

# 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  
097-20,356 - 0000

Company Indian Oil Co.		Lease Davis		Well Number 1-18	
County Kiowa	Location CNWNW	Section 18	TWP 27S	RNG (E/W) 16W	Acres Attributed
Field Vod		Reservoir Cherokee		Gas Gathering Connection SemGas	
Completion Date 10/22/76		Plug Back Total Depth		Packer Set at 4573	
Casing Size 5.5	Weight	Internal Diameter	Set at 4670	Perforations 4593	To 4595
Tubing Size 2.375	Weight	Internal Diameter	Set at 4573	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 .1809		% Nitrogen 3.5197	Gas Gravity - G <sub>g</sub> .623
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in		7/22	20 13	at 8:30 am	(AM) (PM) Taken 7/25
Well on Line: Started		7/25	20 13	at 8:45 am	(AM) (PM) Taken 7/26

### OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						163.2	177.6			72	
Flow	.375	82	3.0	72		137.5	151.9			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
.6860	96.4	17.00	1.267	.9887	-----	15		.623

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

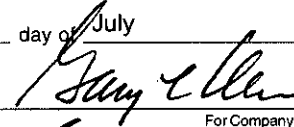
(P<sub>c</sub>)<sup>2</sup> = 31.541 ; (P<sub>w</sub>)<sup>2</sup> = 23.073 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>a</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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)
31.334	8.468	3.700	.5682	.850	.4829	3.04	46
				Assigned			

Open Flow 46 Mcfd @ 14.65 psia X Deliverability 46 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

  
 RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JUL 30 2013  
 CONSERVATION DIVISION  
 WICHITA, KS  
 For Company  
 CCM, INC.  
 Checked by

**Indian Oil Co., Inc.**

**P.O. Box 209**

**Medicine Lodge, KS 67104**

1 July 2013

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



OFFICE PHONE: 620-886-3763

FAX: 620-886-3765

office@indianoilco.com

MICHAEL FARRAR, PRESIDENT

620-886-0370

ANTHONY FARRAR, V.P. OPERATIONS

620-886-0373

JOSCELYN NITTLER, SECRETARY/TREASURER

620-886-1761

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-T31S-R11W
- Burtsfield #1-19, 15-097-20389, S19-T27S-R16W
- Davis #1, 15-097-10356, S18-T27S-R16W
- Smith #3-36, 15-057-20599, S26-T28S-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-T31S-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**