

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

15-053-2113-00-00

Test Date:
4/09 to 4/10/12

API No. 15
~~SNM 107298~~

Company Rupe Oil Company		Lease KanopolisFederal		Well Number 1-21	
County Ellsworth	Location SW SE	Section 21	TWP 16S	RNG (E/W) 07W	Acres Attributed
Field Kanak		Reservoir Grand Haven		Gas Gathering Connection Rupe Oil	
Completion Date 1/21/03		Plug Back Total Depth 1775		Packer Set at 1720	
Casing Size 4.5	Weight	Internal Diameter	Set at 1720	Perforations 1723	To 1727
Tubing Size 2.375	Weight	Internal Diameter	Set at 1720	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 .040		% Nitrogen 44.076	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 4/06		20 12 at 10:30 am		(AM) (PM) Taken 4/09	
Well on Line: Started 4/09		20 12 at 10:30 am		(AM) (PM) Taken 4/10	
		20 12 at 10:30 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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In								163.6	178.0	72	
Flow	.625	11	7.0	57				144.2	158.6	24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _s) 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 _n
1.914	25.4	13.33	1.152	1.003	-----	29		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = 31.684 ; (P_w)² = 25.153 ; P_g = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_e)² = 0.207 ; (P_g)² = _____

(P _e) ² - (P _w) ² or (P _e) ² - (P _g) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _w ² 2. P _e ² - P _g ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
31.477	6.531	4.819	.6829	.850	.5804	3.80	110
				assigned			

Open Flow **110** Mcfd @ 14.65 psia X .50 = Deliverability **55** 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

APR 18 2012

[Signature]
For Company
[Signature]

Witness (if any)

For Commission

Checked by

KCC WICHITA