

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

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 1/25/2013 API No. 15-095-21644-0000

Company Wildhorse Operating Company		Lease Matlack		Well Number 3-23	
County Kingman	Location SE NW SE	Section 23	TWP 29s	RNG (E/W) 7	Acres Attributed 40
Field Spivey-Grabs-Ba		Reservoir Mississippian		Gas Gathering Connection West Wichita Gas	
Completion Date 5/7/1991		Plug Back Total Depth 4262		Packer Set at none	
Casing Size 5.500	Weight 15.500	Internal Diameter 4323	Set at 4323	Perforations 4136	To 4218
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 4210	Perforations	To
Type Completion (Describe) perf acidize frac		Type Fluid Production Water/oil		Pump Unit or Traveling Plunger? pumping unit	
Producing Thru (Annulus/Tubing) annulus		% Carbon Dioxide 0.212		% Nitrogen 2.747	Gas Gravity- Gg 0.730
Vertical Depth (ft) 4177		Pressure Taps flange		Meter Run Size 3.067	
Pressure Buildup: Shut in		1/21/2013 @ 0930		TAKEN	1/24/2013 @ 1030
Well on Line: Started		1/21/2013 @ 1030		TAKEN	1/25/2013 @ 1045

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						68	82			73.0	
Flow	0.750	21.0	2.80	46	46	51	66			24.2	16.0

FLOW STREAM ATTRIBUTES

COEFFICIENT (P _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times R_w}$	GRAVITY FACTOR Eg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G _m
2.740	35.4	9.96	1.1704	1.0137	1.0042	32	2048	2.029

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 6.8 (P_w)² = 4.4 P_d = 25.4 & (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 0.44

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ OR $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
6.62	2.45	2.706	0.4323	0.850	0.3674	2.330	75
6.38	2.45	2.610	0.4166	0.850	0.3542	2.260	73

OPEN FLOW 75 Mcfd @ 14.65 psia DELIVERABILITY 73 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 herein and that said report is true and correct. Executed this the RECEIVED day of Jan, 20 13

KANSAS CORPORATION COMMISSION

MAR 29 2013

CONSERVATION DIVISION
WICHITA, KS

Witness (if any)

For Commission

For Company
Checked by


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 Wildhorse Operating Company 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 Matlack 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 250 mcf/D

Date: 3-21-13

Signature:  _____
Title: _____

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.

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 29 2013

CONSERVATION DIVISION
WICHITA, KS