



KANSAS CORPORATION COMMISSION 1097417
OIL & GAS CONSERVATION DIVISION

Form ACO-4
Form must be typed
March 2009

APPLICATION FOR COMMINGLING OF *Commingling ID #* **CO121202**
PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # 33343
Name: PostRock Midcontinent Production LLC
Address 1: Oklahoma Tower
Address 2: 210 Park Ave, Ste 2750
City: OKLAHOMA CITY State: OK Zip: 73102 +
Contact Person: CLARK EDWARDS
Phone: (620) 432-4200

API No. 15 - 15-205-26954-00-00
Spot Description: _____
SE NW Sec. 32 Twp. 27 S. R. 17 East West
1980 Feet from North / South Line of Section
1980 Feet from East / West Line of Section
County: Wilson
Lease Name: THORSELL WILLIAM R Well #: 32-1

1. Name and upper and lower limit of each production interval to be commingled:
Formation: SUMMIT (Perfs): 692-696
Formation: MULKY (Perfs): 702-706
Formation: CROWEBURG (Perfs): 780-782
Formation: RIVERTON (Perfs): 1106-1108
Formation: CATTLEMAN (Perfs): 826-832

2. Estimated amount of fluid production to be commingled from each interval:
Formation: SUMMIT BOPD: 0 MCFPD: 5.25 BWPD: 3
Formation: MULKY BOPD: 0 MCFPD: 5.25 BWPD: 3
Formation: CROWEBURG BOPD: 0 MCFPD: 5.25 BWPD: 3
Formation: RIVERTON BOPD: 0 MCFPD: 5.25 BWPD: 3
Formation: CATTLEMAN BOPD: 1 MCFPD: 0 BWPD: 6.67

