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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

ver Sig

Type Test	: en Flow	r			(Test Date		tions on Reve	erse Side	,	No. 15			
De	liverabil	ty			11/12/1			15-175- @ 0130			-0000		
Company Cabot O		s Cc	orporation				Lease Harrell U	nit			1	Well Nun	nber
County Location Seward C-SW-SW				Section , 5		TWP 33S		RNG (E/W) 33W		Acres Attributed		tributed	
Field March				Reservoir Upper N			Gas Gatherii WNG		nering Conne	ection			
Completion Date 5/16/1966				Plug Bac 5705	k Total Dep	th	h Pack Non		er Set at ne				
Casing S 4 1/2"	ize	Weight 9.5			Internal (4.090	Diameter	Set at 5736		Perforations 5635		то 5641	100-1	
Tubing Si 2 1/2"	ize	Weight 4.7			Internal D 1.995		Set at 5692		Perforations 5653		то 5655	•	
Type Completion (Describe) Single					d Production			Pump Unit or Traveling P Yes		Plunger? Yes	/ No		
	-	(Annı	ulus / Tubing)	% C	Carbon Dioxi	ide		% Nitroge	en	Gas G	ravity - G	9
Vertical Depth(H) 5654						Pres	sure Taps	re Taps			(Meter Run) (Prover) Size 4		
				0_13_at_1			(AM) (PM) Taken			at		(AM) (PM)	
Well on L	ine:	S	tarted 11/1	3 2	0 13 at 1	0:00 AM	(AM) (PM)	Taken		20	at	(<i>A</i>	AM) (PM)
						OBSERVE	D SURFACE	DATA	1		Duration of Shut	-in_24	Hours
Static / Dynamic Property	mic Size		Circle one: Meter Prover Pressul psig (Pm)	Pressure Differential re in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration Liquid Produ (Hours) (Barrels		
Shut-In				-			21		7-3				
Flow													
			Г		1	FLOW STR	REAM ATTRIE	BUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Grav Fac F _s	tor	Flowing Temperature Factor F ₁₁	Fa	iation ctor	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =		<u>.:</u>	(P _w) ² =_	:	(OPEN FL	• •	ERABILITY) % (P _c	CALCUL - 14.4) +			(P _a) (P _d)) ² = 0.20) ² =	7
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ (ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	formula 1. or 2. and divide p2_p2		Backpressure Curve Slope = "n" or Assigned Standard Slope		og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flor				Mcfd @ 14.	65 psia		Deliverabil	ity			Acfd @ 14.65 ps	ia	
		ned	authority, on		· · · · · · · · · · · · · · · · · · ·	states that h			o make th		t and that he ha		edge of
				d report is true						ovember			0 13
-			Witness (if	any)				$Y \cup U$	any	For Co	UM-	KC	C Wid
			For Commis	ssion			_		U	Check	ed by		
										Chock	····=1	NU	V 25

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Cabot Oil & Gas Corporation
	t the foregoing pressure information and statements contained on this application form are true and
orrect	to the best of my knowledge and belief based upon available production summaries and lease records
	oment installation and/or upon type of completion or upon use being made of the gas well herein named. The reby request a one-year exemption from open flow testing for the Harrell Unit #1
	Il 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 vacuum at the present time; KCC approval Docket No
	is not capable of producing at a daily rate in excess of 250 mcf/D
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
ilali as	necessary to corroborate this claim for exemption from testing.
)ate· 1	1/21/13
, a.o	
	Signature: Mary Jones
	Title: _Mary Torres/ Regulatory Analyst

Instructions:

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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.

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