



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

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.*

	A	B	C	D	E	F	G	H	I	J	K	
1	Produced Fluids #		1	2	3	4	5		<a href="#">Click here to run SSP</a>  Goal Seek SSP		Click	
2	Parameters	Units	Input	Input	Input	Input	Input					Click
3	Select the brines	Select fluid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mixed brine:				
4	Sample ID	by checking						Cell H28 is				
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.				
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38				Click
7	Well Name		Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith	are used in				Click
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines				
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.				
10	Na <sup>+</sup>	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	SI/SR (Final-Initial)	
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index values			
12	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite			
13	Ca <sup>2+</sup>	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13	
14	Sr <sup>2+</sup>	(mg/l)						0.00	Barite			
15	Ba <sup>2+</sup>	(mg/l)						0.00				
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite			
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03	
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gypsum			
19	Cl <sup>-</sup>	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00	
20	SO <sub>4</sub> <sup>2-</sup>	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate			
21	F <sup>-</sup>	(mg/l)						0.00	-3.96	-3.90	0.06	
22	Br <sup>-</sup>	(mg/l)						0.00	Anhydrite			
23	SiO <sub>2</sub>	(mg/l) SiO <sub>2</sub>						0.00	-3.47	-3.36	0.12	
24	HCO <sub>3</sub> Alkalinity**	(mg/l as HCO <sub>3</sub> )	190.00	234.00	259.00	268.00	254.00	241.03	Celestite			
25	CO <sub>3</sub> Alkalinity	(mg/l as CO <sub>3</sub> )										
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide			
27	Ammonia	(mg/L) NH <sub>3</sub>						0.00	-0.16	-0.22	-0.06	
28	Borate	(mg/L) H <sub>3</sub> BO <sub>3</sub>						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 <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16				
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate			
33	Total H <sub>2</sub> Saq	(mgH <sub>2</sub> S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23	
34	pH <sub>i</sub> 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 <sub>2</sub> %+Alk, 1-pH+Alk, 2-CO <sub>2</sub> %+pH	0	0	0	0	0	0	Calcite	NTMP		
36	Gas/day(thousand cf/day)	(Mc/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/°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 <sup>+</sup> (Strong acid) †	(N)										
51	OH <sup>-</sup> (Strong base) †	(N)										
52	Quality Control Checks at STP:											
53	H <sub>2</sub> S Gas	(%)										
54	Total H <sub>2</sub> Saq (STP)	(mgH <sub>2</sub> S/l)										
55	pH Calculated	(pH)										
56	PCO <sub>2</sub> Calculated	(%)										
57	Alkalinity Cacluated	(mg/l) as HCO <sub>3</sub>										
58	ΣCations=	(equiv./l)										
59	ΣAnions=	(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 <sup>3</sup>	100	ft <sup>3</sup>	3,531			
65	If No, inhibitor # is:	4	#	4	DTPMP	m <sup>3</sup>	100	bb(42 US gal)	629			
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074			
67	1 <sup>st</sup> inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194			
68	% of 1 <sup>st</sup> inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193			
69	2 <sup>nd</sup> 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

