

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
- Deliverability

Test Date:
8/08 to 8/09/13

API No. 15
007-23,203-00-00

Company Chieftain Oil Co, Inc.		Lease Houlton		Well Number C-1	
County Barber	Location SESESW	Section 23	TWP 33S	RNG (E/W) 11W	Acres Attributed
Field Traffas		Reservoir Miss		Gas Gathering Connection Atlas	
Completion Date 10/25/07		Plug Back Total Depth 5088		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 5111	Perforations 4530	To 4546
Tubing Size 2.875	Weight	Internal Diameter	Set at 4600	Perforations	To
Type Completion (Describe) single		Type Fluid Production Oil/SW		Pump Unit or Traveling Plunger? Yes / No Yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .077		% Nitrogen 1.653	
Vertical Depth(H)		Pressure Taps flange		Gas Gravity - G _g .674	
Pressure Buildup: Shut in		8/05 20 13 at 8:45 am		(AM) (PM) Taken 8/08 20 13 at 8:45 am (AM) (PM)	
Well on Line: Started		8/08 20 13 at 8:45 am		(AM) (PM) Taken 8/09 20 13 at 8:45 am (AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in 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						174.5	188.9			72	
Flow	.750	26	1.5	70		154.8	169.2			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	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
2.779	40.4	7.78	1.218	.9905	-----	26		.674

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

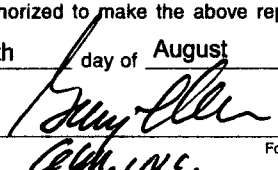
$(P_c)^2 = 35.683$; $(P_w)^2 = 28.628$; $P_d = \underline{\hspace{2cm}}$ % $(P_c - 14.4) + 14.4 = \underline{\hspace{2cm}}$; $(P_a)^2 = 0.207$
 $(P_d)^2 = \underline{\hspace{2cm}}$

$(P_c)^2 - (P_a)^2$ 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" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
35.476	7.055	5.028	.7014	.850	.5962	3.94	102
				assigned			

Open Flow **102** Mcfd @ 14.65 psia X .50 = Deliverability **51** 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 15th day of August, 2013.

Witness (if any)


 For Company

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 20 2013

CONSERVATION DIVISION
WICHITA, KS