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

Type Test:
- [✓] Open Flow
- [ ] Deliverabilty

Test Date: 4/16 to 4/17/15

API No. 15: 077-21,621-00-00

Company: Sandridge	Lease: Lana		Well Number: 1-A
County: Harper	Location: C S/2 N/2 NE	Section: 01	TWP: 34S	RNG (E/W): 05W	Acres Attributed:
Field: Gerberding	Reservoir: Miss	Gas Gathering Connection: Atlas Pipeline	
Completion Date: 5/05/08 re-completion	Plug Back Total Depth: 4674	Packer Set at: none	
Casing Size: 5.5	Weight:	Internal Diameter:	Set at: 4737	Perforations: 4331	To: 4604
Tubing Size: 2.375	Weight:	Internal Diameter:	Set at: 4284	Perforations:	To:
Type Completion (Describe): single	Type Fluid Production: Oil/SW	Pump Unit or Traveling Plunger? Yes / No — No	
Producing Thru (Annulus / Tubing): Tubing	% Carbon Dioxide: .311	% Nitrogen: 15.958	Gas Gravity - G_g: .803
Vertical Depth(H):	Pressure Taps: flange		(Meter Run) (Prover) Size: 2"

Pressure Buildup: Shut in 4/13, 20 15 at 10:30 am (AM) (PM) Taken 4/16, 20 15 at 10:30 am (AM) (PM)

Well on Line: Started 4/16, 20 15 at 10:30 am (AM) (PM) Taken 4/17, 20 15 at 10:30 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 (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						479	493.4			72	
Flow	1.000	48	28.7	71		448	462.4			24	0

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
5.073	62.4	42.32	1.116	.9896	————	237		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$ 243.443 ; $(P_w)^2 =$ 213.813 ; $P_d =$ _____ % $(P_c - 14.4) + 14.4 =$ _____ :

$(P_a)^2 =$ 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)
243.236	29.63	8.209	.9142	.850	.7770	5.98	1417
				assigned			

Open Flow 1417 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 21st day of April, 20 15.

Witness (if any) _____

For Commission _____

For Company _____ (signature) GLM, INC

Checked by _____