KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instru	ctions on Re	verse Side	?)			
Op	en Flo	w			Test Date	··			API	No. 15		
√ De	liverab	ilty			10/2/15	,.				007-23185-0	0000	
Company WOOLSEY OPERATING COMPANY, LLC				;	Lease HARE			BAUGH			Well Number E-1	
County Location BARBER 380' FSL & 2210' fel			Section 23		TWP 34	•				Acres Attributed		
Field STRANA	- ATHAI	N	-		Reservoir MISSIS	SIPPIAN	,		Gas Gat ATLAS	hering Conn	ection	
Completion Date 9/19/07				Plug Bac 5275	Plug Back Total Depth 5275			Packer S NONE	Set at	-		
Casing Si 4.500	ize		Weigh 10.50		Internal D 4.052	Diameter	Set : 516		Perfo 466	rations 0	т _о 4780	-
Tubing Si 2.375	ize		Weight 4.70		Internal Diameter 1.995		Set at 4813		Perforations OPEN		То	-
Type Con SINGLE		1 (De	escribe)		Type Flui WATE	d Productio	on		Pump Ur PUMP	it or Traveling	Plunger? Yes	/ No
Producing	•	(Anı	nulus / Tubing)	% C	arbon Dio	xide		% Nitrog	en	Gas Gr	avity - G ₀
Vertical D		()				Pre	ssure Taps				(Meter I	Run) (Prover) Size
Pressure	Buildu	p:	Shut in 10/	1/15 2	at		(AM) (PM)	Taken_10	0/2/15	20	at	(AM) (PM)
Well on L	ine:	:	Started	2	0 at		_ (AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERV	ED SURFAC	E DATA			Duration of Shut-	inHours
Static / Dynamic Property	Orifi Sizi (inche	e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperatur t	e (P _w) or (F	Pressure	Wellhe	Fubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.500		paig (i iii)	miches H ₂ 0			210	psia	psig 180	psia	24	
Flow											 - ·	
						FLOW ST	REAM ATTR	IBUTES		<u> </u>		
Plate Coeffiect (F _b) (F Mcfd	ient p)	Pro	Circle one: Meter or over Pressure psia	Press Extension	Grav Fact F _g	tor	Flowing Temperature Factor F _{ft}	Fa	iation ctor pv	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	Gravity
						į						
(P _c) ² =		_:	(P _w) ² =	:	(OPEN FLO	, .	VERABILITY _% (I) CALCUL ² 14.4) +		:	(P _a) (P _d)	² = 0.207 ² =
(P _c) ² - (F	_	(F	P _c) ² - (P _w) ²	Choose formula 1 or 2 1. P _o ² - P _a ² 2. P _o ² - P _o ² divided by: P _o ² - P _o	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slo As	ssure Curve pe = "n" - or signed ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
										_		
							Dall's seat	1914				1
Open Flor				Mcfd @ 14.	•		Deliverat				Mcfd @ 14.65 ps	
		•	•	i behalf of the	e and correc	t. Execute	d this the 9		day of _C	OCTOBER	ort and that he ha	es knowledge of, 20 <u>.15</u> .
			Witness (i	any)		 	PORATION COM	-	K G	Ynk Use FY	ompany	
			For Comm	ssion		001	1 6 201			Chec	cked by	
						CONSER! WI	VATION DIVISI CHITA, KS	ON				

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC
	going pressure information and statements contained on this application form are true and
correct to the bes	et of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named.
	est a one-year exemption from open flow testing for the HARBAUGH E-1
gas well on the g	rounds that said well:
(Checi	c one)
	is a coalbed methane producer
	is cycled on plunger lift due to water
Π̈́	is a source of natural gas for injection into an oil reservoir undergoing ER
Ī	is on vacuum at the present time; KCC approval Docket No.
<u></u>	is not capable of producing at a daily rate in excess of 250 mcf/D
_	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 10/9/15	·
	Signature: Mm Mallaugh Title: FIELD MGR.

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.