

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
- Deliverability

Test Date:
2/09 to 2/10/15

API No. 15
095-20,706-00-00

Company Wildcat Oil & Gas, LLC		Lease Dye		Well Number 1	
County Kingman	Location CNESE	Section 20	TWP 30S	RNG (E/W) 06W	Acres Attributed
Field Miss		Reservoir Miss		Gas Gathering Connection Oneok	
Completion Date		Plug Back Total Depth		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 4121	Perforations	To
Tubing Size 2.375	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) single		Type Fluid Production Oil/SW		Pump Unit or Traveling Plunger? Yes / No Yes-pump unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide .1486		% Nitrogen 10.4382	
Vertical Depth(H)		Pressure Taps flange		Gas Gravity - G _g .714	
				(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in 2/06		20 15 at 11:15 am		(AM) (PM) Taken 2/09	
				20 15 at 11:15 am (AM) (PM)	
Well on Line: Started 2/09		20 15 at 11:15 am		(AM) (PM) Taken 2/10	
				20 15 at 11:15 am (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 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						79.2	93.6			72	
Flow	.375	73	4	50		74.1	88.5			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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
.6848	87.4	18.69	1.183	1.010		15		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 8.760 : (P_w)² = 7.832 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	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)
8.553	.928	9.216	.9645	.850	.8198	6.60	99
assigned							

Open Flow **99** Mcfd @ 14.65 psia X .50 = Deliverability **49.5** 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 10th day of February, 20 15.

KCC WICHITA

Witness (if any)

FEB 13 2015

For Company

RECEIVED