

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

FORM G-2
(Rev. 8/88)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 9/13/2013

API No. 15-057-20752-00-00

Company Ritche Exploration		Lease Darstein 10BC			Well Number 1	
County Ford	Location 1930' FNL 55	Section 10	TWP 28s	RNG (E/W) 22W	Acres Attributed	
Field Wildcat	Reservoir Huck-Mississippi	Gas Gathering Connection Superior Pipeline				
Completion Date 11/10/2011	Plug Back Total Depth			Packer Set at		
Casing Size 6.500	Weight 15.600	Internal Diameter 4.950	Set at 5197	Perforations 4986	To 5054	
Tubing Size 2.875	Weight 6.600	Internal Diameter 2.441	Set at 5129	Perforations	To	
Type Completion (Describe)	Type Fluid Production oil-water			Pump Unit or Traveling Plunger? pumping unit		
Producing thru (Annulus/Tubing) annulus	% Carbon Dioxide 0.105			% Nitrogen 17.020	Gas Gravity- Gg 0.694	
Vertical Depth (ft) 5020	Pressure Taps flange			Meter Run Size 3.068		
Pressure Buildup: Shut in	9/9/2013 @ 1030			TAKEN	9/12/2013 @ 1030	
Well on Line: Started	9/12/2013 @ 1030			TAKEN	9/13/2013 @ 1030	

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 _o)		Tubing Wellhead Press. (P _w) (P _t) (P _o)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						315	329	315	329	72.0	
Flow	1.250	23.2	8.60	65	65	135	149	60	74	24.0	1.8

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _L) Mofd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{dv}	RATE OF FLOW R Mofd	COR	G _m
7.771	37.6	17.98	1.2004	1.0048	1.0028	169	107654	0.732

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_o)² = 108.5 (P_w)² = 5.5 P_d = 7.0 (P_o - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 0.53

$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$	$(P_o)^2 - (P_w)^2$	$\frac{(P_o)^2 - (P_a)^2}{(P_o)^2 - (P_d)^2}$ or $\frac{(P_o)^2 - (P_w)^2}{(P_o)^2 - (P_d)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mofd
108.30	102.97	1.052	0.0219	0.850	0.0186	1.044	176
107.98	102.97	1.049	0.0208	0.850	0.0175	1.041	176

OPEN FLOW 176 Mofd @ 14.65 psia DELIVERABILITY 176 Mofd @ 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 _____ day of _____, 20____

Witness (if any)

For Commission

For Company

Checked by