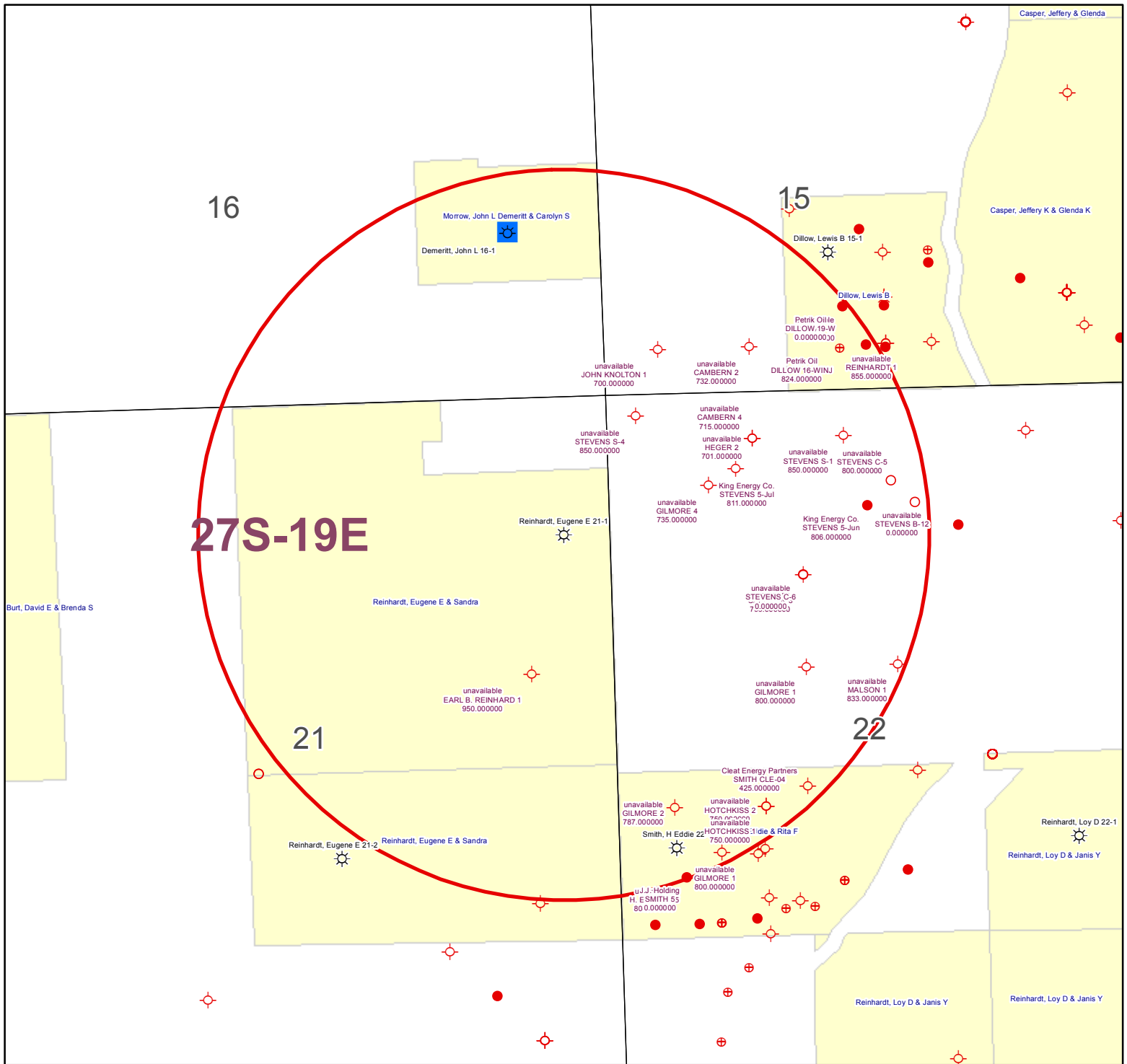
Component (mg/L)	Ratio					Mixed Brine
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO <sub>2</sub> 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



**KGS STATUS**

⊕	DA/PA
⊗	EOR
⊙	GAS
△	INJ/SWD
●	OIL
⊗	OIL/GAS
○	OTHER

Reinhardt, Eugene E 21-1  
 21-27S-19E  
 1" = 1,000'

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: Michael Drilling  
License: 33783  
Wellsite Geologist: Ken Recoy

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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>8/29/07</u>	<u>8/30/07</u>	<u>8/31/07</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 133-27127-0000  
County: Neosho

    -     -     -     Sec. 21 Twp. 27 S. R. 19  East  West  
1000 feet from S / (N) (circle one) Line of Section  
330 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) (NE) SE NW SW  
Lease Name: Reinhardt, Eugene E. Well #: 21-1  
Field Name: Cherokee Basin CBM

Producing Formation: multiple  
Elevation: Ground: 935 Kelly Bushing: n/a  
Total Depth: 1010 Plug Back Total Depth: 1009.81  
Amount of Surface Pipe Set and Cemented at 22 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1009.81  
feet depth to surface w/ 140 \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan APPL NO 324-05  
(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 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: 12/27/07  
Subscribed and sworn to before me this 27<sup>th</sup> day of December,  
2007.  
Notary Public: Derra Klauman  
Date Commission Expires: 8-4-2010

**KCC Office Use ONLY**  
Y Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
✓ Wireline Log Received  
\_\_\_\_\_ Geologist Report Received  
\_\_\_\_\_ UIC Distribution  
**RECEIVED**  
KANSAS CORPORATION COMMISSION  
**DEC 28 2007**

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

CONSERVATION DIVISION  
WICHITA KS

Operator Name: Quest Cherokee, LLC Lease Name: Reinhardt, Eugene E. Well #: 21-1  
 Sec. 21 Twp. 27 S. R. 19  East  West County: Neosho

**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 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 <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Compensated Density Neutron Log</b> <b>Dual Induction Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See attached
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 WICHITA, KS

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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
Surface	12-1/4	8-5/8"	22	22	"A"	5	
Production	6-3/4	4-1/2	10.5	1009.81	"A"	140	

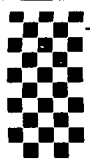
ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	704-706/676-678/623-625/591-594/569-571	500gal 15%HCL w/ 44 bbls 2%kcl water, 654bbls water w/ 2% KCL, Biocide, 8800# 20/40 sand	704-706/676-678  623-625 591-594/569-571
4	489-493/478-482	300gal 15%HCL w/ 55 bbls 2%kcl water, 703bbls water w/ 2% KCL, Biocide, 9700# 20/40 sand	489-493/478-482

