

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev. 8/98)

Type Test

Open Flow
 Deliverability

(See Instructions of Reverse Side)

Test Date: 3/5/14

API No. 15- 129 20462 - 0000

Company ANADARKO E&P ONSHORE		Lease US GOVERNMENT			Well Number F-1	
County MORTON	Location NE SW NE	Section 6	TWP 35	RNGE (E/W) 43	Acres Attributed 0	
Field INTERSTATE		Reservoir REDCAVE	Gas Gathering Connection HUGS W			
Completion Date 06/08/81		Plug Back Total Depth 1277	Packer Set at NA			
Casing Size 5.5	Weight 14	Internal Diameter 5.012	Set at 1238	Perforations 1239	To 1277	
Tubing Size NA	Weight NA	Internal Diameter NA	Set at NA	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 51.456	Gas Gravity - G _g 0.811		
Vertical Depth (H) 1258	Pressure Taps FLANGE		(Meter Run) X	(PROVER) NA	Size 3	
Pressure Buildup: Well on Line:		Shut in 3/4/14 Started _____	at 9:30 am at _____	(AM)(PM) (AM)(PM)	Taken 3/5/14 Taken _____	at 9:30 am at _____ (AM)(PM) (AM)(PM)

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						48	62.4			24	
Flow	1.250	na	na	60	na	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 _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
7.771	14.4	0	1.111	1.000	1.000	0	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_d)² = 3.894 (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 _c) 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
3.687	3.894	0.947	-0.024	0.850	-0.020	0.954	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 5th day of March 2014.

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 US GOVERNMENT F-1 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: Madeleine 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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