KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1108950

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32116
Name: R.T. Enterprises of Kansas, Inc.
Address 1: PO BOX 339
Address 2:
City: LOUISBURG State: KS Zip: 66053 + 0339
Contact Person: Lance Town
Phone: (913) 710-5400
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] 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 ENHR
- [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

1/4/2013	1/8/2013	1/10/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-045-21840-00-00
Spot Description:
NW - NW - NE - SE Sec. 11 Twp. 15 S. R. 20 [x] East [ ] West
2440 Feet from [ ] North / [x] South Line of Section
1160 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [ ] NE
- [ ] NW
- [x] SE
- [ ] SW

County: Douglas
Lease Name: Pearson Well #: 21
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 1086 Kelly Bushing: 0
Total Depth: 980 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 110 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 110 w/ 67 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 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

- [ ] **Letter of Confidentiality Received**
  Date:
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 01/23/2013

Side Two

[redacted]

1108950

Operator Name: R.T. Enterprises of Kansas, Inc. Lease Name: Pearson Well #: 21

Sec. 11 Twp. 15 S. R. 20 ☑ East ☐ West County: Douglas

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

GammaRay/Neutron/CCL

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

Name	Top	Datum
GammaRay		

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	7	10	110	Portland	67	50/50 POZ
Completion	5.6250	2.8750	8	962	Portland	131	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	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
3	892.0-912.0	2" DML RTG	20

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Douglas County, KS
Well: Pearson 21
Lease Owner: R.T. Enterprises

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
1/4/2013

WELL LOG

15-045-21840-00-00

Thickness of Strata	Formation	Total Depth
0-4	Soil-Clay	4
81	Sand	85
132	Shale	217
6	Lime	223
7	Sandy Shale	230
13	Lime	243
7	Shale	250
8	Lime	258
4	Shale	262
19	Shale	281
12	Shale	293
23	Sand	316
18	Lime	334
20	Sand	354
54	Shale	408
22	Lime	430
12	Shale	442
5	Shale	447
7	Lime	454
23	Shale	477
17	Lime	494
5	Shale	499
1	Lime	500
14	Shale	514
22	Lime	536
9	Shale	545
23	Lime	568
4	Shale	572
4	Lime	576
3	Shale	579
5	Lime	584
117	Shale	701
3	Sandy Shale	704
10	Sand	714
9	Sandy Shale	723
33	Shale	756
7	Lime	763
19	Shale	782
1	Lime	783
13	Shale	796

Douglas County, KS
Well: Pearson 21
Lease Owner: R.T. Enterprises

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
1/4/2013

8	Shale	804
3	Lime	807
17	Shale	824
2	Lime	826
1	Shale	827
1	Lime	828
25	Shale	853
1	Lime	854
5	Shale	859
8	Sandy Shale	867
3	Sand	870
4	Sand	874
20	Sand	894
18	Sand	912
1	Sandy Lime	913
67	Shale	980-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. 21

Farm Pearson

KS (State) Douglas (County)

11 (Section) 15 (Township) 20 (Range)

For K.T. Enterprises (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Pearson Farm: Douglas County

KS State; Well No. 24

Elevation 1086

Commenced Spuding Jan 4 20 13

Finished Drilling Jan 8 20 13

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

11 15 20

(Section) (Township) (Range)

Distance from S line, 2440 ft.

Distance from E line, 1160 ft.

15 KS

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
6¼" Set	110	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
932.	6	Baffle			
962.	4	float			
				2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-4	soil - clay	4	
81	sand	85	57' - water
132	shale	217	
6	Lime	223	
7	sandy shale	230	
13	Lime	243	
7	shale - slate	250	
8	Lime	258	
4	shale	262	
19	shale & shells	281	
12	shale & redbed	293	
23	sand & sandy shale	316	no Oil
18	Lime & shells	334	
20	sand & sandy shale	354	no Oil
54	shale	408	
22	Lime	430	
12	shale	442	
5	shale & lime	447	
7	Lime	454	
23	shale	477	
17	Lime	494	
5	shale	499	
1	Lime	500	
14	shale	514	
22	Lime	536	
9	shale	545	
23	Lime	568	

563

Thickness of Strata	Formation	Total Depth	Remarks
4	Shale - slate	572	
4	Lime	576	
3	Shale	579	
5	Lime	584	Hertha
117	Shale	701	
3	Sandy shale	704	
10	Sand	714	no Oil
9	Sandy Shale	723	
33	Shale	756	
7	Lime	763	
19	Shale	782	
1	Lime	783	
13	Shale & lime	796	
8	Shale	804	
3	Lime	807	
17	Shale	824	
2	Lime	826	
1	Shale	827	
1	Lime	828	
25	Shale	853	
1	Lime	854	
5	Shale	859	
8	Sandy Shale	867	
3	Sand	870	broken - 10% Oil
4	Sand	874	broken - 50% Oil
20	Sand	894	broken 25% Oil
18	Sand	912	Solid - good Saturation

912

Thickness of Strata	Formation	Total Depth	Remarks
1	Sandy lime	913	no Oil
67	Shale	980	TD

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 39068
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/8/13		Pearson # 21	SE 11	15	20	DG

CUSTOMER: Dicenroc
MAILING ADDRESS: 120 Shore line Dr
CITY: Louisburg | STATE: KS | ZIP CODE: 66053

TRUCK #	DRIVER	TRUCK #	DRIVER
506	Fre Mad	Safety	MB
495	Hay Bec	HB	
369	Dar Mas	DM	
510	Set Tuc	ST	

JOB TYPE: 0 | HOLE SIZE: | HOLE DEPTH: 980' | CASING SIZE & WEIGHT: 2 7/8 EUE
CASING DEPTH: 962' | DRILL PIPE: Baffle in | TUBING @ 932 | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT In CASING: 2 7/8 Plug + 30'
DISPLACEMENT: 5.42 BBL | DISPLACEMENT PSI: | MIX PSI: | RATE: 5 BPM

REMARKS: Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 131 sks 50/50 Por Mix Cement 2% Gel. Cement to surface. Flush pump + lines clean. Displace 2½" Rubber plug to baffle in casing. Pressure to 800# PSI. Release pressure to set Float Valve. Shut in Casing.

TOS Drilling - Wesley — Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495		1030.00
5406	20 mi	MILEAGE	495		50.00
5402	962'	Casing Footage			N/C
5407	½ Minimum	Ton Miles	510		175.00
5502C	1½ hr	80 BBL Vac Truck	369		135.00
1124	131 sks	50/50 Por Mix Cement			1434.45
1118B	320#	Premium Gel			67.20
4402	1	2½" Rubber plug			28.00
			7.3%	SALES TAX	111.66
Ravin 3737				ESTIMATED TOTAL	3061.31

AUTHORIZTION Wesley Dollard 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

255741