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

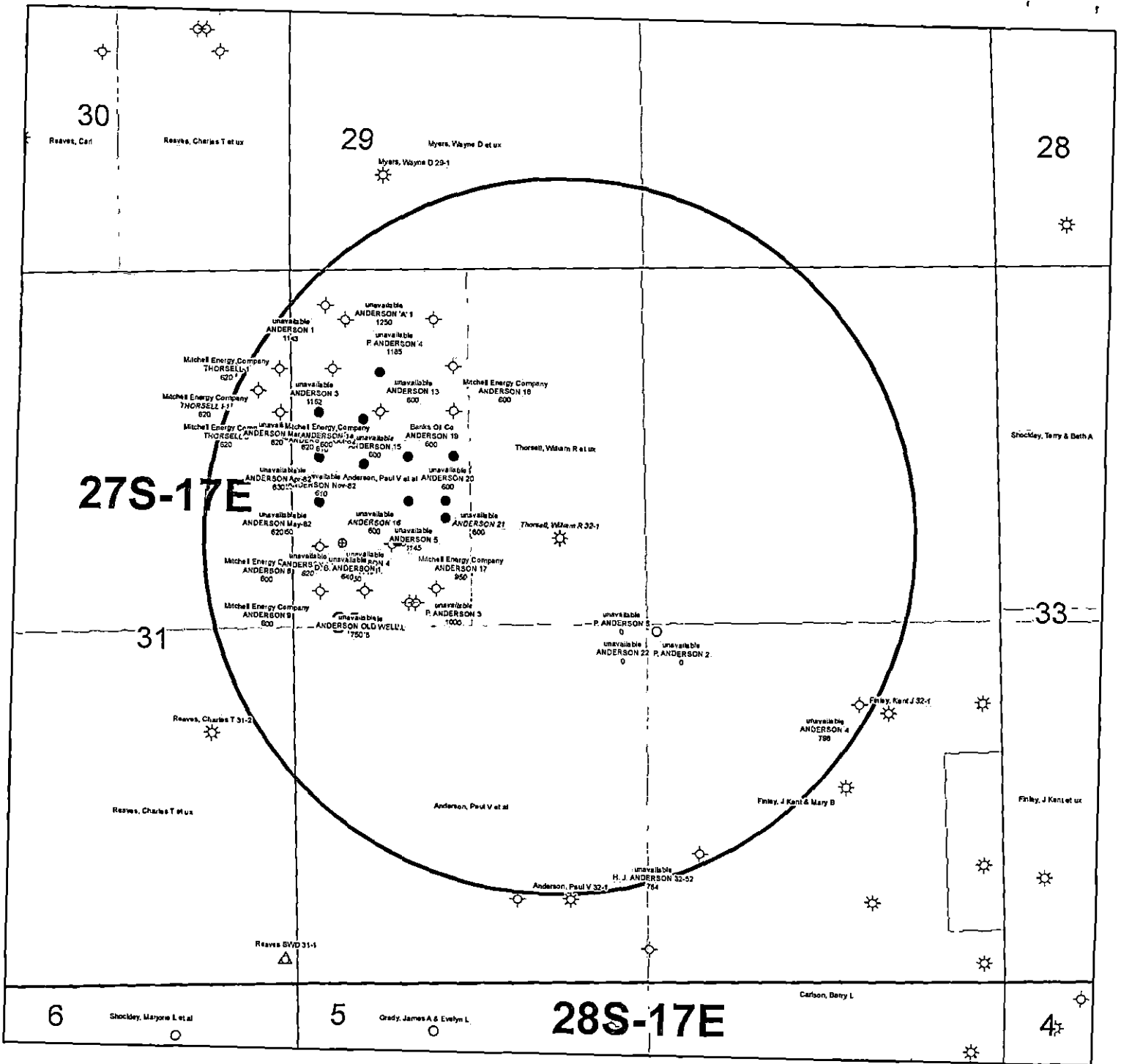
KCC Office Use Only

Denied Approved

15-Day Periods Ends: 12/12/2012

Approved By: Rick Hestermann Date: 12/12/2012

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.



KGS STATUS

- ◇ DA/PA
- ⊕ EOR
- ☼ GAS
- △ INJ/SWD
- OIL
- * OIL/GAS
- OTHER

Thorsell, William R 32-1
 32-27S-17E
 1" = 1,000'

