KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: .				6	See Instruc	tions on Reve	erse Side))					
Open Flow				Tot Dele				API No. 15 -023-21062-00-00						
Deliverabilty				Test Date	Test Date:				API No. 15 -023-2 1002-00-00					
					-		1					Mall Ni.s.		
Company		End	ray Mana	gement, LLC	•		Lease HAM				,	Vell Nui 1-1		
County	auon		Locati	-	Section		TWP		RNG (E	ΛΑΛ			ttributed	
CHEYENNE NE-SE-NW-NE				10		28		9W						
Field CHERRY CREEK				Reservoir NIOBRA			Gas Gathering Co Southern Star		•	ection				
Completion Date				Plug Back	Plug Back Total Depth			Packer :	Set at					
09/11/2008 Casing Size Weight			t	Internal D	iameter	Set at		Perforations		То				
7", 4 1/2"			17# 10.5#		6.538, 4.052		166', 1347'		1118'		1157'			
Tubing Size			Weight		Internal Diameter		Set at		Perforations		То			
2 3/8"				4.7#	1.	1.995		1184'						
Type Con	-	n (De	escribe)	-		Type Fluid Production SALTWATER			Pump Unit or Traveling Plunger? Yes / No ROD PUMP					
	SINGLE SALTWATER ROD PUMP Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G _g													
ANNUL	-	ų		,,	,- •				70 111,102	, •		,	ď	
Vertical D		1)	•	<u>-</u>		Pres	sure Taps				(Meter F	lun) (Pr	over) Size	
	- op (.	,					outo tupo					,		
Pressure	Buildu	p: -	Shut in	10/28 2	o 14 at _9	9:30 AM	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on Line: Started 10/29 20 14 at 5:30 PM (AM) (PM) Taken 20 at at							((AM) (PM)						
					•	OBSERVE	D SURFACE	DATA	-		Duration of Shut-i	_n 3	2 Hours	
T		Circle one: Pressure					Casing		Tubing	Data and of order	<u> </u>			
Static / Orifice Dynamic Size			Meter	Differential	Flowing Well Head Temperature Temperature		Wellhead Pressure		Wellhead Pressure		Duration	Liquid Produced		
Property (inches		-	Prover Pressu psig (Pm)	in Inches H ₂ 0	t	t	(P _w) or (P _t) or (P _c)			r (P _t) or (P _c)	(Hours)	(Barrels)		
			paig (i m)				psig	psia	psig	psia	KCC W	100	11/2	
Shut-In							172							
Flow											DEC 1	20	4 	
						FLOW STR	REAM ATTRII	BUTES			REC	EIVE	D	
Plate			Circle one:	Press			Flowing				200		Flowing	
Coefficient (F _b) (F _p) Mcfd			Meter or	Extension	Grav Fact	, ,	Temperature	Deviat Facto	1 7 7 7		w GOR (Cubic Fed	et/	Fluid	
		Pro	ver Pressure psia	√ P _m xh	F		Factor F _{II}		E Bv	(Mcfd)	Barrel)	Gravity G _m		
Wicia	'		P 512		+		' 11	 						
L	•													
,					(OPEN FL	OW) (DELIV	'ERABILITY)			•	(P _a) ²	= 0.2	07	
(P _c) ² =		<u>_:</u> _	(P _w) ² =		P _d ≈		% (P	- 14.4) +	14.4 = _	<u>:</u>	(P _d)	=		
/D 12 //	D 12	/=	I	Choose formula 1 or 2	LOG of	Г٦		sure Curve	,	Γ٦	•	Op	en Flow	
(P _e) ² - (I		(1	' _e)²- (P _w)²	1. P _c ² -P _a ²	formula 1. or 2.			9 = "ñ" D:	n x	LOG	Antilog		verability	
$(P_c)^2 - (1$	P _a) ²			2. P _c ² -P _d ²	and divide	P _c ² -P _w ²		igned					R x Antilog (Mcfd)	
· ·				divided by: Pc2 - P	2 by:		Statica	rd Slope	-					
											•			
Open Flow Mcfd @ 14.65 psia				Deliverabil	Deliverability Mcfd @ 14.65 psia									
		-		n behalf of the				5	o make t		ort and that he ha		ledge of 14 20	
				<u> </u>			_							
			Witness (i	f any)						For	Company '			
-	For Commission							Checked by						

I declare under penalty of perjury under the laws of the state of Kansas to exempt status under Rule K.A.R. 82-3-304 on behalf of the operatorFoundation and that the foregoing pressure information and statements contained on this correct to the best of my knowledge and belief based upon available production of equipment installation and/or upon type of completion or upon use being made I hereby request a one-year exemption from open flow testing for the gas well on the grounds that said well:	s application form are true and summaries and lease records de of the gas well herein named.
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 u is on vacuum at the present time; KCC approval Docket No. is not capable of producing at a daily rate in excess of 250 I further agree to supply to the best of my ability any and all supporting do staff as necessary to corroborate this claim for exemption from testing.	mcf/D
Date:	
UL -NEL	Mathur ons assistant

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.