KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2 (Rev: 8/98)

(See Instructions of Reverse Side)

Type Test
- [ ] Open Flow
- [ ] Deliverability

Test Date: 3/4/15 API No. 15- 129 21403 – 0000

Company	Lease	Well Number
Anadarko E&P Onshore LLC	ARNOLD	C-1

County	Location	Section	TWP	RNGE (E/W)	Acres Attributed
Morton	1450FNL&1250FWL	8	33S	41W	640

Field	Reservoir	Gas Gathering Connection
DUNKLE	WABUNSEE	Anadarko Gathering

Completion Date	Plug Back Total Depth	Packer Set at
09/01/95	2956	NA

Casing Size	Weight	Interenal Diameter	Set at	Perforations	To
5.5	15.5	4.95	3009	2904	2914

Tubing Size	Weight	Interenal Diameter	Set at	Perforations	To
2.375	4.7	1.995	2932	NA	NA

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?	Yes / No
SINGLE GAS	WATER	Pumping Unit	PUMP

Producing Thru (Annulus / Casing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
CASING	0.196	25.086	0.754

Vertical Depth (H)	Pressure Taps	(Meter Run)	(PROVER)	Size
2909	Flange	X		2

Pressure Buildup:	Shut in 3/3/15	at 8:40 am	(AM)(PM)	Taken 3/4/15	at 8:40 am	(AM)(PM)
Well on Line:	Started n/a	at n/a	(AM)(PM)	Taken n/a	at n/a	(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_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						14	28.4	PUMP		24	
Flow	0.500	N/A	N/A	N/A	60	N/A	0	PUMP		N/A	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle One: Meter or Prover Pressure psia	Pressure Extension Sqrt ((Pm)(Hw))	Gravity Factor F_g	Flowing Temperature Factor F_{ft}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m
1.219	14.4	0	1.151	1.063	1.000	0	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= 0.807 $(P_w)^2$= 0 P_d= ____ % $(P_c-14.4)+14.4$= ____ $(P_w)^2$=0.207 $(P_d)^2$= ____

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	Choose formula 1 or 2: 1. $P_c^2-P_a^2$ 2. $P_c^2-P_d^2$ divided by $P_c^2-P_w^2$	LOG of formula 1. or 2. and divide by: $(P_c^2-P_w^2)$	Backpressure Curve Slope = "n" ------- or ------- Assigned Standard Slope	n x LOG( )	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
0.6	0.807	0.743	-0.129	0.883	-0.114	0.769	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 4th day of March 2015

Witness (if any)

Thomas R. Wiggins

For Commission

Checked by

Received
KANSAS CORPORATION COMMISSION
APR 09 2015
CONSERVATION DIVISION
WICHITA, KS

Form G-2
(Rev: 8/98)

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 Petroleum Corporation 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 Arnold "C" #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: 3/30/2015

Signature: C Hinyton

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 therafter 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.