

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
09/13 to 09/14/10

API No. 15
025-21,502-00-00

Company Falcon Exploration		Lease YBC		Well Number 2-34 (NW)	
County Clark	Location NESWSEW	Section 34	TWP 30S	RNG (E/W) 22W	Acres Attributed
Field Cat Creek		Reservoir Morrow Sand		Gas Gathering Connection Lost River	
Completion Date 8/04/10		Plug Back Total Depth 5285		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter 6.07	Set at 5550	Perforations 5255	To 5260
Tubing Size 2.375	Weight	Internal Diameter 5.296	Set at 5267	Perforations	To
Type Completion (Describe) single		Type Fluid Production none		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .0931		% Nitrogen 8.4185	
Vertical Depth(H)		Pressure Taps Flange		(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in <u>09/10</u> 20 <u>10</u> at <u>9:15 am</u> (AM) (PM) Taken <u>09/13</u> 20 <u>10</u> at <u>9:15 am</u> (AM) (PM)					
Well on Line: Started <u>09/13</u> 20 <u>10</u> at <u>9:30 am</u> (AM) (PM) Taken <u>09/14</u> 20 <u>10</u> at <u>9:30 am</u> (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 72 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 _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						1321	1335.4	1321	1335.4	72	
Flow	1.500	69	47.3	66		1086	1100.4	1086	1100.4	24	0

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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
11.41	83.4	62.81	1.225	.9943	-----	873		.666

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1783.293 ; (P_w)² = 1210.880 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_d)² = _____

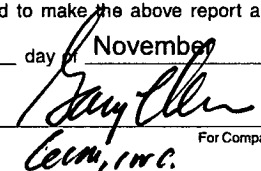
(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1783.086	572.413	3.115	.4943	.815	.4028	2.53	2208

Open Flow **2208** Mcfd @ 14.65 psia X .50 = Deliverability **1104** 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 12th day of November, 20 10.

Witness (if any)

For Commission



For Company
Checked by

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KCC WICHITA

FALCON EXPLORATION, INC.
OIL & GAS EXPLORATION

125 N. MARKET, SUITE 1252
WICHITA, KANSAS 67202

TELEPHONE: (316)262-1378
FAX: (316)265-3354

November 16, 2010

Kansas Corporation Commission
130 S. Market, Room 2078
Wichita, Kansas 67202-3802


Re: YBC #2-34(NW)
API #15-025-21502-0000
NW/4 Section 34-30S-22W
Clark County, Kansas

Gentlemen:

Enclosed please find the initial one point open flow (form G-2) and multipoint back pressure test (Form CG-1) performed on the above captioned well. Please be advised this well is currently being held "**CONFIDENTIAL**".

Sincerely,

FALCON EXPLORATION, INC.


Cynthia L. Wolf

clw
Encl.

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Post-it® Fax Note	7671	Date	# of pages ▶
To Jim Hemmen	From CYNDE	NC.	
Co./Dept.	Co. FALCON EX		
Phone #	Phone # 402-1378		
Fax # 337-6211	Fax #		

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8/16/2010

GAS ANALYSIS REPORT

METER NUMBER :	9006/9007	SAMPLE TYPE :	SPOT
METER NAME :	YBC LATERAL	SAMPLE DATE :	08/04/2010
METER ID :	FALCON EXPLORATION	SAMPLE PRES / TEMP :	48 / 73
PRODUCER :		SAMPLED BY :	GM
COMPANY :	FALCON EXPLORATION	EFFECTIVE DATE :	08/01/2010

COMPONENT	PERCENT	<u>BTU VALUES @ 14.65</u>		<u>BTU VALUES @ 14.73</u>	
Helium	He 0.2270	REAL DRY	1058.93	REAL DRY	1064.71
Oxygen	O2 0.0000	REAL WET	1040.39	REAL WET	1046.08
Hydrogen Sulfide	H2S 0.0000				
Carbon Dioxide	CO2 0.1650				
Nitrogen	N2 5.6605				
Methane	C1 85.6799	<u>GPM VALUES @ 14.65</u>		<u>GPM VALUES @ 14.73</u>	
Ethane	C2 4.8478	C2	1.2887	C2	1.2958
Propane	C3 1.6666	C3	0.4564	C3	0.4589
I-Butane	iC4 0.3981	iC4	0.1295	iC4	0.1302
N-Butane	nC4 0.5946	nC4	0.1864	nC4	0.1874
I-Pentane	iC5 0.2309	iC5	0.0841	iC5	0.0845
N-Pentane	nC5 0.1887	nC5	0.0680	nC5	0.0683
Hexane Plus	C6+ 0.3409	C6+	0.1479	C6+	0.1487
TOTALS	100.0000		2.3610		2.3738

