



KANSAS CORPORATION COMMISSION 1097674  
OIL & GAS CONSERVATION DIVISION

Form ACO-4  
Form must be typed  
March 2009

APPLICATION FOR COMMINGLING OF *Commingling ID #* **CO111209**  
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 - 15-133-27075-00-00  
Spot Description: \_\_\_\_\_  
NE NE SW SE Sec. 18 Twp. 27 S. R. 19  East  West  
1001 Feet from  North /  South Line of Section  
1495 Feet from  East /  West Line of Section  
County: Neosho  
Lease Name: MIH, A.D. Well #: 18-1

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: SUMMIT (Perfs): 544-548  
Formation: MULKY (Perfs): 558-562  
Formation: CROWEBURG (Perfs): 645-648  
Formation: FLEMING (Perfs): 681-683  
Formation: WEIR (Perfs): 783-785

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: SUMMIT BOPD: 0 MCFPD: 3.5 BWPD: 6.66  
Formation: MULKY BOPD: 0 MCFPD: 3.5 BWPD: 6.66  
Formation: CROWEBURG BOPD: 0 MCFPD: 3.5 BWPD: 6.66  
Formation: FLEMING BOPD: 0 MCFPD: 3.5 BWPD: 6.66  
Formation: WEIR BOPD: 0 MCFPD: 3.5 BWPD: 6.66

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

<b>KCC Office Use Only</b>	
<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved
15-Day Periods Ends: <u>11/27/2012</u>	
Approved By: <u>Rick Hestermann</u>	Date: <u>11/27/2012</u>

*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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixed brine:			Click	
4	Sample ID	by checking						Cell H2S 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				
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines			Click	
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)		
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index values:		SI/SR (Final-Initial)	
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	Str <sup>2+</sup>	(mg/l)						0.00	Barite			
15	Ba <sup>2+</sup>	(mg/l)						0.00	Halite			
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	-1.77	-1.80	-0.03	
17	Zn <sup>2+</sup>	(mg/l)						0.00	Gypsum			
18	Pb <sup>2+</sup>	(mg/l)						0.00	Hemihydrate			
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	Anhydrite			
21	K <sup>+</sup>	(mg/l)						0.00	-3.96	-3.90	0.06	
22	Br <sup>-</sup>	(mg/l)						0.00	Celestite			
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	Iron Sulfide			
25	CO <sub>3</sub> Alkalinity	(mg/l as CO <sub>3</sub> )						0.00	Zinc Sulfide			
26	Carboxylic acids**	(mg/l)						0.00	Calcium fluoride			
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	Iron Carbonate			
29	TDS (Measured)	(mg/l)						72781	Calcite			
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Barite			
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16	BHPMP			
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	HDTMP			
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, 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,							Calcite	NTMP		
		1-pH+Alk,										
36	Gas/day(Thousand cf/day)	(Mcf/D)	0	0	0	0	0	0	0.00	0.00		
37	Oil/Day	(B/D)	0	0	1	1	1	4	Barite			
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 <sup>+</sup> (Strong acid) <sup>1</sup>	(N)										
51	OH <sup>-</sup> (Strong base) <sup>1</sup>	(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 Calculated	(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 ScaleSoftPittr			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					
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	Mixed Brine
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

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

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

**CONFIDENTIAL**

1/30/08

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  
License: 33837  
Wellsite Geologist: Ken Recco

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JAN 30 2008

**KCC**

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>10-11-07</u>	<u>10-13-07</u>	<u>10-15-07</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-133-27075-0000  
County: Neosho  
SW SE Sec. 18 Twp. 27 S. R. 19  East  West  
770 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: Mih, A.D. Well #: 18-1

Field Name: Cherokee Basin CBM  
Producing Formation: Multiple  
Elevation: Ground: 973 Kelly Bushing: n/a  
Total Depth: 1072 Plug Back Total Depth: 1063  
Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: 1063  
feet depth to surface w/ 150 sx cmt.

