26-29s-40w

15-187-20949

GENERAL INFORMATION

Client Information:

Company: Wabash Production

Contact:

Phone: Fax: e-mail:

Site Information:

Contact:

Phone: Fax: e-mail:

Well Information:

Name: Jones 1-226

Operator: Wabash Production

Location-Downhole: 505' FNL 2475' FEL 26 29s 40w Stanton KS

Location-Surface:

Test Information:

Company: Trilobite Testing Inc.

Representative:

Supervisor: Paul SImpson

Test Type: Initial 4 pt test Job Number:

Test Unit:

Start Date: 2001/11/12 Start Time: 14:45:00

End Date: 2001/11/13 End Time: 14:00:00

Report Date: Prepared By:

Remarks: Qualified By:

WF to Jones 7 mi
4.5 to Hugoton

4pt 295.00
1pt 115.00
gn 60.00
0.85 38.25
39.0

11-12 45 min
11-13 48

Fast

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST:	☒ Initial	☐ Annual	☐ Special	TEST DATE:	11.12.2001

COMPANY	LEASE	WELL NO.
Wabash Production	Jones	1-226

COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Stanton	505'FNL 2475'FE	26	29s 40		320

FIELD	RESERVOIR	PIPELINE CONNECTION
wildcat	Upper Morrow	BP Amoco

COMPLETION DATE	PLUG BACK DEPTH	PACKER SET AT
6-5-01	TOTAL DEPTH 5216	

CASING SIZE	WT.	ID	SET AT	PERF.	TO
4.500	11.600	4.000	5260	5098	5104

TUBING SIZE	WT.	ID	SET AT	PERF.	TO
2.375	4.700	1.995	5257	5101	5107

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION
natural	water

PRODUCING THRU (Annulus/Tubing)	RESERVOIR TEMPERATURE F	BAR PRESS - Pa
annulus	140	14.4 psia

GAS GRAVITY - Gg	% CARBON DIOXIDE	% NITROGEN	API GRAVITY OF LIQUID
.749	.109	14.978	

VERTICAL DEPTH (H)	TYPE METER CONN.	METER RUN SIZE
5101	flange	3

REMARKS
safety valve set @ 250# could not test over that pressure thus only 3 pts

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. psig	CASING WELLHEAD PRESS. (P_w) (P_t) (P_c) psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. (P_w) (P_t) (P_c) psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						278	292				
1.	1.125	34.40	3.20	60		247	261			1.00	
2.	1.125	35.60	7.90	60		230	244			1.00	
3.	1.125	36.80	12.10	60		209	223			1.00	
4.											

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F_b) 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.	6.251	48.8	12.50	1.1555	1.0000	1.0046	90		.749
2.	6.251	50.0	19.87	1.1555	1.0000	1.0048	144		.749
3.	6.251	51.2	24.89	1.1555	1.0000	1.0049	180		.749
4.									

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	$(Pc)^2$ Thousands	$(Pw)^2$ Thousands	PLOTTING POINTS $(P_c)^2 - (P_w)^2$ Thousands	PLOTTING POINTS Q Mcfd	% SHUT-IN $100 \left[\frac{Pw - Pa}{Pc - Pa}\right]$
1.	261.4	292.4	261.5	85.5	68.4	17.1	90.7	88.9
2.	244.4	292.4	244.6	85.5	59.8	25.7	144.2	82.8
3.	223.4	292.4	223.8	85.5	50.1	35.4	180.7	75.3
4.								

INDICATED WELLHEAD OPEN FLOW 440 Mcfd @ 14.65 psia "n" = .973

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, 20 01

Witness (if any)

For Company

For Commission

Checked by

KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 11.13.2001 API No. 15-187-20949

Company	Lease	Well Number
Wabash Production	Jones	1-226

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Stanton	505'FNL 2475'FE	26	29s	40	320

Field	Reservoir	Gas Gathering Connection
wildcat	Upper Morrow	BP Amoco

Completion Date	Plug Back Total Depth	Packer Set at
6-5-01	5216	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	11.600	4.000	5260	5098	5104

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.700	1.995	5257	5101	5107

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
natural	water	pumping unit

Producing Thru(Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
annulus	.109	14.978	.749

