



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		Click here to run SSP 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 ⁺	(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 ⁺ (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	1920.00	1948.00	2040.23	-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	45632.00	43147.00	44388.44	-3.19	-3.18	0.00	
20	SO ₄ ²⁻	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate			
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 _i measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)			
		0-CO ₂ +Alk, 1-pH+Alk, 2-CO ₂ +pH							Calcite	NTMP		
35	Choose one option to calculate SI?		0	0	0	0	0					
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)		pH	
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 ⁺ (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 Cacluated	(mg/l) as HCO ₃										
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 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

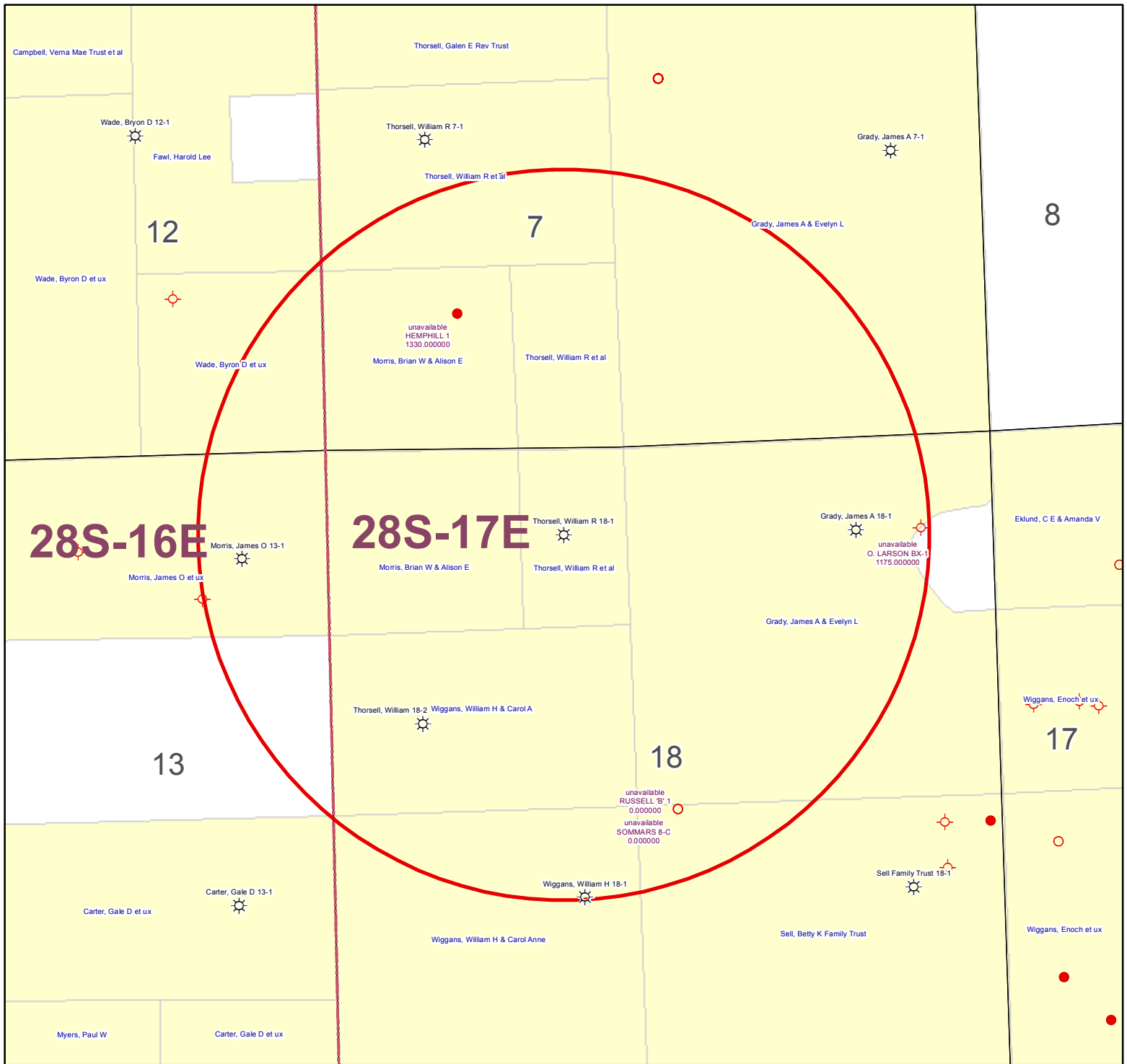
Component (mg/L)	Ratio					Mixed Brine
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632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



