

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
 (Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 9/14/12

API No. 15-025-21316-00-00

Company Thoroughbred Associates		Lease Feikert			Well Number 1	
County Clark	Location 2140'FSL&1160'F		Section Sec. 12-30S-22W	TWP RNG(E/W)	Acres Attributed 160	
Field	Reservoir Mississippi		Gas Gathering Connection Thoroughbred & Associates			
Completion Date 10-28-05	Plug Back Total Depth 5371		Packer Set at			
Casing Size 5.500	Weight 10.500	Internal Diameter 4.995	Set at 5458	Perforations 5300	To 5324	
Tubing Size 2.000	Weight 4.700	Internal Diameter 1.995	Set at 5325	Perforations	To	
Type Completion (Describe) Flowing	Type Fluid Production Water		Pump Unit or Traveling Plunger?			
Producing Thru(Annulus/Tubing) Tub		% Carbon Dioxide .247	% Nitrogen 9.562		Gas Gravity- Gg .664	
Vertical Depth (ft) 5310	Pressure Taps Flange		Meter Run Size 3			
Pressure Buildup: Shut in	9/11/12	TAKEN		11:30 AM		
Well on Line: Started	9/14/12	TAKEN		10:30 AM		

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OCT 31 2012
KCC WICHITA

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						425	439	425	439	71.0	
Flow	1.250	34.0	35.00	60	60	185	199	185	199	24.0	2.0

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcf/d	GOR	G _m
7.771	48.4	41.16	1.2272	1.0000	1.0039	394	197024	.685

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 193.1 (P_w)² = 39.8 P_d = % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
 (P_d)² =

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
192.86	153.31	1.258	.0997	.908	.0905	1.232	485

OPEN FLOW 485 Mcfd @ 14.65 psia DELIVERABILITY 50 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 herein and that said report is true and correct. Executed this the 29th day of October, 20 12

Witness (if any)

For Commission

[Signature]
 For Company

Checked by