Vertical Depth (H)	Pressure Taps	Meter Run Size
5101	flange	3.086

Pressure Buildup: Shut in	9.09.2001 @ 1445	TAKEN	9.12.2001 @ 1445
Well on Line: Started	9.12.2001 @ 1445	TAKEN	9.13.2001 @ 1400

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H_2O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P_w) (P_t) (P_c) psig	Casing WellHead Press. psia	Tubing WellHead Press. (P_w) (P_t) (P_c) psig	Tubing WellHead Press. psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						278	292				
Flow	1.125	38.1	5.70	60		227	241				

FLOW STREAM ATTRIBUTES

COEFFICIENT (F_b) 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
6.251	52.5	17.30	1.1555	1.0000	1.0050	125	48762	.831

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 85.5 $(Pw)^2$ = 58.4 Pd = 13.0 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ = 1.44

$(P_c)^2 - (P_a)^2$ 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
85.29	27.13	3.144	.4974	.973	.4840	3.048	382
84.05	27.13	3.098	.4911	.973	.4778	3.005	377

OPEN FLOW 382 Mcfd @ 14.65 psia DELIVERABILITY 377 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 21 day of Nov, 20 01

Witness (if any)

For Company

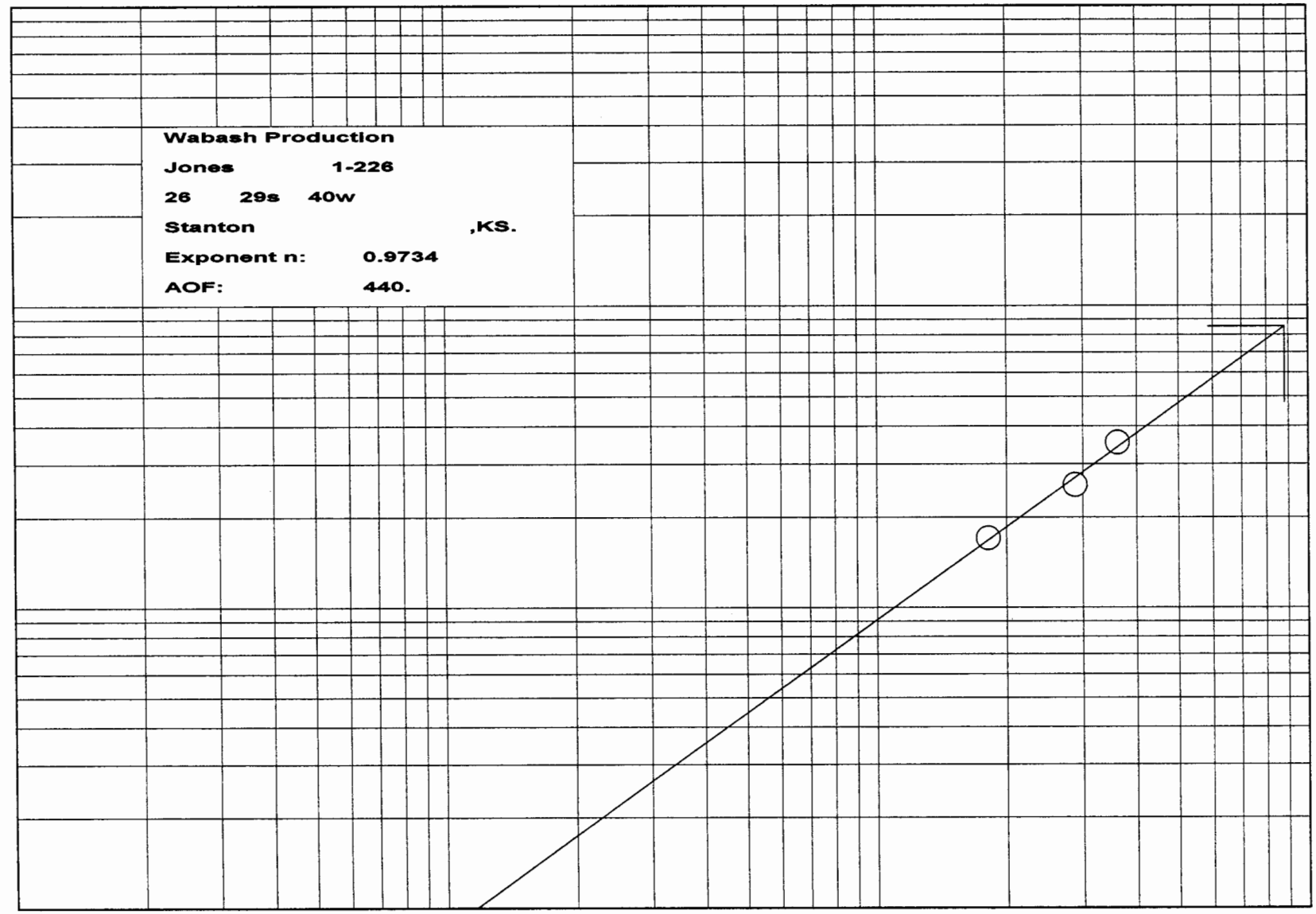
For Commission

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: 20015952 **Analyzed: 11/28/01**

Sample From: Jones 1-226 4pt
Producer: Wabash Production
Pressure:
Temperature:

Date: Location: 26-29-40

Time:
Sampler:
Source:
County: Stanton
State: Kansas
Formation: U Morrow

		Mole %	GPM
Helium	He:	0.354	0.000
Hydrogen	H2:	0.028	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	14.978	0.000
Carbon Dioxide	CO2:	0.109	0.000
Methane	C1:	70.708	0.000
Ethane	C2:	5.720	1.530
Propane	C3:	4.891	1.348
Iso Butane	iC4:	0.563	0.184
Normal Butane	nC4:	1.431	0.451
Iso Pentane	iC5:	0.357	0.131
Normal Pentane	nC5:	0.395	0.143
Hexanes Plus	C6+:	0.466	0.203
	TOTAL:	100.000	3.990

Z Fact: 0.9973
SP.GR.: 0.7486
BTU (SAT): 1044.3 @ 14.73 psia
BTU (DRY): 1062.8 @ 14.73 psia

