KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: oen Flo	31A/				(See Instru	ıctı	ions on R	eve	erse Side)							
	liveral					Test Date 7/8/2013		API No. 15 15-187-21228-00-00											
Company Linn Ope		a Inc	 S.			Lease Campbell					 						Well Number A-4 ATU-12		
County Stanton		<u> </u>	Loca NE Ni		Section 31					RNG (E/W) 39W				Acres Attributed 640					
Field Hugoton	-Pan	oma			Reservoir Chase						ering Conn Gas Plan		on						
Completion 6/6/2013		te			Plug Bac					cker Se /A	t at								
Casing S 5.5		Weig 15.5		Internal Diameter 4.95				Set at 3119				Perforations 2325			то 2519				
Tubing Size Weight N/A N/A					Internal Diameter N/A				Set at N/A				Perforations N/A			To N/A			
Type Con Single	npletio	n (D			Type Flui					Pump Unit or Traveling Plu			ınger? Yes	/ No	7 77 12				
	_	(An	nulus / Tubi		% C					Nitrogen 16.597			Gas Gravity - G _g .7380						
Vertical D	epth(l	H)			Pressure Taps Flange						201111111111111111111111111111111111111				,	(Meter Run) (Prover) Size 3.068			
							(AM) (PM) Taken 7/11									(AM) (PM)			
Well on Line: Started 7/11 20 13 at 11:00 AM (AM) (PM) Taken 7/12 20 13 at 11:00 AM (AM) (PM)														(AM) (PM)					
							SURFACE DATA							Duration of Shut-in		Hours			
Static / Orifice Dynamic Size Property (inches)			Circle one Meter Prover Pres psig (Pm	Differe sure in	ntial .	Temperature Temper		- 1	Weilhead	Casing Vellhead Pressure Pw or (Pt) or (Pc) psig psia			Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		,	Liquid Produced (Barrels)	
Shut-in 1			43.2	0	2	83	83		43.2	Į:			VA NA		72		0	0	
Flow	Flow 1		37.4	3		83	3 83		37.4	Į;	51.8	NA		NA	24		0		
ſ - ··-·				- 		T	FLOW ST	R	EAM ATT	₹IE	BUTES								
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Pres Extens	ion	Grav Fact F _g	tor Te		Flowing Emperature Factor		Fac	eviation Factor F _{pv}		Metered Flow R (Mcfd)		v GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
4.912	_	51	.8	12.466		1.164		98	304	_	1		(69.878		0		0	
	0470	•		2 6022		(OPEN FLO		VE) ² = 0.	207	
$(P_c)^2 = 3.3178$: $(P_w)^2 = 2.6832$:						P _d = .	(4.4 =:			(P _d)2 =				
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² -1 2. P _c ² -1	cose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Index by $P_c^2 - P_w^2$ by		nula r 2. fivide p_2_p_2		Backpressure Curve Slope = "n" or Assigned Standard Slope				n x LOG		Antilog		De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
3.1108		.63	345	4.903			.690		.85			.5869		3.8624		269	269.8971		
Open Flov	w		****	Mcfd @	14.6	5 psia	psia Deliv				liverability				Mcfd @ 14.65 psia				
		-													rt a	nd that he h	as knov	wledge of	
the facts st	tated t	herei	n, and that s	said report is	s true	and correct	. Execute	d t	this the _1		c					Sho	w	20 <u>13</u> .	
			Witness	(if any)	ŀ	(ANSAS COR	PORATION	C	OMMISSION	1		- 5	Shaw	n Hilo	dre Compa		لعط	ty	
						AU	G 0 5	20)13										
			For Com	mission										Chec	ked b	ру			

CONSERVATION DIVISION WICHITA, KS