KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flo	w	ONE	. 0	`		ctions on Rev	erse Side	,				
Deliverabilty					Test Date: 10/27/2015				API No. 15 181-20444-00-00				
Company	,				Lease						1	Well Number	
Foundation Energy Management, LLC											12-19		
County Location SHERMAN SW-NE-SW-NW				Section	19	TWP 6S			RNG (E/W) 39W		Acres Attributed		
Field PRAIRIE STAR				Reservoir NIOBR		·		Gas Gathering Conr KINDER MORG					
Completion Date 8/24/2006				Plug Back Total Depth				Packer S	et at				
Casing Size 7", 4 ½"			Weigh	# 10.5#	Internal Diameter 6.538, 4.052		Set at 427	Set at 427, 1528		rations 1344	то 1364		
Tubing Size Weight				Internal [Set at		rations	То	-		
2 3/8" 4.7#				1.995 1409			409						
Type Completion (Describe) SINGLE				Type Fluid Production SALTWATER						/ No DPUMP ·			
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxide				en	Gas Gr	avity - G _a	
ANNULUS												•	
Vertical D	epth(F	ł)				Pres	ssure Taps				(Meter I	Run) (Prover) Size	
Pressure	Buildu	p:	anut in	10/26 2	0 15 at S	9:00 AM	. (AM) (PM) 1	aken		20	at	(AM) (PM)	
Well on L	ine:		Started	10/272	0 <u>15</u> at 9	9:00 AM					at		
	_					OBSERVE	ED SURFACE		r		Duration of Shut-	in 24 Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	hut-In		P9 ()				psig 62	psia	psig	psia	-	-	
Flow													
r					<u>, </u>	FLOW ST	REAM ATTRIE	UTES				,	
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension ✓ P _m xh	Gravity Factor F		Flowing Temperature Factor F _{f1}	mperature Factor F		Metered Flow Fl (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m	
	<u> </u>			-	(OPEN FL	OW) (DELIV	/ERABILITY)	CALCUL	ATIONS		(P _a)	²= 0.207	
(P _c) ² =		_:_	(P _w) ² =_	:	P₀≔		% (P _o	- 14.4) +	14.4 =	::	(P _a):		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² - P _g ² 2. P _c ² - P _d ²	LOG of formula 1, or 2. and divide p 2 p 3		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x l	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				ivided by: $P_c^2 - P_w^2$	by:	<u>. 1</u>	Standar	и оюре				()	
							<u> </u>						
Open Flow Mcfd @ 14.65 psia					65 psia	ia Deliverability			Mcfd @ 14.65 psia				
								_			rt and that he ha	s knowledge of	
the facts si	tated ti	herei	n, and that sa	id report is true	and correc	t. Executed	d this the	-	day of			, 20 15	
			Witness (if	any)		KANSAS COF	Received — RPORATION COM	MISSION		For (Company		
			For Commi	ssion		DE	C 1 0 2011	5		Chec	cked by	<u> </u>	

CONSERVATION DIVISION WICHITA, KS

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 BRATCHER 12-19 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: 12/7/2015
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.