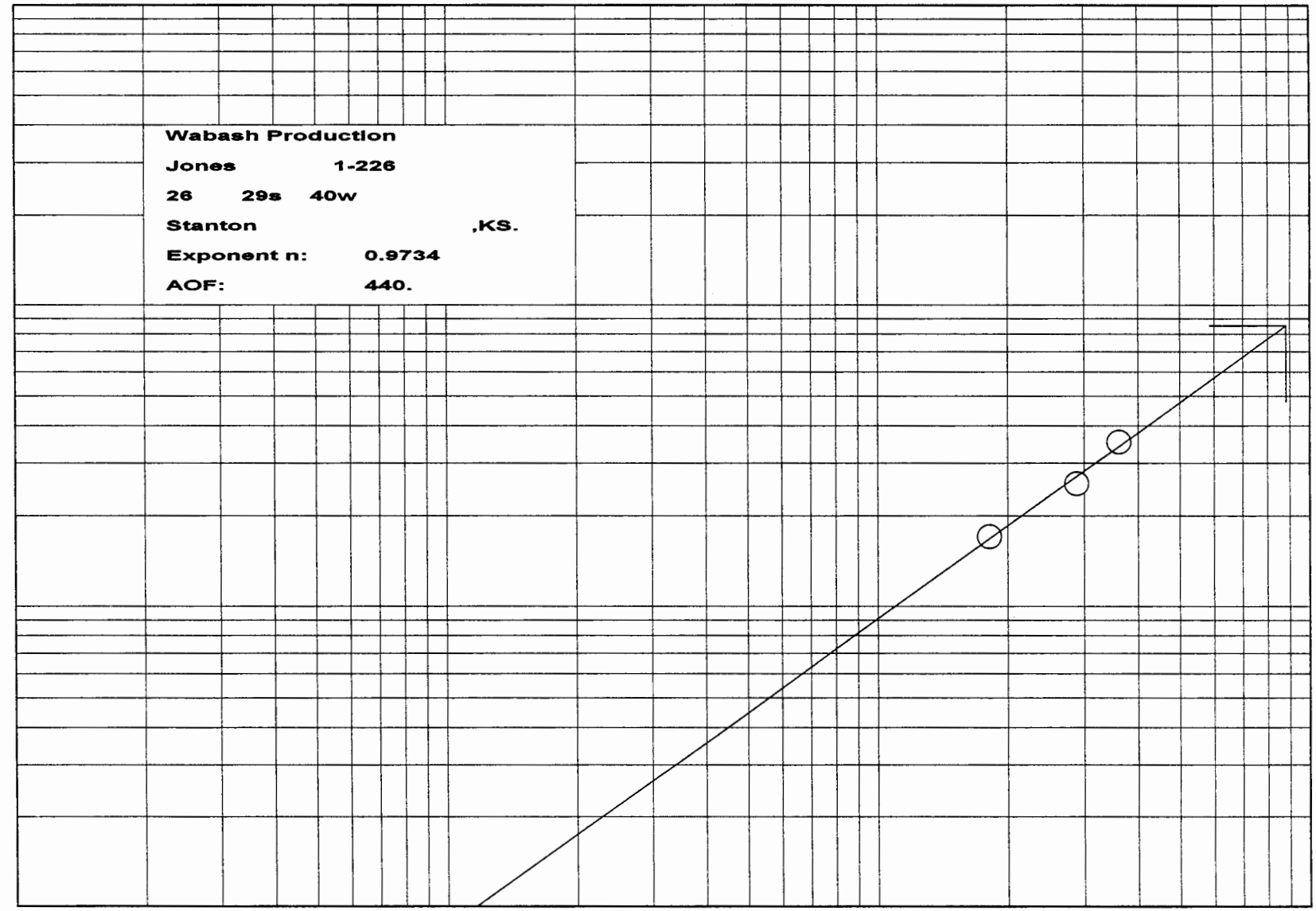
OCTANE RATING: 105.0

COMMENTS: 0.000

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing

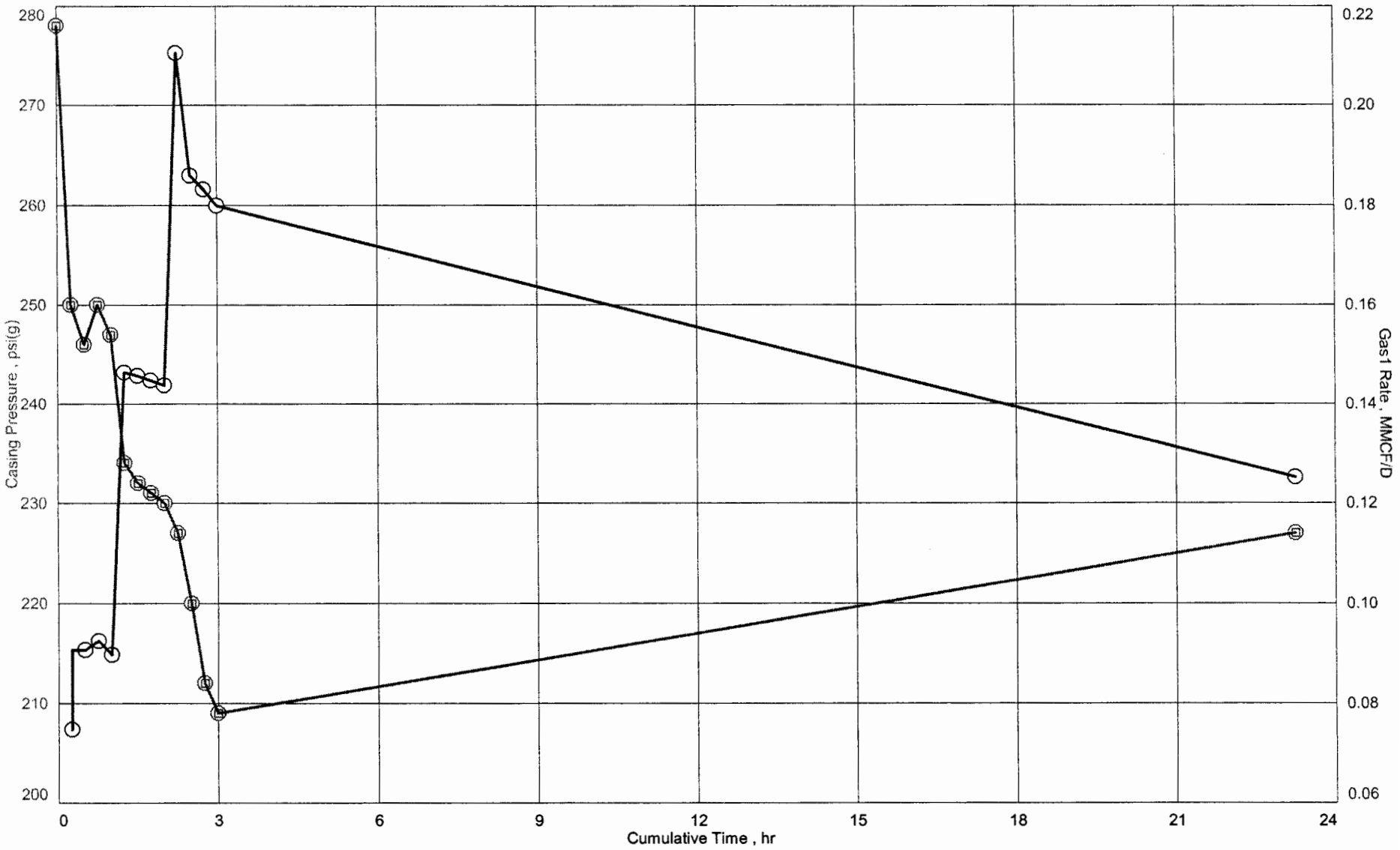
TEST DATE: 11.12.2001



Wabash Production
505' FNL 2475' FEL 26 29s 40w Stanton KS
Start Test Date: 2001/11/12
Final Test Date: 2001/11/13

Jones 1-226

Plot



Wabash Production
505' FNL 2475' FEL 26 29s 40w Stanton KS
Start Test Date: 2001/11/12
Final Test Date: 2001/11/13

FieldNotes
Field Measurements

Jones 1-226

	Date	Clock Time	Comment	Casing Pres	Static1 Pres	Diff1 Pres	Meter1 Temp	Gas1 Rate
	yyyy/mm/d	hh:mm:ss		psi(g)	psi(g)	in of H2O	°F	MMCF/D
1	2001/11/12	14:45:00	shutin					
2		14:45:00		278.00				
3		15:00:00		250.00	34.17	2.21	60.00	0.075
4		15:15:00		246.00	34.39	3.24	60.00	0.091
5		15:30:00		250.00	34.42	3.37	60.00	0.092