KGS STATUS

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

Thorsell, William R 18-1
 18-28S-17E
 1" = 1,000'

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

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, LLC
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>5/30/06</u>	<u>5/31/06</u>	<u>6/9/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26583-00-00
County: Wilson
_____ w/2 - ne - nw Sec. 18 Twp. 28 S. R. 17 East West
660 feet from S / N (circle one) Line of Section
1750 feet from E / NW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Thorsell, William R. Well #: 18-1
Field Name: Cherokee Basin CBM
Producing Formation: Multiple
Elevation: Ground: 1070 Kelly Bushing: n/a
Total Depth: 1309 Plug Back Total Depth: 1304.72
Amount of Surface Pipe Set and Cemented at 23 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1304.72
feet depth to surface w/ 135 sx cmt.
ALT-2-Dg-11-25-08

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: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____
RECEIVED
KANSAS CORPORATION COMMISSION
SEP 27 2006
CONSERVATION DIVISION
WICHITA, KS

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: 9/26/06
Subscribed and sworn to before me this 26 day of September,
2006.
Notary Public: Denise V. Vennemman
Date Commission Expires: 7-1-08

DENISE V. VENNEMAN
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 7-1-08

KCC Office Use ONLY
N Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Quest Cherokee, LLC Lease Name: Thorsell, William R. Well #: 18-1
 Sec. 18 Twp. 28 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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Dual Induction Log
 Compensated Density/Neutron Log
 Gamma Ray CCL

Log Formation (Top), Depth and Datum 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	23	"A"	4	
Production	6-3/4	4-1/2	10.5#	1304.72	"A"	135	

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 Of 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	1235-1237/1190-1192/1053-1055	400gal 15% HCl /w/ 65 bbls 2% KCl water, 601bbls water w/ 2% KCl , Blockade, 9500# 20/40 sand	1235-1237/1190-1192 1053-1055
4	848-852/835-839	400gal 15% HCl /w/ 65 bbls 2% KCl water, 626bbls water w/ 2% KCl , Blockade, 13700# 20/40 sand	848-852/835-839

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1270	n/a	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
8/28/06	<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	n/a	0mcf	38.5bbls	

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

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

134

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

Date: 05/31/06
Lease: Thorsell, William R.
County: Wilson
Well#: 1B-1
API#: 15-205-26583-00-00

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
0-5	Overburden	751-752	Coal Streaks
5-23	Lime	752-780	Lime
23-105	Shale	780-782	Black Shale
105-130	Lime	782-783	Coal Streaks
130-220	Shale	783-789	Shale
220-289	Lime	789-810	Sandy Shale
289-330	Shale	810-828	Lime
330-356	Lime and Shale	828-835	Black Shale
356-430	Lime	835-845	Lime
430-435	Shale	845-848	Black Shale
435-439	Lime	848-849	Coal
439-480	Sandy Shale	849-910	Shale
480-484	Lime	858	Gas Test 4" at 1/4" Choke
484-489	Shale with Lime streaks	910-960	Sandy Shale
489-545	Lime	960-1014	Water and Sand
545-568	Sandy Shale	1014-1015	Coal
568-569	Coal Streaks	1015-1024	Lime
569-588	Black Shale	1024-1050	Sand
588-628	Shale	1050-1057	Shale
628-674	Sandy Shale	1057-1058	Coal
674-687	Lime Streaks	1058-1090	Shale
687-708	Shale	1090-1160	Sandy Shale
708-709	Coal Streaks		To Much Water For Gas Test
709-751	Sandy Shale	1160-1180	Water and Sand

