	shale	737
2	sand	739 no oil
1	sandy lime	740 no oil
13	sand	753 mostly solid-good saturation
820	sandy shale	820 TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh
D equals diameter in feet.
h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004
BPH - barrels per hour
PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave
* d - Diameter of Engine Sheave
SPM - Strokes per minute
RPM - Engine Speed
R - Gear Box Ratio
*C - Shaft Center Distance

D - RPMxd over SPMxR
d - SPMxRxD over RPM
SPM - RPMXD over RxD
R - RPMXD over SPMxD

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

Log Book

Well No. 4WA

Farm McCoy

KS (State) Franklin (County)

32 (Section) 15 (Township) 21 (Range)

For TDR construction (Well Owner)

TDR CONSTRUCTION, INC.
PO Box 339
Louisburg, KS 66053
913-710-5400

McCoy Farm: Franklin County
KS State; Well No. 4WA
Elevation 1044
Commenced Spuding 9-16 20 19
Finished Drilling 9-19 20 19
Driller's Name Wesley Dollard
Driller's Name
Driller's Name
Tool Dresser's Name Jacob Sloan
Tool Dresser's Name
Tool Dresser's Name
Contractor's Name TDR

32 (Section) 15 (Township) 21 (Range)

Distance from S line, 2990 ft.
Distance from E line, 1060 ft.

3 sacks
9 hrs
5 5/8 borehole
2 7/8 casing

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
6¼" Set	20	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
779	-	Bottle			
811	-	Float		2	7/8
820	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-45	Soil - clay	45	
35	Shale	80	
24	Lime	104	
7	Shale	111	
10	Lime	121	
5	Shale	126	
21	Lime	147	
37	Shale	184	
20	Lime	204	
74	Shale	278	
23	Lime	301	
23	Shale	324	
1	Lime	325	
1	Shale	326	
5	Lime	331	
42	Shale	373	redbed
2	Lime	375	
14	Shale	389	
9	Lime	398	
2	Shale	400	
13	Lime	413	
9	Shale	422	
23	Lime	445	
4	Shale	449	
4	Lime	453	
3	Shale	456	
6	Lime	462	Hertha

462

Thickness of Strata	Formation	Total Depth	Remarks
127	Shale	589	
7	Sand	596	odor - no show
44	Shale	640	
7	Lime	647	
8	Shale	655	
4	Lime	659	
8	Shale	667	coal
6	Lime	673	
14	Shale	687	
3	Lime	690	
13	Shale	703	
5	Lime	708	
22	Shale	730	
2	Lime	732	
5	Shale	737	
2	sand	739	no Oil
1	sandy Lime	740	no Oil
13	Sand	753	mostly solid - good saturation
67	sandy shale	820	TD

Louisburg, KS 66053

Ticket Number_____
Location_____
Foreman_____

Field Ticket & Treatment Report

Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
9-19-19		McCoy 4WA	32	15	21	FR

Customer	Mailing Address		
		City	State / Zip Code

Job Type long String Hole Size 5 5/8 Hole Depth 820 Casing Size & Weight 2 7/8

Casing Depth 811 Drill Pipe_____ Tubing_____ Other_____

Displacement_____ Displacement PSI_____ Mix PSI_____ Rate_____

Remarks Rig-up, Circulate well, pump class A cement to top & pump plug.

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		1000
		Cement Truck		500
		Water Truck		500
	137	Cement	16	2192
		Gel		
		Plug		45
			Sales Tax	
			Estimated Total	4237

Authorization_____ 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.