6		15:45:00	2nd pt					
7		15:45:00		247.00	34.43	3.17	60.00	0.090
8		16:00:00		234.00	35.79	8.21	60.00	0.146
9		16:15:00		232.00	35.64	8.16	60.00	0.146
10		16:30:00		231.00	35.56	8.07	60.00	0.145
11		16:45:00	3rd pt					
12		16:45:00		230.00	35.59	7.95	60.00	0.144
13		17:00:00		227.00	35.59	17.03	60.00	0.210
14		17:15:00		220.00	36.46	13.07	60.00	0.186
15		17:30:00		212.00	36.71	12.62	60.00	0.183
16		17:45:00	4th pt					
17		17:45:00		209.00	36.82	12.15	60.00	0.180
18	2001/11/13	14:00:00		227.00	38.06	5.73	60.00	0.125

2001/11/12 14:45:00 To 2001/11/13 14:00:00
Gas 0.146 Cum. 0.146 MMCF

Company:	Wabash Production					353-9170		
Address:						2.5		
Wellname:	Jones 1-26							
Legal:				Sec: 26	Twp: 29S	Rge: 40W		
Formation:		Field/Pool:			County:		St:	
Casing size:		Feet of:	Wt:		Meter run size: 3.086		SI: 278	
Tubing Size:		Feet of:	Wt:		Orif (in): 1.125		95% 264	
TD:		Pluged back depth:		Packer depth:			90% 250	
Type Test:		Tap Type:		Gravity:			85% 236	
Type Completion:			Producing through:				80% 222	

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H20	F	PSI	inch	inch	
11/12	1445		298						
	1450								
	1500		250	2.21	60	34.17			
	1515		246	3.24		34.39			
	1530		250	3.37	60	34.42			
	1545		247	3.03	60	34.43			2nd pt
	1600		234	8.21	60	35.59			
	1615		232	8.16	60	35.64			
	1630		231	8.07	60	35.56			
	1645		230	7.95	60	35.59			3rd pt
	1700		202	11.03	60	35.59			
	1715		220	13.07	60	36.46			
	1730		212	12.62	60	36.71			
	1545		209	12.15	60	36.82			4th
11/13			227	5.734	60	38.06	126		

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name
11/12	45 to Hyson							
11/13	21 from Kan W to All 3 wells							