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SEP 27 2006

CONSERVATION DIVISION
WICHITA, KS

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: 05/31/06
Lease: Thorsell, William R.
County: Wilson
Well#: 18-1
API#: 15-205-26583-00-00

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
1180-1182	Coal		
1182-1188	Shale		
1188-1189	Coal		
1189-1231	Shale		
1231-1232	Coal		
1232-1241	Shale		
1241-1309	Mississippi Lime		
1309	To Much Water For Gas Test		
1309	TD		
	Surface 23'		

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SEP 27 2006
CONSERVATION DIVISION
WICHITA, KS

QUEST

Resource Corporation

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

TICKET NUMBER **1548**

FIELD TICKET REF # _____

FOREMAN Craig / Joe

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
June 7 2006	Throckell, William R. 13-1	13	28	17	Wilson

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe B	7:00			90388			Joe B. [Signature]
Craig G	7:00	11:45		90388			Craig G. [Signature]
Tim A.	8:30		5:00	903055			Tim A. [Signature]
Robert W.	7:00			903103			Robert W. [Signature]
David C	7:00			903139	932452		David C. [Signature]
Larry M	7:00			931420			Larry M. [Signature]
Russell A	6:30	✓	5:00	extra			Russell A. [Signature]

JOB TYPE longstring HOLE SIZE 6 9/16 HOLE DEPTH 1309 CASING SIZE & WEIGHT 4 1/2" x 10.5
 CASING DEPTH 1304.7 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
 DISPLACEMENT 20.80 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.2 bpm

REMARKS:

Ran 2 sks premix gel swept to surface. Installed cement head Ran 2 sks gel & 12 hbl dye & 135 SKS of cement to surface. Flush pump. Pump wiper plug to bottom of set float shoe.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
	1304.72	FT 4 1/2 casing	
	6	centralizers	
931200	2 hr	casing tractor	
932900	2 hr	casing trailer	
	1	4 1/2 casing clamp	
902398	4.75 hr	Foreman Pickup	
902255	5.25 hr	Cement Pump Truck	
703	4.75 hr	Bulk Truck	
1104	127 SK	Portland Cement	
1124	1	50/50 POZ-Blend Cement <u>Baffles 3"</u>	
1126	1	OWC-Blend Cement <u>wiper plug 4 1/2"</u>	
1110	14 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	4 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate <u>Calc hydroxide</u>	
1123	7000 gals	City Water	
902139	4.75 hr	Transport Truck	
932452	4.75 hr	Transport Trailer	
931420	4.75 hr	80 Vac	
Ravin 4513	1	4 1/2 float shoe	

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SEP 27 2006
 CONSERVATION DIVISION
 WICHITA, KS

WELL : Thorsell, William R 18-1
 FIELD : Cherokee Basin
 STATE : Kansas
 COUNTY : Wilson

SPUD DATE : 5-30-2006
 COMP. Date : 6-9-2006
 API: 15-205-26583-00-00

LOCATION: 18-28S-17E (NE,NW)
 ELEVATION: 1070'

8 5/8" 20 lb @ 23' Cement w/4 sks

2 3/8" tubing @ 1270'

4.5" 10.5 lb @ 1304' Cement w/135 sks

PBTD @ 1304'

Drilled Depth @ 1309'

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	23'
4 1/2"	10.5 lb		.0159	2006	1304'
2 3/8"				2006	1270'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1
800 gals 15% HCL
1,227 bbls water
23,200 lbs 20/40 sand

