

KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 1-14-16 API No. 15-189-22629-01-00

Company Palmer Oil Inc.		Lease S&S		Well Number 27-1H	
County Stevens	Location NE NE SW	Section 27-32S-36W	TWP RNG(E/W)	Acres Attributed	
Field Unassigned	Reservoir Marrow	Gas Gathering Connection DCP Midstream			
Completion Date 04/03/2008	Plug Back Total Depth 9122	Packer Set at 9142			
Casing Size 4.500	Weight 11.600	Internal Diameter 3.875	Set at 9050	Perforations 7750	To 8992
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5441	Perforations	To
Type Completion (Describe) Single (Gas + Oil)	Type Fluid Production Oil & Water	Pump Unit or Traveling Plunger? No			
Producing Thru (Annulus/Tubing) Casing & Tubing	% Carbon Dioxide .256	% Nitrogen 5.266	Gas Gravity- Gg .682		
Vertical Depth (ft) 8371	Pressure Taps Flange	Meter Run Size 3.068			
Pressure Buildup: Shut in	1-11-16 @ 9:30 AM	TAKEN	1-14-16 @ 9:30 AM		
Well on Line: Started	1-14-16 @ 9:30 AM	TAKEN	1-15-16 @ 9:30 AM		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						41	55	41	55	72.0	
Flow	.625	29.8	121.10	60	60	36	50	36	50	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F <sub>b</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
1.897	44.2	73.16	1.2109	1.0000	1.0041	168		.682

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P <sub>c</sub> ) <sup>2</sup> = 3.1	(P <sub>w</sub> ) <sup>2</sup> = 2.6	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>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
2.86	.52	5.515	.7415	1.000	.7415	5.515	930

OPEN FLOW 930 Mcf/d @ 14.65 psia DELIVERABILITY 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 herein and that said report is true and correct. Executed this the 14<sup>th</sup> day of January, 2016

Witness (If any)  
For Commission

KCC WICHITA  
JAN 22 2016  
RECEIVED

Palmer Oil  
For Company  
Checked by  
Hosie T+M

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under rule K.A.R. 82-3-304 on behalf of the operator Palmer Oil Inc. and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the S&S 27-1H gas well on the grounds that said well:

(check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. \_\_\_\_\_
- is incapable of producing at a daily rate in excess of 150 mcf/D

Date: 1/14/16

KCC WICHITA  
Signature: Shelley Case  
Title: Well Operations Assitant  
JAN 22 2016  
RECEIVED

**Instructions:**

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.