

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

Confidentiality Requested:
Yes No

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 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	Merit Energy Company, LLC
Well Name	RIVER BEND 1
Doc ID	1505529

All Electric Logs Run

ARRAY COMPENSATED TRUE RESISTIVITY LOG 5 INCH
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 INCH
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2 INCH
TRIPLE COMBO LOG
ANNULAR HOLE VOLUME LOG
MICROLOG

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Well Name	RIVER BEND 1
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Tops

Name	Top	Datum
HEEBNER	3945	.
TORONTO	3958	.
LANSING	4050	.
SWOPE	4402	.
MARMATON	4571	.
ALTAMONT	4594	.
CHEROKEE	4702	.
MORROW	4882	.
CHESTER	4940	.
ST GENEVIEVE	4972	.
ST LOUIS	5008	.

River Bend 1 OH Final Survey.txt

www.prototypewellplanning.com

Merit Energy
#1 - Survey #1

Finney County, Kansas (NAD27)
River Bend Unit
Your Ref:

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
0.00	0.000	0.000	0.00	0.00	0.00	0.00
0.00						
225.00	0.600	300.000	225.00	0.59	-1.02	-0.08
0.27						
373.00	0.500	36.800	372.99	1.49	-1.30	0.51
0.56						
522.00	0.200	65.000	521.99	2.12	-0.68	1.38
0.23						
684.00	0.300	94.000	683.99	2.21	0.00	1.83
0.10						
842.00	0.200	191.000	841.99	1.91	0.36	1.79
0.24						
1000.00	0.700	255.000	999.98	1.39	-0.62	0.80
0.40						
1159.00	0.300	204.000	1158.98	0.76	-1.73	-0.34
0.35						
1317.00	0.100	198.900	1316.97	0.25	-1.95	-0.88
0.13						
1541.00	0.600	269.900	1540.97	0.07	-3.18	-1.73
0.26						
1595.00	0.300	253.000	1594.97	0.03	-3.60	-2.00
0.60						
1656.00	0.500	295.000	1655.97	0.09	-3.99	-2.16
0.56						
1784.00	0.800	349.200	1783.96	1.20	-4.67	-1.62
0.51						
1816.00	0.800	3.100	1815.96	1.65	-4.70	-1.27
0.60						
1885.00	1.000	31.700	1884.95	2.64	-4.35	-0.25
0.70						

River Bend 1 OH Final Survey.txt

1944.00	1.200	23.100	1943.94	3.65	-3.84	0.87
0.44						
2008.00	1.600	34.800	2007.92	5.00	-3.07	2.42
0.77						
2072.00	2.100	39.200	2071.89	6.64	-1.82	4.48
0.81						
2135.00	2.600	36.300	2134.83	8.69	-0.24	7.06
0.82						
2198.00	3.200	37.600	2197.75	11.23	1.68	10.24
0.96						
2260.00	3.800	36.600	2259.64	14.25	3.96	14.02
0.97						
2324.00	4.400	30.800	2323.47	18.06	6.48	18.59
1.14						
2387.00	4.600	30.600	2386.28	22.31	9.00	23.52
0.32						
2451.00	5.200	29.300	2450.04	27.05	11.73	28.98
0.95						
2515.00	5.900	31.100	2513.74	32.40	14.85	35.15
1.13						
2579.00	7.300	37.600	2577.32	38.43	19.03	42.49
2.48						
2642.00	8.200	37.400	2639.74	45.18	24.20	50.98
1.43						
2704.00	14.700	49.000	2700.48	53.86	32.83	63.01
11.07						
2769.00	18.900	48.700	2762.69	66.22	46.97	81.17
6.46						
2831.00	21.800	44.600	2820.82	81.05	62.60	102.21
5.21						
2893.00	22.800	39.900	2878.19	98.47	78.39	125.48
3.30						
2958.00	23.300	38.400	2938.00	118.20	94.46	150.83
1.19						
3022.00	22.000	35.000	2997.06	137.94	109.20	175.44
2.88						
3086.00	21.700	33.800	3056.47	157.60	122.65	199.26
0.84						
3149.00	22.000	33.800	3114.94	177.08	135.70	222.71
0.48						
3213.00	21.500	34.600	3174.39	196.70	149.03	246.42
0.91						
3276.00	22.000	31.800	3232.90	216.23	161.80	269.76
1.83						
3339.00	21.500	31.600	3291.42	236.09	174.07	293.08
0.80						
3401.00	21.800	33.500	3349.04	255.37	186.37	315.95
1.23						

