

15-103-20578-00-00
STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

TYPE TEST: Deliverability Open Flow TEST DATE: 2/16/86

COMPANY: LV Gas Corp. LEASE: Brommell WELL NO.: 1

COUNTY: Leavenworth LOCATION: SE SW SE SECTION: 36 TWP: 8 RNG: 21 E ACRES: N/A

FIELD: Possum Hollow NE RESERVOIR: Bu PIPELINE CONNECTION: The Chartered Line

COMPLETION DATE: 1-27-86 PLUG BACK TOTAL DEPTH: 1490' PACKER SET AT: None

CASINO SIZE: 4 1/2" WT. L.D. SET AT: 1484' PERF. TO: 1429' 1432'

TUBING SIZE: N/A WT. L.D. SET AT: PERF. TO:

TYPE COMPLETION (Describe): Single (Gas) TYPE FLUID PRODUCTION: None

PRODUCING THRU: Casing RESERVOIR TEMPERATURE F: BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: .586 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID: N/A

VERTICAL DEPTH (H): TYPE METER CONN.: N/A (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN _____ 19 AT _____ (AM)(PM) TAKEN _____ 19 AT _____ (AM)(PM)

FLOW TEST: STARTED _____ 19 AT _____ (AM)(PM) TAKEN _____ 19 AT _____ (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN _____ HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						470	484.4	—		3 1/2 wks.	
FLOW	0.500	116	N/A	72		400	414.4	—		24	0

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mshw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
4.388	130.4	—	1.306	0.9896	1.013	748.8	None	.586

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 234.6 ; (P_w)² = 171.7 ; P_d² = _____ % (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	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
234.4	62.9	3.7266	0.5713	0.850	0.4856	3.060	2291.2

OPEN FLOW 2291 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 _____ day of _____, 19__.

 Witness (if any)
 For Commission

 For Company

 Checked by

October, 1986

29
12-12-86

Bromell #1

Operator-- L. V. Gas, Inc.
Operator License Number-- 4898
Operator Address-- 222 W. Main; Chanute, KS 66720
Operator Phone Number-- (316) 431-3141
Lease-- Bromell
Location-- SW SE 36
Township-- 8S
Range-- 21E
County-- Leavenworth
Gas Purchaser-- LAGGS
Gas BTU's--

INITIAL OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)--	425
Shut-In Pressure on Prover (psi)--	460
Orifice Size (3/4 inch) and Coefficient--	224.9
Specific Gravity--	.5869
Temperature of Gas (+459.69F)--	536.69
Open Flow (MCF/D)	5,384.9
One-Quarter of Open Flow (MCF/D)--	1,346.2
Adjusted State Allowable (MCF/D)--	1,346.2

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)--	
Shut-In Pressure on Prover (psi)--	
Orifice Size (inch) and Coefficient--	
Specific Gravity--	
Temperature of Gas (+459.69F)--	
Open Flow (MCF/D)--	
One-Quarter of Open Flow (MCF/D)--	
Adjusted State Allowable (MCF/D)--	
Current Production Rate (MCF/D)--	144.4

TESTER--Larry Culbertson--LAGGS, INC.--913-773-8514
COMMENTS--