



KANSAS CORPORATION COMMISSION 1040310  
OIL & GAS CONSERVATION DIVISION

Form ACO-4  
Form must be typed  
March 2009

APPLICATION FOR COMMINGLING OF *Commingling ID #* \_\_\_\_\_  
PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # \_\_\_\_\_ API No. 15 - \_\_\_\_\_  
Name: \_\_\_\_\_ Spot Description: \_\_\_\_\_  
Address 1: \_\_\_\_\_ - - - - - Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
Address 2: \_\_\_\_\_ Feet from  North /  South Line of Section  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_ Feet from  East /  West Line of Section  
Contact Person: \_\_\_\_\_ County: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

**For Commingling of PRODUCTION ONLY, include the following:**

- 5. Wireline log of subject well. Previously Filed with ACO-1:  Yes  No
- 6. Complete Form ACO-1 (*Well Completion form*) for the subject well.

**For Commingling of FLUIDS ONLY, include the following:**

- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**AFFIDAVIT:** I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

Submitted Electronically

**KCC Office Use Only**  
 Denied  Approved  
15-Day Periods Ends: \_\_\_\_\_  
Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

*Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.*



ENGINEERING, INC.  
- Certified Petroleum Engineers -

**COPY**

July 7, 2010

Kansas Corporation Commission  
130 S. Market, Room 2078  
Wichita, KS 67202

RE: Well Completion (form ACO-1)  
API: 15-167-23628  
Brandenburg #14  
Sec. 20-T14S-R14W, Russell Co., KS

Dear Sir:

Enclosed please find the original and two copies of the Well Completion Form ACO-1 and one copy of the Geologist Report, Microlog, Sonic Log, Comp Dens/Neutron PE Log, and Dual Induction Log for the above-referenced well.

We are herewith requesting that all information on pg. 2 be kept confidential for a period of twelve months. No cores/DST's were compiled during this completion.

Please also note that I have filed for a commingling permit through SOLAR today, as well.

If you have questions or require additional information, please contact either Hal Gill (Kansas Area Engineer) or myself at 940/691-9157 or [stephsnt@wf.net](mailto:stephsnt@wf.net).

Sincerely,

A handwritten signature in black ink that reads 'Steph Smith'.

Stephanie Black-Smith

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 # 33699  
Name: T-N-T Engineering, Inc.  
Address 1: 3711 Maplewood, Ste. 201  
Address 2: \_\_\_\_\_  
City: Wichita Falls State: TX Zip: 76308 + \_\_\_\_\_  
Contact Person: Stephanie Black-Smith  
Phone: ( 940 ) 691-9157  
CONTRACTOR: License # 33493  
Name: American Eagle Drilling, LLC  
Wellsite Geologist: Christian Paramo  
Purchaser: Coffeyville

Designate Type of Completion:

- New Well     Re-Entry     Workover
- 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 #: \_\_\_\_\_

<u>05/18/2010</u>	<u>05/25/2010</u>	<u>06/22/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 167-23628  
Spot Description: \_\_\_\_\_  
SE SW NW NW Sec. 20 Twp. 14 S. R. 14  East  West  
1,040 Feet from  North /  South Line of Section  
480 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Brandenburg Well #: 14  
Field Name: Gorham  
Producing Formation: Quartzite, LKC, Topeka  
Elevation: Ground: 1855 Kelly Bushing: 1862  
Total Depth: 3280 Plug Back Total Depth: 3230  
Amount of Surface Pipe Set and Cemented at: 853 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 #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 207B, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]  
Title: Kansas Area Engineer Date: 7-7-10

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: T-N-T Engineering, Inc. Lease Name: Brandenburg Well #: 14  
 Sec. 20 Twp. 14 S. R. 14  East  West County: Russell

