KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Týpe Test	Open Flow	, ,		(See Inst	ructions of Reve	erse Side)	1		•	Form G (Rev; 8/		
	Deliverability			Test Date: 3/5/15			API No. 15 -	129 20645	-0000			
Company				Lease RATZLAFF				Well Number C-1				
Anadarko E&	P Onsnor	_				<u>r</u>	TWP		RNGE (E/W)		cres Attributed	
County MORTON	Location 2540 FNL & 1320 FEL			Section 1			33	41 0				
Field	Reservoir			. GROVE			Gas Gathering Connection ANADARKO GATHERING					
Completion Date	IALLOGA		Plug Back Tot					Packer Set a	t	ILITINO		
01/27/83				2689					N/A Perforations			
Casing Size	4.5		Weight 10.5		Interenal Diameter 4.052		Set at 2695	at 2695		То	2610	
Tubing Size	bing Size				Interenal Diameter		Set at	251 Perforation		То		
2.375			4.7	,	1.995				NA	NA		
Type Completion (I SINGLE GAS	e Completion (Describe)			duction	Reservoir Temp 130		Pump Unit or Traveling Plunge Pumping Unit		er? Yes / No · Pmp			
Producing Thru (Annulus / Casing)			WATER	% Carbon Dio			% Nitrogen		Gas Gravity - G _g			
Casing		· -	0.117			19.635		0.754				
Vertical Depth (H) 2562				Pressure Taps Flange	3		(Meter Run) X		(PROVER)	Size 4		
Pressure Buildup:		Shut in	3/4/15		12:00 pm	(AM)(PM)		3/5/15	at	12:00 pm	(AM)(PM)	
Weil on Line:		Started			N/A	(AM)(PM)	Taken	-	-	N/A	(AM)(PM)	
•				OBSE	RVED SURF	EACE DATA		Duration of Sh	ut in	24	Hours	
		Circle One:	Pressure	OBSL	INVED SON	·	asing		bing		Liquid	
Static /	Orifice	Meter or	Differential	Flowing	Well Head	Wellhea	d Pressure		l Pressure	Duration	Produced	
Dynamic	Size	Prover Pressure	in (h)	Temperature	Temperature		(P _t) or (P _c)		P _t) or (P _c)	. (Hours)	(Barrels)	
Property	inches	psig	Inches H ₂ O	t	t	psig 9	23.4	psig Pmp	psia	24		
Shut-In Flow	0.875	N/A	N/A	N/A	60	N/A	0	Pmp		N/A	0	
1,5.								· ·				
Plate	0/-	-1- 0	Pressure	FLO	V STREAM / Flowing	ATTRIBUTES	5 T			Flou	vina	
Coefficient	Circle One: Meter or		Extension	Gravity	Temperature	Deviation	Deviation Metered Flow GOR		OR	Flowing Fluid		
(F _b) (F _p)	Prover Pressure		Sqrt	Factor	· ·		R	(Cubic Feet/		Gravity		
Mcfd		psia		F _g	F _{ft}	F _{pv}	(Mcfd)	Barrel)		G _m 0.000		
3,723	1	14.4	0	1.151	1.063	1.000	0	0		0.0	100	
			(OP	EN FLOW) (DELIVERAB	BILITY) CALC	ULATIONS			(D.)2-0 007		
(P _c) ² =	0.548 (P _w) ² =		0		= %		(P _c -14.4)+14.4=		$(P_w)^2 = 0.207$ $(P_d)^2 = $			
		Choose fomula 1 or 2:	LOG of	·	Backpres	sure Curve	T		1	Open	Flow	
$(P_c)^2 - (P_a)^2$		1. P _c ² -P _a ²	formula		Slope	e = "n"					rability	
or	$(P_c)^2 - (P_w)^2$	2. P _e ² -P _d ²	1. or 2.	$(P_c^2-P_w^2)$	or		n x LOG()		Antilog		x Antilog	
$(P_c)^2 - (P_d)^2$		divided by $P_c^2 - P_w^2$	and divide by:		Assigned Standard Slope					Mo	cfd	
0.341	0.548	0.622		206			-0.135		0.733	0		
					D-8	4						
Open Flow					Deliverabili	ıy						
The undersign of the facts state		y, on behalf of t and that said re							hat he has l	knowledge		
					Thomas R. Wiggins							
Witness (if any)							For Company					
					R PANISAS CORP	eceived ORATION COMMIS	SSION					
For Commission				•	KANSAS CORPORATION COMMISSION				Checked by			
					APR	2 0 9 2015						

CONSERVATION DIVISION WICHITA, KS

I declare under penalty or perjury under the laws of the state of Kansas that I am aut exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Anadarko E&P Onshere and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herin named. I hereby request a permanent exemption form open flow testing for the Ratalff "c" *1 gas well on the grounds that said well: (Check One)
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 vacuume at the present time; KCC approval Docket No is incapable of producing at a daily rate in excess of 150 mcf/D
Date: 3/30/2015 Signature: Chenton Title: Production Engineer

Instructions All active gas wells must have at least on original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calender year, wellhead shut-in pressure shall be 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 therafter be reported yearley in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.

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