

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
- Deliverability

Test Date:
9/12 to 9/13/13

API No. 15
095-21,817-00-00

Company Wildcat Oil & Gas, LLC			Lease Adelhardt A		Well Number 1
County Kingman	Location NWSWNW	Section 12	TWP 30S	RNG (E/W) 09W	Acres Attributed
Field Spivey-Grabbs-Basil		Reservoir Miss	Gas Gathering Connection Lumen-WWGG		
Completion Date 8/02		Plug Back Total Depth		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 4335	Perforations 4223	To 4229
Tubing Size 2.375	Weight	Internal Diameter	Set at 4223	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 .1159		% Nitrogen 3.013	Gas Gravity - G _g .701
Vertical Depth(H)		Pressure Taps flange			(Meter Run) (Prover) Size 3"
Pressure Buildup: Shut in 9/09 20 13 at 9:45 am (AM) (PM) Taken 9/12 20 13 at 9:45 am (AM) (PM)					
Well on Line: Started 9/12 20 13 at 9:45 am (AM) (PM) Taken 9/13 20 13 at 9:45 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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						171.5	185.9			72	
Flow	.500	39	4.0	72		55.2	69.6			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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
1.214	53.4	14.61	1.194	.9887	-----	21		.701

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 34.558 : (P_w)² = 4.844 : 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" ----- 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)
34.351	29.507	1.164	.0659	.850	.0560	1.14	24
				assigned			

Open Flow **24**

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 23rd day of September, 20 13.

KCC WICHITA

[Signature]
For Company

Witness (if any)

SEP 25 2013

RECEIVED