

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev. 8/08)

Type Test

- Open Flow
 Deliverability

(See Instructions of Reverse Side)

Test Date: **03/08/11**

API No. 15- 129 20515 - **0000**

Company ANADARKO PETROLEUM CORPORATION		Lease MUNDY		Well Number A-1	
County MORTON	Location SE NW NW	Section 30	TWP 34	RNGE (E/W) 43	Acres Attributed 0
Field INTERSTATE		Reservoir REDCAVE	Gas Gathering Connection HUGS W		
Completion Date 06/02/81		Plug Back Total Depth 1231	Packer Set at NA		
Casing Size 5.5	Weight 15.5	Internal Diameter 5.012	Set at 1231	Perforations 1207	To 1231
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 Travelling Plunger? NA	Yes / No NA	
Producing Thru (Annulus / Casing) CASING		% Carbon Dioxide 1.27	% Nitrogen 42.776	Gas Gravity - G _g 0.804	
Vertical Depth (H) 1219		Pressure Taps FLANGE	(Meter Run) X	(PROVER) NA	Size 3
Pressure Buildup: Well on Line:	Shut in <u>03/07/11</u> Started <u>NA</u>	at 9:15am at	(AM)(PM) (AM)(PM)	Taken <u>03/08/11</u> Taken <u>NA</u>	at 9:15am 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						90.5	104.9			24	
Flow	1.000		NA	NA	60	NA	0			0	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
4.912	14.4	0	1.116	1.063	1.000	0	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 11.004

(P_w)² = 0

P_c = %

(P_c-14.4)+14.4 =

(P_w)² = 0.207

(P_o)² =

(P _c) ² - (P _w) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _o 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 by Standard Slope	n x LOG ()	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
10.797	11.004	0.981	-0.008	0.850	-0.007	0.984	0

Open Flow 0 Mcfd @ 14.65 psia **Deliverability** Mcfd @ 14.65 psia

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 2011

Witness (if any)

Thomas L. Walsh
For Company

For Commission

Checked by

RECEIVED
DEC 19 2011
KCC WICHITA

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SEP 26 2011
KCC WICHITA

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 operator Anadarko Petroleum Corporation 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 the MUNDY A-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 vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: OCTOBER 31, 2011

Signature: *Kurt Howard*
Title: PRODUCTION ENGINEER

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.

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