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Microlog, Sonic Log, Comp Dens/Neutron PE Log, Dual Induction Log (all logs 05/24/2010)	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>2685</td> <td>-823</td> </tr> <tr> <td>LeCompton</td> <td>2780</td> <td>-918</td> </tr> <tr> <td>Heebner Shale</td> <td>2910</td> <td>-1048</td> </tr> <tr> <td>Toronto</td> <td>2929</td> <td>-1067</td> </tr> <tr> <td>LKC</td> <td>2966</td> <td>-1104</td> </tr> <tr> <td>Quartzite</td> <td>3162</td> <td>-1300</td> </tr> </table>	Name	Top	Datum	Topeka	2685	-823	LeCompton	2780	-918	Heebner Shale	2910	-1048	Toronto	2929	-1067	LKC	2966	-1104	Quartzite	3162	-1300
Name	Top	Datum																				
Topeka	2685	-823																				
LeCompton	2780	-918																				
Heebner Shale	2910	-1048																				
Toronto	2929	-1067																				
LKC	2966	-1104																				
Quartzite	3162	-1300																				

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. / FL	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	23#	854	Common	320	3% cc 2% gel
Production	7 7/8	5 1/2	14#	3280	AA-2	175	10% salt, 3% CFR, 25% detramer & 5% FLA-322, 75% gas block, 148 sz cl

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				see attached

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
	see attached		

TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>3192</u>	Packer At:	Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>07/02/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbls. <u>4</u>	Gas Mcf <u>0</u>	Water Bbls. <u>90</u>	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Quartzite Sd (Intervals 3164-3170)</u> <u>Quartzite (Intervals 3196-3202)</u>
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ADDITIONAL CEMENTING/SOZ RECORD

<u>PURPOSE</u>	<u>DEPTH TOP/BTM</u>	<u>TYPE OF CEMENT</u>	<u># SX</u>	<u>TYPE &amp; % ADDITIVES</u>	<u>DEPTH</u>
N/A					
<u>SHOTS PER FOOT</u>	<u>PERF RECORD - BRIDGE PLUGS SET/TYPE</u>		<u>ACID, FRAC, CMT SOZ RECORD</u>		
1 spf - 3 holes	Quartzite: 3215'-3218'	}	Spot 2 bbl acid. Treat perfs w/1200 gal 7.5% MCA acid w/15 ball sealers throughout. Displace w/23 bbl KCL H2O.	3196'-3218'	
1 spf - 6 holes	Quartzite: 3196'-3202'				
1 spf - 6 holes	Quartzite Sand: 3164'-3170'				
1 spf - 6 holes	LKC G: 3062'-3068'	}	Treat perfs w/3500 gal 15% NE acid w/34 ball sealers throughout.	3003'-3068'	
1 spf - 7 holes	LKC D: 3013'-3020'				
1 spf - 4 holes	LKC C: 3003'-3007'				
2 spf - 8 holes	Toronto: 2930'-2934'		Treat perfs w/1000 15% NE acid.	2930'-2934'	
1 spf - 4 holes	Plattsmouth: 2870'-2874'	}	Treat perfs w/2000 gal 15% NE acid w/14 ball sealers throughout.	2859'-2874'	
1 spf - 3 holes	Plattsmouth: 2859'-2862'				
2 spf - 6 holes	LeCompton: 2788'-2791'		Treat perfs w/750 gal 15% NE acid.	2788'-2791'	

CIBP: 3212' w/18' cement cap (PBTD: 3230')

Customer: TNT Engineering  
 Lease: Brandenburg  
 Field Order #: 17181804A  
 Station: PRATT KS  
 Type Job: 5/2 L.S.  
 Lease No.:  
 Well #: 14  
 Date: 5-25-10  
 Casing: 5 1/2"  
 Depth: 3280  
 County: Russell  
 State: KS  
 Formation: RTD 3280  
 Legal Description: 20-14-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2"			20 BBL	KCL				
Depth: 3280	Depth:	From:	To: 12 BBL	Pre Pad: mud Flush	Max:		5 Min.	
Volume: 79 BBL	Volume:	From:	To: 175 SK	Pad: AA2 @ 15.3	Min: 3 #/gal		10 Min.	
Max Press: 1500#	Max Press:	From:	To: 50 SK	Frac: 60/40 Poz	Avg: 14 # R.I.W. + M.H.		15 Min.	
Well Connection: P.C.	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure:	
Plug Depth: 3240	Packer Depth:	From:	To:	Flush: Disp 2% KCL	Gas Volume:		Total Load:	

Customer Representative: Rick Popp  
 Station Manager: scotty  
 Treater: Allen F. Werth

