1108525

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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 #:

1/2/2013	1/4/2013	1/17/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-045-21841-00-00
Spot Description:
NE - NE - NW - SE Sec. 11 Twp. 15 S. R. 20 [x] East [ ] West
2440 Feet from [ ] North / [x] South Line of Section
1480 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 #: 20
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 1070 Kelly Bushing: 0
Total Depth: 980 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 85 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: 85 w/ 40 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

1108525

Operator Name: R.T. Enterprises of Kansas, Inc. Lease Name: Pearson Well #: 20

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	85	Portland	40	50/50 POZ
Completion	5.6250	2.8750	8	960	Portland	127	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	880.0-890.0	2" DML RTG	10

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:	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)* ☐ Other *(Specify)* _____	_____ _____

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

Douglas County, KS
Well: Pearson 20
Lease Owner: R.T. Enterprises

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

Commenced Spudding:
1/2/2013

WELL LOG

15-045-21841-00-00

Thickness of Strata	Formation	Total Depth
0-4	Soil-Clay	4
66	Sand	70
137	Shale	207
5	Lime	212
7	Sandy Shale	219
13	Lime	232
7	Shale	239
9	Lime	248
3	Shale	251
21	Shale	272
8	Shale	280
25	Sand	305
19	Lime	324
14	Sand	338
60	Shale	398
22	Lime	420
13	Shale	433
4	Shale	437
6	Lime	443
24	Shale	467
19	Lime	486
4	Shale	490
1	Lime	491
14	Shale	505
23	Lime	528
8	Shale	536
23	Lime	559
4	Shale	563
4	Lime	567
4	Shale	571
6	Lime	577
121	Shale	598
11	Sand	709
42	Shale	751
7	Lime	758
6	Shale	764
3	Lime	767
10	Shale	777
4	Lime	781
18	Shale	799

Douglas County, KS
Well: Pearson 20
Lease Owner: R.T. Enterprises

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

Commenced Spudding:
1/2/2013

3	Lime	802
19	Shale	821
4	Lime	825
25	Shale	850
2	Lime	852
16	Shale	868
13	Sandy Shale	881
3	Sand	884
4	Sand	888
2	Sand	890
90	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. 20

Farm Pearson

KS (State) Douglas (County)

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

For [illegible] (Well Owner)

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

Pearson Farm: Douglas County

KS State; Well No. 20

Elevation

Commenced Spuding Jan 2 20 13

Finished Drilling Jan 4 20 13

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Colt Stone

Tool Dresser's Name

Contractor's Name JOS

11 15 20

(Section) (Township) (Range)

Distance from line, ft.

Distance from line, ft.

15 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 6¾" Set	85'	6¾" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
926.	4	Baffle			
959.	4	Float		2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0 - 4	soil - clay	4	
66	Sand	70	40' - water
137	shale	207	
5	Lime	212	
7	sandy shale	219	
13	Lime	232	
7	shale - slate	239	
9	Lime	248	
3	shale	251	
21	shale & shells	272	
8	shale & redbed	280	
25	Sand & sandy shale	305	no Oil
19	Lime & shells	324	
14	Sand & sandy shale	338	no Oil
60	shale	398	
22	Lime	420	
13	shale	433	
4	shale & lime	437	
6	Lime	443	
24	shale	467	
19	Lime	486	
4	Shale	490	
1	Lime	491	
14	shale	505	
23	Lime	528	
8	shale	536	
23	Lime	559	

559

Thickness of Strata	Formation	Total Depth	Remarks
4	Shale - slate	563	
4	Lime	567	
4	Shale	571	
6	Lime	577	Heitha
121	Shale	698	
11	Sand	709	no Oil
42	Shale	751	
7	Lime	758	
6	Shale	764	
3	Lime	767	
10	Shale	777	
4	Lime	781	
18	Shale & lime	799	
3	Lime	802	
19	Shale	821	
4	Lime	825	
25	Shale	850	
2	Lime	852	
16	Shale	868	
13	Sandy shale	881	
3	Sand & sandy shale	884	broken 50% Oil
4	Sand	888	solid Oil
2	Sand & sandy shale	890	broken 50% Oil
90	shale	980	TD

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39079
LOCATION Ottawa
FOREMAN Alan Mader

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-24-13		Pearson 20	SE 11	15	20	JO

CUSTOMER: Oxy USA
MAILING ADDRESS: 120 Shoreline Dr
CITY: Louisburg | STATE: KS | ZIP CODE: 66053

TRUCK #	DRIVER	TRUCK #	DRIVER
516	AlaMad	Safety	Meet
368	AlMad	AKM	
370	KeiCar	KC	
503	Dan Det	DD	

JOB TYPE longstring HOLE SIZE 5 5/8 HOLE DEPTH 980 CASING SIZE & WEIGHT 2 7/8
CASING DEPTH 960 DRILL PIPE ____ TUBING ____ OTHER 926 baffle
SLURRY WEIGHT ____ SLURRY VOL ____ WATER gal/sk ____ CEMENT LEFT in CASING ____
DISPLACEMENT 5.4 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 100# gel followed by 127 sk 50/50 cement plus 2% gel. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Set float. Closed valve.

