

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		TEST DATE: 1/14/2002			
COMPANY KLM Exploration Inc.		LEASE Bower		WELL NO. 8-A	
COUNTY Jefferson	LOCATION SE NE NE	SECTION 5 10s	TWP 20E	RNG	ACRES
FIELD McClouth		RESERVOIR Mississippian			
COMPLETION DATE		PLUG BACK DEPTH TOTAL DEPTH 1690		PACKER SET AT	
CASING SIZE 4.500	WT. 10.500	ID 4.052	SET AT 1682	PERF. 1508	TO 1512
TUBING SIZE NONE	WT.	ID	SET AT	PERF.	TO
TYPE COMPLETION (Describe) Natural			TYPE FLUID PRODUCTION		
PRODUCING THRU (Annulus/Tubing) Casing		RESERVOIR TEMPERATURE F 87		BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - Gg .603		% CARBON DIOXIDE .341		% NITROGEN 2.897	
VERTICAL DEPTH (ft) 1510		TYPE METER CONN.		PROVER SIZE 2"	
REMARKS started making fluid during 4th flow period					

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(PROVER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN						488	503				
1.	.250	133.70		36		463	477			.80	
2.	.375	76.20		41		429	443			.80	
3.	.375	92.60		39		376	391			.80	
4.	.375	98.90		37		310	325			.80	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _p) Mcfd	(PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G _m
1.	1.115	148.1	148.10	1.2878	1.0239	1.0134	220		.603
2.	2.439	90.6	90.60	1.2878	1.0188	1.0079	292		.603
3.	2.439	107.0	107.00	1.2878	1.0208	1.0094	346		.603
4.	2.439	113.3	113.30	1.2878	1.0229	1.0101	367		.603

PRESSURE CALCULATION

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² Thousands	(P _w) ² Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² Thousands	Q Mcfd	
1.	477.9	503.3	477.9	253.3	228.4	24.9	220.7	94.8
2.	443.4	503.3	443.4	253.3	196.6	56.7	292.2	87.8
3.	391.1	503.3	391.1	253.3	153.0	100.3	346.3	77.1
4.	325.0	503.3	325.0	253.3	105.7	147.7	367.7	63.5

INDICATED WELLHEAD OPEN FLOW

470

Mcfd @ 14.65 psia

"n" = .325

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 24 day of Jan, 2002

Witness (if any)

For Company

For Commission

Checked by

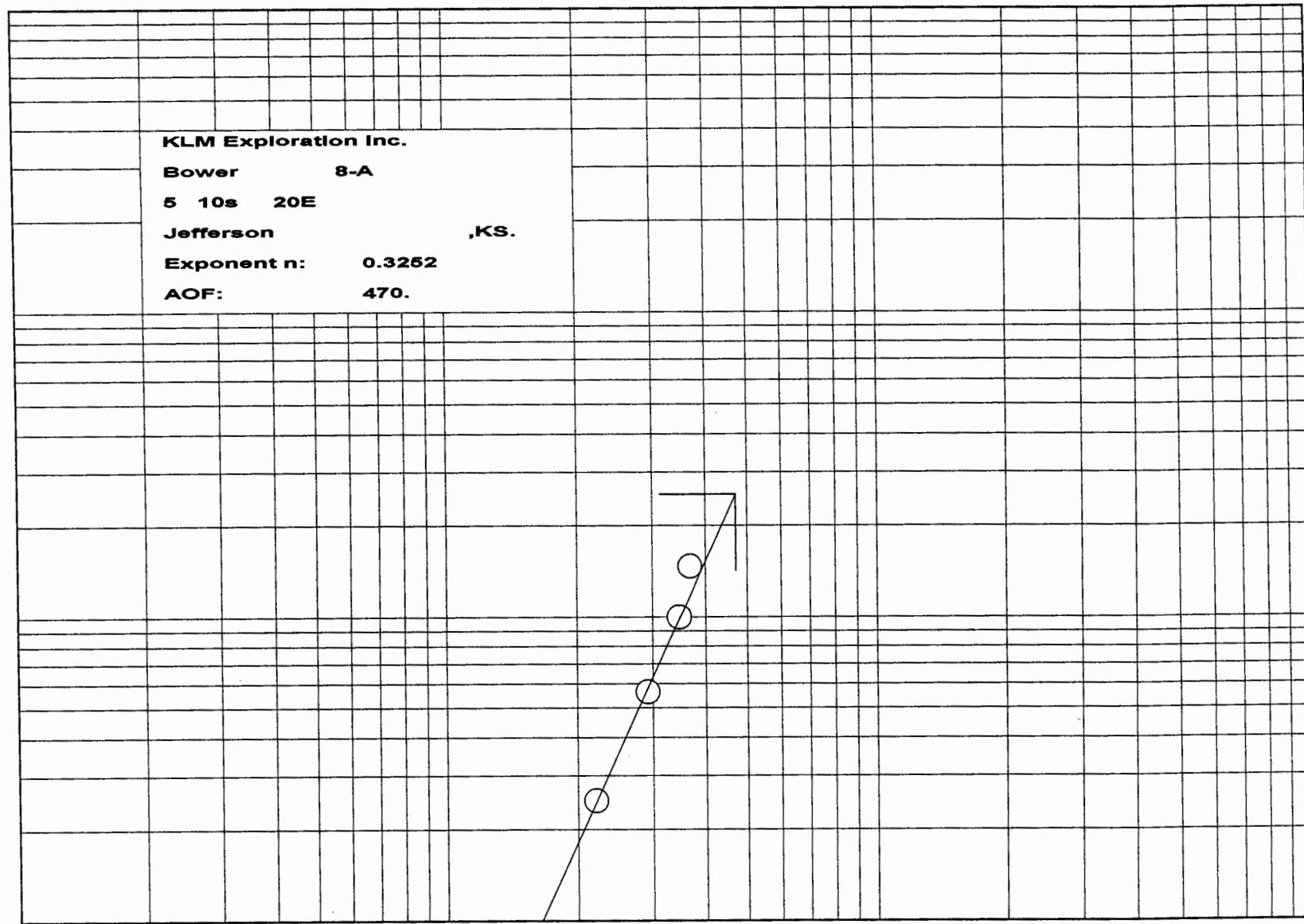
GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing

