

33-28s-40w

15-187-20958

GENERAL INFORMATION

Client Information:

Company: Wabash Production Corp

Contact: Bob Kinney

Phone: Fax: e-mail:

Site Information:

Contact: Robert Gonzales

Phone: Fax: e-mail:

Well Information:

Name: Western Feedlot 1-1133

Operator: Wabash Production

Location-Downhole: SW NE SW 33 ~~28~~s 40w Stanton KS

Location-Surface:

Test Information:

Company: Trilobite Testing

Representative:

Supervisor: Paul Simpson

Test Type: Initial 4 pt Job Number:

Test Unit:

Start Date: 2001/11/12 Start Time: 09:45:00

End Date: 2001/11/13 End Time: 13:05:00

Report Date: Prepared By:

Qualified By:

11 miles from ken white cullers well

CNB to WF 1m

4pt

1pt

9pt

11-12 11 1/2 1.85

11-12

29.5

11.9

6.0

9.35

.85

**KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST**

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 11. 12.2001	
COMPANY Wabash Production		LEASE Western Feedlot	
WELL NO. 1-1133			
COUNTY Stanton	LOCATION SW NE SW	SECTION 33	TWP 28s 40w
ACRES 320			
FIELD Wildcat	RESERVOIR Upper Morrow	PIPELINE CONNECTION El Paso	
COMPLETION DATE	PLUG BACK DEPTH 5360	PACKER SET AT	
	TOTAL DEPTH 5360		
CASING SIZE 5.500	WT. 15.500	ID 4.950	SET AT 5565
PERF. 5020		TO 5026	
TUBING SIZE 2.875	WT. 6.500	ID 2.441	SET AT 5028
PERF.		TO	
TYPE COMPLETION (Describe) natural		TYPE FLUID PRODUCTION	
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 139	
BAR PRESS - Pa 14.4 psia			
GAS GRAVITY - Gg .794	% CARBON DIOXIDE .155	% NITROGEN 23.145	
API GRAVITY OF LIQUID			
VERTICAL DEPTH (H) 5023	TYPE METER CONN. flange		METER RUN SIZE 4.053
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) 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						1146	1160	1088	1102		
1.	2.000	47.90	20.00	64		1058	1072	1000	1014	1.00	
2.	2.000	47.20	27.70	83		1038	1052	972	986	1.00	
3.	2.000	53.80	49.90	72		988	1002	926	940	1.00	
4.	2.000	61.90	79.40	71		906	920	841	855	1.00	.3

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _D) Mcfd	(METER) 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.	20.320	62.3	35.30	1.1220	.9962	1.0057	806		.794
2.	20.320	61.6	41.31	1.1220	.9786	1.0050	926		.794
3.	20.320	68.2	58.34	1.1220	.9887	1.0060	1322		.794
4.	20.320	76.3	77.83	1.1220	.9896	1.0067	1767	294635.6	.808

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.	1014.4	1160.4	1072.4	1346.5	1150.0	196.5	806.3	92.3
2.	986.4	1160.4	1052.4	1346.5	1107.5	239.0	926.2	90.6
3.	940.4	1160.4	1002.4	1346.5	1004.8	341.7	1322.8	86.2
4.	855.4	1160.4	920.4	1346.5	847.1	499.4	1767.8	79.1

INDICATED WELLHEAD OPEN FLOW 4215 Mcfd @ 14.65 psia "n" = .865

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 29 day of Nov, 2001

Witness (if any)

For Commission

For Company

Checked by

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev.8/98)

TYPE TEST:

☒ Open Flow
☒ Deliverability

TEST DATE: 11/13/2001

API No. 15-187-20958

Company Wabash Production		Lease Western Feedlot		Well Number 1-1133	
County Stanton	Location SW NE SW	Section 33	TWP 28s	RNG (E/W) 40w	Acres Attributed 320
Field Wildcat		Reservoir Upper Morrow		Gas Gathering Connection El Paso	
Completion Date		Plug Back Total Depth 5360		Packer Set at	
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 5565	Perforations 5020	To 5026
Tubing Size 2.875	Weight 6.500	Internal Diameter 2.441	Set at 5028	Perforations	To
Type Completion (Describe) natural		Type Fluid Production		Pump Unit or Traveling Plunger? no	
Producing Thru (Annulus/Tubing) tubing		% Carbon Dioxide .155		% Nitrogen 23.145	Gas Gravity- Gg .794
Vertical Depth (ft) 5023		Pressure Taps flange		Meter Run Size 4.053	
Pressure Buildup: Shut in 11/9/2001 @ 1445		TAKEN 11/12/2001 @ 945			
Well on Line: Started 11/12/2001 @ 945		TAKEN 11/13/2001 @ 1305			

