RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	ions on Reve	erse Side)				
Open Flow					Test Date	3 ;			No. 15				
Deliverabilty				08/27/13					33-21533-0	0-00			
Company WOOLSEY OPERATING COMPANY, LLC							Lease MURDO	Lease MURDOCK			Well Number A-1		
County Location COMANCHE SE NW NW NW				Section 10		TWP 35S		RNG (E/W) 16W		,	Acres Attributed		
Field AETNA				Reservoir MISSIS	SIPPIAN		Gas Gathering ATLAS PIPEL			ction			
Completion Date 9/22/08				Plug Bac 5700	k Total Dept	h	Packer Set at NONE		et at				
Casing Size Weight 4.500 10.50				Internal E 4.052	Diameter	Set at 5732		Perforations 5420		то 5457			
Tubing Size Weight 2 375 4 70				Internal I 1.995	Diameter	Set at 5486		Perforations		То	·		
	2.375 4.70 Type Completion (Describe)					d Production				it or Traveling	Plunger? Yes	/ No	
SINGLE						OIL & WATER			PUMPING				
Producing Thru (Annulus / Tubing) ANNULUS				% C	Carbon Dioxi	de		% Nitrogen		Gas Gravity - G _g			
Vertical D 5455	epth(H	l)				Pres	sure Taps				(Meter f	Run) (Prover) Size	
Pressure	Buildu	p: {	Shut in08/2	27/13	0 at		(AM) (PM)	Taken 08	8/28/13		at	(AM) (PM)	
Well on Li	ine:	;	Started	20) at		(AM) (PM) 1	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in Hours	
Static / Dynamic Property	Dynamic Size		Meter Differen		Flowing Well Head Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_a)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	hut-In		psig (Pm)	Inches H ₂ 0			psig 200	psia	psig psia 650		24		
Flow													
					-	FLOW STR	EAM ATTRI	BUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fac F ₄	tor Temperature		Fa	iation ector = pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Gravity	
	-				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		/P.);	2 0.007	
(P _c) ² =		_:	(P _*) ² =	:	P _d ≖		•	- 14.4) +		:	(P _a)	² = 0.207 ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2. 1. P _c ² - P _e ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide p2_p2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x L	.og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flor				Mcfd @ 14.	65 psia		Deliverabil	lity	.		Mcfd @ 14.65 psi	ia	
			J =			1010-11-1		-			·		
		•	•	n behalf of the aid report is true			•			e above repo ECEMBER	rt and that he ha	is knowledge of, 20 <u>13</u> .	
							_		Un L	Hell.	R		
			Witness (i	fany)						FoxS	ompany	KCC WICH	
			For Comm	ission						Chec	ked by	DEC 18 20	

exempt status and that the for correct to the l of equipment i	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC oregoing pressure information and statements contained on this application form are true and pest of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. Equest a one-year exemption from open flow testing for the MURDOCK A-1 are grounds that said well:
[[[I further a	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 gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing.
Date: 12/09/1	Signature: Un K Hallaugha Title: FIELD MGR.
	Title.

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.