Drilling Fluid Management Plan AH JN 16 509  
(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: 1/30/08  
Subscribed and sworn to before me this 30<sup>th</sup> day of January,  
20 08.  
Notary Public: Terra Klauman  
Date Commission 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  
**FEB 04 2008**

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

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: **Quest Petroleum LLC** Lease Name: **Mih, A.D.** Well #: **18-1**  
 Sec. 18 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 (Attach Additional Sheets) 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 (Submit Copy) 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
---	--

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	20	"A"	5	
Production	6-3/4	4-1/2	10.5	1063	"A"	150	

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				

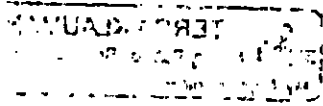
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	935-938	300gal 15% HCL w/ 40lbs 2% acid water, 440lbs water w/ 2% KCL, Blocks, 4000# 20/40 sand	935-938
4	783-785/681-683/645-648	400gal 15% HCL w/ 40lbs 2% acid water, 540lbs water w/ 2% KCL, Blocks, 4000# 20/40 sand	783-785/681-683 645-648
4	558-562/544-548	300gal 15% HCL w/ 40lbs 2% acid water, 640lbs water w/ 2% KCL, Blocks, 6700# 20/40 sand	558-562/544-548

TUBING RECORD		Size 2-3/8"	Set At 965.70	Packer At n/a	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 11-15-07		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. n/a	Gas Mcf 0.0 mcf	Water Bbls. 0.0 bbls	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 2506

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

FOREMAN Joe

**CONFIDENTIAL**

JAN 30 2008

### TREATMENT REPORT & FIELD TICKET CEMENT

623290

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-15-07	Mih AD. 18-1	18	27	19	N0

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe	10:00	1:30		903427		3.5	Joe Blanchard
MAVERICK	↓	↓		903197			120
Tyler	↓	↓		903600			Tyler Shelton
Tim	↓	↓		903140	932452		Tim
Daniel	↓	↓		931420			Daniel S. B.

JOB TYPE long string HOLE SIZE 6 3/4 HOLE DEPTH 1072 CASING SIZE & WEIGHT 4 1/2 10.5  
 CASING DEPTH 1063.54 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 0  
 DISPLACEMENT 16.96 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS:

Installed cement head Ran 2 SKS gel of 11 bbl dye of 1 SK gel of 150 SKS of cement to set dye to surface. Flush pump. Pump pump plug to bottom of set float shoe

1063.54	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
902427	3.5 hr	Foreman Pickup	
903197	↓ hr	Cement Pump Truck	
903600	↓ hr	Bulk Truck	
1104	140 SK	Portland Cement	
1124		50/50 POZ Blend Cement	
1126	1	OVC - Blend Cement - 4 1/2 wiper plug	
1110	15 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	6 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate - Catcher	
1123	7000 gal	City Water	
903140	3.5 hr	Transport Truck	
932452	↓ hr	Transport Trailer	
931420	↓ hr	80 Vac	

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CONSERVATION DIVISION  
WASH DC

**Mih, A.D. 18-1**  
**15-133-27075-0000**

Pawnee LS / Pink	447-483
Oswego Coal	522-523
Oswego Limestone	523-543
Mineral Coal	695-697
Tebo Coal	730-732

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**FEB 04 2008**

**CONSERVATION DIVISION**  
**WICHITA, KS**





POSTROCK



Current Completion

WELL : Mih, A. D. 18-1  
FIELD : Cherokee Basin  
STATE : Kansas  
COUNTY : Neosho

SPUD DATE : 10/11/2007  
COMP. Date : 10/15/2007  
API: 15-133-27075-00-00

LOCATION: 18-27S-19E (SW,SE)  
ELEVATION: 973'

8 5/8" 22 lb @ 20' 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"	22 lb			2007	20'
4 1/2"	10.5 lb		.0159	2007	1063'
2 3/8"				2007	965'

Downhole Equipment Detail


Completion Data

Original as GAS Well per ACO-1
1,000 gals 15% HCL
1,638 bbbls water
15,700 lbs 20/40 sand

Perforations

Original Completion: 4 spf
544-548 Summit (17)
558-562 Mulky (17)
645-648 Croweburg (13)
681-683 Fleming (9)
783-785 Weir (9)
935-938 Riverton (13)

2 3/8" tubing @ 965'

4.5" 10.5 lb @ 1063' Cement w/150 sks

PBTD @ 1063'

Drilled Depth @ 1072'

