

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
12/2/10

API No. 15  
15-033-21535-0000

Company <b>WOOLSEY OPERATING COMPANY, LLC</b>		Lease <b>DORSEY</b>		Well Number <b>#1</b>	
County <b>COMANCHE</b>	Location <b>430 FNL &amp; 2310 FE</b>	Section <b>28</b>	TWP <b>33S</b>	RNG (E/W) <b>16W</b>	Acres Attributed
Field <b>HAM</b>		Reservoir <b>MISSISSIPPI</b>		Gas Gathering Connection <b>ONEOK FIELD SERVICES</b>	
Completion Date <b>9/22/08</b>		Plug Back Total Depth <b>5281</b>		Packer Set at <b>NONE</b>	
Casing Size <b>4.500</b>	Weight <b>10.50</b>	Internal Diameter <b>4.062</b>	Set at <b>5326</b>	Perforations <b>4990</b>	To <b>5158</b>
Tubing Size <b>2.375</b>	Weight <b>4.70</b>	Internal Diameter <b>1.995</b>	Set at <b>5065</b>	Perforations <b>OPEN</b>	To
Type Completion (Describe) <b>SINGLE</b>		Type Fluid Production <b>OIL, WATER</b>		Pump Unit or Traveling Plunger? Yes / No <b>PUMPING</b>	
Producing Thru (Annulus / Tubing) <b>ANNULUS</b>		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) <b>3545</b>		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in <u>12/1/10</u> 20 at _____ (AM) (PM) Taken <u>12/2/10</u> 20 at _____ (AM) (PM)					
Well on Line: Started _____ 20 at _____ (AM) (PM) Taken _____ 20 at _____ (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-In \_\_\_\_\_ 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>i</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						130		0		24	
Flow											

### 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>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>o</sub>)<sup>2</sup> = 0.207

(P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>o</sub> = \_\_\_\_\_ % (P<sub>o</sub> - 14.4) + 14.4 = \_\_\_\_\_ :

(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>o</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> or (P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>o</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> divided by: P <sub>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: P <sub>o</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow \_\_\_\_\_ 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 10 day of DECEMBER, 20 10.

Witness (if any)

For Commission

Checked by

**RECEIVED**

**DEC 22 2010**

**KCC WICHITA**