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		Click here to run SSP Click Click Goal Seek SSP Click		
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid by checking the box(es),	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixed brine: Cell H28 is			
4	Sample ID							STP calc. pH.			
5	Date	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012		Cells H35-38 are used in mixed brines calculations.			
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock				
7	Well Name	Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith					
8	Location	#34-1	#4-1	#5-4	#1	#2					
9	Field	CBM	CBM	Bartles	Bartles	Bartles					
10	Na ⁺	(mg/l)*	19,433.00	27,381.00	26,534.00	25,689.00	24,220.00	24,654.20	Initial(BH)	Final(WH)	Sr/Sr (Final-Initial)
11	K ⁺ (If not known =0)	(mg/l)						0.00	Saturation Index values		
12	Mg ²⁺	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite		
13	Ca ²⁺	(mg/l)	1,836.00	2,452.00	2,044.00	1,920.00	1,948.00	2,040.23	-0.73	-0.60	0.13
14	Sr ²⁺	(mg/l)						0.00	Barite		
15	Ba ²⁺	(mg/l)						0.00			
16	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite		
17	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb ²⁺	(mg/l)						0.00	Gypsum		
19	Cl ⁻	(mg/l)	36,299.00	48,965.00	47,874.00	45,632.00	43,147.00	44,388.44	-3.19	-3.18	0.00
20	SO ₄ ²⁻	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemhydrate		
21	F ⁻	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br ⁻	(mg/l)						0.00	Anhydrite		
23	SiO ₂	(mg/l) SiO ₂						0.00	-3.47	-3.36	0.12
24	HCO ₃ Alkalinity**	(mg/l as HCO ₃)	190.00	234.00	259.00	268.00	254.00	241.03	Celestite		
25	CO ₃ Alkalinity	(mg/l as CO ₃)									
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide		
27	Ammonia	(mg/L) NH ₃						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H ₃ BO ₃						0.00	Zinc Sulfide		
29	TDS (Measured)	(mg/l)						72781			
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium fluoride		
31	CO ₂ Gas Analysis (%)	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H ₂ S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate		
33	Total H ₂ Saq	(mgH ₂ S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
34	pH, measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)		
35	Choose one option to calculate SI:	0-CO ₂ %+Alk. 1-pH+Alk. 2-CO ₂ %+pH	0	0	0	0	0		Calcite	NTMP	
36	Gas/day(thousand cf/day)	(Mcf/D)						0	0.00	0.00	
37	Oil/Day	(B/D)	0	0	1	1	1	4	Barite	BHPMP	
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	
39	For mixed brines, enter values for temperatures and pressures in Cells (H40-H43)								(Enter H40-H43)		
40	Initial T	(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60	
41	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89.0	Viscosity (CentiPoise)		
42	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826	
43	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0	Heat Capacity (cal/ml ² /C)		
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	
45	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)		
46	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP	
47	MeOH/Day	(B/D)	0					0	0.00	0.00	
48	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	
49	Conc. Multiplier								0.00	0.00	
50	H ⁺ (Strong acid) [†]	(N)									
51	OH ⁻ (Strong base) [†]	(N)									
52	Quality Control Checks at STP:										
53	H ₂ S Gas	(%)									
54	Total H ₂ Saq (STP)	(mgH ₂ S/l)									
55	pH Calculated	(pH)									
56	PCO ₂ Calculated	(%)									
57	Alkalinity Calculated	(mg/l) as HCO ₃									
58	ECations=	(equiv./l)									
59	EAions=	(equiv./l)									
60	Calc TDS=	(mg/l)									
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)					
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
63	Have ScaleSoftPitzer			2	BHPMP	°C	80	°F	176		
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m ³	100	ft ³	3,531		
65	If No, inhibitor # is:	4	#	4	DTPMP	m ³	100	bb(42 US gal)	629		
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074		
67	1 st inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194		
68	% of 1 st inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193		
69	2 nd inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bb(42 US gal)	238		
70	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	10,000	bb(42 US gal)	63		
71				10	Mixed						

Saturation Index Calculations

Champion Technologies, Inc.

(Based on the Tomson-Oddo Model)

Brine 1: Ward Feed Yard 34-1

Brine 2: Ward Feed Yard 4-1

Brine 3: Clinesmith 5-4

Brine 4: Clinesmith 1

Brine 5: Clinesmith 2

Component (mg/L)	Ratio					Mixed Brine
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO ₂ in Brine	246	220	264	422	405	401
Ionic Strength	1.12	1.48	1.46	1.38	1.31	1.31
Temperature (°F)	89	89	89	89	89	89
Pressure (psia)	50	50	120	120	120	119

Saturation Index

Calcite	-1.71	-1.41	-1.48	-1.68	-1.69	-1.69
Gypsum	-3.71	-3.64	-2.82	-3.73	-3.72	-3.69
Hemihydrate	-3.70	-3.65	-2.83	-3.74	-3.71	-3.69
Anhydrite	-3.89	-3.79	-2.97	-3.89	-3.88	-3.85
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

PTB

Calcite	N/A	N/A	N/A	N/A	N/A	N/A
Gypsum	N/A	N/A	N/A	N/A	N/A	N/A
Hemihydrate	N/A	N/A	N/A	N/A	N/A	N/A
Anhydrite	N/A	N/A	N/A	N/A	N/A	N/A
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 33344
 Name: Quest Cherokee, LLC
 Address: 211 W. 14th Street
 City/State/Zip: Chanute, KS 66720
 Purchaser: Bluestem Pipeline, LLC
 Operator Contact Person: Jennifer R. Ammann
 Phone: (620) 431-9500
 Contractor: Name: TXD Services, LP
 License: 33837
 Wellsite Geologist: Ken Recoy

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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/SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>9/28/06</u>	<u>10/2/06</u>	<u>10/2/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26954-00-00
 County: Wilson
 _____ se _____ nw Sec. 32 Twp. 27 S. R. 17 East West
1980 feet from S (N) (circle one) Line of Section
1980 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
 _____ (circle one) NE SE (NW) SW
 Lease Name: Thorsell, William R. Well #: 32-1
 Field Name: Cherokee Basin CBM

Producing Formation: multiple
 Elevation: Ground: 978 Kelly Bushing: n/a
 Total Depth: 1253 Plug Back Total Depth: 1248.42
 Amount of Surface Pipe Set and Cemented at 21 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 1248.42
 feet depth to surface w/ 152 _____ sx cmt.

