

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

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 4/21/10

API No. 15-033-21561-0000

Company <i>Deutsch Oil Company</i>		Lease Filson		Well Number 1	
County Comanche		Location 1320 FNL & 1980		Section TWP RNG (E/W) Sec. 4-34S-20W	
Field NA		Reservoir Morrow		Gas Gathering Connection One Oak	
Completion Date 3-5-10		Plug Back Total Depth 5320'		Packer Set at None	
Casing Size 5.500	Weight 15.500	Internal Diameter 4.995	Set at 5438	Perforations 5278	To 5283
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5307	Perforations	To
Type Completion (Describe) Casing		Type Fluid Production		Pump Unit or Traveling Plunger? Pumping	
Producing Thru (Annulus/Tubing) Casing		† Carbon Dioxide .173		† Nitrogen 10.194	
Gas Gravity- Gg .780		Pressure Taps Flange		Meter Run Size 2	
Vertical Depth (ft) 5278		Pressure Buildup: Shut in 4/17/10		TAKEN 8:00 AM	
Well on Line: Started 4/21/10				TAKEN 8:00 AM	

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 _c) (P _o)		Tubing WellHead Press. (P _w) (P _t) (P _o)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						1675	1689			72.0	
Flow	.500	200.0	90.00	60	60	650	664			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
1.219	214.4	138.91	1.1323	1.0000	1.0249	196		.780

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 2854.1 (P_w)² = 441.5 Pd = 3.0 † (P_c - 14.4) + 14.4 = (Pa)² = 0.207
(Pd)² = 2.50

$(P_c)^2 - (P_a)^2$ 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
2853.87	2412.61	1.183	.0729	.800	.0584	1.144	224
2851.57	2412.61	1.182	.0726	.800	.0581	1.143	224

OPEN FLOW 224 Mcfd @ 14.65 psia DELIVERABILITY 224 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 21st day of December, 20 10

Witness (if any)

For Commission

RECEIVED
DEC 27 2010
KCC WICHITA

[Signature]

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 Deutsch Oil 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 Filson 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: 12/21/10

Signature: [Handwritten Signature]
Title: Agent

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.

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