KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST
(See Instructions on Reverse Side)

Type Test:

☐ Open Flow

☐ Deliverabilty

Test Date: 7/28/2013

API No. 15: 15-171-20185-00-00

Company	Lease	Well Number
HERMAN L. LOEB LLC	BARNHARDT	2-1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
SCOTT	C SE	2	20S	33W	

Field	Reservoir	Gas Gathering Connection
HUGOTON N. EXT.	KRIDER	ONEOK FIELD SVCS.

Completion Date	Plug Back Total Depth	Packer Set at
1980	2653	NONE

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	9.5	4.090	2681	2641	2645

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.7	1.995	2626	OPEN	

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

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
ANNULUS			

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
2645		

Pressure Buildup: Shut in 7/28 20 13 at _____ (AM) (PM) Taken 7/29 20 13 at _____ (AM) (PM)

Well on Line: Started _____ 20 __ at _____ (AM) (PM) Taken _____ 20 __ at _____ (AM) (PM)

OBSERVED SURFACE DATA
Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						82				24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coeffiecient (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_{ft}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$ _____ : $(P_w)^2 =$ _____ : $P_d =$ _____ % $(P_c - 14.4) + 14.4 =$ _____ :

$(P_a)^2 = 0.207$

$(P_d)^2 =$ _____

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $\frac{P_c^2 - P_a^2}{}$ 2. $\frac{P_c^2 - P_d^2}{}$ 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)

Open Flow	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 AUGUST , 20 13 .

_____
Witness (if any)

_____
For Company

_____
For Commission

_____
Checked by

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 1 4 2013

CONSERVATION DIVISION
WICHITA, KS