KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See Instruct	ions on Reve	erse Side	?)					
✓ Open Flow Deliverabilty				Test Date: 12/13/2013					No. 15 -21302-000	0				
Company MIDCO Exploration, Inc.					Lease SHAW						#1-4	Well Number #1-4		
County Location CLARK SE/4				Section 4		TWP 34S		RNG (E/W) 23W			Acres Attributed			
Field BIG SAND CREEK				Reservoir CHEST		010		Gas Gathering Conf		ection				
Completion Date 7/28/2005				Plug Bac 5642	h		Packer S							
Casing Size Weight 4.5 10.5				Internal D	Diameter	Set at 5693		Perforations 5482		To E450	To 5458			
Tubing Size			Weight			Internal Diameter			Perforations		70 To			
2.375 4.7 Type Completion (Describe)				···· <u>·</u>	1.995 Type Flui	d Production	5418		Pump Unit or Travel		Plunger? Yes	/ 'No		
SINGLE	<u> </u>				COND	ENSATE								
Producing Thru (Annulus / Tubing) TUBING				% Carbon Dioxide				% Nitrog	en	.711				
Vertical Depth(H) 5455					Pressure Taps FLANGE				(Meter Run) (Prover) Size 2"					
Pressure Buildup:			Shut in <u>12</u> /		13 _{at} 1	0:00	(AM) (PM) 1	vi) (PM) Taken <u>1</u>		12/13 20 13		at 10:00 (AM) (B		
Well on L	ine:	;	Started _12/	<u>′13</u> 2	0 _13at _1	0:00	(AM) (PM) 1	aken		20	at	(AN	/I) (РМ)	
				,		OBSERVE	D SURFACE	DATA	,		Duration of Shut-	_{in} 24	Hours	
Static / Oynamic Property	Dynamic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		(P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Ouration (Hours)		roduced rels)	
Shut-In			Poig (:)	11,010,00 11,20			240	psia	psig	psia .	•			
Flow														
1	-				- 1	FLOW STR	EAM ATTRIE	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh	Extension Fact		Flowing femperature Factor F ₁₁	Deviation Factor F _{pv}		Metered Flow Fl (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
(P)² =		•	(P _w) ² =_	:	(OPEN FLO	• •	ERABILITY)	CALCUL - 14.4) +		5	(P _a) (P _d)	² = 0.207 ² =		
$(P_c)^2 = $		(P _c) ² - (P _x) ²		1. P _c ² - P _c ² 2. P _c ² - P _c ²	LOG of formula 1, or 2.		Backpressure Curv Slope = "n"		e n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog		
(- 0 - (-	۵,		d	vided by: $P_c^2 - P_w$	and divide by:	P. 2 - P. 2	Standar					(M)	cfd)	
Open Flor		Mcfd @ 14.65 psia					Deliverability			Mcfd @ 14.65 psia				
		nec	authority, on	behalf of the	Company, s	tates that h	e is duly autl	horized t	o make th	ne above repo	rt and that he ha	s knowled	ige of	
the facts s	tated the	erei	n, and that sai	d report is tru	e and correc	t. Executed	this the 2	7th_	day of	December	•	, 20	13	
			Witness (if	any)	K(CC WI	CHITA		MIDO	EXPLOR	ATION, IN	c.		
			For Commit			AN 0 2	2014 -				cked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator MIDCO EXPLORATION, INC. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the SHAW #1-4 gas well on the grounds that said well:
(Check one) is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 12/27/2013
Signature: Dello Signature: Title: Earl J. Joyce, Jr., Vice-President

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.