

**KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
(Rev.8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 1/11/2012 API No. 057-20596-000

Company Ritchie Exploration		Lease O Slash-Hill Trust			Well Number 1	
County Ford	Location E/2 E/2 NE	Section 2	TWP 28s	RNG (E/W) 23w	Acres Attributed 640	
Field Steel	Reservoir Mississippian	Gas Gathering Connection Superior Pipeline				
Completion Date 6-21-10	Plug Back Total Depth 5164	Packer Set at				
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 5199	Perforations 5054	To 5068	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5069	Perforations	To	
Type Completion (Describe) New Well	Type Fluid Production none	Pump Unit or Traveling Plunger? NO				
Producing Thru (Annulus/Tubing) tubing	% Carbon Dioxide 0.140	% Nitrogen 10.274	Gas Gravity- Gg 0.672			
Vertical Depth (H) 5061	Pressure Taps flange	Meter Run Size 3.067				
Pressure Buildup: Shut in	1/6/2012@1000	TAKEN	1/10/2012@1300			
Well on Line: Started	1/10/2012@1300	TAKEN	1/11/2012@1300			

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration - (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						647	662	649	664	75.0	
Flow	1.000	45.6	25.70	75		540	555	470	484	24.0	

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
4.912	60.0	39.27	1.2199	0.9859	1.0045	233		0.672

**(OPEN FLOW)(DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 438.5      (P<sub>w</sub>)<sup>2</sup> = 308.4      P<sub>d</sub> = 6.9      %      (P<sub>c</sub> - 14.4) + 14.4 =      (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = 2.08

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{[(P_c)^2 - (P_a)^2] \text{ or } [(P_c)^2 - (P_d)^2]}{[(P_c)^2 - (P_w)^2]}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
438.30	130.15	3.368	0.5273	0.963	0.5078	3.220	750
436.43	130.15	3.353	0.5255	0.963	0.5060	3.206	747

OPEN FLOW 750 Mcfd @ 14.65 psia      DELIVERABILITY 747 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 17 day of Jan 2012

**RECEIVED**

**JAN 17 2012**

Witness (if any)

For Commission

For Company

Checked by

**KCC WICHITA**