KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Rev	erse Side)					
Open Flow				To A Balan					a= 15-0	23-21171-00-	nn			
Deliverabilty					Test Date:				API	No. 15 13-0	25-21171-00-	00		
Company							Lease					Nell Nu	mber	
		Ene	erav Manad	gement, LL(Э.		DUNBAR					21-		
County			Locati		Section				RNG (E/W)			Acres Attributed		
Cheyenne NE-SE-NE-NW			13 2				3	9W .						
Field		_		ı	Reservoi					hering Conne				
BIG TIMBER			NIOBRARA					SOUTHERN STAR						
Completic		te				k Total Dept	h		Packer \$	Set at				
12/5/2008 Casing Size			Weight Internal Diameter Set at						Doese	rations	То			
7", 4½"			-	'#,11.6#	6.538", 4.0"		188', 1443'		Perforations 1224		1262			
Tubing Size			Weigh		Internal Diameter		Set at				То			
2 3/8"			•	4.7#	1.	.995	1283							
Type Con	npletio	n (D	escribe)		Type Flui	d Production			Pump Unit or Traveling Plunger? Yes / No					
SINGLE			Saltwater							YES-rod pump				
Producing Thru (An			nulus / Tubing	1)	% Carbon Dioxide				% Nitrogen		Gas Gr	Gas Gravity - G		
ANNUL														
Vertical D	epth(F	1)				Press	sure Taps				(Meter I	Run) (Pi	rover) Size	
Pressure Buildup:			Shut in	9/8	15 at 2	2:00 PM	(AM) (PM) Taken		-	20	at	(AM) (PM)	
Well on L	ina:		Started	9/9	ຸ 15 ຸ 2	2:00 PM	(AM) (PM) Taken			. 20	at	(AM) (PM)	
				_:-		•	V V							
						OBSERVE	D SURFACE	DATA		•	Duration of Shut-	in2	4Hours	
Static / Orifice		ira	Circle one:	Pressure	Flowing Well Head		Casing		Tubing		-			
Dynamic Size Property (inches		e	Meter Prover Pressu	Differential .	Temperature		I Weinead Pressire		Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)		
		es)	psig (Pm)	Inches H ₂ 0	, t	t					(1,02,0)			
Shut-In							36							
- 14-			-			<u> </u>			-	,	<u> </u>	 	-	
Flow			<u></u>								<u>- : : : : : : : : : : : : : : : : : : :</u>	<u> </u>		
	7					FLOW STR	EAM ATTRI	BÚTES		. •				
Plate			Circle one:	Press	Grav	rity	Flowing Dev		viation Metered Flow		GOR		Flowing	
Coeffictient (F _b) (F _b)		Pro	Meter or ver Pressure	Extension	Fac	ior	emperature Factor	Fa	ctor	R	(Cubic Fe	et/	Fluid Gravity	
Metd			psia	∲ P _m xh	F,	,	F _n '		F _{pv} (Mcfd)		Barrël)		G _m	
			,	-	*									
										,			ــــــا	
						•	ERABILITY)					= 0.2	07	
(P _c) ² =		<u>-:</u>	(P _w) ² =		P _d =	⁹	6 (Р _.	- 14.4) +	14.4 = _	: .	(P _d)	<u>-</u>		
(P _c) ² - (I	P_)?	(F	2 _c) ² - (P _w) ²	Choose formula 1 or 2	LOG of			sure Curve = "n"		ГП			en Flow	
or (P _a) ² - (P _a) ²		,	cr (-w/	2. P ² · P ²	formula 1, or 2,		or		n x LOG		Antilog	Deliverability Equals R x Antilog		
(1,0)*-(1	ا ا			divided by: P _c ² - P _c	and divide by:	P _c ² -P _w ²		gned rd Slope				1	(Mcfd)	
					_									
<u> </u>					+		1							
							·					<u> </u>		
Open Flor	w	Mcfd @ 14.65 psia Deliverability						Mcfd @ 14.65 psia						
				. (t is			- 11:-1:					_ *	1-1-4-4	
ine i	unaers	igne	a authority, or	i benair of the	Company s	states that n	e is duly aut	norizea ti	о таке п	•	t and that he ha TOBER		• .	
the facts s	tated t	herei	n, and that sa	id report is true	and correc	t. Executed	this the	<u>-</u>	day of		ODLIN		<u>15</u> .	
•						Re	ceived							
			Witness (ii	any)		wwsas Corpo	PRATION COMM	IISSION		For C	отралу			
			·				0 9 2015		•					
			For Comm	ssion			~ v, LV10			Chec	ked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operatorFoundation Energy Management, LLC and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for theDUNBAR 21-13 gas well on the grounds that said well:
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
staff as necessary to corroborate this claim for exemption from testing. 10/2/2015 Date:
Received KANSAS CORPORATION COMMISSION OCT 0 9 2015 CONSERVATION DIVISION WICHITA, KS Signature: Major Ma

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.