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

Type Test	:					t	See Instru	ctic	ons on Re	verse	e Side)	1								
Open Flow					Tool Date	Test Date:						API No. 15								
✓ Deliverabilty							11/06 to 11/07/15						009-25932-00-00							
Company FG Holl		LLC		Lease Smith D								Well Number 1-30								
County Location Barton SESWNE						Section 30				TWP 20S			RNG (E/W) 15W				Acres Attributed			
						Reservoir	Reservoir				Gas Gathering			Connection						
Pawnee Rock							Arbuckle				IACX									
Completion Date 3/07/14					Plug Bac	Plug Back Total Depth				Packer Set at none										
Casing Size We 5.5				ht		internal E	Internal Diameter			Set at 3996			rations O	To 3853						
Tubing Size Weight 2.875					Internal D	Internal Diameter			Set at <b>3959</b>			Perforations				То ,				
Type Con single	npletio	escribe)	Type Flui	Type Fluid Production SW				Pump Unit or Traveli <b>No</b>				ng Plunger? Yes / No								
Producing	3 Thru	nulus / Tubi		% Carbon Dioxide				% Nitro			_				Gas Gravity - G <sub>g</sub>					
tubing						.4386	.4386				5.8442				.639					
Vertical D	epth(H	·i)					Pressure Taps <b>flange</b>									(Meter Run) (Prover) Size 2"				
Pressure	Buildu	•	5nut in	/03			15 <sub>at</sub> 9:00 am <sub>(Al</sub>				M) (PM) Taken 11/06				5 at		(	AM) (PM)		
Well on Line: Started 11/06 20 15 at 9:00 am (AM									(AM) (PM)	Tak	en 11	/07	2	o _1	15 at	9:00 ar	n(	AM) (PM)		
OBSERVED SURFACE DATA Duration of Shut-in 72 Ho															Hours					
Static / Dynamic	amic Size		Circle one: Meter Prover Pressure		Pressure Differential in	Flowing Temperature	mperature Temperature		Casing Wellhead Pressure $(P_w)$ or $(P_l)$ or $(P_c)$			Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )			Duration (Hours)		Liquid Produced (Barrels)			
Property	roperty (inche		s) psig (Pm)		inches H <sub>2</sub> 0	t	t	_	psig	•	psia psig		psia							
Shut-In	ıt-ln								1162	11	76.4			7	72					
Flow	Flow .750		171		11 62				1057	057 1071.4					24					
			<u>.</u>				FLOW ST	RE	EAM ATTR	IBU:	TES									
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Provor Pressure psia			Press Extension ✓ P <sub>m</sub> x h	Gravity Factor F <sub>9</sub>		Flowing Temperature Factor F <sub>11</sub>		Deviation Factor F <sub>pv</sub>		tor	I		w GOR (Cubic Fe Barrel)		Gravity I			
2.779	2.779 1		85.4		5,15	1,251	1,251 .		981 1.0		1.015		159							
$(P_e)^2 = 10^{-13}$	383.91	6.	(P_)²	= 1	147.897 :	(OPEN FLO	OW) (DELI	VE		•	LCUL#		:			(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.2	07		
					ose formula 1 or 2	:				Backpressure Curve							Open Flow			
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>s</sub> ) <sup>2</sup>		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>			1. P <sub>c</sub> ²-P <sub>c</sub> ² 2. P <sub>c</sub> ²-P <sub>c</sub> ²	formula	LOG of formula 1. or 2.		Slope = "n"			n x LOG			Antilog		Deliverability Equals R x Antilog			
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>					led by: $P_c^2 - P_u^2$	and divide	and divide   p 2   p 2			Assigned Standard Slope							(Mcfd)			
1383.7	1383.709		236.019 5		862	.7680	.7680			.747			36	3	3.74		594			
Open Flow 594 Mcfd @ 14.69						   65 psia X	5 psia X .50 =			Deliverability 297			Mefd @							
			l authority.	on b	ehalf of the	Company s	tates that	he				make t	he above rep	oort	and t	hat he ha	s know	edge of		
		_			report is true						9	- 77	lovember	م				20 15		
												My	the	1		:- <u>-</u> -				
			Witness			KANSASC	Receiv	/ <b>O</b> C	: Commission		Ø.	lm,	Mr.	r Con						
			For Con	nmissio	תם	Dr		W C	A MUNSSION				C	necke	d by					

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