

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev. 5/98)

Type Test

Open Flow
 Deliverability

(See Instructions of Reverse Side)

Test Date: **03/08/12**

API No. 15- **129 20473-0000**

Company ANADARKO E&P ONSHORE		Lease INTERSTATE		Well Number 14-21	
County MORTON	Location NWSEW	Section 21	TWP 34	RNGE (E/W) 43	Acres Attributed 0
Field INTERSTATE		Reservoir REDCAVE	Gas Gathering Connection HUGS W		
Completion Date 12/12/80		Plug Back Total Depth 1332	Packer Set at NA		
Casing Size 4.5	Weight 10.5	Interenal Diameter 4.052	Set at 1332	Perforations 1181	To 1215
Tubing Size 2.063	Weight 3.3	Interenal Diameter 1.751	Set at 1103	Perforations NA	To NA
Type Completion (Describe) SINGLE GAS		Type Fluid Production NA	Pump Unit or Traveling Plunger? NA		Yes / No NA
Producing Thru (Annulus / Casing) CASING		% Carbon Dioxide 1.27	% Nitrogen 39.64	Gas Gravity - G _g 0.802	
Vertical Depth (H) 1198	Pressure Taps FLANGE		(Meter Run) X	(PROVER) NA	Size 3
Pressure Buildup: Shut-in 03/07/12 2000 at 15:00 (AM)(PM) Well on Line: Start 03/08/12 2000 at 09:15 (AM)(PM)	Taken 03/08/12 2000 at 9:15am (AM)(PM)		Taken NA 2000 at NA (AM)(PM)		

Well is T&A

OBSERVED SURFACE DATA

Duration of Shut-in **24 Hours**

Static / Dynamic Property	Orifice Size inches	Circle One: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						1.5	15.9			24	
Flow	0.750	NA	NA	NA	60	NA	0			NA	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle One: Meter or Prover Pressure psia	Pressure Extension Sqrt ((P _m)(H _w))	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{dv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
2.74	14.4	0	1.117	1.063	1.000	0	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_d)²= 0.253 (P_w)²= 0 P_d= % (P_c-14.4)+14.4= (P_w)²=0.207
(P_d)²=

(P _d) ² -(P _w) ² or (P _d) ² -(P _d) ²	(P _d) ² -(P _w) ²	Choose formula 1 or 2: 1. P _c ² -P _w ² 2. P _c ² -P _d ² divided by P _c ² -P _w ²	LOG of formula 1. or 2. (P _c ² -P _w ²) and divide by:	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG()	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
0.046	0.253	0.182	-0.74	0.850	-0.629	0.235	0

Open Flow

Deliverability

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 the facts stated therein, and that said report is true and correct. Executed this the 8th day of March 2012

Witness (if any)

Thomas L. Walsh

For Company

For Commission

Checked by

KCC WICHITA

APR 02 2014

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I declare under penalty or perjury under the laws of the state of Kansas that I am aut exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Anadarko E&P Onshore and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herin named.

I hereby request a permanent exemption form open flow testing for the Interstate 14-21 gas well 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 vacuume at the present time; KCC approval Docket No. _____
- is incapable of producing at a daily rate in excess of 150 mcf/D

Date: 3/31/14

Signature: Madeline Brown

Title: PRODUCTION ENGINEER

Instructions All active gas wells must have at least on original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calender year, wellhead shut-in pressure shall be 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 yearley in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.

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