Drilling Fluid Management Plan AH II NH 6-18-08
(Data must be collected from the Reserve Pl)
 Chloride content _____ ppm Fluid volume _____ bbls
 Dewatering method used _____
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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.

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: Jennifer R. Ammann
 Title: New Well Development Coordinator Date: 1/30/07
 Subscribed and sworn to before me this 30th day of January,
 2007.
 Notary Public: Sonya Klauman
 Date Commission Expires: 8-4-2010

TERRA KLAUMAN
 Notary Public - State of Kansas
 My Appt. Expires 8-4-2010

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 31 2007
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Quest Cherokee, LLC Lease Name: Thorsell, William R. Well #: 32-1
 Sec. 32 Twp. 27 S. R. 17 East West County: Wilson

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 copy of all Electric Wireline 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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log Gamma Ray Neutron Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See attached
--	--

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
Surface	12-1/4	8-5/8"	20	21	"A"	5	
Production	6-3/4	4-1/2	10.5	1248.42	"A"	152	

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				

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
4	1106-1108	100gal 15% HCL w/ 33 lbs 2% KCl water, 231lbs water w/ 2% KCL, Blocks, 3000# 30/70 sand	1106-1108
4	780-782/702-706/692-696	400gal 15% HCL w/ 65 lbs 2% KCl water, 665lbs water w/ 2% KCL, Blocks, 13000# 30/70 sand	780-782/702-706 692-696

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>1122</u>	Packer At <u>n/a</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>12/19/06</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>n/a</u>	Gas Mcf <u>11.8mcf</u>	Water Bbls. <u>94.4bbls</u>	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. Commingled Other (Specify) _____

Production Interval _____

QUEST

Resource Corporation



211 W. 14TH STREET,
CHANUTE, KS 66720
620-431-9500

TICKET NUMBER **1842**

FIELD TICKET REF #

FOREMAN Joe

618270

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-2-06	Thorsell William 32-1	32	27	17	WL

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe B	11:30	5:00		903427		5.5	<i>Joe B</i>
Wes. T	11	3:30		903197		4	<i>Wes. T</i>
Russell A		3:30		903206		4	<i>Russell A</i>
David C		5:15		903142	932452	5.75	<i>David C</i>
Craig G		12:00		931500		.50	<i>Craig G</i>
Mark B		3:00		903230		3.5	<i>Mark B</i>

JOB TYPE Long string HOLE SIZE 6 3/4 HOLE DEPTH 1253 CASING SIZE & WEIGHT 4 1/2 10.5
 CASING DEPTH 1248.42 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL: _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 19.91 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS:

Installed cement head RAN RAN 2 SKS gel & 12 bbl dye & 152 SKS of
Cement to get dye to surface. Flush Pump. Pump wiper plug to bottom of
Set Float shoe

hr Waiton Drill Rig to Run Casing in Hole

	1248.42	Ft 4 1/2 Casing	
	6	Centralizers	
	1	4 1/2 Float shoe	

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903427	5.5	Foreman Pickup	
903197	4 hr	Cement Pump Truck	
903206	4 hr	Bulk Truck	
1104	142 SK	Portland Cement	
1124	2 SK	50/50 POZ Blend Cement Baffle 3 1/2" x 3"	
1126	1	OWC - Blend Cement	
1110	15 hr	Gilsonite 4 1/2 wiper plug	
1107	1 SK	Flo-Seal	
1118	3 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3	Sodium Silicate	
1123	7000 gal	City Water Catchloride	
903142	5.75 hr	Transport Truck	
932452	5.75 hr	Transport Trailer	
931500	.50 hr	80 Vac	