Service Units	19959	20920	1983#	19862					
Driver Names	werth	Joe	melson	Edmundo					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30	5-24-10				on LOC. Discuss Safety, Setup Plans So. Rig Laying down D.P.
10:20					out of Hole Lay down Kelly Rig up to Run 5 1/2" csg 14# S.T. 39.73' w/ Flat Shoe + L.D. Baffle cont. 3-5-7-9-11-13-15-17-19-21
12:00 AM	5-25-10				Basket #6 + #12 (start casing Tag Bottom @ 3280' Pickup 2' CIR w/ Rig & Rotate Pipe
2:00			20	5	Pump 20 BBL 2% KCL
3:00	200#		12	5	Pump 12 BBLs mud Flush
			3	5	Pump 3 BBLs H2O
	200#		42 1/2		Pump 42 1/2 1/2 BBL AA2 @ 15.3 # wash out pump & line
3:17				6	Drop L.D. Plug + start Disp. Caught Lift PST w/ 50 BBLs out Plug down
3:30	400#				Plug down
4:30	1500#		79		Plug down Plus Rat Hole w/ sucks 60/40 Poz wash up equip. & Rack up. Job complete
					+ thanks Allen Joe Edmundo

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3769

(Russell)

Date	5-20-2010	Sec.	20	Twp.	14	Range	14	County	Russell	State	Ks	On Location		Finish	2:45 AM	
Lease	Brandenburg			Well No.	14			Location	Russell, Ks, S to Plymouth Rd, W to							
Contractor	American Eagle			#2	Owner	182nd, 1/4 S, E/S										
Type Job	Surface			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.												
Hole Size	12 1/4"			T.D.	854'			Charge To	TNT engineering							
Csg.	8 5/8" 23# New			Depth	853'			Street								
Tbg. Size				Depth				City	State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.	33.54			Shoe Joint	33.54			CEMENT								
Meas Line				Displace	52.23 bbls											
EQUIPMENT								Amount Ordered	320 sz Common 3% CC 2% bel							
Pumptrk	1	No.		Cementor	Brandon			4 1/2 OT	Common	320						
Bulktrk	10	No.		Driver	Doug			4 1/2 OT	Poz. Mix							
Bulktrk	pick up	No.		Driver	Rick			4 1/2	Gel.	7						
JOB SERVICES & REMARKS								Calcium	<del>11</del>							
Remarks:	Cement did Circulate								Hulls							
									Salt							
									Flowseal							
									Handling	338						
									Mileage							
FLOAT EQUIPMENT								Guide Shoe								
									Centralizer							
									Baskets							
									AFU Inserts	1- 8 5/8" Baffle plate 1- 8 5/8" Rubber plug						
									Pumptrk Charge	Long Surface						
									Mileage	5						
								Tax								
								Discount								
								Total Charge								
X Signature	Taddy Miller															



**SUPERIOR**  
Hays,  
Kansas

# DUAL INDUCTION LOG

<b>T.N.T. ENGINEERING, INC.</b> BRANDENBURG #14 GORHAM RUSSELL KANSAS	Company <b>T.N.T. ENGINEERING, INC.</b> Well <b>BRANDENBURG #14</b> Field <b>GORHAM</b> County <b>RUSSELL</b> State <b>KANSAS</b>	
	Location: <b>API #: 15-167-23628-0000</b> <b>1040' FNL &amp; 480' FWL</b> <b>SEC 20 TWP 14S RGE 14W</b>	Other Services <b>CDL/CNL/PE          MEL/SONIC</b>
	Permanent Datum <b>GROUND LEVEL</b> Elevation <b>1855</b> Log Measured From <b>KELLY BUSHING 7' A.G.L.</b> Drilling Measured From <b>KELLY BUSHING</b>	Elevation <b>K.B. 1862          D.F. 1860          G.L. 1855</b>

Date	5/24/10		
Run Number	ONE		
Depth Driller	3280		
Depth Logger	3282		
Bottom Logged Interval	3280		
Top Log Interval	00		
Casing Driller	8 5/8"@854'		
Casing Logger	852		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,600 PPM	
Density / Viscosity	9.4/51		
pH / Fluid Loss	10.5/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@80F		
Rmf @ Meas. Temp	.450@80F		
Rmc @ Meas. Temp	.720@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.436@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	110F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHRISTIAN PARAMO	RICK POPP	

