KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

[✓] Open Flow

[✓] Deliverabilty

Test Date:
9/12 to 9/13/13

API No. 15
007-22,245-00-00

Company	Lease	Well Number
Rains&Williamson Oil Co., Inc.	Lies	A-1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Barber	CSWSE	14	32S	10W	

Field	Reservoir	Gas Gathering Connection
McGuire-Goemann	Miss.Chert	Lumen-WWGG

Completion Date	Plug Back Total Depth	Packer Set at
2/05/88	4418	none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.5			4446	4370	4383

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.875			4376		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
single	Oil/SW	Yes-pump unit

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
Annulus	.1822	.5201	.740

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
	flange	3"

Pressure Buildup: Shut in 9/09 20 13 at 12:00 pm (AM) (PM) Taken 9/12 20 13 at 12:00 pm (AM) (PM)

Well on Line: Started 9/12 20 13 at 12:00 pm (AM) (PM) Taken 9/13 20 13 at 12:00 pm (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 H₂0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						138.6	153.0			72	
Flow	.500	49	1.0	67		52.7	67.1			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_{ft}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m
1.214	63.4	7.96	1.162	.9933	--------------	11		.740

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 = $ 23.409 : $(P_w)^2 = $ 4.502 : $P_d = $ _____ % $(P_c - 14.4) + 14.4 = $ _____ :
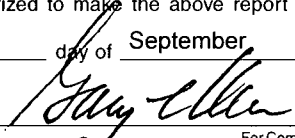
$(P_a)^2 = $ 0.207

$(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. $P_c^2 - P_a^2$ 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)
23.202	18.907	1.227	.0888	.850	.0755	1.19	13

Open Flow 13 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 23rd day of September 20 13

_____
Witness (if any)

_____
For Commission

Gary Clem
Celm, Inc.
For Company

_____
Checked by