KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

3.

Type Test: (See Instructions on Reverse Side)												
Open Flow Deliverabilty			Test Date:				API No. 15 15-023-21327-00-00					
Company Noble Energy Inc					Lease Zweygardt						Well Number 41-32B	
County Location Cheyenne SW-NE-NE				Section 32		TWP 3S	` ,			Acres Attributed		
Field Cherry Creek				Reservoi Niobrar					hering Conn rn Star/Kind			
Completion Date 9/1/2011				Plug Bac 1583'	Plug Back Total Depth 1583'			Packer S	Set at		· · · · · · · · · · · · · · · · · · ·	
Casing Size 7", 4-1/2"			Weigh 17#, 1		Internal Diameter 9-7/8", 6-1/4"			Set at 280', 1623'		rations 2'	то 1460'	
Tubing Si	ize		Weigh	t	Internal Diameter Set				Perfo	rations	То	
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Ui	nit or Traveling	Plunger? Yes	/ No	
-	•	(Anr	nulus / Tubing	1)	% (% Carbon Dioxide			% Nitrogen		Gas Gravity - G _g	
Annulus											/5.6 - L) (D) (C
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size												
Pressure	Buildup):	Shut in 9/6	2	11 at 9	:30	_ (AM) (PM)	「aken		20	at	(AM) (PM)
Well on L	ine:	;	Started 9/12	22	0 11 at 9	:45	_ (PM) ⁻	Taken		20	at	(AM) (PM)
						OBSERV	ED SURFACE	DATA			Duration of Shut-i	144 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Temperature		Weilhead P	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Fubing ad Pressure r (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In				2			205	psia	psig	psia		
Flow												
<u> </u>	· · · · · ·				- 1	FLOW ST	REAM ATTRI	BUTES	····			
Plate Coefficient (F _b) (F _p) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension √ P _m xh	Gravity Factor F _g		Flowing Temperature Factor F _{ft}	emperature Factor F		Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
								<u> </u>				
(P _c) ² =		:	(P _w) ² =		(OPEN FL		VERABILITY) % (P.	CALCUŁ - 14.4) +			$(P_a)^2 (P_d)^2$	= 0.207 =
(P _c) ² - (F		(P	(c) ² - (P _w) ²	1. P _c ² - P _d ² 2. P _c ² - P _d ²	LOG of formula 1, or 2, and divide	P _c ² - P _w ²	Backpress Slope C	sure Curve = "n" or	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			- '	flvided by: P _c ² - P _w	by:		Statidal	d Slope				()
				· · · · · · · · · · · · · · · · · · ·					-			
Open Flow Mcfd @ 14.65			65 psia	psia Deliverability			Mcfd @ 14.65 psia					
	•		•				•			e above repo	rt and that he has	ŭ
ine facts si	ated th	erei	n, and that sa	id report is true	e and correc	t. Execute	d this the 12	- Ch	day of	Q L		, 20 <u>11</u> .
			Witness (if	any)				- /(erg	For C	Company	MENENED.
For Commission									Chec	ked by	EC 2 8 2011	

exempt status und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
of equipment insta	t 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. est a one-year exemption from open flow testing for the Zweygardt 41-32B
	ounds 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 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: _12/12/2011	
	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.

RECEIVED

DEC 2 8 2011 KCC WICHITA



NATURAL GAS ANALYSIS

PROJECT NO.:

201110131

ANALYSIS NO.:

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE:

OCTOBER 29, 2011

ACCOUNT NO.: PRODUCER:

YUMA

SAMPLE DATE: TO: OCTOBER 20, 2011

EFFECTIVE DATE: NOVEMBER 1, 2011

LEASE NO.: NAME/DESCRIP.: E1502321327

ZWEYGARDT 41-32B

FIELD DATA

SAMPLED BY:

M. MCCALL

CYLINDER NO.:

0.99800

1130

SAMPLE PRES.:

SAMPLE TEMP.:

AMBIENT TEMP.:

GRAVITY: VAPOR PRES.:

SAMPLE TYPE: FIELD COMMENTS:

LAB COMMENTS:

<u>}</u>	NORM.	GPM @	GPM @	
COMPONENTS	MOLE%	14.65		14.73
HELIUM	0.08	-	-	
HYDROGEN	0.00	-	-	
OXYGEN/ARGON	0.04	-	-	
NITROGEN	3.63	•	-	
CO2	0.85	-	_	
METHANE	93.80	-	-	
ETHANE	1.09	0.290		0.292
PROPANE	0.33	0.090		0.091
ISOBUTANE	0.06	0.020		0.020
N-BUTANE	0.06	0.019		0.019
ISOPENTANE	0.02	0.007		0.007
N-PENTANE	0.01	0.004		0.004
HEXANES+	0.03	0.013		0.013
TOTAL	100.00	0.443		0.446
BTU @ 60 DEG F		14.65		14.73
NET DRY REAL =		883.2		888.0
NET WET REAL =		867.8		872.6
GROSS DRY REAL =		980.5		985.9
GROSS WET REAL =		963.4		968.8
RELATIVE DENSITY REAL (AI	R=1 @ 14.696 PSIA 60F):	0.5894		

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

COMPRESSIBILITY FACTOR:

THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES. THE USE OF THIS INFORMATION IS THE RESPONSIBLITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, ASSUMES NO RESPONSIBLITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF IT'S APPLICATION.

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