KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Tubing Size	Type Test:				(See Instruc	tions on Rev	erse Sid	9)				
Deriverbolity S	Open Flow	v										
Compary	Deliverabilty			Test Date: 8/5//0								
Reservoir Gas Gathering Connection Gas Gathering Connection Completion Date Piug Back Total Depth Packer Set at None		erating, Inc.		- 	'		n			-	Well Number	
Reservoir Gas Gathering Connection DCP Midstream DCP M							-	/W)		Acres Attribute		
Piug Back Total Depth Packer Set at	Field			Reservoir			Gas Gathering Connection					
Casing Size												
10.5	2-16-1994			2830			None					
2.375	4.5	10.5										
Type Completion (Describe) Single - Gas Water Water Producing Thru (Annulus / Tubing) Annulus Vertical Depth(H) Pressure Buildup: Pressure Buildup: Shut in OBSERVED SURFACE DATA Static / Dynamic Size (Inches) Property (Inches) Pressure Troperty (Inches) Pressure Troperty (Inches) Pressure Troperty (Inches) Pressure Buildup: Shut-in 750 Flow Flow Flow Flow Flow Flow Flow Flow	Tubing Size 2.375							Perforations		То		
Producing Thru (Annulus / Tubing) Annulus Vertical Depth(H) Pressure Taps Flange Pressure Buildup: Shut in Started Observed Size Property (Inches) Property Pr	Type Completion (Describe)			Type Fluid Production								
Pressure Buildup: Shut in Started 20 at 20 0 at 20 20 20 20 20 20 20 2		(Annulus / Tubing	g)		arbon Dioxi	de	 -	<u> </u>		Gas G	ravity - G	
Pressure Buildup: Shut in	Annulus							7008	,0	Cas C	ravity - G _g	
Pressure Buildup: Shut in	Vertical Depth(H)										Run) (Prover) S	
Well on Line: Started 20 at (AM) (PM) Taken	Pressure Buildup	: Shut in	8/4 2	0/0 at	1:05	(AM) (PM)	Taken	815	5 20		5 (200)	
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Static / Orifice Dynamic Property (Inches) Prossure psig (Pm) Pressure psig (Pm) Property Property Property Property Property (Inches) Property Property Property Property Property Property Psig (Pm) Property Property Psisure psig (Pm) Property Property Psig (Pm) Property Property Property Psisure psig (Pm) Property Psisure psig (Pm) Property Property Psisure psig (Pm) Property Psisure Prover Psisure Psisure Prover Psisure Psisure Prover Psisure Psisure Prover Psisure Prover Psisure Prover Psisure Prover Psisure P								·			2//	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Static / Orifice			Flowing Well Head Casing						Duration of Shut	-in_ <u>& </u> Т_Н	
Shut-In .750 Flow STREAM ATTRIBUTES FLOW STREAM ATTRIBUTES Flowing Temperature Factor Factor Factor Fin (Mcfd) Flowing Temperature Factor Factor Factor Factor Fin (Mcfd) Flowing Temperature Factor Factor Factor Factor Factor Factor Factor Factor Fin (Mcfd) Flowing Temperature Factor Facto	1 -	Prover Pressu	<i>ire</i> in	Temperature	Temperature	ture Wellhead Pressure		Wellhead Pressure			1	
Flow STREAM ATTRIBUTES FLOW STREAM ATTRIBUTES Plate Coefficient $(F_b)(F_p)$ Meter or Prover Pressure psia OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_c)^2 = (P_c)^2 \cdot (P_a)^2$ $(P_c)^2 \cdot (P_b)^2$ $($	Shut-In 75		Inches H ₂ U	· · · · · · · · · · · · · · · · · · ·				psig			211	
Plate Coefficient (F_b) (F_p) Meter or Prover Pressure psia (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P_c) 2 = : (P_w)2 = : P_d = % (P_c)2 - (P_c)3 (P_c)2 - (P_c)3 (P_c)2 - (P_c)4 (P_c)2 - (P_c)5 (P_c)2 - (P_c)6 (P_c)7 (P_c)6 (P_c)7 (P_c)7 (P_c)9 (70			<u> 24</u>	 	
Plate Coefficient (F_b) (F_p) Meter or Prover Pressure psia (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P_c) ² = : (P_w) ² = : P_d = % (P_c) ² - (P_c) ² - (P_c) ² - (P_c) ² P_c					FLOW STR	EAM ATTRIE	UTES		<u></u>		1	
Coefficient (F _b) (F _p) Prover Pressure psia Prover Pressure psia Prover Prover Pressure psia Prover Pressure psia Prover Prover Pressure psia Prover Pressure P _m x h Factor F _n (Mcfd) Prover Pressure P _n x h P _n x	Press			Gravity Factor		Flowing Dev Temperature Fa Factor Fa		actor R		GOR	Flowin	
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS	(F _b) (F _p)	Prover Pressure								(Cubic Fe	Gravit	
	Mcfd	psia	, m^	9		F _{ft}	'	pv	(IVICIO)	Barreti		
				(OPEN EL C	W (DELIV	EDADU ITVA	201 0111	ATIONO				
	(P _c) ² =	: (P _w)² ≃							:			
or formula n x LOG Antilog Deliverability	(P _a) ² - (P _a) ²	i i		LOG of		Backpress	ure Curve				·	
	or (P _a) ² - (P _a) ²	(c' (w'	2. P. ² - P. ²	formula 1. or 2.		0	r	n x L	.OG	Antilog	Deliverability	
(P _c) ² - (P _d) ² C G and divide P _c ² - P _w Assigned Standard Slope Standard Slope (Mcfd)	(c/ - (d/				P _c ² · P _w ²				e		B .	
												
0	Ones Flam									 		
Wich & 14.00 psia	Open Flow			- i						· · · · · · · · · · · · · · · · · · ·		
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of						2	1		e above repor	t and that he ha	Ĭ/ /)	
ne facts stated therein, and that said report is true and correct. Executed this the	and radio stated the	arent, and that Sa	ing report is time	anu correct	. Executed	uns the	`	ay of	1) . 1	<i>U</i>	, 20 <u>/ / /</u>	
Witness (if any) Witness (if any) RECEIVED	electrically a desirate state to the part of the state of	Witness (if	any)			_(Jan	w	KYPLL	mpany	RECEIVE	
For Commission Checked by OCT 1 4 2010	tanannyan aren aren aren aren aren aren aren ar	For Commi	ssion		- 		7/		Check	ed by	OCT 1 4 2	

l declare und	der penalty of perjury under the laws of the state of Kansas that I am authorized to request							
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.							
and that the fore	going pressure information and statements contained on this application form are true and							
	st of my knowledge and belief based upon available production summaries and lease records							
	allation and/or upon type of completion or upon use being made of the gas well herein named.							
	lest a one-year exemption from open flow testing for the Nickelson 1							
gas well on the g	rounds that said well:							
(Check								
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							
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D							
	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.							
Date: 10/11/	10							
	Signature: Janice Ripley							
	Title: Production Assistant							

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.