Perforations

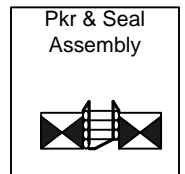
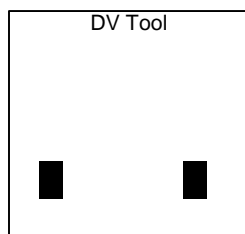
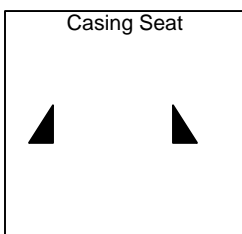
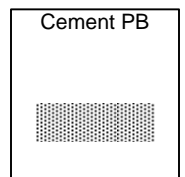
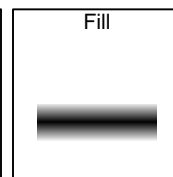
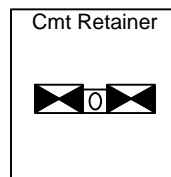
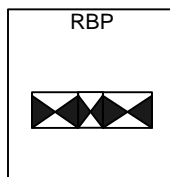
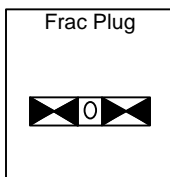
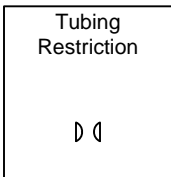
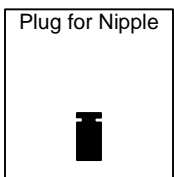
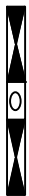
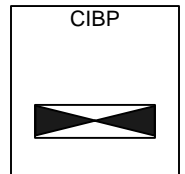
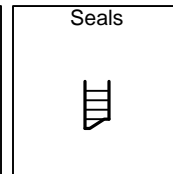
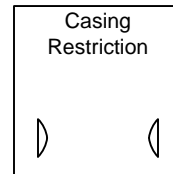
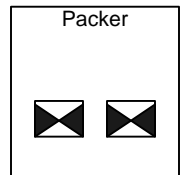
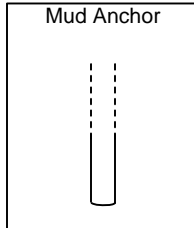
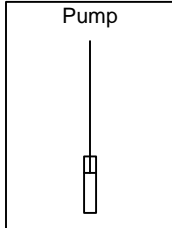
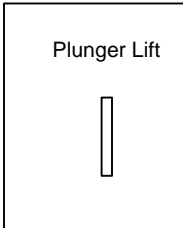
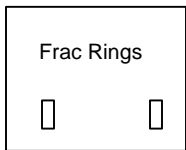
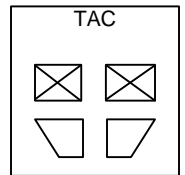
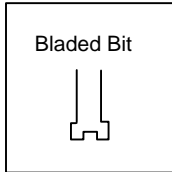
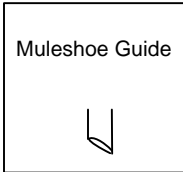
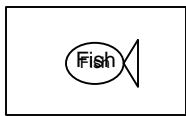
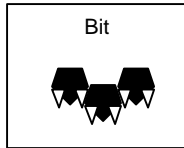
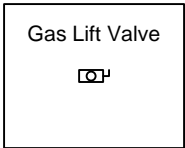
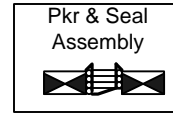
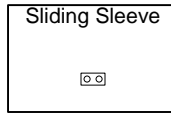
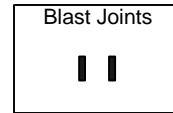
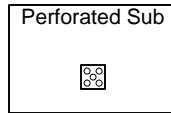
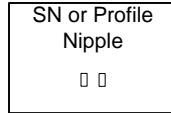
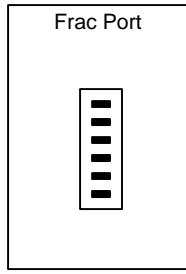
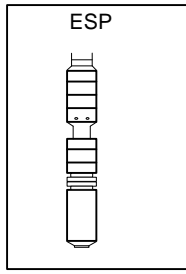
Original Completion: 4 spf
835-839 Summit (17)
848-852 Mulky (17)
1053-1055 Tebo (9)
1190-1192 Neutral (9)
1235-1237 Riverton (9)