TEST DATE: 1/14/2002

KLM Exploration Inc.
Bower 8-A
5 10s 20E
Jefferson ,KS.
Exponent n: 0.3252
AOF: 470.

$P_c^2 - P_w^2$ (10 PSI)²



10

100

1000

Q (MCF/DAY)

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, Inc.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 785-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 620-624-5389
 Fax: 620-626-7108

Lab Number: 20020247
 Sample From: Bower 8-A 4pt
 Producer: KLM
 Date:
 Time:
 Sampler:
 Source:

Analyzed: 01/22/02
 Pressure:
 Temperature:
 Location:
 County: Jefferson
 State: Kansas
 Formation: Miss

	Mole %	GPM
Helium	He: 0.032	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.879	0.000
Carbon Dioxide	CO2: 0.341	0.000
Methane	C1: 91.968	0.000
Ethane	C2: 3.681	0.984
Propane	C3: 0.597	0.165
Iso Butane	iC4: 0.181	0.059
Normal Butane	nC4: 0.112	0.035
Iso Pentane	iC5: 0.046	0.017
Normal Pentane	nC5: 0.056	0.020
Hexanes Plus	C6+: 0.107	0.047
TOTAL:	100.000	1.327
Z Fact:	0.9979	
SP.GR.:	0.6032	
BTU (SAT):	1014.7 @ 14.73 psia	
BTU (DRY):	1032.7 @ 14.73 psia	
OCTANE RATING:	124.3	

COMMENTS:

0.000

Field Measurements

	Date	Clock Time	Comments	Casing Pres psi(g)	Static1 Pres psi(g)	Meter1 Temp °F	Orifice1 in	Gas1 Rate MMCF/D
1	2002/01/14	14:25:00	shutin					
2		14:25:00		488.90	0.00	0.00	0.000	0.000
3		14:35:00		481.50	116.00	36.00	0.250	0.192
4		14:45:00		476.30	125.00	36.00		0.206
5		14:55:00		467.40	148.40	36.00		0.241
6		15:05:00		465.60	136.00	36.00		0.222
7		15:10:00	1ST PT					
8		15:10:00		463.50	133.70	38.00		0.218
9		15:20:00		456.15	69.00	40.00	0.375	0.266
10		15:35:00		446.80	72.00	39.00		0.276
11		15:40:00		440.80	79.71	40.00		0.300
12		15:55:00	2ND PT					
13		15:55:00		429.00	76.18	40.50		0.289
14		16:10:00		407.00	100.00	41.60		0.366
15		16:25:00		392.60	96.98	40.90		0.356
16		16:40:00	3RD PT					
17		16:40:00		376.70	92.60	39.20		0.343
18		16:55:00		353.10	114.40	38.00		0.414
19		17:10:00		332.80	106.90	37.10		0.390
20		17:25:00	4thpt					
21		17:25:00		310.60	98.90	36.00		0.364
22		17:40:00		291.50	100.40	35.00		0.370
23								
24								

2002/01/14 14:25:00 To 2002/01/14

Gas 0.042 Cum. 0.042 MMCF

Plot