PREPARED BY: POSTROCK  
APPROVED BY: \_\_\_\_\_

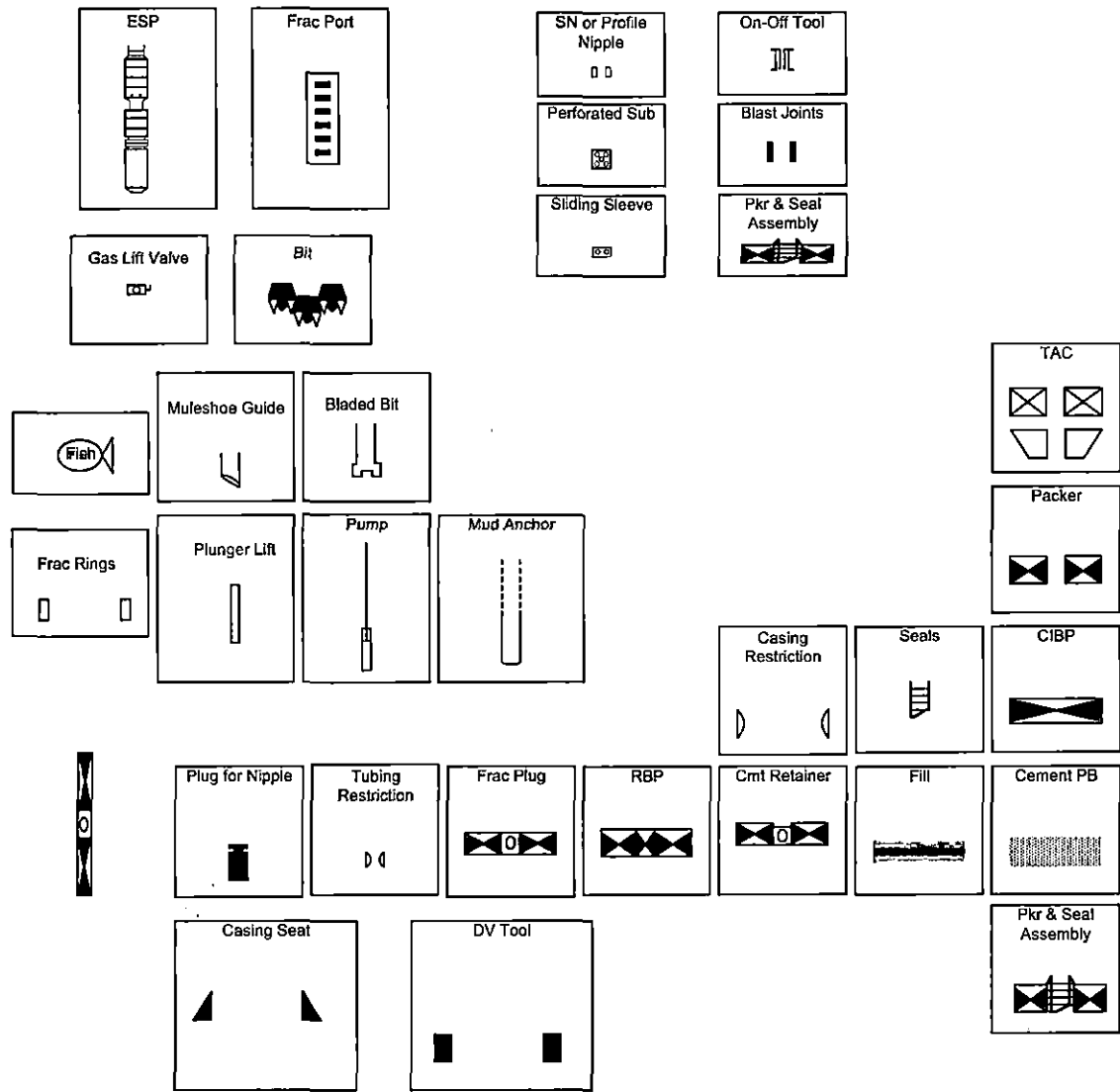
DATE: Oct, 2012  
DATE: \_\_\_\_\_

# POSTROCK



## LEGEND

PostRock





**Affidavit of Notice Served**

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

Well Name: MIH, AD 18-1 Legal Location: NENESWSE S18-T27S-R19E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 12<sup>th</sup> 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)
L & M, INC	1606 PAUL ST, APT A, PARKERSBURG, WV 26101
PLANT OIL COMPANY	PO BOX 301, CHANUTE, KS 66720
TOSHIC DYNAMICS LLC	8226 E HIGHLAND AVE, SCOTTSDALE, AZ 85251
SEE ATTACHED	