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						1146	1160	1088	1102		
Flow	2.000	51.1	31.50	62		988	1002	965	979		

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _D) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G _m
20.320	65.5	45.42	1.1223	.9981	1.0061	1040	397270	.804

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P _c) ² = 1346.5		(P _w) ² = 1004.8		Pd = 4.4		(P _c - 14.4) + 14.4 =		(Pa) ² = 0.207
								(Pd) ² = 2.61
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd	
1346.32	341.72	3.940	.5955	.864	.5145	3.270	3400	
1343.92	341.72	3.933	.5947	.864	.5138	3.265	3395	

OPEN FLOW 3400 Mcfd @ 14.65 psia **DELIVERABILITY** 3395 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 herein and that said report is true and correct. Executed this the 29 day of Nov, 2001

Witness (if any)

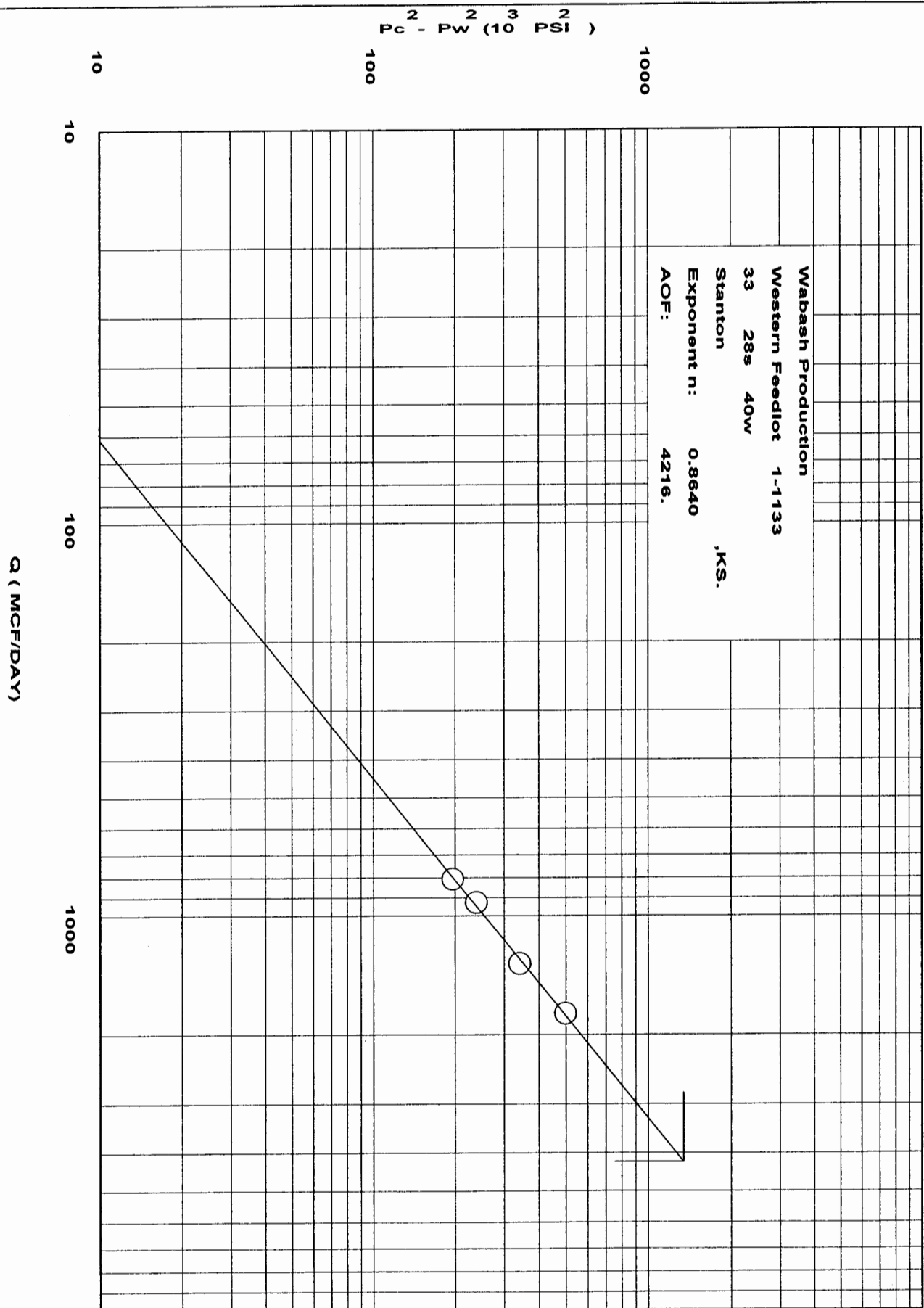
For Commission

For Company

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing
TEST DATE: 11. 12.2001



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: 20015953

Analyzed: 11/28/01

Sample From: Western Feed Lot 4pt

Pressure:

Producer: Wabash Production

Temperature:

Date: Location: 33-28-40

Time:

County: Stanton

Sampler:

State: Kansas

Source:

Formation: U Morrow

		Mole %	GPM
Helium	He:	0.875	0.000
Hydrogen	H2:	0.002	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	23.145	0.000
Carbon Dioxide	CO2:	0.155	0.000
Methane	C1:	63.337	0.000
Ethane	C2:	4.020	1.075
Propane	C3:	3.998	1.102
Iso Butane	iC4:	0.572	0.187
Normal Butane	nC4:	1.441	0.454
Iso Pentane	iC5:	0.500	0.183
Normal Pentane	nC5:	0.625	0.226