POSTROCK



LEGEND

PostRock®



AFFIDAVIT

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, depose 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 (3227051)
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 Thorsell, William R 18-1 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, Tebo, Neutral, Riverton and Cattleman producing formations at the Thorsell, William R 18-1, located in the W2 NE NW, S18-T28S-R17E, Approximately 628 FNL & 1707 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 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

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 21st day of January, 2013

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, \$ 37⁷³

(Signed) Joseph S. Relph

Subscribed and sworn to before me, this 22nd day of January, 2013

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

(Published in the Wilson County Citizen on Monday, January 21, 2013.)

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

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Postrock Midcontinent Production, LLC
210 Park Avenue, Suite 2750
Oklahoma City, Oklahoma 73102
(405) 660-7704
97 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 18-1 Legal Location: W2NENW S18-T28S-R17E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 8th 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 WILSON COUNTY CITIZEN, the official county publication of WILSON county. A copy of the affidavit of this publication is attached.

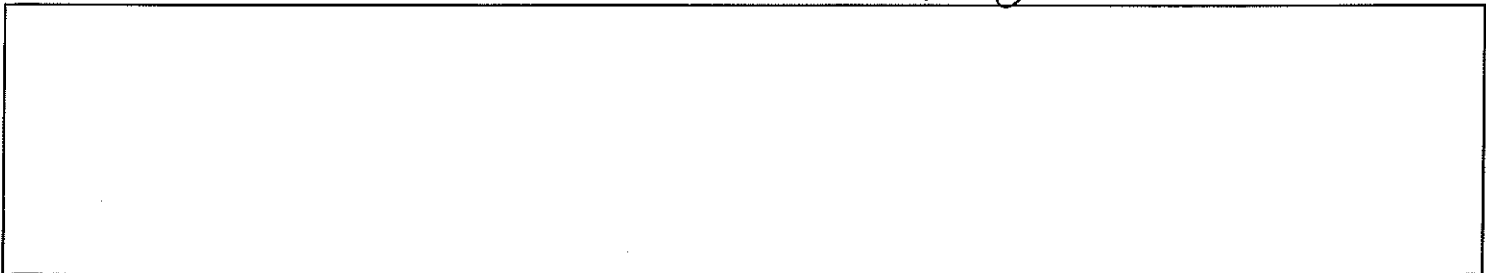
Signed this 8th day of FEBRUARY, 2013

[Signature]
Applicant or Duly Authorized Agent

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



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



THORSELL, WILLIAM R 18-1

13-28S-16E

S2 NE4

Max Robert Travis Jr and Helen Irene Travis
21903 1300 RD
Chanute, KS 66720

18-28S-17E

Tract in NE/4

William H. & Carol A. Wiggins Living Trst
16633 Udall Rd
Altoona, KS 66710

Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

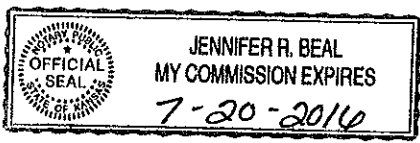
SEE ATTACHED

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

[Handwritten Signature]

