

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

RECEIVED  
JUL 23 2010

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
7-6-2010

API No. 15

2023-20271 0001

KCC WICHITA

Company Prime Operating Company		Lease Ilene Raile		Well Number 1-27	
County Cheyenne	Location C SENW	Section 27	TWP 3S	RNG (E/W) 42W	Acres Attributed 160
Field NW Cherry Cheek		Reservoir Niobrara		Gas Gathering Connection Kinder Morgan	
Completion Date 3-27-91		Plug Back Total Depth 1643'		Packer Set at N/A	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052"	Set at 1668.39'	Perforations 1500'	To 1532'
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 2"	Set at 1574.24'	Perforations N/A	To
Type Completion (Describe) singular "conventional"		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No Yes	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1668'		Pressure Taps flange		Gas Gravity - G <sub>g</sub> .59	
Pressure Buildup: Shut in <u>July 7</u> 20 <u>10</u> at <u>12:00 PM</u> (AM) (PM) Taken <u>July 10</u> 20 <u>10</u> at <u>3:00 PM</u> (AM) (PM)		Well on Line: Started <u>July 10</u> 20 <u>10</u> at <u>3:00 PM</u> (AM) (PM) Taken <u>July 16</u> 20 <u>10</u> at <u>8:00 AM</u> (AM) (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In	3/8"	PSIG 27	0		65	80	95	15		75	0
Flow	3/8"	PSIG 27	30	65	65	27	42	0		24	42

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>c</sub> ) (F <sub>s</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
.886	42	35.5	1.0084	.9952	1.002	32		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

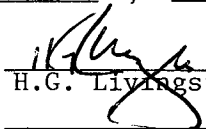
(P<sub>c</sub>)<sup>2</sup> = 9025 ; (P<sub>w</sub>)<sup>2</sup> = 1764 ; P<sub>o</sub> = \_\_\_\_\_ % ; (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>s</sub>)<sup>2</sup> = 0.207 ; (P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>s</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>o</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_o^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_o^2}{P_c^2 - P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)
8818	7261	1.21	0.08437	0.85	0.07172	1.180	38

Open Flow 38 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 20 day of July, 20 20

Witness (if any)

  
H.G. Livingston For Company Central Oprs Mgr

For Commission

Checked by