TUBING RECORD		Size Set At	Packer At	Liner Run
2-3/8"		726	n/a	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 10/9/07		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. n/a	Gas Mcf 13.1mcf	Water Bbls. 147.1bbls	Gas-Oil Ratio Gravity

Disposition of Gas      **METHOD OF COMPLETION**      Production Interval

Vented    Sold    Used on Lease    Open Hole    Perf.    Dually Comp.    Commingled  
*(If vented, Submit ACO-18.)*       Other (Specify) \_\_\_\_\_



083007

**Michael Drilling, LLC**  
**P.O. Box 402**  
**Iola, KS 66749**  
**620-365-2755**

**Company:** Quest Cherokee LLC  
**Address:** 9520 North May Ave, Suite 300  
Oklahoma City, Oklahoma 73120  
**Ordered By:** Donnie Meyers

**Date:** 08/30/07  
**Lease:** Reinhardt, Eugene E.  
**County:** Neosho  
**Well#:** 21-1  
**API#:** 15-133-27127-00-00

**Drilling Log**

FEET	DESCRIPTION	FEET	DESCRIPTION
0-22	Overburden	619-620	Coal
22-104	Lime	620-651	Sandy Shale
104-284	Shale	651-675	Shale
284-297	Lime	675-677	Coal
297-310	Shale	677-699	Sandy Shale
310-366	Sandy Shale	699-700	Coal
366-371	Lime	700-746	Shale
371-373	Coal	746-774	Sand
373-411	Lime	774-783	Sandy Shale
411-414	Black Shale and Coal	783-791	Sand
414-456	Shale	791-808	Shale
456-477	Lime	808-855	Sand
466	Gas Test 1# at 1/4" Choke	855-857	Coal
477-484	Black Shale	857-899	Sand
484-491	Lime	885	To Much Water For Gas Test
486	Gas Test 1# at 1/4" Choke	899-902	Coal
491-493	Shale	902-914	Shale
493-494	Coal	914-1010	Mississippi Lime
494-566	Shale	925	To Much Water For Gas Test
508	Gas Test 1# at 1/4" Choke	1010	To Much Water For Gas Test
566-568	Coal	1010	TD
568-591	Sandy Shale		
591-592	Coal		Surface 22'
592-619	Sandy Shale		

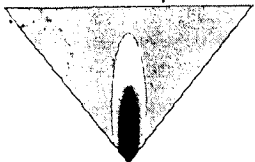
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# QUEST

Resource Corporation



211 W. 14TH STREET, SSI 623700  
 CHANUTE, KS 66720  
 620-431-9500 API 15-133-27127

TICKET NUMBER 2176

FIELD TICKET REF # \_\_\_\_\_

FOREMAN Dwayne

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-31-07	Reinhardt 21-1	21	27	19	NO

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Dwayne	6:45	8:15	NO	901640		1.5	<i>[Signature]</i>
Tim	6:45	8:00		903255		1.25	<i>[Signature]</i>
Maurick	6:45	8:00		9031585		1.25	<i>[Signature]</i>
Daniel	6:45	8:00		931420		1.25	<i>[Signature]</i>
Craig	6:45	8:15		903600		1.5	

JOB TYPE Long String HOLE SIZE C 3/4 HOLE DEPTH 1014 CASING SIZE & WEIGHT 4 1/2 10.5  
 CASING DEPTH 1008 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0  
 DISPLACEMENT 16 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS:

Break Circulation Pump 2 Sacks Perm Gel Followed by 5 BBL Red Then 12 BBL Dye Marker Then Start Cement. Pump 140 Sacks of cement to get Dye Back. STOP and Flush Pump Then pump wiper Plug to Bottom and Set Float Shoe.

	1008'	4 1/2	Casing
	5	4 1/2	Centralizers
	1	4 1/2	Float Shoe

CONFIDENTIAL  
 DEC 27 2007  
 KCC

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
901640	1.5 hr	Foreman Pickup	
903255	1.25 hr	Cement Pump Truck	
903600	1.05 hr	Bulk Truck	
1104	Sack	Portland Cement	
1124	1	<del>5000 Gallon</del> 4 1/2 Wiper Plug	
1126	1	<del>3" Frac Baffle</del> FRAC Baffle 3"	
1110	Sack	Gilsonite	
1107	Sack	Flo-Seal	
1118	Sack	Premium Gel	
1215A	1 Gal	KCL	
1111B	3 Sack	<del>Calcium Chloride</del> Cal. Chloride	
1123	5000 Gal	City Water	
9031585	1.25 hr	Transport Truck	
931590	1.25 hr	Transport Trailer	
931420	1.25 hr	80 Vac	

