

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: **08/27/13**

API No. 15- **189-22690-0000**

Company ANADARKO E&P ONSHORE LLC		Lease COULTER		Well Number 35-1	
County STEVENS	Location 950' FSL & 970' FWL	Section 35	TWP 33S	RNGE (E/W) 39W	Acres Attributed 640
Field HUGOTON		Reservoir CHASE	Gas Gathering Connection AGC		
Completion Date 07/01/13	Plug Back Total Depth 3820	Packer Set at N/A			
Casing Size 5.5	Weight 17	Interenal Diameter 4.95	Set at 3217	Perforations 2595	To 2765
Tubing Size 2.375	Weight 4.7	Interenal Diameter 1.995	Set at 2798	Perforations 2595	To 2765
Type Completion (Describe) GAS	Type Fluid Production WATER	Reservoir Temp 130	Pump Unit or Traveling Plunger? PUMP	Yes / No	
Producing Thru (Annulus / Casing) CASING	% Carbon Dioxide 0.0569	% Nitrogen 17.839	Gas Gravity - G _g 0.719		
Vertical Depth (H) 2680	Pressure Taps FLANGE	(Meter Run) X	(PROVER)	Size 2	
Pressure Buildup: Well on Line:	Shut in 08/23/13 Started 08/26/13	at 9:00 A.M. at 9:00 A.M.		Taken 08/26/13 Taken 08/27/13	at 9:00 A.M. at 9:00 A.M.

OBSERVED SURFACE DATA

Duration of Shut-in **72 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						7.2	21.6	PUMP		72	
Flow	1.000	-6.7	6	78	78	6	20.4	PUMP		24	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 _T	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
5.073	7.7	6.797	1.179	0.983	1.000	40	0	0.000

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.467 (P_w)² = 0.416 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. (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
0.26	0.051	5.098	0.707	0.850	0.601	3.99	160

Open Flow 160 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 27 day of AUGUST, 2013.

Witness (if any)

ANADARKO PETROLEUM
For Company

For Commission

BRIAN NORTON
Checked by

KCC WICHITA

SEP 12 2013

RECEIVED