

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:
April 18, 2014

API No. 15
15-159-20646-00-01

Company Lebsack Oil Production		Lease Flora		Well Number 3	
County Rice	Location C W/2 SE	Section 17	TWP 21	RNG (E/W) 10W	Acres Attributed 160
Field Bell SE		Reservoir Winfield		Gas Gathering Connection West Wichita Gas	
Completion Date Aug 1989		Plug Back Total Depth 1500'		Packer Set at	
Casing Size 4 1/2	Weight 9.5	Internal Diameter 4.090	Set at 1510'	Perforations 1424-28	To
Tubing Size 2 3/8	Weight 4.70	Internal Diameter 1.995	Set at 1421'	Perforations	To
Type Completion (Describe)		Type Fluid Production Salt water		Pump Unit or Traveling Plunger? Yes / No Pumping	
Producing Through (Annulus) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps Flange		Gas Gravity - G _g 0.645	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in April 18 20 14 at 8:00 am (AM) (PM)		Taken April 21 20 14 at 8:00 am (AM) (PM)			
Well on Line: Started April 21 20 14 at 8:00 am (AM) (PM)		Taken April 22 20 14 at 8:00 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						56	70.4	10	24.4	72	23
Flow	0.375	0	15	60		0	14.4	10	24.4	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
0.686	14.4	14.70	1.245	1.000	1.000	13		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 4.96 : (P_w)² = .021 : 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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
4.75	4.75	1.00	0.00	.850	0.00	1.00	13

Open Flow **13** 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 28th day of April, 20 14.

Witness (if any)

F. Wayne Lebsack
For Company

For Commission

Checked by