SPECIFIC GRAVITY

REAL DRY 0.6508
REAL WET 0.6503

COMPRESSIBILITY FACTOR

Z FACTOR DRY 0.9976
Z FACTOR WET 0.9976

GALLONS PER THOUSAND

GPM TOTALS @ 14.65

C2 + GPM 2.3610
C3 + PGM 1.0723
C4 + GPM 0.6159
C5 + GPM 0.3000

GPM TOTALS @ 14.73

C2 + GPM 2.3738
C3 + PGM 1.0780
C4 + GPM 0.6191
C5 + GPM 0.3015

COMMENTS :

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STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1 Rev.

TYPE TEST: Initial Annual Special **TEST DATE:** 9/13/10
COMPANY: Falcon Exploration **LEASE:** YBC **WELL NO.:** 2-34 (NW)
COUNTY: Clark **LOCATION:** NESWSEW **SECTION:** 34 **TWP:** 30S **RNG (E/W):** 22W **ACRES:**
API WELL NUMBER: 15-025-21,502 **RESERVOIR:** Morrow **PIPELINE CONNECTION:** Lost River
COMPLETION DATE: 8/04/10 **PLUG BACK TOTAL DEPTH:** 5285 **PACKER SET AT:** none
CASING SIZE: 5.5 **WT.:** **ID.:** **SET AT:** -5550 6107 **PERF.:** 5255 **TO:** 5260
TUBING SIZE: 2.375 **WT.:** **ID.:** **SET AT:** 5296 5267 **PERF.:** **TO:**
TYPE COMPLETION (Describe): single **TYPE FLUID PRODUCTION:** SW
PRODUCING THRU: Tubing **RESERVOIR TEMPERATURE °F:** **BAR PRESS -P_s:** 14.4
GAS GRAVITY -G_s: .666 **% CARBON DIOXIDE:** .0931 **% NITROGEN:** 8.4185 **API GRAVITY OF LIQUID:**
VERTICAL DEPTH (H): **TYPE METER CONNECTION:** flange **(METER RUN) (PROVER) SIZE:** 3"

REMARKS: Tested into Lost River Pipeline (250" EFM)

OBSERVED DATA										DURATION OF SHUT-IN 72 HR.	
RATE NO.	ORIFICE SIZE in	(METER) (PROVER) PRESSURE Psig	DIFF. (h _w) (h _e)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig (P _w)(P _i)(P _e) Psia		TBG WELLHEAD PRESS. Psig (P _w)(P _i)(P _e) Psia		FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
SHUT IN						1321	1335.4	1321	1335.4	72	
1	1.500	58	26.6	79		1261	1275.4	1261	1275.4	.75	0
2	"	79	62.4	70		1189	1203.4	1186	1200.4	.75	0
3	"	102	103.5	67		1100	1114.4	1090	1104.4	.75	0
4	"	117	146.1	66		1013	1027.4	1000	1014.4	.75	0
5											

RATE OF FLOW CALCULATIONS									
RATE NO.	COEFFICIENT (F _o) (F _p) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS EXTENSION $\sqrt{P_w \cdot h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mcfd	GOR (ft ³ /Bbl)	G _w
1	11.41	72.4	43.88	1.225	.9822	--	602		
2	"	93.4	76.34	"	.9905	--	1057		
3	"	116.4	109.76	"	.9933	--	1523		
4	"	131.4	138.55	"	.9943	--	1947		
5									

PRESSURE CALCULATIONS								
RATE NO.	P _i Psia	P _c Psia	P _w Psia	(P _e) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTTING POINTS		% SHUT-IN 100 $\frac{(P_w - P_e)}{(P_c - P_e)}$
						(P _e) ² - (P _w) ² THOUSANDS	Q Mcfd	
1	2755.4	1335.4	1275.4	1783.3	1626.6	156.7	602	95.5
2	200.4	"	1203.4	"	1448.2	335.1	1057	90.1
3	104.4	"	1114.4	"	1241.8	541.5	1523	83.5
4	014.1	"	1027.4	"	1055.5	727.8	1947	76.9
5								