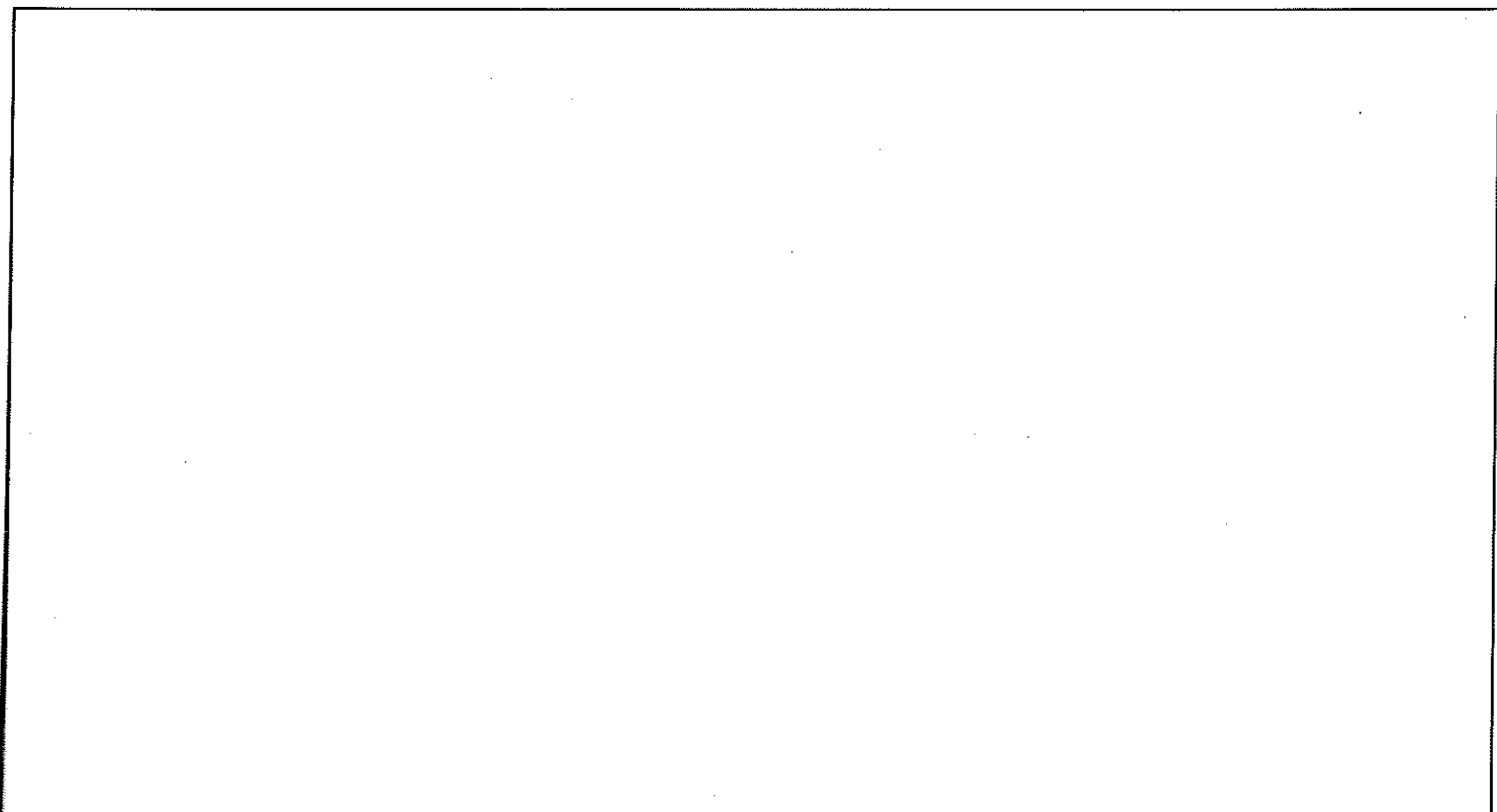
Applicant or Duly Authorized Agent

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



Jennifer R. Beal
Notary Public

My Commission Expires: *July 20, 2016*



THORSELL, WILLIAM R 18-1

13-28S-16E

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16633 Udall Rd
Altoona, KS 66710

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 CO021310
Thorsell, William R. 18-1, Sec. 18-T28S-R17E, Wilson County
API No. 15-205-26583-00-00

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 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 CO021310 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