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SUPERIOR  
Hays,  
Kansas

# COMPENSATED DENSITY / NEUTRON PE LOG

T.N.T. ENGINEERING, INC.  
BRANDENBURG #14  
GORHAM  
RUSSELL  
KANSAS

Company T.N.T. ENGINEERING, INC.  
Well BRANDENBURG #14  
Field GORHAM  
County RUSSELL State KANSAS

Location: API #: 15-167-23628-0000  
1040' FNL & 480' FWL  
SEC 20 TWP 14S RGE 14W

Other Services  
DIL/MEL  
SONIC

Permanent Datum GROUND LEVEL Elevation 1855  
Log Measured From KELLY BUSHING 7' A.G.L.  
Drilling Measured From KELLY BUSHING

Elevation  
K.B. 1862  
D.F. 1860  
G.L. 1855

Date	5/24/10		
Run Number	ONE		
Depth Driller	3280		
Depth Logger	3282		
Bottom Logged Interval	3258		
Top Log Interval	2300		
Casing Driller	8 5/8"@854'		
Casing Logger	852		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,600 PPM	
Density / Viscosity	9.4/51		
pH / Fluid Loss	10.5/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@80F		
Rmf @ Meas. Temp	.450@80F		
Rmc @ Meas. Temp	.720@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.436@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	110F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHRISTIAN PARAMO	RICK POPP	

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SUPERIOR  
Hays,  
Kansas

MICRO  
LOG

Company  
Well  
Field  
County  
State

Company T.N.T. ENGINEERING, INC.  
Well BRANDENBURG #14  
Field GORHAM  
County RUSSELL State KANSAS

Location: API #: 15-167-23628-0000  
1040' FNL & 480' FWL  
SEC 20 TWP 14S RGE 14W

Other Services  
CDL/CNL/PE  
DIL/SONIC

Permanent Datum GROUND LEVEL Elevation 1855  
Log Measured From KELLY BUSHING 7' A.G.L.  
Drilling Measured From KELLY BUSHING

Elevation  
K.B. 1862  
D.F. 1860  
G.L. 1855

Date	5/24/10		
Run Number	TWO		
Depth Driller	3280		
Depth Logger	3282		
Bottom Logged Interval	3259		
Top Log Interval	2300		
Casing Driller	8 5/8"@854'		
Casing Logger	852		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,600 PPM	
Density / Viscosity	9.4/51		
pH / Fluid Loss	10.5/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@80F		
Rmf @ Meas. Temp	.450@80F		
Rmc @ Meas. Temp	.720@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.436@110F		
Time Circulation Stopped	3.5 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	110F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHRISTIAN PARAMO	RICK POPP	

