KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:				(See Instruc	tions on Rev	erse Side)					
Or	pen Flo	w			T 0									
De	eliverat	ilty			Test Date	9:				1 No. 15 -023-20842-(00-00			
Company Noble E		Inc					Lease Zweygai	·dt			14-31	Well Numb	er	
County	 -		Locati	on	Section		TWP		RNG (E	:/W)		Acres Attri	buted	
Cheyenne			SW-SW		31		3S		41W					
Field	C!:				Reservoi					thering Conn			•	
Cherry Creek Completion Date					Niobrara Plug Back Total Depth				Southern Star/Kinder Morgan Packer Set at					
6/18/200	80				1700'						 		+	
Casing Size 7", 4-1/2"			Weigh 17#,1	Internal Diameter 9-7/8", 6-1/4"		Set at 322', 1743'		Perforations 1510'		то 1548'				
Tubing Size			Weigh		Internal Diameter		Set at		Perforations		To			
2-3/8"			4.7# 1.995 1566'				-							
Type Cor Single ((gas)				Type Flui Saltwa	d Productio I ter	n 		Yes	nit or Traveling		/ No		
	_	(Anı	nulus / Tubing	3)	% (arbon Dioxi	ide		% Nitro	gen	Gas G	ravity - G		
Tubing													 	
Vertical E	Jepth(F	1)				Pres	sure Taps				(Meter	Aun) (Prove	ər) Sizə	
Pressure	Buildu	p:	Shut in2/2	8 2	0 11 at 3	:15	(AM) PM	Taken	-	20	at	(AM	i) (PM)	
Well on L	Line:		Started 3/1	2	20 11 at 3:40 (AM) PM Taken 20 at		at	(AM) (PM)						
						OBSERVE	D SURFACE	DATA		 	Duration of Shut	_in_24.5	Hours	
Static /	Orifi	ce	Circle one:	Pressure	Flowing	Well Head	Casi			Tubing		1		
Dynamic	Dynamic Size		Meter Prover Pressu	Differential in	Temperature	Temperature	ture (P ₂) or (P ₁) or (P ₂)		Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)		Liquid Produced (Barrels)	
Property	(inch	es)	psig (Pm)	Inches H ₂ 0	t	t	psig	psia	psig	psia	17 . 67			
Shut-In							172				***			
Flow														
				•		FLOW STR	EAM ATTRI	BUTES	•			· · · · · · · ·		
Plate			Circle one:	Press	-		Flowing	Ι_					Flowing	
Coeffied	ient	 -	Meter or	Extension	Grav Fac	, ,	Temperature		iation ctor	Metered Flow	v GOR (Cubic Fe	et/	Flowing Fluid	
(F _b) (F		PIO	<i>ver Pressure</i> psia	√ P _m xh	F,	.	Factor F _{rt}	F	pv	(Mcfd)	Barrel)	, '	Gravity G _m	
											 			
					40									
(P _c) ² =		,	(P,)² =		(OPEN FLI		ERABILITY) % (P.	CALCUL - 14.4) +			(P _a) (P _a)	0.207		
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 1	=		Choose formula 1 or 2	_		1		- 1	·	(ه ۱۷.	T ·	 -	
(P _c) ² - (I	P_)2	(P	c)2 · (Pw)2	1. P. 2 - P. 2	LOG of formuta		Stope	sure Curve e = "n"	1	LOG		Open Deliver		
(P _e) ² - (I	P _a) ²			2. P ₂ -P ₄ ²	1. or 2. and divide	P _a ² -P _* ²	Ass	or igned			Antilog	Equals R	x Antilog	
				divided by: P.2 - P.		<u></u>	Standa	rd Slope		L J	· · · · · · · · · · · · · · · · · · ·	(McI	ld)	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 psi	ia		
The o	undersi	ignec	authority, or	behalf of the	Company, s	tates that h	e is duly aut	horized to	o make t	ne above repo	rt and that he ha	as knowledo	ge of	
the facts s	tated ti	nerei	n, and that sa	id report is true	and correc	t. Executed	this the 8		day of _C	ecember		, 20 _	<u>11</u> .	
				-				~ /	?	0/1				
			Witness (ii	(anv)				_/	ey	X YOU	Zusch	FIL	FD	
			≜มหาย 622 (เ	en i y j						V For C	ompany []	EC 28	2011	
			For Comm	ission			-			Chec	cked by		<u></u>	

KCC WICHITA

	clare 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 Noble Energy Inc						
	the foregoing pressure information and statements contained on this application form are true and of the best of my knowledge and belief based upon available production summaries and lease records						
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.						
	reby request a one-year exemption from open flow testing for the Zweygardt 14-31						
	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						
l furt	ther agree to supply to the best of my ability any and all supporting documents deemed by Commissio						
	necessary to corroborate this claim for exemption from testing.						
	,,,						
Nata: 12	2/8/2011						
/ale							
	Signature: Cley Johnson						

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. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 2 8 2011