

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form 3-2  
(Rev. 7/03)

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15  
097-21585 - 0000

Company Southwind Petroleum Corp.		Lease Taylor		Well Number #1	
County Kiowa	Location App. C NE/4	Section 35	TWP 27	RNG (E/W) 18W	Acres Attributed 160
Field Greensburg		Reservoir Kinderhook Sand		Gas Gathering Connection Oneok	
Completion Date 4-7-06		Plug Back Total Depth 4793		Packer Set at none	
Casing Size 4 1/2	Weight 10.5	Internal Diameter 3.00	Set at 4816	Perforations 4759	To 4763
Tubing Size 2 3/8	Weight 3.00	Internal Diameter 1.995	Set at 4771	Perforations	To
Type Completion (Describe) Single - Gas		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.1147		% Nitrogen 9.9845	
Vertical Depth(H)		Pressure Taps		Gas Gravity - G <sub>s</sub> .6579 (Meter Run) (Prover) Size	

Pressure Buildup: Shut in 7:26 2013 at 3:30 (AM) (PM) Taken 7:29 2013 at 4:00 (AM) (PM)  
Well on Line: Started 7:29 2013 at 4:00 (AM) (PM) Taken 7:30 2013 at 3:00 (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 7230 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In	<u>2.500</u>					<u>445</u>	<u>460</u>			<u>72.5</u>	<u>0</u>
Flow	<u>0.5</u>	<u>57</u>	<u>7</u>	<u>68</u>		<u>65</u>	<u>80</u>			<u>29</u>	<u>3.34</u>

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
<u>1.58</u>	<u>72</u>	<u>22.4</u>	<u>1.233</u>	<u>9924</u>	<u>1.014</u>	<u>44</u>		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>e</sub>)<sup>2</sup> = 211.6 : (P<sub>w</sub>)<sup>2</sup> = 6.4 : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>e</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>e</sub>)<sup>2</sup> = 0.207 (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_e^2 - P_w^2}{P_e^2 - P_w^2}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
<u>211.4</u>	<u>205.2</u>	<u>1.03</u>	<u>.013</u>	<u>.85</u>	<u>.011</u>	<u>1.03</u>	<u>45</u>

Open Flow 45 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 30 day of July, 2013.

RECEIVED  
KANSAS CORPORATION COMMISSION  
Denwayne Harrison  
Witness (if any)

RECEIVED  
KANSAS CORPORATION COMMISSION  
Pumper  
For Company

AUG 13 2013

RECEIVED  
KANSAS CORPORATION COMMISSION  
Keaton Hupp  
preparer

AUG 28 2013 CONSERVATION DIVISION WICHITA, KS

CONSERVATION DIVISION WICHITA, KS