

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
057-20,599 - 0000

Company Indian Oil Co.		Lease Smith		Well Number 3-26	
County Ford	Location SESENE	Section 26	TWP 28S	RNG (E/W) 21W	Acres Attributed
Field Pleasant Valley		Reservoir Miss.		Gas Gathering Connection Oneok	
Completion Date 4/22/08		Plug Back Total Depth 5137		Packer Set at 4990	
Casing Size 5.5	Weight	Internal Diameter	Set at 5149	Perforations 5022	To 5063
Tubing Size 2.375	Weight	Internal Diameter	Set at 4987	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 .165		% Nitrogen 6.953	Gas Gravity - G _g .669
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in <u>7/22</u> 20 <u>13</u> at <u>9:45 am</u> (AM) (PM) Taken <u>7/25</u> 20 <u>13</u> at <u>9:45 am</u> (AM) (PM)					
Well on Line: Started <u>7/25</u> 20 <u>13</u> at <u>10:00 am</u> (AM) (PM) Taken <u>7/26</u> 20 <u>13</u> at <u>10:00 am</u> (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						92.5	106.9			72	
Flow	.500	11.0	1.9	70		84.9	99.3			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 (Mcf/d)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
1.219	25.4	6.95	1.223	.9905	-----	10		.669

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 11.427 ; (P_w)² = 9.860 ; P_g = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_g)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _g) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _g ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)
11.220	1.567	7.160	.8549	.762	.6514	4.48	45

Open Flow **45**

Mcf/d @ 14.65 psia

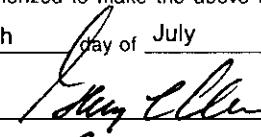
Deliverability **45**

Mcf/d @ 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



For Company
COG, INC

Checked by

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 30 2013

CONSERVATION DIVISION
WICHITA KS

Indian Oil Co., Inc.

P.O. Box 209

Medicine Lodge, KS 67104



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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-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