TOS, Wes

Alan Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368		1030.00
5406	20	MILEAGE	368		80.00
5402	960'	casing footage	368		—
5407	1/2 min	ton miles	503		175.00
5502C	1 1/2	80 vac	370		135.00
1124	127	50/50 cement			1390.65
1118B	313#	gel			65.73
4402	1	2 1/2 plug			28.00
				SALES TAX	108.36
				ESTIMATED TOTAL	3012.74

Ravin 3737

AUTHORIZTION Stephen Scott 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 fo

255735

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31 37.61983928 -95.53364413 NAD83; K1026; 29_NOV_12 OIL AB 10DP2P VENT; Elev=1009.7Ft Icon=8284
32 37.61980508 -95.53465574 NAD83; K1027; 29_NOV_12 INJ AB 2C; Elev=990.0Ft Icon=8284
33 37.61898466 -95.53466018 NAD83; K1028; 29_NOV_12 OIL AB 9DP2P; Elev=973.4Ft Icon=8284
34 37.61825007 -95.53466018 NAD83; K1029; 29_NOV_12 OIL AB 10S4P; Elev=1008.9Ft Icon=8284
35 37.62065132 -95.53350021 NAD83; K1030; 29_NOV_12 OIL AB 8DP2P; Elev=985.2Ft Icon=8284
36 37.62129312 -95.53467787 NAD83; K1031; 29_NOV_12 INJ AB 4P; Elev=983.6Ft Icon=8284
37 37.61708465 -95.53519377 NAD83; K1032; 17_JAN_13 OIL AB 2P; Elev=1009.7Ft Icon=8284
38 37.61811328 -95.53068196 NAD83; K1033; 17_JAN_13 OIL_AB 9DP3P; Elev=992.3Ft Icon=8284
39 37.62262249 -95.52758963 NAD83; K1034; 17_JAN_13 OIL AB 10DP; Elev=1033.3Ft Icon=8284
40 37.63076073 -95.53395166 NAD83; K1037; 17_JAN_13 INJ_AB 4.5P; Elev=1020.7Ft Icon=8284
41 37.62503874 -95.53551002 NAD83; K1038; 18_JAN_13 PWL PLUG; Elev=1030.2Ft Icon=8284
42 37.62543898 -95.53578981 NAD83; K1039; 18_JAN_13 OIL AB 2.5P; Elev=1015.2Ft Icon=8284
43 37.62615019 -95.53782200 NAD83; K1040; 18_JAN_13 GAS AB 8S4C; Elev=984.4Ft Icon=8284
44 37.62512382 -95.53783198 NAD83; K1041; 18_JAN_13 GAS AB 8S4C; Elev=1005.7Ft Icon=8284
45 37.62658127 -95.53940954 NAD83; K1042; 18_JAN_13 GAS AB 7S4CROTOFF; Elev=990.7Ft Icon=8284
46 37.62681403 -95.54041453 NAD83; K1043; 18_JAN_13 GAS AB 7S4CROTOFF; Elev=996.3Ft Icon=8284
47 37.62745952 -95.54146453 NAD83; K1044; 18_JAN_13 GAS AB 7S4C; Elev=986.0Ft Icon=8284
48 37.62731703 -95.54253590 NAD83; K1045; 18_JAN_13 GAS AB 7S4P; Elev=956.0Ft Icon=8284
49 37.62725576 -95.54356788 NAD83; K1046; 18_JAN_13 GAS AB 7S4C; Elev=981.3Ft Icon=8284
50 37.62813971 -95.54356034 NAD83; K1047; 18_JAN_13 GAS AB 7S4CROTOFF; Elev=957.6Ft Icon=8284
51 37.62903473 -95.54362052 NAD83; K1048; 18_JAN_13 DISP AB 2.5C; Elev=974.2Ft Icon=8284
52 37.62904479 -95.54238268 NAD83; K1049; 18_JAN_13 GAS AB 4C2PRDPJ; Elev=978.9Ft Icon=8284
53 37.62907756 -95.54135288 NAD83; K1050; 18_JAN_13 GAS AB 4C; Elev=982.1Ft Icon=8284
54 37.62857038 -95.53577322 NAD83; K1051; 18_JAN_13 GAS AB 4C2PRDPJ; Elev=988.4Ft Icon=8284
55 37.63096467 -95.53984665 NAD83; K1052; 18_JAN_13 GAS AB 7S4CROTOFF; Elev=999.4Ft Icon=8284
56 37.63103549 -95.54237464 NAD83; K1053; 18_JAN_13 GAS AB 7S4C; Elev=982.1Ft Icon=8284
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59 37.62631833 -95.52902176 NAD83; K1035; 17_JAN_13 OIL_AB 4.5P; Elev=1027.0Ft Icon=8284
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