RECEIVED  
 KANSAS CORPORATION COMMISSION

DEC 28 2007

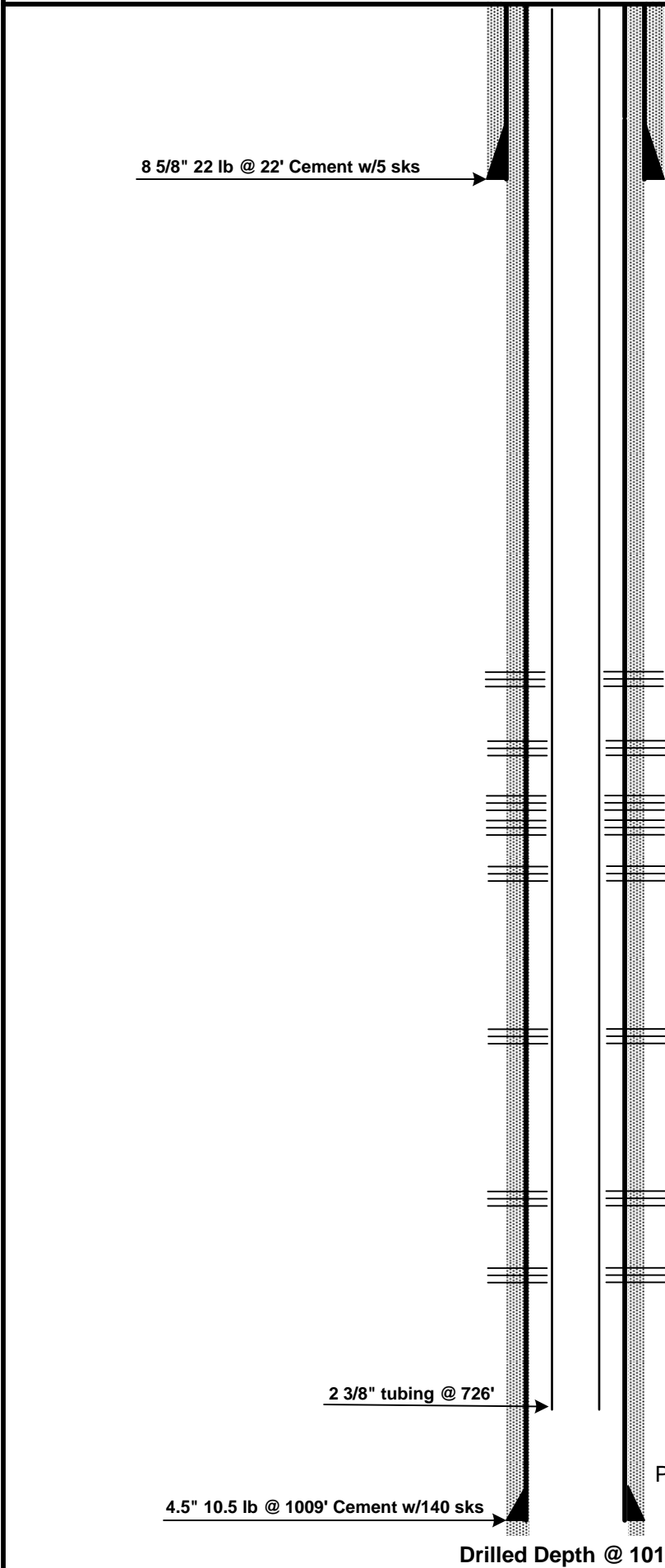
CONSERVATION DIVISION  
 WICHITA, KS



**WELL** : Reinhardt, Eugene E 21-1  
**FIELD** : Cherokee Basin  
**STATE** : Kansas  
**COUNTY** : Neosho

**SPUD DATE** : 8-29-2007  
**COMP. Date** : 8-31-2007  
**API**: 15-133-27127-00-00

**LOCATION: 21-27S-19E (NE,NE)**  
**ELEVATION:935'**



**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"	22 lb			2007	22'
4 1/2"	10.5 lb		.0159	2007	1009'
2 3/8"				2007	726'

**Downhole Equipment Detail**

**Completion Data**

Original as GAS Well per ACO-1	
800 gals 15% HCL	
1,157 bbls water	
18,500 lbs 20/40 sand	

