

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
4/12 to 4/13/12

API No. 15
053-20404-00-00

Company Rupe Oil Company			Lease Kihn		Well Number 1	
County Ellsworth	Location E/2 NE	Section 30	TWP 15S	RNG (E/W) 08W	Acres Attributed	
Field Grubb		Reservoir KC		Gas Gathering Connection Rupe Oil		
Completion Date 2/27/78		Plug Back Total Depth 2615		Packer Set at none		
Casing Size 4.5	Weight	Internal Diameter	Set at 2679	Perforations 2557	To 2565	
Tubing Size 2.375	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No No		
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .110		% Nitrogen 25.460		Gas Gravity - G _g .7740
Vertical Depth(H)		Pressure Taps flange			(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 04/09		20	12	at 9:45 am	(AM) (PM)	Taken 04/12
Well on Line: Started 04/12		20	12	at 9:45 am	(AM) (PM)	Taken 04/13
		20	12	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						292.5	306.9			72	
Flow	.500	54	2	64		276.4	290.8			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
1.219	68.4	11.69	1.137	.9962	-----	16		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = **94.187** ; (P_w)² = **84.564** ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_o)² = 0.207 ; (P_d)² = _____

(P _c) ² - (P _o) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide . by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
93.980	9.623	9.766	.9897	.850	.8412	6.94	111
				assigned			

Open Flow **111** Mcfd @ 14.65 psia X .50 = Deliverability **55.5** 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 17th day of April, 20 12.

RECEIVED

[Signature]
For Company

Witness (if any)

APR 18 2012

For Commission

For Company

Checked by

KCC WICHITA