KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

30

Type Test:				(See Instruct	ions on Re	verse Side	e)						
M Ope	n Flow			Test Date	··			ΔDI	No. 15					
Deliv	verabilty			03/06/2					-20677-00-0)1				
Company Empire Er	nergy E	& P LLC				Lease Harper	A				1	Well Nun	nber	
		Locat C S/2 S		Section 32			TWP 33		RNG (E/W) 17W		Acres Attributed 160		tributed	
Field Beals		Reservoii Stottler A,		nt, Pawnee, F			Gas Gathering Connection Empire Energy E & P LL				31.0			
Completion Date 1/21/1986			Plug Bac 5030	Plug Back Total Depth 5030			Packer Set at None							
Casing Size Weight 4.5 10.5			Internal I 4.052	Diameter	Set at 5649		Perforations 3346		то 4959					
Tubing Size Weight 2.375 4.6			Internal I 1.995	Diameter	Set at 5033		Perforations 5026		то 5029					
Type Comp		escribe)	s)	Type Flui Dry Ga	d Production	1			it or Traveling	Plunger?	? Yes	/ No	,,	
Producing Thre-Annulus / Tubing Annulus				% Carbon Dioxide			<u></u>			Gas Gravity - G _g				
Vertical De	epth(H)				Press	sure Taps					(Meter F	Run) (Pro	over) Size	
Pressure B	Buildup:	Shut in _03/	05 2	0_15_at_8	:00 AM	(AM) (PM)	Taken_03	3/06		15 at_	8:45 A	M (A		
Well on Line:		Started	2	20 at		(AM) (PM)	Taken							
					OBSERVE	D SURFACI	E DATA			Duration	of Shut-i	n_Z 9	Hours	
Static / Dynamic	Orifice Size	Circle one: Meter Prover Pressi	Pressure Differential	Flowing Well Head Temperature Temperatur		Casing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Duration (Hours)		Liquid Produced (Barrels)		
Property	(inches)	psig (Pm)	Inches H ₂ 0	t	t	psig p		psig	psia	,	- ,			
Shut-In			_			10								
Flow								<u></u>						
			 		FLOW STR	EAM ATTR	IBUTES			-		1		
Plate Coeffiecient •(F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P _m x h	Extension Fact		Flowing Femperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flov R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =	:	(P _w) ² =	: :	(OPEN FL	OW) (DELIV) CALCUL 2 - 14.4) +		:		(P _a) ²	²= 0.20 ²=	7	
(P _c) ² - (P _a or (P _c) ² - (P _d		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	se formula 1 or 2: P ² -P ² P C C C C C C C C C C C C C C C C C C C		Backpressure Curve Slope = "n"orAssigned		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
			divided by: Pc2-Pw	by:	P _c ² - P _w ²	Stand	ard Stope						-	
	,						_							
Open Flow	<u>'</u>		Mcfd @ 14.	65 psia		Deliverat	ility			Mcfd @	14.65 psi	а		
	_	•	n behalf of the aid report is true	. ,		-		o make th day of <u>M</u>		ort and th	at he ha		edge of 0	
ino iauto old	atou titele	m, anu tiat S	aid report is true	and correc				5 de -	1 001 4	1	/	, 2	·	
		Witness (if any)		Received PRPORATION C	OMMISSION -		NUNUA	VVI far	Coppeany				
		For Comr	nission	——AP	R 09 21	015			Che	cked by				
				CONSE	RVATION DIVI VICHITA, KS									

exempt sta and that th correct to tl	tre under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Empire Energy E & P LLC reference foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records								
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.								
	by request a one-year exemption from open flow testing for the Harper "A" #1								
gas weil on	n 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 furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commission								
staff as ned	cessary to corroborate this claim for exemption from testing.								
Date: 03/3	1/2015								
	Received Signature: Rullwal W. Jarly								
	APR n g 2015 Title: District Manager								
	APR 0 9 2015 Title: District Manager								

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.