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SUPERIOR  
Hays,  
Kansas

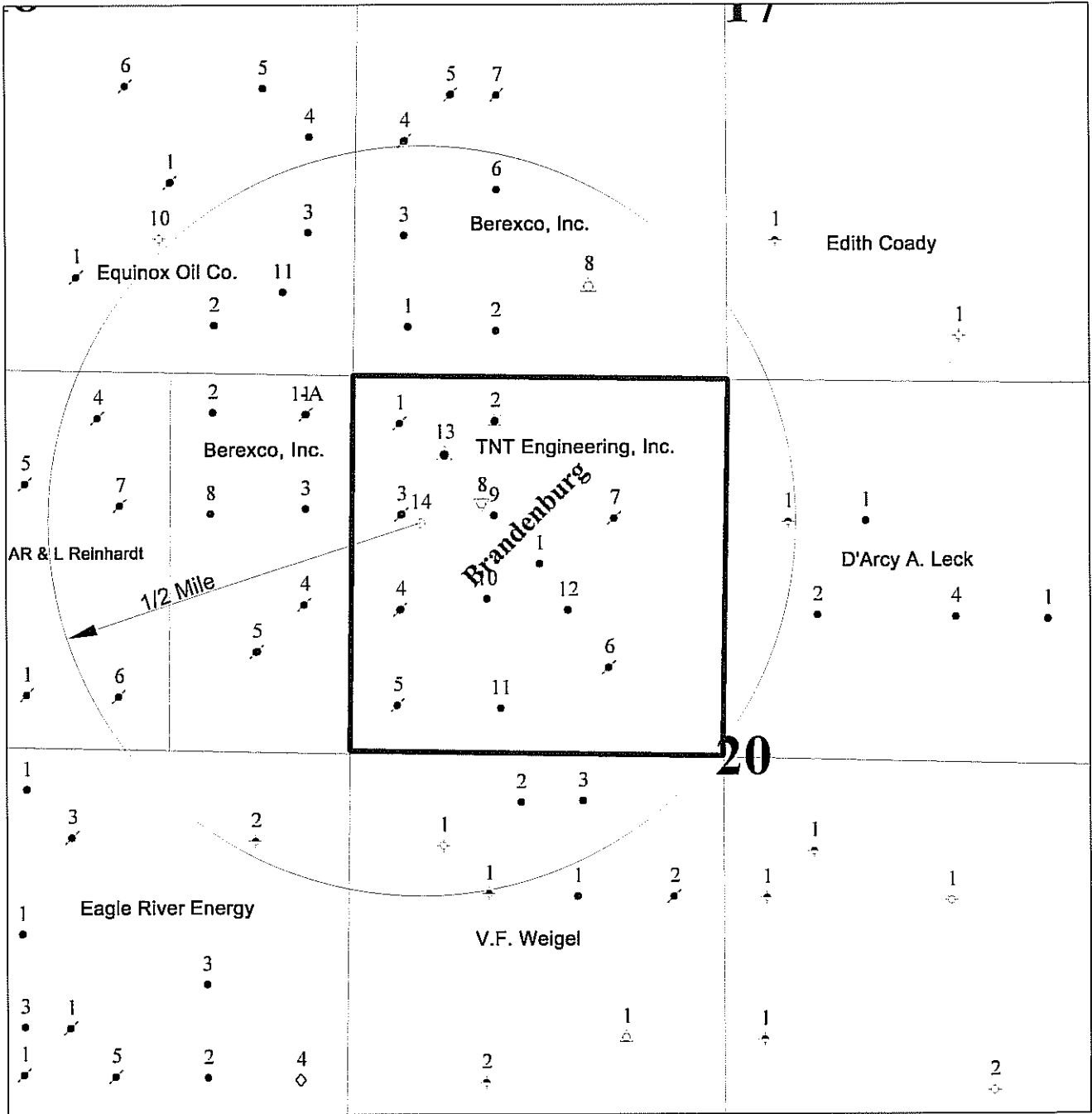
SONIC  
LOG

T.N.T. ENGINEERING, INC. BRANDENBURG #14 GORHAM RUSSELL KANSAS	Company T.N.T. ENGINEERING, INC. Well BRANDENBURG #14 Field GORHAM County RUSSELL State KANSAS	
	Location: API #: 15-167-23628-0000 1040' FNL & 480' FWL SEC 20 TWP 14S RGE 14W	Other Services CDL/CNL/PE DIL/MEL
	Permanent Datum GROUND LEVEL Elevation 1855 Log Measured From KELLY BUSHING 7' A.G.L. Drilling Measured From KELLY BUSHING	Elevation K.B. 1862 D.F. 1860 G.L. 1855
	Company Well Field County State	

Date	5/24/10	
Run Number	TWO	
Depth Driller	3280	
Depth Logger	3282	
Bottom Logged Interval	3269	
Top Log Interval	800	
Casing Driller	8 5/8"@854'	
Casing Logger	852	
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,600 PPM
Density / Viscosity	9.4/51	
pH / Fluid Loss	10.5/10.4	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.600@80F	
Rmf @ Meas. Temp	.450@80F	
Rmc @ Meas. Temp	.720@80F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.436@110F	
Time Circulation Stopped	3.5 HOURS	
Time Logger on Bottom	1:00 P.M.	
Maximum Recorded Temperature	110F	
Equipment Number	0836	
Location	HAYS, KANSAS	
Recorded By	JEFF LUEBBERS	
Witnessed By	CHRISTIAN PARAMO	RICK POPP

^^^ Fold Here <<<





**Well Spots -Russell Brandenburg**

Straight hole well

Well Status

- |         |             |           |
|---------|-------------|-----------|
| ● ZOL   | ⬆ DSA-DG    | ● SVD-O   |
| ○ CL    | ○ LOC       | △ SVD-PBA |
| ○ CL-WO | ⬆ CL-PBA    | △ WFLU    |
| ⊕ DSA   | ⬆ OTHER-PBA | ▽ VSW     |
| ⊕ DSA-G | ⬆ CRU-PBA   |           |
| ⬆ DSA-O | ⬆ SERVICE   |           |

TNT Leases

TNT Acreage

▭ TNT Acreage

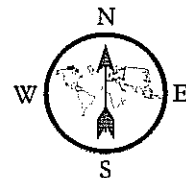
# T-N-T ENGINEERING, INC.