River Bend 1 OH Final Survey.txt

3464.00	22.500	33.200	3407.39	275.21	199.43	339.70
1.13						
3526.00	21.700	33.700	3464.84	294.67	212.29	363.02
1.33						
3590.00	21.500	32.200	3524.34	314.44	225.10	386.57
0.92						
3654.00	21.300	30.100	3583.93	334.42	237.18	409.89
1.24						
3716.00	21.700	30.300	3641.62	354.06	248.61	432.56
0.66						
3779.00	20.800	32.000	3700.33	373.60	260.42	455.36
1.73						
3842.00	23.500	34.800	3758.68	393.41	273.52	479.11
4.60						
3904.00	23.100	34.300	3815.63	413.60	287.42	503.63
0.72						
3968.00	24.400	35.200	3874.20	434.78	302.12	529.40
2.11						
4032.00	24.100	35.400	3932.56	456.23	317.31	555.68
0.49						
4096.00	23.600	34.500	3991.09	477.44	332.13	581.56
0.97						
4160.00	24.000	32.900	4049.65	498.93	346.46	607.38
1.19						
4223.00	23.100	32.700	4107.40	520.09	360.10	632.55
1.43						
4285.00	23.600	33.400	4164.32	540.68	373.50	657.11
0.92						
4348.00	23.500	33.500	4222.08	561.68	387.37	682.28
0.17						
4411.00	23.700	32.700	4279.81	582.81	401.15	707.50
0.60						
4474.00	22.100	30.800	4337.84	603.65	414.06	731.99
2.80						
4538.00	21.900	35.100	4397.18	623.76	427.09	755.95
2.54						
4600.00	21.800	36.100	4454.73	642.52	440.52	779.01
0.62						
4664.00	21.000	36.100	4514.32	661.39	454.28	802.35
1.25						
4726.00	20.800	35.700	4572.24	679.30	467.25	824.46
0.40						
4790.00	22.200	33.200	4631.79	698.65	480.50	847.91
2.61						
4854.00	20.800	33.500	4691.33	718.24	493.39	871.36
2.19						
4918.00	20.200	31.700	4751.28	737.12	505.47	893.77
1.36						

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4980.00	19.600	32.000	4809.58	755.05	516.60	914.85
0.98						
5044.00	19.100	31.300	4869.96	773.10	527.73	936.04
0.86						
5095.00	18.000	30.200	4918.31	787.04	536.03	952.23
2.26						
5145.00	18.000	30.200	4965.86	800.39	543.80	967.65
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to RKB= 13'. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 34.090° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), Kansas South 1502.

Central meridian is -98.500°.

Grid Convergence at Surface is -1.420°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 5145.00ft., the Bottom Hole Displacement is 967.65ft., in the Direction of 34.090° (Grid).

Summary of Changes

Lease Name and Number: RIVER BEND 1

API/Permit #: 15-055-22455-01-00

Doc ID: 1505529

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	08/10/2017	02/26/2020
Production Interval #2	4970	
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1362817	../..kcc/detail/operatorEditDetail.cfm?docID=1505529

Summary of Attachments

Lease Name and Number: RIVER BEND 1

API: 15-055-22455-01-00

Doc ID: 1505529

Correction Number: 1

Attachment Name

directional survey