KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Character ...

Type Test	:				6	See Instruct	ions on Re	verse Side)					
Open Flow					Test Date: API No. 15									
De	liverabi	lty								23702 - 00	S-00			
Company M & M E		ition	, inc.		·	Lease Z Bar				20-14	Well Number 20-14			
County Location Barber 910 FSL 1480 FWL					Section 20		TWP 34			NG (E/W) 4W		Acres Attributed 160		
Field Aetna Gas					Reservoir Mississi			Gas Gathering Co ONEOK		•	ection RECEIV			
Completion Date 8/20/2011						k Total Dept	h	Packer Set at None		et at			OCT 18	
Casing Si 4.5				Internal E	Diameter	-	Set at		ations	To 4780'	RECEIVE OCT 1 8 2 KCC WICH			
Tubing Si					Internal C	Diameter	Set at		4720 Perfor	ations	To		VVICE	
2.375				1.995			4715'							
Type Con Single () (De	escribe)			d Production ter/Crude			Pump Un Pump	it or Traveling Unit	Plunger? Yes	/ No		
•	-	(Ann	nutus / Tubing)			arbon Dioxi	de	•			Gas Gravity - G			
Annulus					0.0612			1.6331			0.6295 (Meter Run) (Prover) Size			
Vertical D	rehπ)(H	1				ries:	sure Taps				(INIEREL)	iuii) (Fl	over) Size	
Pressure	Buildur	p: \$	Shut in Aug.	21 20	12 at 2	:00	(AM) (PM)	Taken A	ug. 22	20	12 at 2:00	(/	AM) (PM)	
Well on L	ine:	;	Started	20) at		(AM) (PM)	Taken		20	at	(,	AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in	Hours	
Static / Dynamic	Orific Size	ze Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Tubing Wetlhead Pressure (P _w) or (P ₁) or (P _c)		Ouration (Hours)	Liquid Produced (Barrels)		
Property	(inche			Inches H ₂ 0			psig	psia	psig	psia				
Shut-In							160	174.4						
Flow						FLOW STR	EAN ATT	DIDITES				<u> </u>		
Plate	Т		Circle one:				Flowing	AIBOTES		 			Flowing	
Coeffiecient		Meter or Prover Pressure		Press Extension	Grav Faci	tor	Temperature	nperature Factor		Metered Flow	GOR (Cubic Feet/		Fluid	
(F _b) (F _p) Mcfd		psia		✓ P _m xh	F	,	Factor F _{ft}	F	pv	(Mcfd)	Barrel)		Gravity G _m	
.,										·				
(5.)2			45 30		•	OW) (DELIV		•				² = 0.20	07	
(P _c) ² =		_:_	$(P_{w})^{2} = $ $Choose formula 1 or 2:$		P _d =%		T			· · · · · · · · · · · · · · · · · · ·	(P _d)	'= <u> </u>		
		(P _c) ² - (P _w) ²		1. P _c - P _a ²	LOG of formula		Backpressure Curve Slope = "n"		n x LOG		Antilog	Open Flow Defiverability		
$(P_c)^2 - (P_d)^2$				2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_w^2$			P _c ² -P _w ² A				, unitog	1 -	Equals R x Antilog (Mcfd)	
			·	was by. 1 g " w	+									
Open Flow Mcfd @ 14.					65 psia		Delivera	Deliverability			Mcfd @ 14.65 psia			
		-					-	uthorized t	o make th	e above repo	ort and that he ha		- -	
he facts s	tated th	nerei	n, and that said	report is true	and correc	t. Executed	this the	វវោ	day of	e above repo		, 2	20 12	
			120						anc	u w	₹			
			Witness (if an	1 y)						For	Company			
• • • • • • • • • • • • • • • • • • • •			F C								_l			

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OCT 1 8 2012

KCC MICHTA
KCC WICHITA 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 M&M 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 Z Bar 20-14
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
✓ is not capable of producing at a daily rate in excess of 250 mcf/D
· · · · · · · · · · · · · · · · · · ·
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.
Data October 9, 2012
Date: October 9, 2012
Signature: Ancunt
Title: President
TING.

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.