## Brandenburg #14

Sec 20, T14S, R14W  
 1040 FNL 480 FWL SW NW NW  
 LAT 38.824442 LONG -98.908371  
 X=180159 Y=1741199 NAD27 Kansas North  
 Russell County, KS

Date: 1 July, 2010

Geologist: Christian Paramo



**Affidavit of Notice Served**

Re: Application for: T-N-T Engineering, Inc.  
Well Name: Brandenburg #14 Legal Location: SE SW NW NW Sec20-T14S-R14W

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 7<sup>th</sup> of July, 2010, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name	Address (Attach additional sheets if necessary)
Equinox Oil Company	PO Box 1627, Henderson, TX 75653
Berexco, Inc.	100 N. Broadway, Ste. 970, Wichita, KS 67202
AR & L Reinhardt	513 Barton St., Russell, KS 67665
Eagle-River Energy Compnay	7060 S. Yale, Ste. 609, Tulsa, OK 74136
V.F. Weigel	PO Box 219, Gorham, KS 67640
D'Arcy A. Leck	4370 Brookside Ct., Apt #121, Edina, MN 55436
Edith Coady	18265 Plymouth Rd., Russell, KS 67665

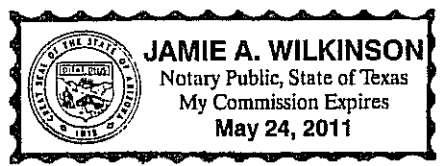
I further attest that notice of the filing of this application was published in the Lucas-Sylvan News and The Wichita Eagle, the official county publication of Russell and Sedgwick county. A copy of the affidavit of this publication is attached.

Signed this 7<sup>th</sup> day of July, 2010

Hal Gill  
Applicant of Duly Authorized Agent

Subscribed and sworn to before me this 7<sup>th</sup> day of July, 2010

Jamie A. Wilkinson  
Notary Public  
My Commission Expires: 5/24/2011



Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

**AFFIDAVIT**

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for 1 issues, that the first publication of said notice was

made as aforesaid on the 14th of

June A.D. 2010, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

*Mark Fletchall*

Subscribed and sworn to before me this

14th day of June, 2010

PENNY L. CASE
Notary Public - State of Kansas
My Appt. Expires 5/28/2018

*Penny L. Case*
Notary Public Sedgwick County, Kansas

Printer's Fee : \$118.00

**LEGAL PUBLICATION**

Published in The Wichita Eagle
June 14, 2010 (3046349)
BEFORE THE STATE
CORPORATION COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION FOR
COMMINGLING OF PRODUCTION
RE:T-N-T Engineering, Inc. Application
for Commingling of Production in the
Brandenberg #14, located in Russell County,
Kansas.
TO: All Oil & Gas Producers, Unleased
Mineral Interest Owners, Landowners, and
all
persons whomsoever concerned.
You, and each of you, are hereby notified
that T-N-T Engineering, Inc. has filed an
application for commingling of production
from the Quartzite, Lansing-Kansas City,
Toronto, Plattsburgh, and LeCompton
formations (Intervals 2788'-3218') at the
Brandenberg #14, located in the SE SW NW
NW Section 20, Township 14 South, Range 14
West (1040' from North section line and 480'
from West section line), Russell County,
Kansas, with an estimated commingled
production of 45 BOPD, 0 MCFPD, 60
BWPD.
Any persons who object to or protest this
application shall be required to file their
objections or protest with the Conservation
Division of the State Corporation
Commission of the State of Kansas within
fifteen (15) days from the date of this
publication. These protests shall be filed
pursuant to Commission regulations and
must state specific reasons why the grant of
the application may cause waste, violate
correlative rights or pollute the natural
resources of the State of Kansas.
All persons interested or concerned shall
take notice of the foregoing and shall
govern themselves accordingly.
T-N-T Engineering, Inc.
3711 Maplewood, Ste. 201
Wichita Falls, TX 76308
940/691-9157

