

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
02-22-2012

API No. 15
057-20623-00-00

Company Ritchie Exploration, inc.		Lease Ford Cattle Unit		Well Number #1	
County Ford	Location 57' N & 158' E of W/2 SE/4	Section 32	TWP 27	RNG (E/W) 22W	Acres Attributed 640
Field Lamb North	W2 SE	Reservoir Mississippian	Gas Gathering Connection Superior Pipeline		
Completion Date 06-29-10		Plug Back Total Depth 5057'	Packer Set at		
Casing Size 4.50"	Weight 10.5#	Internal Diameter 4.052"	Set at 5149'	Perforations 4991'	To 5012'
Tubing Size 2.375"	Weight 4.7#	Internal Diameter 1.995"	Set at 5013'	Perforations	To
Type Completion (Describe) New	Type Fluid Production None		Pump Unit or Traveling Plunger? No		Yes / No
Producing Thru (Annulus / Tubing) Tubing	% Carbon Dioxide 0.053	% Nitrogen 9.389	Gas Gravity - G _g 0.657		
Vertical Depth(H) 5152'	Pressure Taps Flange		(Meter Run) (Prover) Size 3.067"		
Pressure Buildup: Shut in	02-21	20	12	12:30 PM	(AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)
Well on Line: Started	02-22	20	12	12:45 PM	(AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter 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 ₁) or (P ₂)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						300	314	280	294	24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _o) 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 (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_w)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :


(P _c) ² - (P _a) ² or (P _c) ² - (P _w) ²	(P _a) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability 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 27th day of February, 20 12.

Witness (if any)

For Commission



For Company

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FEB 29 2012

Checked by

KCC WICHITA

I declare under penalty of 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 Ritchie Exploration, Inc.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the Ford Cattle Unit #1 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 not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 02-28-2012

Signature: 

Title: Production Manager
JOHN NIERNBERGER

Instructions: If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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February 28th, 2012

Kansas Corporation Commission
Conservation Division
130 S. Market, Suite 2078
Wichita, Kansas 67202
ATTN: Jim Hemmen

Re: #1 Ford Cattle Unit #1
Sec. 32-27S-22W
Ford County, Kansas

Mr. Hemmen,

Enclosed please find the 24-hour Shut-in Test (Form G-2) on the above referenced well. Ritchie Exploration, Inc. would like for this to be held confidential for the maximum allowable time.

If you have any questions or concerns, please feel free to call me at (316) 691-9520. Thank you for your assistance in this matter.

Sincerely,

John Niernberger
Production Manager

Enclosure

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KCC WICHITA



Yearly and monthly production



Ford Cattle Unit Lease

Lease: Ford Cattle Unit
Operator: Ritchie Exploration, Inc.
Location: T27S, R22W, Sec. 32
KS Dept. of Revenue Lease Code: 232278
Field: Lamb North
County: Ford
Producing Zone:
Well Data:

T27S R22W, Sec. 32, W2 SE
Lease: Ford Cattle Unit 1
Operator: Ritchie Exploration, Inc.

15-057-20623

Complete detailed production available in file saved using blue button at top of page.

Annual Gas Production, (mcf)

Year	Production	Wells
Production Charts Flash Chart		
2010	74,638	1
2011	124,453	1

*2011 data incomplete at this time.
 Data from previous years may still change.

Note: bbls is barrels; mcf is 1000 cubic feet.

Sample Monthly Gas Production, (mcf)

Year	Month	Production	Wells	Purchaser
2010	7	8600	1	Superior Pipeline Co LCC (100%)
2010	8	11029	1	Superior Pipeline Co LCC (100%)
2010	9	11069	1	Superior Pipeline Co LCC (100%)
2010	10	15378	1	Superior Pipeline Co LCC (100%)
2010	11	13679	1	Superior Pipeline Co LCC (100%)
2010	12	14883	1	Superior Pipeline Co LCC (100%)
2011	1	21377	1	Superior Pipeline Co LCC (100%)
2011	2	15339	1	Superior Pipeline Co LCC (100%)
2011	3	15737	1	Superior Pipeline Co LCC (100%)
2011	4	19233	1	Superior Pipeline Co LCC (100%)
2011	5	13936	1	Superior Pipeline Co LCC (100%)
2011	6	11060	1	Superior Pipeline Co LCC (100%)

2011	7	9355	1	Superior Pipeline Co LCC (100%)
2011	8	8018	1	Superior Pipeline Co LCC (100%)
2011	9	6018	1	Superior Pipeline Co LCC (100%)
2011	10	4380	1	Superior Pipeline Co LCC (100%)

Pre-1987 cumulative data and monthly volume data is provided under license agreement to the KGS by IHS Energy. As such, it may be reviewed and used for public service and research purposes. It may not be downloaded or used for purposes of re-packaging, reselling or dissemination to third parties.

Kansas Geological Survey
 Comments to webadmin@kgs.ku.edu
 URL=<http://www.kgs.ku.edu/Magellan/Field/lease.html>
 Programs Updated May 23, 2005
 Data from Kansas Dept. of Revenue files monthly.