**Perforations**

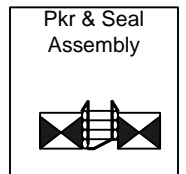
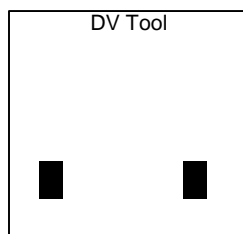
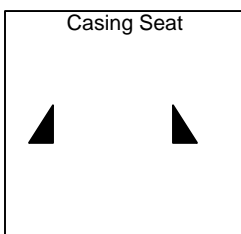
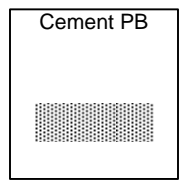
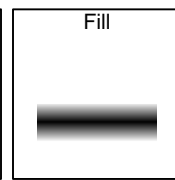
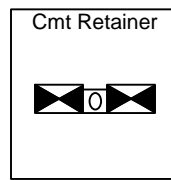
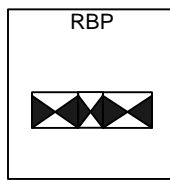
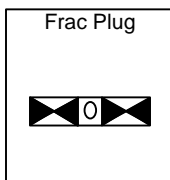
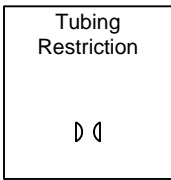
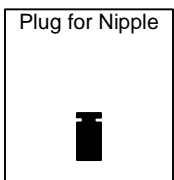
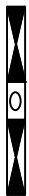
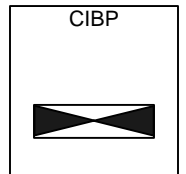
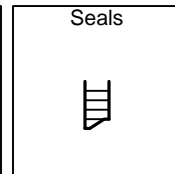
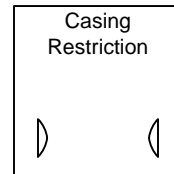
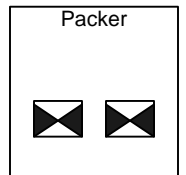
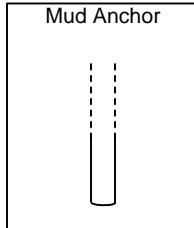
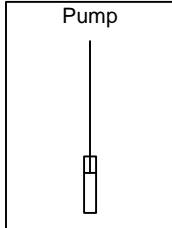
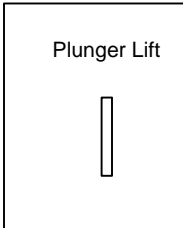
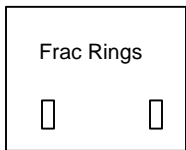
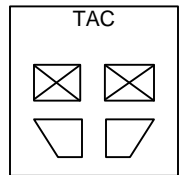
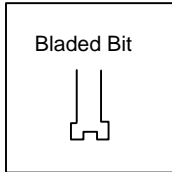
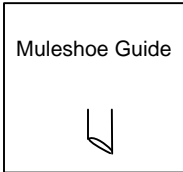
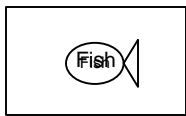
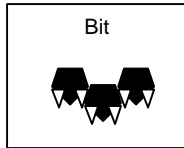
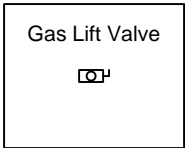
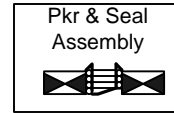
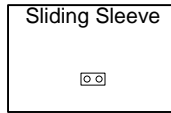
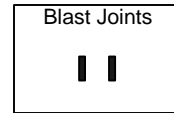
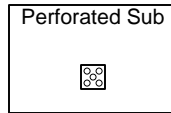
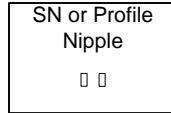
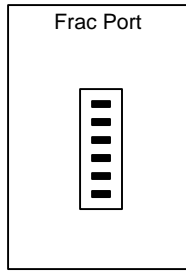
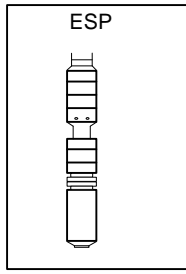
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478-482 Summit (17)
489-493 Mulky (17)
569-571 Bevier (9)
591-594 Croweburg (13)
623-625 Fleming (9)
676-678 Tebo (9)
704-706 Weir (9)

# POSTROCK



## LEGEND

PostRock<sup>®</sup>



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 Commingling of  
Production in the **Reinhardt,  
Eugene E 21-1** located in **Neosho  
County, Kansas.**

TO: All Oil & Gas Producers, Un-  
leased Mineral Interest Owners,  
Landowners, and all persons  
whomever concerned.

You, and each of you, are hereby  
notified that **Postrock Midconti-  
nent Production, LLC** has filed  
an application to commingle the  
**Summit, Mulky, Bevler, Crowe-  
burg, Fleming, Tebo, Weir and  
Bartiesville** producing formations  
at the **Reinhardt, Eugene E 21-1,**  
located in the **SW SE NE NE,  
S21-T27S-R19E, Approximately  
997 FNL & 332 FEL, Neosho  
County, Kansas.**

Any persons who object to or pro-  
test this application shall be re-  
quired to file their objections or  
protest with the Conservation Divi-  
sion of the State Corporation Com-  
mission 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 grant-  
ing the application may cause  
waste, violate correlative rights or  
pollute the natural resources of  
the State of Kansas.