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 31 2007

CONSERVATION DIVISION
WICHITA, KS

TXD SERVICES LP DRILLERS LOG

TXD SERVICES LP

RIG #	101	S. 32	T. 27	R. 17	CAS TEST	
API #	205-26954-0000	County:	Wilson		348'	0
Elev:	978	Location	Kansas		658'	0
					689'	0
Operator:	Quest Cherokee, LLC				973'	0
Address:	9520 N. May Ave, Suite 300				1,098'	7
	Oklahoma City, OK. 73120				1129'	0
Well #	32-1	Lease Name Thorsell, William			to much water to test	
Footage Location	1,980 ft from the (N) Line					
	1,980 ft from the (W) Line					
Drilling Contractor:	TXD SERVICES LP					
Spud Date:	9/28/06	Geologist: Ken Re coy				
Date Completed:	10/02/06	Total Depth: 1,253'				

Casing Record		Top Line
	Surface	Production
Size Hole	12-1/4"	6-3/4"
Size Casing	8-5/8"	4-1/2"
Weight	24#	
Setting Depth	21'	
Type Cement	portland	
Sacks	5	

Well Log								
Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
shale	22	107	shale	1,072	1,118			
lime	107	120	coal	1,118	1,122			
shale	120	201	shale	1,122	1,151			
lime	201	205	lime	1,151	1,255			
shale	208	334						
coal	334	336						
shale	336	380						
lime	380	403						
shale	403	620						
coal	620	624						
shale	624	646						
coal	646	630						
shale	630	815						
coal	815	817						
shale	817	840						
lime	840	845						
shale	845	855						
sand/shale	855	879						
coal	879	890						
shale	890	905						
coal	905	911						
shale	911	1,067						
coal	1,067	1,070						

Comments: 1,161 mississippi

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 31 2007

CONSERVATION DIVISION
WICHITA, KS

POSTROCK



Current Completion

WELL : Thorsell, William R 32-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Wilson

SPUD DATE : 9/28/2006
COMP. Date : 10/2/2006
API: 15-205-26954-00-00

LOCATION: 32-27S-17E (SE,NW)
ELEVATION: 978'

8 5/8" 20 lb @ 21' Cement w/5 sks

Wellhead/Surface Equipment

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

Tubular Detail

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	20 lb			2006	21'
4 1/2"	10.5 lb		.0159	2006	1248'
2 3/8"				2006	1122'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1
500 gals 15% HCL
1,100 bbls water
16,000 lbs 30/70 sand

Perforations

Original Completion: 4 spf
692-696 Summit (17)
702-706 Mulky (17)
780-782 Croweburg (9)
1106-1108 Riverton (9)

2 3/8" tubing @ 1122'

4.5" 10.5 lb @ 1248' Cement w/152 sks

PBTD @ 1248'

Drilled Depth @ 1253'

PREPARED BY: POSTROCK

DATE: Oct, 2012

APPROVED BY:

