## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				0	See Instruc	tions on Re	verse Side	9)					
Open Flow			Test Date: API No. 15											
Deliverabilty			11/2/11					007-23185-0	0000					
Company WOOLSEY OPERATING COMPANY, LLC			Lease HARBAUGH					Well Number E-1						
County BARBER			Location 380' FSL & 2210' FEL		Section 23		TWP 34		RNG (E/W) 12W			Acres	Attributed	
Field STRANATHAN					Reservoir MISSISSIPPI				Gas Gathering APC		ection			
Completion Date 9/19/07				•	Plug Back Total Dept 5275		th		Packer Set at NONE					
Casing Size			Weight 10.500		Internal Diameter 4.052		Set at <b>5161</b>		Perforations 4660		то 4780			
Tubing Si 2.375	ubing Size .375		Weight 4.70		Internal Diameter 1.995		Set at 4813		Perforations OPEN		То	·		
Type Completion (Describ SINGLE			cribe)		Type Fluid Production WATER				Pump Unit or Traveling PUMPING		g Plunger? Yes / No			
Producing Thru (Annulus / Tubing) ANNULUS			% Carbon Dioxide				% Nitrog	en	Gas G	Gas Gravity - G				
Vertical D 4720	epth(H	)				Pres	ssure Taps				(Meter	Run) (F	rover) Size	
Pressure	Buildup	o: Si	nut in11/1/	/11 20	) at		(AM) (PM)	Taken_1	1/2/11	20	at	<del></del>	(AM) (PM)	
Well on L	ine:	S	arted	20	) at		. (AM) (PM)	Taken		20	at		(AM) (PM)	
		<del></del>				OBSERVE	D SURFAC	E DATA			Duration of Shu	t-in	Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	1 .	Liquid Produced (Barrels)	
Shut-In	ut-In		P-19 (1 11)	mones vigo			200	psia	O psig	psia	24			
Flow								<u></u>					,	
	1		·		<u> </u>	FLOW STI	REAM ATTE	RIBUTES					T	
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P <sub>m</sub> x h	Grav Faci	Tomografiura		Fa	Deviation Me Factor F <sub>pv</sub>		red Flow GOR R (Cubic Fl Acfd) Barrel		Flowing Fluid Gravity G <sub>e</sub>	
D 12 -			/D \2 _		•	, ,	/ERABILITY % (	•				$)^2 = 0.2$	207	
$\frac{(P_c)^2 = {(P_c)^2 - (P_a)^2}}{\text{or}}$ $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_a)^2}$		(P <sub>c</sub> )	)²- (P <sub>w</sub> )²	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> ideal by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> . P <sub>w</sub> <sup>2</sup>	% (P <sub>c</sub> - 14.4) + 1  Backpressure Curve Slope = "n"		n x LOG		Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
						-								
Open Flo				Mcfd @ 14.6	55 nein		Delivera	hility			Mcfd @ 14.65 p	eia		
		anad	authority on	· · · · · · ·		states that		<u>-</u>	io mako th		•		dodoo of	
		•	•	d report is true			-			ECEMBER	ort and that he h		20 <u>11</u> .	
								Wh		Hack	Vagh		RECEIVE	
			Witness (if a	лу)						For (	Company		DEC 3 0 2	
			For Commiss	slon						Che	cked by	<del>-</del>		

exempt status and that the fo correct to the	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 pregoing 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 HARBAUGH E-1
	e 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.
	Signature: Wm & Allayh  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.