

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

Type Test

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date  
9/25 to 9/26/14

API No 15  
189-22,281-00-00

Company BearPetroleum, LLC		Lease Taylor		Well Number B-2	
County Stevens	Location CW/2NWNW	Section 21	TWP 34S	RNG (E/W) 38W	Acres Attributed
Field Feterita East		Reservoir Lower Morrow		Gas Gathering Connection Anadarko	
Completion Date 4/98		Plug Back Total Depth CIBP 6600		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 6834	Perforations 6338	To 6342
Tubing Size 2.375	Weight	Internal Diameter	Set at 6370	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup	Shut in	20	14	at	10:30 am (AM) (PM)
				Taken	9/25
					20 14 at 10:30 am (AM) (PM)
Well on Line	Started	20	14	at	10:30 am (AM) (PM)
				Taken	9/26
					20 14 at 12:00 pm (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one Meter 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						21.4	35.8			72	
Flow	.750	5.6	9 0	75		6.1	20.5			25 5	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
2.779	20 0	13.42	1.240	.9859	-----	46		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 1 281      (P<sub>w</sub>)<sup>2</sup> = .420      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 $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1 074	.861	1.247	.0958	.850	.0814	1.20	55
				assigned			

Open Flow **55** Mcfd @ 14 65 psia      Deliverability **55** 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 26th day of September, 20 14

Witness (if any)

**Received**  
KANSAS CORPORATION COMMISSION

For Company

For Commission

**OCT 09 2014**

*[Signature]*  
Checked by  
**GLM, INC.**

CONSERVATION DIVISION  
WICHITA, KS