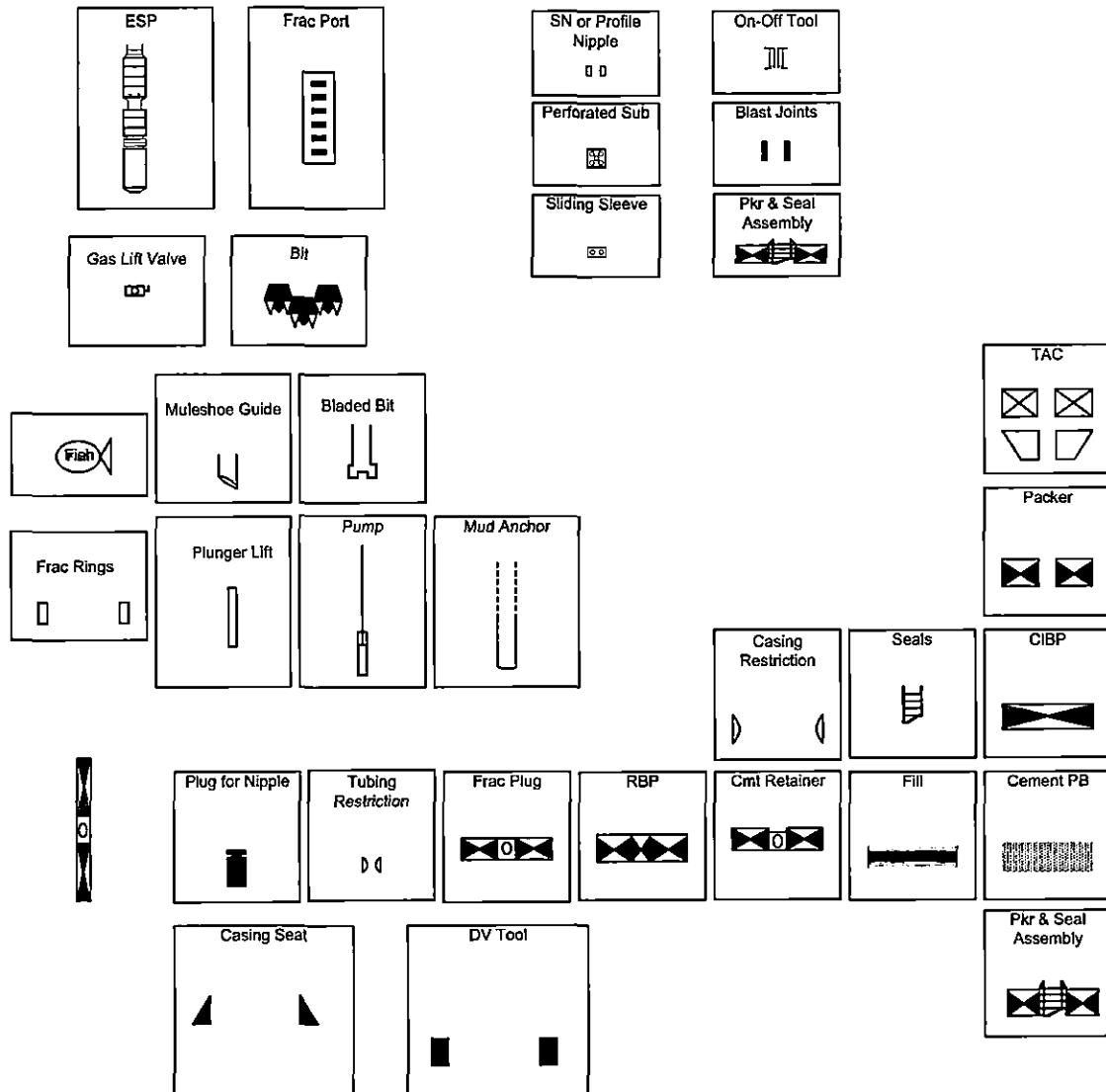
DATE:

POSTROCK



LEGEND

PostRock



AFFIDAVIT

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, deposeseth 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 9th of

November A.D. 2012, with

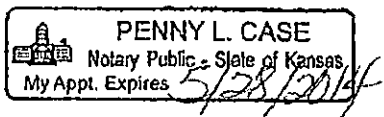
subsequent publications being made on the following dates:

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

9th day of November, 2012



Penny L. Case
Notary Public Sedgwick County, Kansas

Printer's Fee : \$132.40

LEGAL PUBLICATION
PUBLISHED IN THE WICHITA EAGLE
NOVEMBER 9, 2012 (2214881)
BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
RE: In the Matter of Postrock Midcontinent
Production, LLC Application for
Comminuting of Production in the Thornall,
William R. 32-1 located in Wilson 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 Postrock Midcontinent Production,
LLC has filed an application to commingle
the Summit, Mulky, Crawburn, Riverton,
Calleman and Bartlesville production
formations of the Thornall, William R.
32-1, located in the SE NW, S12, T27S-R17E,
Approximately 1980 FNL & 1980 FWL, Wilson
County, Kansas.
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 granting the application may cause waste,
violate correlative rights or deplete the natural
resources of the State of Kansas.
All persons interested or concerned shall
take notice of the foregoing and shall govern
themselves accordingly. All persons and/or
companies wishing to protest this application
are required to file a written protest with the
Conservation Division of the Kansas Oil and
Gas Commission.
Upon the receipt of any protest, the
Commission will convene a hearing and
protestants will be expected to enter an
appearance either through proper legal counsel
or as individuals, appearing on their own behalf.
Postrock Midcontinent Production, LLC
210 Park Avenue, Suite 2750
Oklahoma City, Oklahoma 73102
(405) 660-7704