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

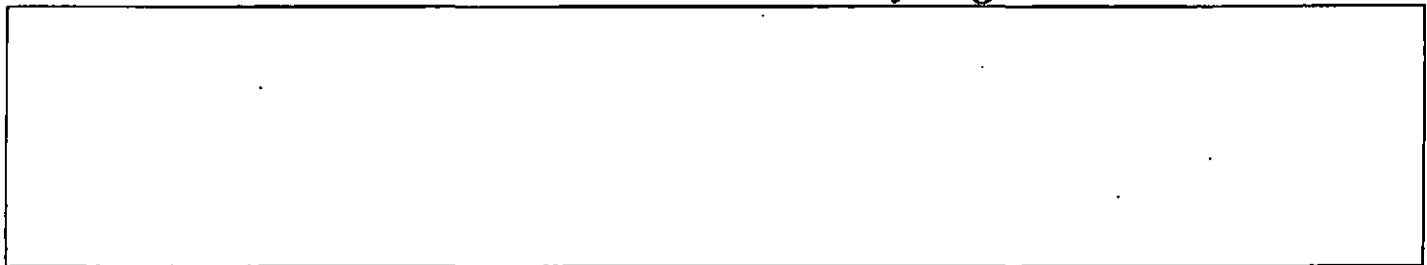
Signed this 12<sup>th</sup> day of NOVEMBER, 2012

Jerry Morris  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 12<sup>th</sup> day of NOVEMBER, 2012



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



**MIH, AD 18-1**

**18-27S-19E**

**NW4 less**      KW Oil Service  
19450 Ford Rd  
Chanute, KS 66720

**Tract in SE4**    Arthur Jr & Connie Lester  
2690 130th Rd  
Chanute, KS 66720

**19-27S-19E**

**NE4 less**      Michael & Barbara A Watts  
21350 Jackson Rd  
Chanute, KS 66720

**Tract in NE4**    Charles & Beverly Hole  
9715 220th Rd  
Chanute, KS 66720

**NW4 less**      Kynta Lou Leonard  
PO Box 309  
Cripple Creek, CO 80813

**tract in NW**    Matthew & Jennifer Richard  
20155 Harper Rd  
Chanute, KS 66720



**MIH, AD 18-1**

<b>LEGAL LOCATION</b>	<b>SPOT</b>	<b>CURR_OPERA</b>
S20-T27S-R19E	NW NW NW NW	L & M, Inc.
S20-T27S-R19E	NW SW NW NW	L & M, Inc.
S20-T27S-R19E	SE NW NW NW	L & M, Inc.
S18-T27S-R19E	SE SE SE	Plant Oil Company
S18-T27S-R19E		Plant Oil Company
S18-T27S-R19E	SW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	NW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	NW NW SE	Toshic Dynamics, LLC
S18-T27S-R19E	W2 E2 SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE NW SE	Toshic Dynamics, LLC
S18-T27S-R19E	NE NW SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE SW SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE NW SE	Toshic Dynamics, LLC
S18-T27S-R19E	SW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	NW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	SW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	NW SE SE	Toshic Dynamics, LLC
S18-T27S-R19E	SE NW SE	Toshic Dynamics, LLC
S18-T27S-R19E	NE NW SE	Toshic Dynamics, LLC

*MIH, AD 18-1*

**18-27S-19E**

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PO Box 309  
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trct in NW      Matthew & Jennifer Richard  
20155 Harper Rd  
Chanute, KS 66720



**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 9th of

November A.D. 2012, with

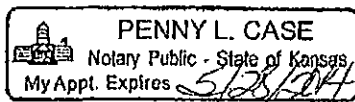
subsequent publications being made on the following dates:

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 (321688)  
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 MWh, A  
D-18-1, located in Neosho 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, Mulky, Crowburg, Fleming, Welr,  
Riverton and Bartlesville producing formations  
of the MWh, A D-18-1, located in the NE NE SW  
SE, S18-T27S-R19E, Approximately 1001 FSL &  
1495 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) 610-7704

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 Mlh, A D 18-1 located in Neosho 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, Mutky, Croweburg, Fleming, Weir, Riverton and Bartlesville producing formations at the Mlh, A D 18-1, located in the NE NE SW SE, S18-T27S-R19E, Approximately 1001 FSL & 1495 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

A COPY OF THE AFFIDAVIT OF PUBLICATION MUST ACCOMPANY 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 uninterruptedly 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 newspaper for 1 consecutive time, the first publication thereof being made as aforesaid on the 7 day of November 2012, with subsequent publications being made on the following dates:

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

Rhonda Howerter

Subscribed and sworn to and before me this 7 day of November, 2012

[Signature]  
Notary Public

My commission expires: January 9, 2015  
Printer's Fee ..... \$ 70.14  
Affidavit, Notary's Fee ..... \$ 3.00  
Additional Copies ..... \$ \_\_\_\_\_  
Total Publication Fees ..... \$ 73.14

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

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

November 27, 2012

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

RE: Approved Commingling CO111209  
Mih, A.D. 18-1 Sec. 18-T27S-R19E, Neosho County  
API No. 15-133-27075-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on November 19, 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 CO111209 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