Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:				(See Instruc	tions on Re	verse Side	9)			
✓ Open Flo	w			Test Date	_			A DI	No. 15		
Deliveral	bilty			Sept 24					191-20616-0	0001	
Company Endeavor End	ergy	Resources, !	 .Р			Lease Setterst	trom			1	Well Number
County Sumner	•			Section 3		TWP 35S			/W)		Acres Attributed 40
Field Murphy			Reservoir Hoover			Gas Gathering Connection Ashton Gas Gathering					
Completion Date 1-29-04			Plug Back Total Depth 2302			Packer	Set at				
Casing Size 4 1/2				Internal D	Diameter	Set at 2300		Perforations 2215		то 2217	
Tubing Size 2 3/8				Internal [Diameter	Set at 2250		Perforations		То	
Type Completion (Describe) single / gas			Type Fluid Production saltwater				Pump Unit or Traveling Plunger? Yes / No pumping unit			/ No	
Producing Thru	(An	nulus / Tubing)		% C	arbon Dioxi	ide		% Nitrog	jen	Gas G	ravity - G _g
annulus Vertical Depth(l	H)			-	Pres	sure Taps				(Meter	Run) (Prover) Size
Pressure Buildu	<u>.</u>	Shut in Sept	23rd ₂	14 , 2	:30	(AM) (PM)	Taken S	ept 24th	l, 20	14 , 2:30	(AM) (PM)
Well on Line:											(AM) (PM)
					OBSERVE	D SURFAC	E DATA			Duration of Shut	-inHours
Static / Oriti	ze	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	1! Temperature Tempe		ature (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In		poig (i iii)				265#	psia_	psig	psia	<u>.</u> .	
Flow											
					FLOW STE	REAM ATTR	IBUTES				
Plate Coeffiecient (F _b) (F _p) Mcfd	Provor Pressure		Press Extension ✓ P _m x h	Grav Fac F _s	tor	Flowing Temperature Factor F ₁₁		Deviation M Factor F _{pv}		y GOR (Cubic Fe Barrel)	eet/ Fluid Gravity
	<u> </u>			(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P.)	p ² = 0.207
(P _c) ₅ =	:	(P _w) ² =_	<u> </u>	P₀≃		% (F	ੂ - 14.4) +	- 14.4 =	:	(P _a)	2 =
$(P_e)^2 \cdot (P_a)^2$ or $(P_a)^2 \cdot (P_a)^2$	(I	P _c) ² - (P _w) ²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_a^2$	LOG of formula 1, or 2. and divide	P _c ² • P _w ²	Sio	ssure Curve pe = "n" - or signed lard Slope	l n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
					,		•				
Open Flow	<u> </u>	<u> </u>	Mcfd @ 14.	65 neie		Deliverat	nility				ia.
•	eiano.	d authority on		· · ·	states that h			o mako II		rt and that he ha	
he facts stated	-	•				•			eptember	i and mathe m	, 20 14
no rapio stateu		on who mat sa	a ropoit is tide	and contec	LAGOUIGO	. and the <u>-</u>	^	وفي الم	:F-ll	KANS	Received AS CORPORATION COMMIS
		Witness (If	any)			_	7	J WU	For C	ompany	OCT 0 6 2014
		For Commis	sion		***************************************	•			Chec	cked by	ONSERVATION DIVISION WICHITA, KS

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator <u>Endeavor Energy Resources, LP</u>
and that the foreg correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation and/or upon type of completion or upon use being made of the gas well herein named. set a one-year exemption from open flow testing for the Setterstrom 1 bunds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature:

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.

Received KANSAS CORPORATION COMMISSION