KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					6	See Instru	ıcti	ions on Re	verse Si	de))						
✓ Op	en Flo	W				Test Date:						ADI I	lo. 15					
De	liverat	ilty				4/21 to 4/22/14							10. 13 21717-00-	00				
Company Griffin M		nt	•			Lease Ferguse	Lease Ferguson				Well No			ımber				
County Location Harper SESWNW						Section 29			TWP 32S			RNG (E/W) 09W				Acres /	Attributed	
Field Little Sa	ndy C	k East			Reservoir Miss					Gas Gathering Connection Oneok			ı					
Completion Date 12/14/10						Plug Bac 4500	k Total De	ı			Packer Set at none							
Casing Size Weight 5.5					Internal Diameter			Set at 4500			Perforations 4338			To 4342				
Tubing Size Weight 2,375						Internal Diameter			Set at 4309			Perforations			То			
Type Con single	npletio	escribe)			Type Fluid Production Oil/SW			<u>.</u>				t or Traveling Ump unit	Plun	ger? Yes	/ No			
Producing	Thru	nulus / Tubi	ng)		% C	arbon Dic	de				% Nitrogen			Gas Gravity - G _g				
annulus						.1844					2.1747			.693				
Vertical D	epth(l					Pressure Taps flange									(Meter Run) (Prover) Size 2"			
Pressure	Buildu	ıp:	Shut in 4/	18	2	0_14_at_1	0:15 am	1	(AM) (PM)	Taken_	4/2	21	20	14	at 10:15	am	(AM) (PM)	
4/94 14 10:15 am 4/99 14 10:15 am												am_	(AM) (PM)					
OBSERVED SURFACE DATA Duration of Shut-in 72 Hours															Hours			
Static / Dynamic	Dynamic Size		I MATAT		Pressure Differential	,	Flowing Well Hea		Wollhoad Procesure			Wellhea	bing d Pressure P _c) or (P _c)		Duration (Hours)	1 .		
Property	operty (Inche		s) psig (Pm)		Inches H ₂ 0	t	t t		psig psia		\dashv	psig	psia			<u> </u>		
Shut-in	Shut-in								483.2	497.6	_			72				
Flow .500			22.1		9.6 63				314.6	329.0					24		0	
				_			FLOW ST	TRI	EAM ATTR	IBUTES				_	-			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension P _m x h	Gravity Factor F ₀		Flowing Temperature Factor F _{II}		Deviation Factor F _{pv}		tor	or R		w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
1.219		36	36.5		8.72	1.201	1.201 .9		971			27						
$(P_c)^2 = 2^{2}$	47.60!	5 .	/D 12	1	08.241 :	(OPEN FLO				-				•		²= 0.2	07	
(P _c) =			(P _w)-		ose formula 1 or 2;	P _d =%				(P _c - 14.4) + 14.4 = Backpressure Curve				Γ	(₽₄)			
(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²		(P _c)² - (P _w)²		ı	1. P _g ² -P _a ² 2. P _g ² -P _d ²	LOG of formula 1. or 2. and divide	formula 1. or 2.		Što	ssure Cor ce = "n" - or signed	n x		LOG		Antitog		Open Flow Deliverability Equals R x Antilog	
		 		-	ded by: Pc2 - Pw2	by:			Stand	ard Slope	rd Slope		<u> </u>				(Mcfd)	
247.398		13	139.364		1.775 .2492		·		.850			.211	B	1.63		44		
Open Flow 44 Mcfd @ 14.65 psia Deliver														Mcfd	@ 14.65 ps	a		
The L	ınders	igned	authority,	on b	ehalf of the	Company, s	tates that	he	e is duly a	ıthorized	l to	pake the	above repo	ort and	ithat he ha	s know	ledge of	
the facts st	tated t	herei	n, and that	said	report is true	and correct	t. Execute	ed 1	this the 2		L	lay of Ap	ril VII.		KC	W	o 14 CHITA	
/ Eddy Color																		
					· 				_		<u>e</u>	OM, TH			רוויו		2014	
			For Cor	nmissio	on				_				Che	cked by	R	ECE	IVED	