Hexanes Plus	C6+:	1.330	0.580

TOTAL: 100.000 3.808

Z Fact: 0.9974

SP.GR.: 0.7944

BTU (SAT): 977.8 @ 14.73 psia
BTU (DRY): 995.1 @ 14.73 psia
OCTANE RATING: 93.2

COMMENTS:

0.000

Date yyyy/mm/d hh:mm:ss	Clock Time	Comment	Casing		Tubing		Static1		Diff1		Meter1		Gas1	
			Pres	psi(g)	Pres	psi(g)	Pres	psi(g)	in of H2O	°F	Orifice1	in	Rate	MMCF/D
1 2001/11/12	09:45:00	shut in												
2	09:45:00			1146.00		1088.00		0.00	0.00	0.00	0.000	0.000	0.000	
3	10:00:00			1104.00		1050.00		35.47	17.05	53.60	2.000	2.000	0.667	
4	10:15:00							38.00	33.84	40.46			0.979	
5	10:25:00			1052.00		995.00								
6	10:30:00							42.86	21.28	42.40			0.810	
7	10:45:00	1st pt												
8	10:45:00			1058.00		1000.00		47.94	20.00	63.90			0.802	
9	11:10:00							46.88	28.20	81.80			0.928	
10	11:15:00			1045.00		981.00								
11	11:30:00							46.90	27.25	83.68			0.911	
12	11:40:00			1038.00		972.00								
13	11:45:00	2nd pt												
14	11:45:00							47.23	27.67	82.67			0.922	
15	12:00:00			1017.00		956.00								
16	12:10:00							50.25	38.36	79.39			1.116	
17	12:25:00			1019.00		962.00								
18	12:30:00							49.73	30.82	75.05			1.000	
19	12:45:00			988.00		926.00								
20	12:50:00	3rd pt												
21	12:50:00							53.81	49.91	72.26			1.319	
22	13:05:00			945.00		867.00								
23	13:15:00							61.87	79.42	70.59			1.767	
24	13:30:00			906.00		841.00								
25	13:40:00			885.00		832.00								
26	13:45:00	4th pt												
27	13:45:00							69.20	92.32	71.22			1.997	
28 2001/11/13	13:05:00			988.00		965.00		51.11	31.50	62.33			1.035	
29	13:05:00	1pt												
30														