PROOF OF PUBLICATION

STATE OF KANSAS
Wilson County - SS

JOSEPH S. and RITA M. RELPH, of lawful age, being duly sworn upon oath that they are the Owners and Publishers of the WILSON COUNTY CITIZEN:

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least five years prior to the first publication of the attached notice:

THAT said newspaper is a general circulation on a daily, or weekly, or monthly, or yearly basis in;

WILSON COUNTY, KANSAS and is NOT a trade, religious or fraternal publication and has been PRINTED and PUBLISHED in Wilson County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper:

1st publication was made on the 8th day of November, 2012

2nd publication was made on the _____ day of _____, 20____

3rd publication was made on the _____ day of _____, 20____

4th publication was made on the _____ day of _____, 20____

5th publication was made on the _____ day of _____, 20____

6th publication was made on the _____ day of _____, 20____

TOTAL PUBLICATION FEE: \$ 37⁰⁰

(Signed) Joseph S. Relph

Subscribed and sworn to before me, this 9th day of November, 2012

Rita M. Relph (Notary Public)
Aug. 30, 2014

My commission expires _____

(Published in the Wilson County Citizen on Thursday, November 8, 2012.)

BEFORE THE STATE CORPORATION
COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

RE: In the Matter of Postrock Midcontinent Production, LLC Application for Commencing of Production in the Thorsell, William R S2-1 located in Wilson 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 Postrock Midcontinent Production, LLC has filed an application to commence the Summit, Mulkey, Crowburg, Riverton, Cattleman and Bartlesville producing formations at the Thorsell, William R S2-1, located in the SE NW, S32, T27S-R17E, Approximately 1960 FNL & 1990 FWL, Wilson County, Kansas.

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 granting 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. All persons and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.

Upon the receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

Postrock Midcontinent Production, LLC
210 Park Avenue, Suite 2750
Oklahoma City, Oklahoma 73102
(405) 660-7704
76.1 cpy



Rita M. Relph
NOTARY PUBLIC
State of Kansas
My Commission Expires

Affidavit of Notice Served

Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS ACO-4

Well Name: THORSELL, WILLIAM R 32-1 Legal Location: SENW S32-T27S-R17E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day ~~27th~~ 26th of NOVEMBER, 2012, 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)

SEE ATTACHED

I further attest that notice of the filing of this application was published in the THE WILSON COUNTY CITIZEN, the official county publication of WILSON county. A copy of the affidavit of this publication is attached.

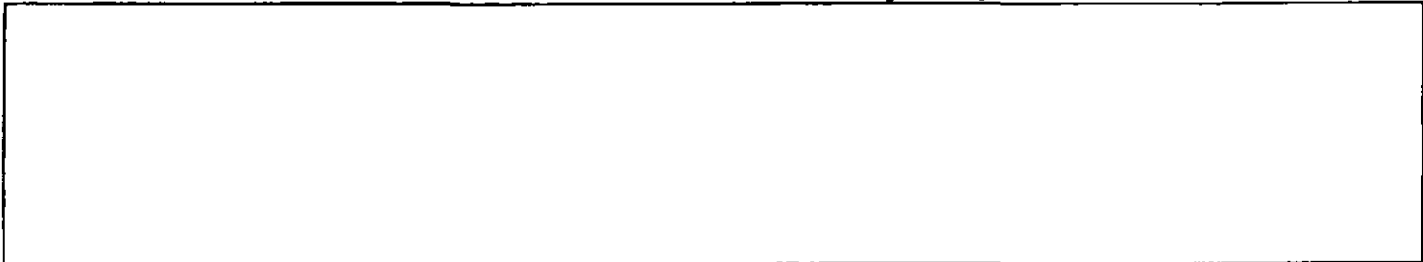
Signed this ~~26th~~ 27th day of NOVEMBER, 2012

