

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 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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MiamiCounty, KS  
 Well: Hunt 5W  
 Lease Owner: Town Oil

TDR Construction, INC  
 (913) 710-5400

Commenced Spudding:  
 11/19/2019

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	soil-clay	7
8	lime	15
95	shale	110
16	lime	126
25	shale	151
8	lime	159
41	shale	200
16	lime	216
11	shale	227
27	lime	254
6	shale	260
24	lime	284
5	shale	289
5	lime	294
2	shale	296
5	lime	301 Hertha
26	shale	327
18	sand	345 no oil
62	shale	407
7	sand	414 no oil
27	shale	441
9	limey sand	450 oil show-good bleed
10	shale	460
15	lime	475
46	shale	521
7	lime	528
12	shale	540
4	lime	544
15	shale	559
5	lime	564
18	shale	582
3	lime	585
6	shale	591
5	lime	596
10	shale	606
15	sand	621 broken-good oil show
79	sandy shale	700 TD

# Short Cuts

## TANK CAPACITY

BBLS. (42 gal.) equals  $D^2 \times h \times 14$

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

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

\* Need these to figure belt length

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

746 WATTS equal 1 HP

# Log Book

Well No. 5W

Farm Hunt

KS

(State)

Miami

(County)

24

(Section)

17

(Township)

21

(Range)

For Town Oil Company

(Well Owner)

**TDR CONSTRUCTION, INC.**

**PO BOX 339**

**Louisburg, KS 66053**

**913-710-5400**

Hunt Farm: Miami County  
KS State: Well No. 5W  
Elevation 995  
Commenced Spuding 11-19 20 19  
Finished Drilling 11-20 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  
Tool Dresser's Name  
Contractor's Name TDR  
24 17 21

(Section) (Township) (Range)  
Distance from 2 line, 2025 ft.  
Distance from 1 line, 650 ft.

3 sacks  
8 hrs  
5 7/8 bore hole  
2 7/8 casing

CASING AND TUBING RECORD

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
658	-	22 1/2			
690	-	Floer		2 7/8	
700	-	TD			

10" Set 10" Pulled  
8" Set 8" Pulled  
6 1/2" Set 19 6 1/2" Pulled  
4" Set 4" Pulled  
2" Set 2" Pulled

Thickness of Strata	Formation	Total Depth	Remarks
0-7	soil-clay	7	
8	lime	15	
95	shale	110	
16	lime	126	
25	shale	151	
8	lime	159	
41	shale	200	
16	lime	216	
11	shale	227	
27	lime	254	
6	shale	260	
24	lime	284	
5	shale	289	
5	lime	294	
2	shale	296	
5	lime	301	Hoathg
26	shale	327	
18	sand	345	no oil
62	shale	407	
7	sand	414	no oil
27	shale	441	
9	limey sand	450	oil show - good bleed
10	shale	460	
15	lime	475	
46	shale	521	
7	lime	528	
12	shale	540	







**CEMENT TREATMENT REPORT**

Customer: <b>TDR Construction</b>	Well: <b>Hunt 5W</b>	Ticket: <b>ICT2813</b>
City, State: <b>Louisburg, KS</b>	County: <b>MI, KS</b>	Date: <b>11/20/2019</b>
Field Rep: <b>Lance Town</b>	S-T-R: <b>SE 24-17-21</b>	Service: <b>longstring</b>

Downhole Information	
Hole Size:	<b>5 5/8 In</b>
Hole Depth:	<b>700 ft</b>
Casing Size:	<b>2 7/8 in</b>
Casing Depth:	<b>690 ft</b>
Tubing / Liner:	<b>In</b>
Depth:	<b>ft</b>
Tool / Packer:	<b>affle</b>
Depth:	<b>658 ft</b>
Displacement:	<b>3.81 bbls</b>

Calculated Slurry	
Weight:	<b>14.25 # / sx</b>
Water / Sx:	<b>gal / sx</b>
Yield:	<b>1.26 ft<sup>3</sup> / sx</b>
Bbls / Ft.:	
Depth:	<b>ft</b>
Annular Volume:	<b>0 bbls</b>
Excess:	
Total Slurry:	<b>21.77 bbls</b>
Total Sacks:	<b>97 sx</b>

Product	% / #	#
Class A	<b>50.00</b>	<b>4559</b>
Poz	<b>50.00</b>	<b>3589</b>
Gel	<b>2.00</b>	<b>163</b>
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		

**Total 8,311**

TIME	RATE	PSI	BBLs	REMARKS
2:00 PM	4.0			established circulation
	4.0			mixed and pumped 200# Bentonite followed by 5 bbls fresh water
	4.0			mixed and pumped 97 sks 50/50 Pozmix cement w/ 2% Bentonite per sk
	4.0			cement to surface, flushed pump clean
	1.0			pumped 2 7/8" rubber plug to affle w/ 3.81 bbls fresh water
				pressure to 800 PSI, released pressure to set float valve
	4.0			washed up equipment

CREW		UNIT	SUMMARY		
Cementer:	<b>Casey Kennedy</b>	<b>89</b>	Average Rate	Average Pressure	Total Fluid
Pump Operator:	<b>Garrett Scott</b>	<b>238</b>	3.5 bpm	#DIV/0! psi	- bbls
Bulk #1:	<b>Pat Sanborn</b>	<b>248</b>			
Bulk #2:	<b>Keith Detwiler</b>	<b>124</b>			