## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Tes	st:					(See Instruc	ctions on Re	everse Sid	e)				
	pen Flov eliverabi				Test Dat	te:	À			No. 15 02510092~	₹Y-~\		
Compan Hartma		omp	any		1111.24.0		Lease Tuttle			02310092	1-9	Well N	ımber
County Clark		Location SE/4			Section 09		TWP 35S		RNG (E/W) 21W				Attributed
Field Harper I	Ranch		·		Reservoi Morrow		• •		Gas Gat	thering Conn lidstream	ection		
Completi 11-07-6		)			Plug Bad 5689'	ck Total Dep	th		Packer S NONE	Set at			
Casing Size 4 1/2"			Weigh 10.5#		Internal Diameter 4.052"		Set at 5730'		Perforations 5642'		To <b>5682'</b>		· · ·
Tubing Size 2 3/8"		Weight <b>4.7</b> #		nt	Internal Diameter 1.995"		Set at		Perforations NA		То		
Type Cor Single				· · · · · · · · · · · · · · · · · ·	Type Flu Water	id Productio	n			nit or Traveling	Plunger? Yes	/ No	
Producin Annulu:	-	(Annulus / Tubing)			% ( 00.0	Carbon Diox			% Nitrog		Gas G .820	Gas Gravity - G <sub>o</sub>	
Vertical D 5734'	Depth(H)	)		, una		Pres	sure Taps			· · · · · · · · · · · · · · · · · · ·		Run) (P	rover) Size
Pressure Buildu		: S	Shut in 20		0 10 at 9:00		(AM) (PM) Taken 4-		-4 20		10 at	(PM)	
Well on L	.ine:	S	tarted	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut	t-in	Hours
Static / Dynamic Property	Orific Size (inche	ze Prover Press		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P <sub>w</sub> ) or (P	Pressure	Tubing  Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)		
Shut-In							45#	para	paig	psia			
Flow													
						FLOW STR	EAM ATTR	IBUTES	T				
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia		Press Extension √ P <sub>m</sub> x h	Extension Fact		Flowing Femperature Factor	rature Factor		Metered Flow R (Mcfd)	GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	OW) (DELIV		) CALCUL. <sup>2</sup> c - 14.4) +		:		) <sup>2</sup> = 0.2 ) <sup>2</sup> =	07
(P <sub>o</sub> ) <sup>2</sup> -'(F or (P <sub>o</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> )	²- (P <sub>w</sub> )²	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpres Slop Ass	ssure Curve be = "n" or signed ard Slope	nxL	og [	Antilog	Op Deli Equals	en Flow verability R x Antilog Mcfd)
Open Flov	w .			Mcfd @ 14.	65 psia		Deliverabi	ility			Acfd @ 14.65 ps	ia	
				behalf of the				1 ot	make the	e above repor	t and that he ha		edge of
	- 11		Witness (if	any)				<i>.</i>	4-1 - 1	For Co	ompany	F	RECEIVE
			For Commi	ssion		<u></u>	_	<del></del>		Check	ked by		CT 1 3 2

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 Harmon Oll Co. Inc. 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 Tuttle I-9 gas well on the grounds that said well:
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
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: <u>J O / II / I O</u>
Signature: A.T. Wilshub  Title: V.P. Field Oper Arians

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.

OCT 1 3 2010