KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Side)					
Open Flow												_		
Deliverability						Test Date: 4/21/2011				^{No. 15} 7-22470 →	-1000)		
Company		a Oi	perating, Ir	nc.		Lease Morrow A				Well Number 2-6				
					Section				RNG (E/	W)		Acres Attributed		
Barber 330 FNL & 2000 FEL			6	6 358			13W							
Field Aetna					Reservoir Mississ			Oneok	nering Conn Energy Serv					
3/11/95				Plug Bac 5475				Packer Set at None						
Casing S 5 1/2			Weigh		Internal [5.012	Internal Diameter 5.012		Set at 5521		rations 3	то 4854			
Tubing Size 2.375			Weigh		Internal Diamete 1.995		Set at 4957		Perforations		То	111		
Type Completion (Describe) Single Gas					Type Flui Water	Type Fluid Production Water				Pump Unit or Traveling Plunger? Yes / No Pump Unit				
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxide				en	Gas G	avity - G		
Annulus														
Vertical D	epth(F	1)				Pres	sure Taps				(Meter	Run) (Prover) Size		
Pressure Buildup:			Shut in 4/21 20		0 11 at 1	11 at 10		(AM) (PM) Taken 4/2		20	11 at 10	(AM) (PM)		
Well on L	ine:		Started	2	0 at	· · · · · · · · · · · · · · · · · · ·	(AM) (PM)	Taken	a	20	at	(AM) (PM)		
						OBSERVE	D SURFAC	E DATA			Duration of Shut	-in <u>24</u> Hou		
Static / Orifice Dynamic Size Property (inches		0	Circle one: Meter Prover Pressu	- 1	Flowing Temperature t	Well Head Temperature t	l Weilhead Pressure		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		psig (Pm)	Inches H ₂ 0			psig 59	psia 73.4	psig O	psia 14.4	24			
Flow														
L			<u> </u>	!		FLOW STR	EAM ATTR	IBUTES	L					
Plate			Circle one:	Press	Grav	Gravity		Davi	ation	Metered Flov	, GOR	Flowing		
Coeffieclent (F _p) (F _p)		Meter or Prover Pressure		Extension	Fac	Factor		Temperature Fo		A H	(Cubic Fo	Gravity		
Mcfd			psia	Pmxh	F,	ı	F _{ii}	F	pv (Mcfd)		Barrel)	G _m		
L			,		(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS			2 0007		
(P _e) ² =		_:	(P _*) ² =	<u> </u>	P _d =			- P _c - 14.4) +		:		² = 0.207 ² =		
				Choose formula 1 or 2	_	$\overline{\Gamma}$		ssure Curve		r ¬		Open Flow		
(P _c) ² - (P _a) ² or		$(P_{x})^{2} = C$ $(P_{z})^{2} - (P_{y})^{2}$		1. P _e ² · P _e ²	Idilidia		Slope = "i		nxL	.06	Antilog	Deliverability		
or (P _e)*- (P _d)2					2. P _c ² - P _c ² 1. or 2. and divide by: P _c ² - P _c ² by:		P _c ² - P ₂ ² Assig				•	Equals R x Antilog (Mcfd)		
l				inoso by: 1 c - 1 w			Starre	iara Grapa				1		
<u>-</u>							 		 -					
	l													
Open Flow Mcfd @ 14.65			•					Mcfd @ 14.65 psia						
											rt and that he ha	is knowledge of		
the facts s	tated t	herei	n, and that sa	id report is true	and correc	t. Executed	this the 8	<u>th</u> '	day of Ju	ily		, 20 <u>11</u>		
			Witness (if	any)			-			For	ompany	DEMENTER		
							_				yearry	RECEIVED		
			For Commi	ssion			_			Chec	ked by	SEP 0 6 20		

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 Chesapeake Operating, 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 Morrow A 2-6
gas well on the grounds that said well:
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.
Date: _July 8, 2011
Signature: David Wiist, Production Engineer

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.

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KCC WICHITA