KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes					(See Instruct	ions on Re	rerse Side	e)					
Open Flow Deliverabilty					Test Date	: :		API No. 15 15-023-21327-00-00						
Company FOUNDATION ENERGY MANAGEMENT, L					LLC		Lease ZWEYG	Lease ZWEYGARDT			Well Number 41-32B			
County Location CHEYENNE SWNENENE				Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed				
Field CHERRY CREEK					Reservoir NIOBRARA						ction KINDER MORGAN			
Completion Date 9/1/2011					Plug Back Total Depth		h	Packer		Set at				
Casing Size 7", 41/2"			Weigh 17#,		Internal Diameter 9-7/8",61/4"		Set at 280', 1623'		Perforations 1422'		то 1460'			
Tubing Size 2-3/8""			Weight 4.7#		Internal Diameter 1.995"		Set at 1469'		Perforations		То			
Type Cor				Type Fluid Production SALTWATER				Pump Unit or Travelin YES		g Plunger? Yes / No				
SINGLE (GAS) Producing Thru (Annulus / Tubing)						arbon Dioxi	de			gen	Gas Gravity - G			
Vertical D		- 1)				Press	sure Taps				(Meter F	Run) (Prover) Size		
			Shua in 3/2	3	14 1	2:30 PM	. -				<u>-</u>			
Pressure Buildup: Shut in 3/26 20 14 at 12:30 PM at 12:30 PM (AM) (PM) Taken 20 at (AM) (PM) Well on Line: Started 3/27 20 14 at 12:30 PM (AM) (PM) Taken 20 at (AM) (PM)														
			otarios									24		
Static /	c / I Orifice I		Circle one: Meter	Pressure Differential	Flowing	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration of Shut-in	Liquid Produced		
Dynamic Property	• 1		Prover Pressure in psig (Pm) Inches H ₂ 0		Temperature Temperature t		(P _w) or (P ₁) or (P _c) psig psia		(P _w) or (P ₁) or (P _c) psig psia		(Hours)	(Barrels)		
Shut-In								88			-			
Flow														
Plate	,		Circla one:	Press			EAM ATTRI			M 15 1 15 15	000	Flowing		
Coeffiecient (F _b) (F _c)		Pro	Meter or ver Pressure	Extension P_x h	Grav Fact	tor T	emperature Factor	Deviation Factor F _{pv}		Metered Flov R (Mcfd)	y GOR (Cubic Fee Barrel)	Gravity		
Mefe	Mcfd		psia				F _{ft}	F _{ti}		(111.2)	32/15/	G _m		
<u> </u>					(OPEN FL	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS	· -	/P \2	= 0.207		
(P _c)² =		_ <u>:</u> _	(P _w)² =	:	P _d =	9	6 (Р	' _c - 14.4) +	14.4 = _	;	(P _a) ²			
(P _e) ² - (P _a) ² or (P _e) ² - (P _d) ²		(P _c) ² - (P _w) ²		1. P _c ² - P _a ²	LOG of formula		Backpressure Cu Slope = "n"		l n x	LOG		Open Flow Deliverability		
(P _c) ² - (P _d) ²			2. P _c ² - P _d ² divided by: P _c ² - P _d		1, or 2. and divide p 2 , p 2		Assigned Standard Slope				Antitog Equals R x Antilog (Mcfd)			
				•										
				- -	1									
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psia	<u> </u>		
		-	•	behalf of the	, .		-			•	rt and that he has	s knowledge of		
						Re	ceived		- , - · · <u>- · · · · · · · · · · · · · · · </u>					
			Witness (il	any)		ANSAS CORPO			_	For C	Сотралу			
For Commission SEP 0 3							U 3 2014)	. Checked 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 Foundation Energy Management, LLC 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 ZWEYGARDT 41-32B
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: 8/29/2014
Signature: Julie: OPERATIONS 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 sidnas the Fereiver's a verified report of annual test results.