KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	1;				(See Instruct	tions on Rev	rerse Side)				
Op	en Flo	w			T D	Test Date:				N- 4F	50		
✓ Deliverabilty				02/23/2011				No. 15 3-20953	2000	'			
Company		eve	lopment C	orp			Lease McPhe	rson		·	12-16	Well Number	
County Cheyenne			Location W2SWNW		Section 16		TWP 5S		RNG (E/W) 40W		Acres Attributed 160		
Field Cherry Creek					Reservoir Niobrara				hering Conn Drury Gathe				
Completion Date 04/30/2008				,	Plug Bac 1551'	ack Total Depth			Packer Set at n/a				
Casing Size 4.5"			Weigh 10.5#		Internal Diameter 4"		Set at 1582'		Perforations 1434'		то 1446'		
Tubing Size 2.375"			Weigh 4.75#		Internal Diameter 2"		Set at 1453'		Perforations		То		
Type Con N2 Frac		n (De	escribe)		Type Flui Brine V	d Production	n		Pump Ur Yes, P	nit or Traveling	Plunger? Yes	/ No	
Producing Thru (A			ulus / Tubin	9)	% C	arbon Dioxi	ide	е		en	Gas Gravity - G		
Vertical D		l)				Pres	sure Taps		<1%		(Meter F	Run) (Prover) Size	
Pressure	Buildu	p: {	Shut in 02/	23 2	0_11_at_1	:20pm	(AM) (PM)	Taken_02	2/24	20	11 at 1:20pm	n (AM) (PM)	
Well on L	ine:	;	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	E DATA			Duration of Shut-	in 24 Hou	
Static / Dynamic Property	Dynamic Size		Circle ane: Meter Prover Pressi	Pressure Differential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c)		Ouration (Hours)	Liquid Produced (Barrels)	
Shut-In	(iiicii	03)	psig (Pm)	Inches H ₂ 0	•	'	psig 130	psia	psig	psia		-	
Flow			<u>.</u>				130						
						FLOW STR	REAM ATTRI	BUTES	1			.1	
Plate Coefficient (F _b) (F _p) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m x h	Grav Fact	tor	Flowing Temperature Factor F _{ti}	Fa	iation ctor :	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	1 Gravity	
(P _c) ² =		_:	(P _w)² =	:	(OPEN FL		'ERABILITY) % (P	CALCUL ', - 14.4) +		:	(P _a) [*]	² = 0.207	
(P _c) ² - (I	P _a) ²	(P	c)2- (Pw)2	Choose formula 1 or 2 1. P _c ² · P _a ² 2. P _c ² · P _d ²	LOG of formula 1, or 2.	P.2. P.2	Backpres Slop Ass	ssure Curve 10 = "n" orsigned	n x i	ΓŢ	Antilog	Open Flow Deliverability Equals R x Antilo	
ļ				divided by: P _c ² - P _w ²	by:		Slanda	ard Slope				(Mcfd)	
									<u> </u>				
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 psi	a	
The	unders	ignea	l authority, o	n behalf of the	Company, s	states that h	ne is duly au			•	rt and that he ha	s knowledge of	
the facts s	tated t	herei	n, and that sa	aid report is true	and correc	t. Executed	this the 12		day of			, 20 _11	
			Witness (f eny)				Sy	W 6	For	Company F	RECEIVED	
			For Comn	ission			_		· ·	Che	ekad bu	•	
											` A	UG 0 2 2011	

exempt sta	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp						
	e foregoing pressure information and statements contained on this application form are true and						
	he best of my knowledge and belief based upon available production summaries and lease records						
	ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the McPherson 12-16						
	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							
I furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commissio						
	cessary to corroborate this claim for exemption from testing.						
Date: 07/1	2/2011						
·							
	Signature:						
	Signature:						

Instructions:

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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