AFFIDAVIT OF PUBLICATION  
State of Kansas, Russell County, ss:

(Name) Craig Lamerden, being first duly sworn, deposes and says: That she/he is the (Position Held) Publisher of the (Name of Publication) Lucas-Sylvan News, a newspaper printed in the State of Kansas, and published in and of general circulation in Russell County, Kansas with a general paid circulation on a yearly basis in Russell County, and that said newspaper is not a trade, religious, or fraternal publication.

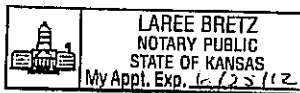
Said newspaper is published once weekly, is published at least weekly 50 times per year; has been so continuously and uninterrupted in said county and state for a period of more than one year prior to the first publication of this notice; and has been admitted to the post office of said county as second class matter.

The attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for one consecutive day, of the first publication thereof being made as aforesaid on (Date) 6-17-10, without subsequent publication.

Signature of Affiant: Craig Lamerden

Subscribed and sworn to before me on the 17<sup>th</sup> day of June, 2010.

Loree Bretz  
Notary Public  
Appointment Expires: 8/28/12



**PUBLIC NOTICE**

3711 Maplewood, Ste. 201  
Wichita Falls, TX 76308  
940/691-9157

(First published in The Lucas-Sylvan News  
Thursday, June 17, 2010) 16

BEFORE THE STATE  
CORPORATION  
COMMISSION OF THE STATE OF  
KANSAS

**NOTICE OF FILING  
APPLICATION FOR COMMINGLING  
OF PRODUCTION**

RE: T-N-T Engineering, Inc.  
Application for Commingling of  
Production in the Brandenberg  
#14, located in Russell County,  
Kansas.

TO: All Oil & Gas Producers, Unleased  
Mineral Interest Owners, Landowners, and  
all persons whom ever concerned.

You, and each of you, are hereby notified  
that T-N-T Engineering, Inc. has filed an  
application for commingling of production  
from the Quartzite, Lansing-Kansas City,  
Toronto, Plattsmouth, and LeCompton  
formations (intervals 2788-3218) at the  
Brandenberg #14 located in the SE SW NW  
NW Section 20, Township 14 South, Range  
14 West (1040' from North section line and  
480' from West section line), Russell County,  
Kansas, with an estimated commingled  
production of 45 BOPD, 0 MCFPD, 60  
BWPD.

Any persons who object to or protest this  
application shall be required to file their  
objections or protest with the Conservation  
Division of the State Corporation  
Commission of the State of Kansas within  
fifteen (15) days from the date of this  
publication. These protests shall be filed  
pursuant to Commission regulations and  
must state specific reasons why the grant  
of the application may cause waste, violate  
correlative rights or pollute the natural  
resources of the State of Kansas.

All persons interested or concerned shall  
take notice of the foregoing and shall govern  
themselves accordingly.

T-N-T Engineering, Inc.



July 22, 2010

Hal Gil  
T-N-T Engineering, Inc.  
3711 Maplewood, STE 201  
Wichita Falls, TX 76308-2101

RE: Approved Commingling CO071001  
Brandenburg 14, Sec. 20-T14S-R14W, Russell County  
API No. 15-167-23628-00-00

Dear Mr. Gil:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period. This application, which was received by the KCC on July 7, 2010 concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

Source of Supply	Estimated Current Production			Perf Depth
	BOPD	MCFPD	BWPD	
Quartzite/Quartzite Sand	5	0	60	3164-3170, 3196-3202, 3215-3218
LKD C, D & G	11	0	70	3003-3007, 3013-3020, 3062-3068
Toronto	5	0	20	2390-2934
Plattsmouth	5	0	15	2870-2874
LeCompton	3	0	10	2788-2791
Total Estimated Current Production	29	0	175	

Based upon the depth of the Quartzite/Quartzite Sand formation perforations, total oil production shall not exceed 100 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Docket Number CO071001 has been assigned to this approved application. Use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

Sincerely,

Rick Hestermann  
Production Department