Jess Morris
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 27th day of NOVEMBER, 2012



Jennifer R. Beal
Notary Public
My Commission Expires: July 20, 2016



THORSELL, WILLIAM R 32-1

LEGAL LOCATION	SPOT	CURR_OPERA
S32-T27S-R17E	SE SE NW NW	Banks Oil Co
S32-T27S-R17E	SE SW NW NW	Mitchell Energy Company
S32-T27S-R17E	NW SE SW NW	Mitchell Energy Company
S32-T27S-R17E	NE SE NW NW	Mitchell Energy Company
S32-T27S-R17E	NW SW SW NW	Mitchell Energy Company
S32-T27S-R17E	SW SW SW NW	Mitchell Energy Company
S31-T27S-R17E	NE SE NE NE	Mitchell Energy Company
S31-T27S-R17E	SE SE NE NE	Mitchell Energy Company
S31-T27S-R17E	NE SE NE NE	Mitchell Energy Company

Banks Oil Co.
7701 E Kellogg Ste 885
Wichita, KS 67207

Mitchell Energy Company
5008 Prospect Ave
Kansas City, Mo 64130

THORSELL, WILLIAM R 32-1

29-27S-17E

SE4 David & Linda Angleton
 20128 Wichita Rd
 Chanute, KS 66720

30-27S-17E

E2NE Gertrude H. Thorsell Trust
 19941 Ulysses Rd
 Chanute, KS 66720

32-27S-17E

NE4 David & Dairlee Bideau 1/2
 Edwin III & Margaret Bideau 1/2
 PO Box 945
 Chanute, KS 66720

THORSELL, WILLIAM R 32-1-APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

Offset Operators, Unleased Mineral Owners and Landowners acreage
(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

SEE ATTACHED

Multiple horizontal lines for entering data under 'Name' and 'Legal Description of Leasehold'.

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Jay Morris
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 27th day of NOVEMBER, 2012



Jennifer R. Beal
Notary Public

My Commission Expires: July 20, 2016

Large empty rectangular box for additional information or notes.

THORSELL, WILLIAM R 32-1

LEGAL LOCATION	SPOT	CURR_OPERA
S32-T27S-R17E	SE SE NW NW	Banks Oil Co
S32-T27S-R17E	SE SW NW NW	Mitchell Energy Company
S32-T27S-R17E	NW SE SW NW	Mitchell Energy Company
S32-T27S-R17E	NE SE NW NW	Mitchell Energy Company
S32-T27S-R17E	NW SW SW NW	Mitchell Energy Company
S32-T27S-R17E	SW SW SW NW	Mitchell Energy Company
S31-T27S-R17E	NE SE NE NE	Mitchell Energy Company
S31-T27S-R17E	SE SE NE NE	Mitchell Energy Company
S31-T27S-R17E	NE SE NE NE	Mitchell Energy Company

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 12, 2012

Clark Edwards
PostRock Midcontinent Production LLC
Oklahoma Tower
210 Park Ave, Ste 2750
Oklahoma City, OK 73102

RE: Approved Commingling CO121202
Thorsell, William R. 32-1, Sec. 32-T27S-R17E, Wilson County
API No. 15-205-26954-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on December 10, 2012, 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.

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

File form ACO-1 upon re-completion of the well to commingle.

Commingling ID number CO121202 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

THORSELL, WILLIAM R 32-1

29-27S-17E

SE4 David & Linda Angleton
20128 Wichita Rd
Chanute, KS 66720

30-27S-17E

E2NE Gertrude H. Thorsell Trust
19941 Ulysses Rd
Chanute, KS 66720

32-27S-17E

NE4 David & Dairlee Bideau 1/2
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