

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 8/27/07	
COMPANY Gra Ex LLC		LEASE Astle	
		WELL NO. #1	
COUNTY Stafford	LOCATION 1650'FSL 480'FE	SECTION 6 25s 13w	ACRES 160
FIELD Seevers	RESERVOIR Mississippi	PIPELINE CONNECTION ONEOK	
COMPLETION DATE 8/24/07	PLUG BACK DEPTH 4297	PACKER SET AT	
	TOTAL DEPTH 4297		
CASING SIZE 5.500	WT. 15.500	ID 4.950	SET AT 4319
			PERF. 4012
			TO 4030
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 4007
			PERF. 4012
			TO 4030
TYPE COMPLETION (Describe) Perforation		TYPE FLUID PRODUCTION Oil/Water	
PRODUCING THRU (Annulus/Tubing) Tubing		RESERVOIR TEMPERATURE F 111	
		BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - Gg 0.689		% CARBON DIOXIDE	
		% NITROGEN 16.026	
VERTICAL DEPTH (H) 4021		TYPE METER CONN. Flange	
		PROVER SIZE 2	
REMARKS			

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						986	1000			72.00	
1.	1.000	11.00		59	60	941	955			1.00	
2.	1.000	21.30		51	60	890	904			1.00	
3.	1.000	25.80		47	60	833	847			1.00	
4.	1.000	30.00		47	60	783	797			1.00	

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.	17.530	25.4	25.40	1.2047	1.0010	1.0016	537		0.689
2.	17.530	35.7	35.70	1.2047	1.0088	1.0027	762		0.689
3.	17.530	40.2	40.20	1.2047	1.0127	1.0032	862		0.689
4.	17.530	44.4	44.40	1.2047	1.0127	1.0038	953		0.689

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) ² Thousands	(Pw) 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.	14.4	1000.4	955.4	1000.8	912.8	88.0	537.8	95.4
2.	14.4	1000.4	904.4	1000.8	817.9	182.9	762.6	90.3
3.	14.4	1000.4	847.4	1000.8	718.1	282.7	862.6	84.5
4.	14.4	1000.4	797.4	1000.8	635.8	365.0	953.2	79.4

INDICATED WELLHEAD OPEN FLOW

1433

Mcfd @ 14.65 psia

"n" = 0.403

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 10 day of Sept, 2007

Witness (if any)

For Commission

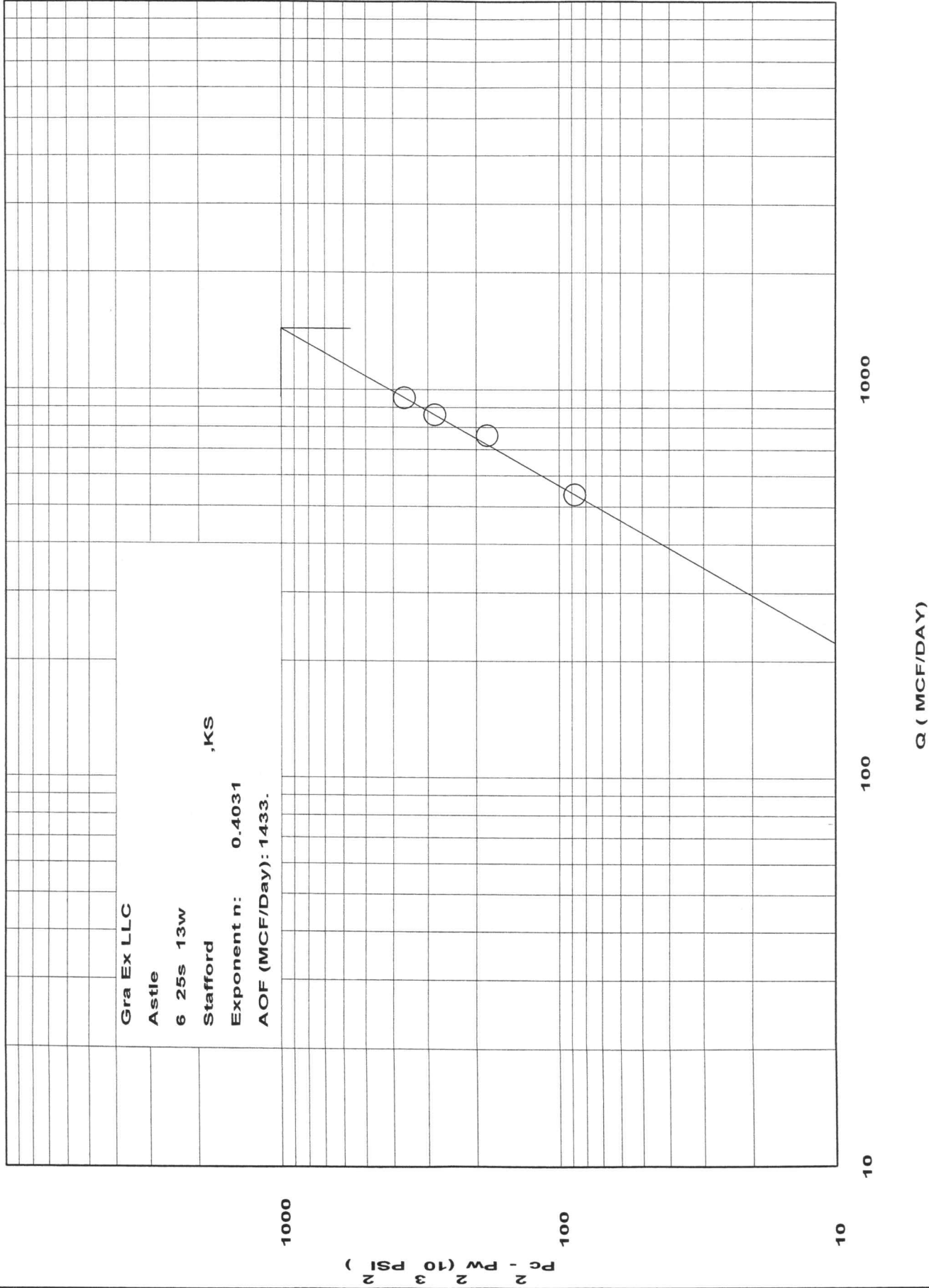
For Company

Checked by

INV #10590

WELL TESTER: Trilobite Testing
TEST DATE: 8/27/07

GAS WELL BACK PRESSURE CURVE



Job Number:
Formation:
Field:
Pool:

Field Measurements

[illegible]

Plot 1

