

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

RECEIVED

DEC 31 2009

KCC WICHITA

Type Test:

- Open Flow
 Deliverability

Test Date:
12/28/09

API No. 15
15-033-21535-0000

Company WOOLSEY OPERATING COMPANY, LLC			Lease DORSEY		Well Number #1
County COMANCHE	Location 430 FNL & 2310 FE	Section 28	TWP 33S	RNG (E/W) 16W	Acres Attributed
Field HAM		Reservoir MISSISSIPPI	Gas Gathering Connection ONEOK FIELD SERVICES		
Completion Date 9/22/08		Plug Back Total Depth 5281	Packer Set at NONE		
Casing Size 4.500	Weight 10.50	Internal Diameter 4.062	Set at 5326	Perforations 4990	To 5158
Tubing Size 2.375	Weight 4.70	Internal Diameter 1.995	Set at 5065	Perforations OPEN	To
Type Completion (Describe) SINGLE		Type Fluid Production OIL, WATER	Pump Unit or Traveling Plunger? Yes / No PUMPING		
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g	
Vertical Depth(H) 3545		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in <u>12/15/09</u> 20 at _____ (AM) (PM) Taken <u>12/16/09</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 (P _m)	Pressure Differential In Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						250				24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_o)² = _____ ; (P_w)² = _____ ; P_d = _____ % ; (P_c - 14.4) + 14.4 = _____ ; (P_a)² = _____

(P _o) ² - (P _a) ² or (P _o) ² - (P _d) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _o ² - P _a ² 2. P _o ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_o^2 - P_w^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG $\left[\frac{P_o^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

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 28 day of DECEMBER, 2009

Witness (if any)

Carl W. [Signature]
For Company

For Commission

Checked by