KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

☑ Open Flow

☑ Deliverabilty

(See Instructions on Reverse Side)

Test Date: 6/17 to 6/18/13

API No. 15 151-20388-00-01

Company	Lease		Well Number
L.D.Drilling, Inc.	Koenemann "OWWO"		1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Pratt	CSWNW	28	26S	11W	

Field	Reservoir	Gas Gathering Connection
Haynesville	Arbuckle	Lumen

Completion Date	Plug Back Total Depth	Packer Set at
6/23/77		none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.5			4344	4278	4280

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375			4319		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
single	none	yes - pump unit

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
annulus	.194	6.852	.679

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
	flange	2"

Pressure Buildup: Shut in 6/14 20 13 at 9:15 am (AM) (PM) Taken 6/17 20 13 at 9:15 am (AM) (PM)

Well on Line: Started 6/17 20 13 at 9:45 am (AM) (PM) Taken 6/18 20 13 at 9:45 am (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (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	Casing Wellhead Pressure psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing Wellhead Pressure psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						648	662.4			72	
Flow	.750	140	136.7	54		592	606.4			24	

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_{tt}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m
2.779	154.4	145.28	1.214	1.006	1.014	500		.679

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 = $ 438.773 ; $(P_w)^2 = $ 367.720 ; $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 formule 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)
438.566	71.053	6.172	.7904	.740	.5849	3.84	1920

Open Flow 1920   Mcfd @ 14.65 psia X .50 =   Deliverability 960   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 25th day of June 20 13

Witness (if any)

For Company