All persons interested or con-  
cerned shall take notice of the  
foregoing and shall govern them-  
selves accordingly. All person  
and/or companies wishing to pro-  
test this application are required to  
file a written protest with the Con-  
servation Division of the Kansas  
Oil and Gas Commission.

Upon the receipt of any protest,  
the Commission will convene a  
hearing and protestants will be ex-  
pected to enter an appearance ei-  
ther 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

A COPY OF THE AFFIDAVIT OF  
PUBLICATION MUST ACCOM-  
PANY ALL APPLICATIONS

**Affidavit of Publication**

STATE OF KANSAS, NEOSHO COUNTY, ss:  
*Rhonda Howerter*, being first duly sworn,  
deposes and says: That *she* is *Classified Manager*  
of *THE CHANUTE TRIBUNE*, a daily newspaper printed  
in the State of Kansas, and published in and of general  
circulation in Neosho County, Kansas, with a general paid  
circulation on a daily basis in Neosho County, Kansas, and  
that said newspaper is not a trade, religious or fraternal  
publication.

Said newspaper is a daily published at least weekly 50  
times a year: has been so published continuously and unin-  
terruptedly in said county and state for a period of more  
than five years prior to the first publication of said notice;  
and has been admitted at the post office of Chanute, in said  
county as second class matter.

That the attached notice is a true copy thereof and was  
published in the regular and entire issue of said newspa-  
per for 1 consecutive time, the first publication  
thereof being made as aforesaid on the 10 day of  
January  
2013, with subsequent publications being made on the fol-  
lowing dates:

\_\_\_\_\_, 2012 \_\_\_\_\_, 2012


\_\_\_\_\_, 2012 \_\_\_\_\_, 2012

*Rhonda Howerter*

Subscribed and sworn to and before me this  
10 day of January 2013

*[Signature]*  
Notary Public

My commission expires: January 9, 2015  
Printer's Fee ..... \$ 107.34  
Affidavit, Notary's Fee ..... \$ 3.00  
Additional Copies ..... \$ \_\_\_\_\_  
Total Publication Fees ..... \$ 70.34

 **SHANNA L. GUIOT**  
Notary Public - State of Kansas  
My Appt. Expires 1-9-15

**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 17th of

January A.D. 2013, 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

17th day of January, 2013

PENNY L. CASE
Notary Public - State of Kansas
My Appt. Expires 5/28/2014

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

Printer's Fee : \$132.40

LEGAL PUBLICATION
PUBLISHED IN THE WICHITA EAGLE
JANUARY 17, 2013 (3227060)
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 Commingling of
Production in the Reinhardt, Eugene
E 21-1 located in Neosho County,
Kansas.
TO: All Oil & Gas Producers, Unleased
Mineral Interest Owners,
Landowners, and all persons
whomever concerned.
You, and each of you, are hereby notified
that Postrock Midcontinent Production,
LLC has filed an application to commingle
the Summit, Mulky, Bevier, Croweburg,
Fleming, Tebo, Weir and Barlesville
producing formations at the Reinhardt,
Eugene E 21-1, located in the SW SE NE NE,
S21-T27S-R19E, Approximately 997 FNL &
332 FEL, Neosho 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 person 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



**Affidavit of Notice Served**

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

Well Name: REINHARDT, EUGENE E 21-1 Legal Location: SWSENE S21-T27S-R19E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 8<sup>th</sup> of FEBRUARY, 2013, 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 CHANUTE TRIBUNE, the official county publication of NEOSHO county. A copy of the affidavit of this publication is attached.

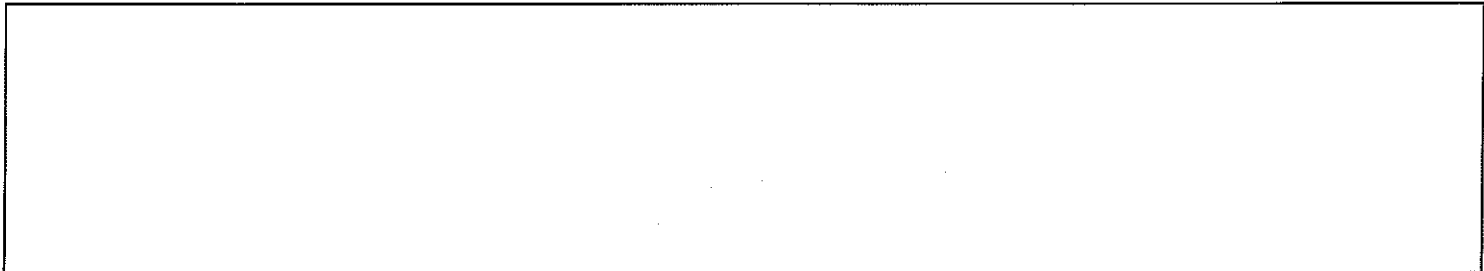
Signed this 8<sup>th</sup> day of FEBRUARY, 2013

