

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow
- Deliverability

Test Date:  
7/25 to 7/26/13

API No. 15  
097-20,389-0000

Company Indian Oil Co.			Lease Burtsfield		Well Number 1-19
County Kiowa	Location CNWNE	Section 19	TWP 27S	RNG (E/W) 16W	Acres Attributed
Field Vod		Reservoir Cherokee		Gas Gathering Connection SemGas	
Completion Date 6/10/77		Plug Back Total Depth 4706		Packer Set at	
Casing Size 5.5	Weight	Internal Diameter	Set at 4700	Perforations 4632	To 4635
Tubing Size 2.375	Weight	Internal Diameter	Set at 4607	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No yes-pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .1462		% Nitrogen 4.8634	Gas Gravity - G <sub>g</sub> .631
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 7/22 20 13 at 8:45 am (AM) (PM)		Taken 7/25 20 13 at 8:45 am (AM) (PM)			
Well on Line: Started 7/25 20 13 at 9:00 am (AM) (PM)		Taken 7/26 20 13 at 9:00 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 <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						147.5	161.9			72	
Flow	.500	83	1.0	69		134.2	148.6			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>
1.219	97.4	9.869	1.259	.9915	-----	15		.631

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 26.211 : (P<sub>w</sub>)<sup>2</sup> = 22.081 : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
26.004	4.13	6.296	.7991	.850	.6792	4.78	72
				Assigned			

Open Flow 72

Mcfd @ 14.65 psia

Deliverability 72

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 29th day of July, 20 13.

\_\_\_\_\_  
Witness (if any)  
For Commission

*[Signature]*  
\_\_\_\_\_  
For Company

RECEIVED  
KANSAS CORPORATION COMMISSION

JUL 30 2013

Checked by

CONSERVATION DIVISION  
WICHITA, KS

Indian Oil Co., Inc.  
P.O. Box 209  
Medicine Lodge, KS 67104



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620-886-0373

JOSCELYN NITTLER, SECRETARY/TREASURER  
620-886-1761

1 July 2013

KCC Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802

RE: Gas Tests and Exemptions

Dear Mr. Hemmen,

Enclosed you will find the completed Open Flow tests for the following wells:

- Swartz "OWWO" #1, 15-007-21148-0001, S31-T315-R11W
- Burtsfield #1-19, 15-097-20389, S19-T275-R16W
- Davis #1, 15-097-10356, S18-T275-R16W
- Smith #3-36, 15-057-20599, S26-T285-R21W

The only well for which I was able to go back and get records from 2012 was the Swartz. The other three have tests taken since the warning letters were sent. Please advise as to whether or not these tests will work for both 2012 and 2013.

We also received a letter on the Chain Ranch OWWO #1, 15-007-20680-0001, S30-T315-R11W. This well is an oil well. I have contacted Sunoco, the purchaser, to inquire as to what KDOR code they are using to report production on this well. They have called me to let me know they are looking into the matter, but I have not yet received an answer. I am including with this letter copies of run statements and payments we have received from Sunoco over the past year. They have been withholding taxes for this lease.

Please let me know if any additional information is needed to clear up these matters.

Sincerely,

Joscelyn Nittler  
Secretary-Treasurer

Enc://

KCC WICHITA  
JUL 03 2013  
RECEIVED