

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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CEMENT TREATMENT REPORT

Customer:	TDR Construction	Well:	Moldenhauer 104	Ticket:	EP5972
City, State:	wellsville, KS	County:	Franklin, KS	Date:	9/15/2022
Field Rep:	Lance Town	S-T-R:	32-15-21	Service:	Longstring

Downhole Information	
Hole Size:	5 5/8 in
Hole Depth:	840 ft
Casing Size:	2 7/8 in
Casing Depth:	812.5 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	Baffle
Tool Depth:	780.3 ft
Displacement:	4.5 bbls

Calculated Slurry - Lead	
Blend:	Econobond
Weight:	13.5 ppg
Water / Sx:	7.1 gal / sx
Yield:	1.56 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
3:00 PM			-	-	On location, Held safety meeting
			-	-	Established circulation
	4.0			-	Mixed and pumped 200# bentonite gel followed by 4 BBL fresh water
	4.0			-	Mixed and pumped 83 SKS of Econobond cement, cement to surface
	4.0			-	flushed pump clean
	1.0			-	pumped 1 2 7/8" rubber plug to baffle at 780' with 4.5 BBL fresh water
				-	Pressured well up to 800 PSI, well held pressure
				-	Released pressure to set the float valve
	4.0			-	washed up equipment
4:00 PM					Left location

CREW		UNIT		SUMMARY		
Cementer:	Garrett Scott		89	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Nick Beets		239	3.4 bpm	- psl	- bbls
Bulk #1:	Devin Katzer		248			
Bulk #2:	Trevor Glasgow		110			

Franklin County, KS
Well: Moldenhaur 104
Lease Owner: TDR

TDR Construction, Inc.
(913) 710-5400

Commenced Spudding:
09/14/2022

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	Soil-Clay	15
59	Shale	74
25	Lime	99
9	Shale	108
9	Lime	117
5	Shale	122
21	Lime	143
35	Shale	178
21	Lime	199
79	Shale	278
41	Lime	319
22	Shale	341
1	Lime	342
20	Shale	362
2	Lime	364
14	Shale	378
24	Lime	402
9	Shale	411
23	Lime	434
3	Shale	437
2	Lime	439
5	Shale	444
6	Lime	450
3	Shale	453
4	Lime	457
113	Shale	570
12	Sand	582
35	Shale	617
2	Sand	619
8	Shale	627
7	Lime	634
9	Shale	643
5	Lime	648
5	Shale	653
8	Lime	661
13	Shale	674
3	Lime	677
11	Shale	688
11	Lime	699
12	Shale	711

Short Cuts

TANK CAPACITY

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

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals $BPH \times PSI \times .0004$

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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 104

Farm Moldenhauer

KS
(State)

Franklin
(County)

32
(Section)

15
(Township)

21
(Range)

For TDR Construction
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Maldenhaver Farm: Franklin County

KS State: Well No. 104

Elevation 1013

Commenced Spuding Sep. 14 20 22

Finished Drilling Sep. 15 20 22

Driller's Name Ryan Ward

Driller's Name

Driller's Name

Tool Dresser's Name Jay Sanders

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TDR Construction

32 15 21

(Section) (Township) (Range)
Distance from 5 line, 5275 ft.

Distance from E line, 4100 ft.

3 sacks cement
5-5/8" Bore hole
2-7/8" casing.
9 hrs

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/2" Set 21' _____ 6 1/2" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
780.3		Baffle			
812.5		Float			
840		T.D.			

Thickness of Strata	Formation	Total Depth	Remarks
0-15	Soil & Clay	15	
59	Shale	74	
25	Lime	99	
9	Shale	108	
9	Lime	117	
5	Shale	122	
21	Lime	143	
35	Shale	178	
21 21	Lime	199 199	
79	Shale	278	
41	Lime	319	
22	Shale	341	
1	Lime	342	
20	Shale	362	
2	Lime	364	
14	Shale	378	
24	Lime	402	
9	Shale	411	
23	Lime	434	
3	Shale	437	
2	Lime	439	
5	Shale	444	
6	Lime	450	Hertha
3	Shale	453	
4	Lime	457	
113	Shale	570	
12	Sand	582	Slight odor. No oil

Sand 582

Thickness of Strata	Formation	Total Depth	Remarks
35	Shale	617	
2	Sand	619	
8	Shale	627	
7	Lime	634	
9	Shale	643	
5	Lime	648	
5	Shale	653	
8	Lime	661	
13	Shale	674	
3	Lime	677	
11	Shale	688	
11	Lime	699	
12	Shale	711	
5	Lime	716	
8	Shale	724	
1	Sandy Shale	725	
4	Sand	729	OK oil show. Broken
7	Sand	736	Mostly solid. Good oil show
7	Sand	743	Broken. Good, Good oil show
2	Sand	745	Broken. little oil show
16	Sandy Shale	761	
79	Shale	840	TD.