[Signature]  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 8<sup>th</sup> day of FEBRUARY, 2013



Jennifer R. Beal  
Notary Public  
My Commission Expires: July 20, 2014



**REINHARDT, EUGENE E 21-1**

<b>LEGAL LOCATION</b>	<b>SPOT</b>	<b>CURR_OPERA</b>	<b>ADDRESS</b>
S22-T27S-R19E	SW	<b>Cleat Energy Partners</b>	PO BOX 501, PAHUSKA, OK 74056
S22-T27S-R19E	SW	<b>J.J. Holding</b>	RR 4, BOX 228, CHANUTE, KS 66720
S22-T27S-R19E	SW NE NW NW	<b>King Energy Co.</b>	2 TIMBER DR, IOLA, KS 66749
S22-T27S-R19E	NE SW NE NW	<b>King Energy Co.</b>	2 TIMBER DR, IOLA, KS 66749
S15-T27S-R19E	SE SW	<b>Petrik Oil</b>	5160 HARVARD DR, BARTLESVILLE, OK 74006
S15-T27S-R19E	SW SE SW	<b>Petrik Oil</b>	5160 HARVARD DR, BARTLESVILLE, OK 74006

**REINHARDT, EUGENE E 21-1**

**15-27S-19E**

**SW4 SW4**

Charles A O'Rourke & Patricia G. O'Rourke  
Rev Trust  
12030 220th Rd  
Chanute, KS 66720

**N2 SW4**

Big Creek Ranch Inc.  
923 S Highland Ave  
Chanute, KS 66720

**16-27S-19E**

**E2 SW4 AND tracts in SE4**

John W. Mishler Trust (1/2)  
PO Box 531  
Chanute, KS 66720  
Marilyn K. Mishler Trust (1/2)  
PO Box 531  
Chanute, KS 66720

**tract in S2 SE4**

Thomas A. True  
11830 220th Rd  
Chanute, KS 66720

**21-27S-19E**

**tract in SE4 NW4**

Kenneth Lee Ornelas II  
319 S Lincoln  
Chanute, KS 66720

**NE4 NW4**

Cecil E & Adna D Crim  
801 S Layayette  
Chanute, KS 66720

**tract in NE4 NE4**

John W. Mishler Trust (1/2)  
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Chanute, KS 66720  
Marilyn K. Mishler Trust (1/2)  
PO Box 531  
Chanute, KS 66720

**tract in NE4 NE4**

David & Shirlene Mahurin  
11875 220th Rd  
Chanute, KS 66720

**tract in NW/c NE4 NE4**

**supposed owners - gap in chain**

Bobbie F. Oliphant & Karrie M. Perkins  
2410 E 101st ST N  
Valley Center, KS 67147

**tract in S2 SE4**

Eugene E. & S A Reinhardt  
11695 K-39 Hwy  
Chanute, KS 66720

**22-27S-19E**

**N2 NW4**

Linda Sue Sjogren & James M. Stevens  
335 N 127th St E  
Wichita, KS 67206

**S2 NW4**

Michael & Barbara A Watts  
21350 Jackson Rd  
Chanute, KS 66720



REINHARDT, EUGENE E 21-1-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

Table with 2 columns: Name, Legal Description of Leasehold. Contains 10 rows for data entry.