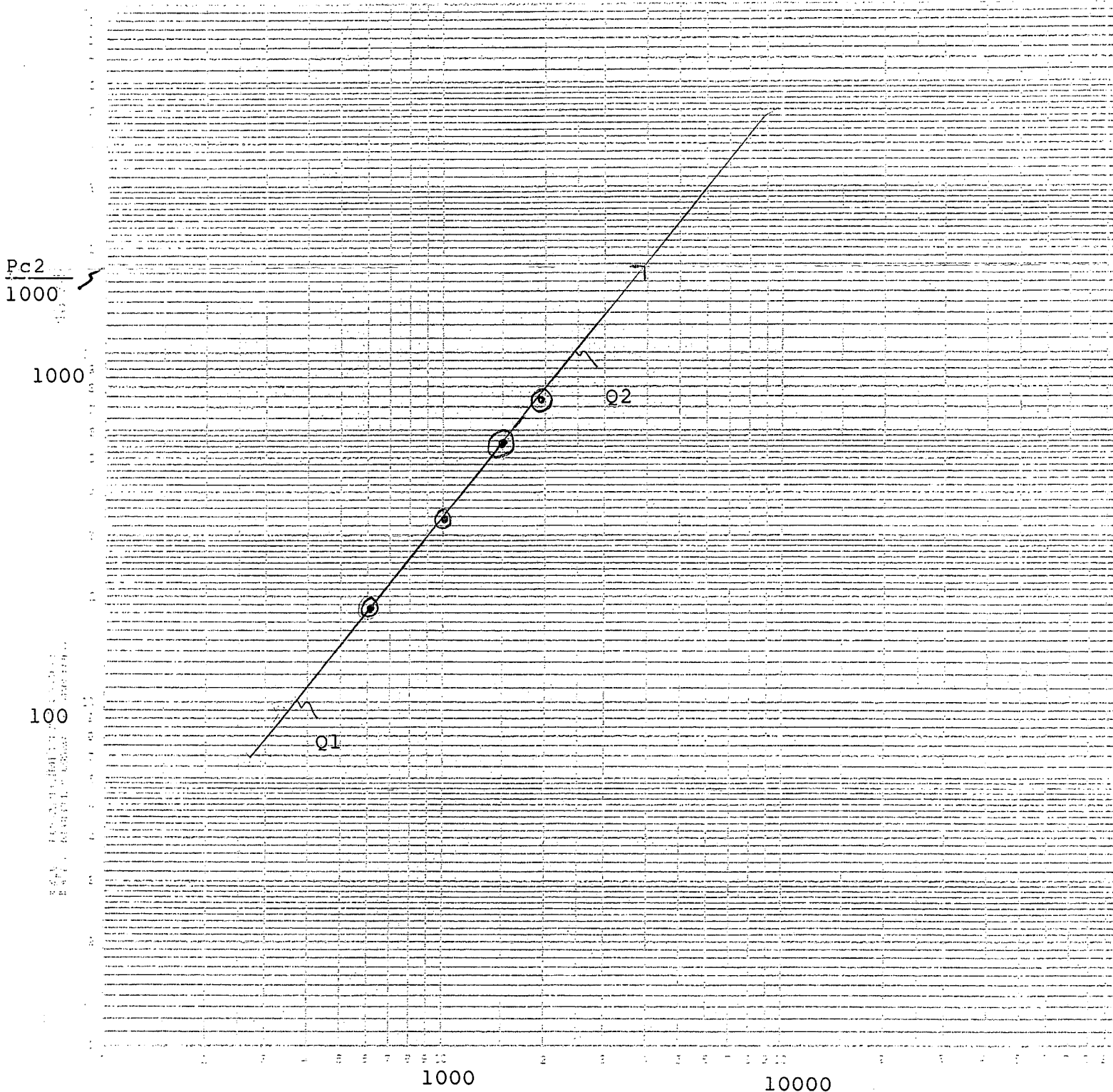
INDICATED WELLHEAD OPEN FLOW 3.900 Mcfd @ 14.65 Psia "n" = .815

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 2th day of November 2010.

Witness (if any) _____ For Commission
 _____ For Company
 GUM, INC.

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 Checked By (Rev.10/96)

Falcon Exploration - YBC # 2-34 (NW)
 NESWSENW Sec. 34-30S-22W
 Clark County
 Tested 9/13/10



Q2 - 2650 - 3.389 log
 Q1 - 375 - 2.574 log

"n" = .815

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