CONSERVATION DIVISION WICHITA, KS

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:			(5	See Instructi	ions on Re	verse Side,		, e			
Open Flow Deliverability			Test Date: 6/2/2013			API No. 15 033-20-677 - (\D00\					
Company Empire Energ	y E & P LLC				Lease Harper	A			1	Vell Number	
County Comanche	•		Section 32				RNG (E/ 17W	RNG (E/W) 17W		cres Attributed	
eld eals			Reservoir Stottler A, LKC B, Altamont, Pawnee, Ft. Scott			Ft. Scott	Gas Gathering Connection Empire Energy E & P LLC				
Completion Date 1/21/1986			Plug Back Total Depth 5030				Packer Set at None				
Casing Size	Weight 10.5#		Internal Diameter 4.052		Set at 5649		Perforations 3346		то 4959		
Tubing Size 2.375			Internal Diameter 1.995		Set at 5033		Perforations 5026		то 5029		
Type Completion (Describe) Cased Hole/Perfs/Gas			Type Fluid Production Gas			• •		it or Traveling	Plunger? Yes	lunger? Yes / No	
Producing Thru Annulus	(Annulus / Tubin	% Carbon Dioxide				% Nitrog	en	Gas Gravity - G _g			
Vertical Depth(F	H)	•		Press	sure Taps		•		(Meter F	lun) (Prover) Size	
Pressure Buildu	p: Shut in 6/2	2	0_13 at_12	2:43 PM	(AM) (PM)	Taken 63	J	20	13 _{at} 12:46 F	PM (AM) (PM)	
Well on Line:	Started	2	0 at		(AM) (PM)	Taken	· · · · · · · · ·	20	at	(AM) (PM)	
				OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 24 Hours	
Dynamic Siz	mic Size Prover Pressure in		Flowing Temperature t Well Head		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Wellhe	ubing ad Pressure (P _t) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In					10	,		pola			
Flow							,		·		
Plate	Circle one:			FLOW STR	Flowing	RIBUTES				Flowing	
Coefficient (F _b) (F _p) Mcfd	Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Extension Fact		emperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Fluid	
P _c) ² =	: (P _w) ² =	,	(OPEN FLC	OW) (DELIVI		() CALCUL P _c - 14.4) +				= 0.207 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$	(P _c) ² - (P _w) ²	Choose formula 1 or 2 1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formula 1. or 2.	LOG of formula		Backpressure Curve Slope = "n" or Assigned		LOG	Antilog	Open Flow Deliverability Equals R x Antilog	
(P _c) (P _d)-		divided by: P _c ² - P _w ²	and divide by:	P _c ² - P _w ²		dard Slope				(Mcfd)	
	:								·	·	
Open Flow		Mcfd @ 14.	65 psia		Deliverat	bility			Mcfd @ 14.65 psid	<u> </u>	
The unders	igned authority, o	n behalf of the	Company, s	tates that he	e is duly a	uthorized to	make th	e above repo	rt and that he ha	s knowledge of	
e facts stated t	herein, and that s	aid report is true	and correct	. Executed	this the 7		day of O	ctober	<u>*</u>	20 13 RECEIVED	
Services	Witness (if any)				<u> 40 .</u>	fait	hny	Company	CORPORATION COMM	
ieni. Tako	For Comn	nission				<u> </u>		Chec	cked by	OCT 0 9 2013	

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 Empire Energy E & P 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 Harper A #1 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.
Date: 10/7/2013
Signature: Title: Operations Manager RECEIVED KANSAS CORPORATION COMMISSION OCT 0 9 2013 CONSERVATION DIVISION WICHITA, KS

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.