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

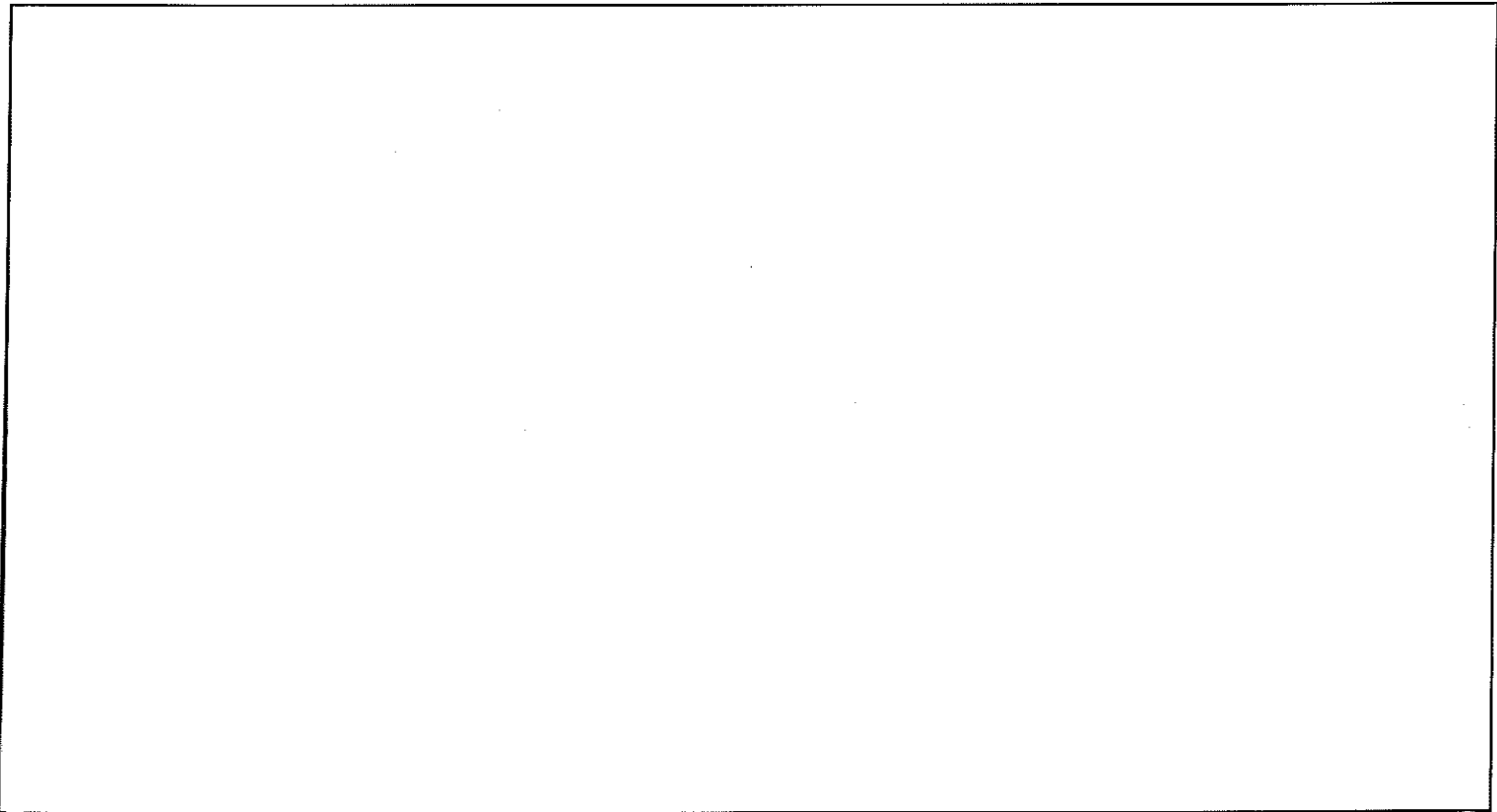
Signature line for Applicant or Duly Authorized Agent.

Subscribed and sworn before me this 8th day of FEBRUARY, 2013



Signature line for Notary Public.

My Commission Expires: July 20, 2016



**REINHARDT, EUGENE E 21-1**

<b>LEGAL LOCATION</b>	<b>SPOT</b>	<b>CURR_OPERA</b>	<b>ADDRESS</b>
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S22-T27S-R19E	SW	<b>J.J. Holding</b>	RR 4, BOX 228, CHANUTE, KS 66720
S22-T27S-R19E	SW NE NW NW	<b>King Energy Co.</b>	2 TIMBER DR, IOLA, KS 66749
S22-T27S-R19E	NE SW NE NW	<b>King Energy Co.</b>	2 TIMBER DR, IOLA, KS 66749
S15-T27S-R19E	SE SW	<b>Petrik Oil</b>	5160 HARVARD DR, BARTLESVILLE, OK 74006
S15-T27S-R19E	SW SE SW	<b>Petrik Oil</b>	5160 HARVARD DR, BARTLESVILLE, OK 74006

**REINHARDT, EUGENE E 21-1**

**15-27S-19E**

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**tract in NW/c NE4 NE4**

**supposed owners - gap in chain**  
Bobbie F. Oliphant & Karrie M. Perkins  
2410 E 101st ST N  
Valley Center, KS 67147

**tract in S2 SE4**

Eugene E. & S A Reinhardt  
11695 K-39 Hwy  
Chanute, KS 66720

**22-27S-19E**

**N2 NW4**

Linda Sue Sjogren & James M. Stevens  
335 N 127th St E  
Wichita, KS 67206

**S2 NW4**

Michael & Barbara A Watts  
21350 Jackson Rd  
Chanute, KS 66720

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

February 25, 2013

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

RE: Approved Commingling CO021304  
Reinhardt, Eugene E. 21-1, Sec. 21-T27S-R19E, Neosho County  
API No. 15-133-27127-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on February 11, 2013, 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 Bartlesville 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 CO021304 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