2001/11/12 09:45:00 To 2001/11/13 13:05:00

Gas 1.659 Cum. 1.659 MMCF

Company: <u>Wabash Production</u> 3661/in									
Address:									
Wellname: <u>Wesley Feed Lot</u> <u>1-1133</u> 139									
Legal: <u>SW NE SW</u> Sec: <u>33</u> Twp: <u>28</u> Rge: <u>40</u>									
Formation: <u>U Morrow</u> Field/Pool: County: <u>Stanton</u> St: <u>KS</u>									
Casing size: <u>5.5</u>		Feet of:		Wt:		Meter run size: <u>4.053</u>		SI: <u>1146</u>	
Tubing Size: <u>2.875</u>		Feet of:		Wt:		Orif (in): <u>2</u>		95% <u>1089</u>	
TD:		Plugged back depth:			Packer depth:			90% <u>1031</u>	
Type Test:			Tap Type:			Gravity: <u>7457</u>		85% <u>974</u>	
Type Completion: <u>894.42 ISV</u>				Producing through: <u>14</u>				80% <u>917</u>	
Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
11/12	943	1088	1146						
	1000	1050	1104	17.05	53.6	35.47			20.32
	1015	1085	1052	33.84	40.46	38.00			
	1025	995	1052						
	1030			21.28	42.4	42.86			
	1045	1000	1058	20	63.9	47.99			kt pt
11/10	1040	981	1045	28.20	81.8	46.80			
11/15		981	1045	2					
11/30				27.25	83.88	46.9			
11/10		972	1038						
11/45				27.67	82.67	47.23			2nd pt
12/00		956	1017						
12/10				38.36	77.35	50.25			
12/25		962	1019						
12/30				30.82	75.05	49.73			
12/45		926	988		75.28				
12/50				49.91	72.26	53.8			3rd pt
13/05		867	945						
13/15				79.42	70.89	61.87			
13/30		841	906						
Date	Miles	Name	Date	Miles	Name	Date	Miles	Name	
13/40		832	885						
13/45				92.32	71.22	69.2			
	11	From Ka	White						

11/13 1305 965 988 31.5 62.33 51.11 1060 mof

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- ☐ Open Flow
☐ Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15

15-187-20958-0000

Company Wabash Production & Development, Inc.		Lease Western Feedyard		Well Number #1 - 1133	
County Stanton	Location SW NE SW	Section 33	TWP 28S	RNG (E/W) 40W	Acres Attributed 320
Field Wildcat		Reservoir Up. Morrow		Gas Gathering Connection Elpaso	
Completion Date 11/02/01		Plug Back Total Depth 5360		Packer Set at N/A	
Casing Size 5 1/2	Weight 15.5 lb/ft	Internal Diameter 4.950	Set at 5565	Perforations 5020	To 5026
Tubing Size 2 7/8	Weight 6.5 lb/ft	Internal Diameter 2.441	Set at 5028	Perforations	To
Type Completion (Describe) Natural		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing)		% Carbon Dioxide		% Nitrogen	
Tubing				Gas Gravity - G _g	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in _____ 19 ____ at _____ (AM) (PM) Taken _____ 19 ____ at _____ (AM) (PM)
 Well on Line: Started _____ 19 ____ at _____ (AM) (PM) Taken _____ 19 ____ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in											
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _s) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\frac{1}{2} P_m \times H_w$	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 _g

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_e)^2 =$ _____ : $(P_w)^2 =$ _____ : $P_e =$ _____ % $(P_e - 14.4) + 14.4 =$ _____ : $(P_e)^2 = 0.207$
 $(P_e)^2 =$ _____

$(P_e)^2 - (P_w)^2$ or $(P_e)^2 - (P_a)^2$	$(P_e)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_e^2 - P_w^2$ 2. $P_e^2 - P_a^2$ divided by: $P_e^2 - P_w^2$	LOG of formula 1. or 2. and divide by: $P_e^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- 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 _____ day of _____, 19 ____.

Witness (if any)

For Company

For Commission

Checked by

Wabash Production Corp
 SW NE SW 33 38s 40w Stanton KS
 Start Test Date: 2001/11/12
 Final Test Date: 2001/11/13

Western Feedlot 1-1133

Plot

