

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
095-21,717-00-00

Company Wildcat Oil & Gas, LLC			Lease Griem		Well Number 1-12
County Kingman	Location SESWNW	Section 12	TWP 30S	RNG (E/W) 09W	Acres Attributed
Field Spivey-Grabbs		Reservoir Miss	Gas Gathering Connection Pioneer		
Completion Date 3/21/97		Plug Back Total Depth		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 4347	Perforations 4246	To 4275
Tubing Size 2.875	Weight	Internal Diameter	Set at 4226	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 .1281		% Nitrogen 4.9963	Gas Gravity - G _g .724
Vertical Depth(H)		Pressure Taps flange			(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in <u>9/09</u>		20 <u>13</u> at <u>9:15 am</u>	(AM) (PM)	Taken <u>9/12</u>	20 <u>13</u> at <u>9:15 am</u>
Well on Line: Started <u>9/12</u>		20 <u>13</u> at <u>9:15 am</u>	(AM) (PM)	Taken <u>9/13</u>	20 <u>13</u> at <u>9:15 am</u>

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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						107.4	121.8			72	
Flow	.375	34	1.0	67		34.9	49.3			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 (Mcf/d)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
.6860	48.4	6.95	1.175	.9933	-----	6		.724

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 14.835 ; (P_w)² = 2.430 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_g)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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)
14.628	12.405	1.179	.0715	.850	.0607	1.15	7
				assigned			

Open Flow 7 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.

Witness (if any)

[Signature]

For Company

KCC WICHITA

SEP 26 2013

RECEIVED