

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
10/11 to 10/12/10

API No. 15  
119-21,174-00-00

Company <b>Berexco, Inc.</b>		Lease <b>Classen</b>		Well Number <b>2</b>	
County <b>Meade</b>	Location <b>1320FNL&amp;2540FEL</b>	Section <b>7</b>	TWP <b>34S</b>	RNG (E/W) <b>26W</b>	Acres Attributed
Field <b>Morrow</b>		Reservoir <b>Morrow</b>		Gas Gathering Connection <b>DCP Midstream</b>	
Completion Date <b>5/25/07</b>		Plug Back Total Depth <b>6129</b>		Packer Set at <b>none</b>	
Casing Size <b>5.5</b>	Weight	Internal Diameter	Set at <b>5855</b>	Perforations <b>5952</b>	To <b>5968</b>
Tubing Size <b>2.375</b>	Weight	Internal Diameter	Set at <b>5968</b>	Perforations	To
Type Completion (Describe) <b>single</b>		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / No <b>no</b>	
Producing Thru (Annulus / Tubing) <b>tubing</b>		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps <b>flange</b>		Gas Gravity - G <sub>g</sub> <b>.642</b>	
				(Meter Run) (Prover) Size <b>3"</b>	
Pressure Buildup: Shut in <b>10/08</b> 20 <b>10</b> at <b>10:15 AM</b> (AM) (PM) Taken <b>10/11</b> 20 <b>10</b> at <b>10:15 AM</b> (AM) (PM)					
Well on Line: Started <b>10/11</b> 20 <b>10</b> at <b>10:15 AM</b> (AM) (PM) Taken <b>10/12</b> 20 <b>10</b> at <b>10:15 AM</b> (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in **72** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	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						277	291.4	277	291.4	72	
Flow	1.500	81.3	.96	60		234	248.4	199	213.4	24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</sub> ) (F <sub>a</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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
11.41	95.7	9.58	1.248	1.000		136		.642

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 84.913 ; (P<sub>w</sub>)<sup>2</sup> = 61.702 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>a</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</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>d</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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
84.706	23.211	3.649	.5622	.9257	.5204	3.31	450

Open Flow **450** Mcfd @ 14.65 psia X .50 = Deliverability **225** 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 22nd day of October, 20 10.

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

*[Signature]*  
\_\_\_\_\_  
For Company  
**GLM, INC**  
Checked by

**RECEIVED**  
**NOV 03 2010**  
**KCC WICHITA**