11-29s-40w

15-187-20942

GENERAL INFORMATION

Client Information:

Company: Wabash Production

Contact: Bob Kinney

Phone: Fax: e-mail:

Site Information:

Contact:

Phone: Fax: e-mail:

Well Information:

Name: Levis 1-211

Operator: Wabash Production

Location-Downhole: NE NW 11 29s 40w Stanton

Location-Surface:

Test Information:

Company:	Trilobite Testing		
Representative:	Blake Wallace		
Supervisor:	Paul Simpson		
Test Type:	4pt & 1 pt	Job Number:	
Test Unit:			
Start Date:	2001/01/19	Start Time:	09:15:00
End Date:	2001/01/20	End Time:	09:00:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

61 miles X 2 days

4pt 295
1pt 115
ga 60
miles 103.70
122@.85
573.70

Blake

KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 2/20/2001 API No. 15-187-209420000

Company	Lease	Well Number
Wabash Production	Levis	1-1211

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Stanton	NE NW	11	29s	40	320

Field	Reservoir	Gas Gathering Connection
Wildcat	Morrow	CIG/Coastal

Completion Date	Plug Back Total Depth	Packer Set at
12/7/2000	5271	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.500	15.500	4.950	5313	5108	5114

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.875	4.970	2.441	5114	5067	5068

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
Single Gas	condensate	no

Producing Thru(Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
tubing	.109	21.053	.755

Vertical Depth (H)	Pressure Taps	Meter Run Size
5111	flange	4.034

Pressure Buildup: Shut in	2/16/2001 @ 1300	TAKEN	2/19/2001 @ 0915
Well on Line: Started	2/19/2001 @ 0915	TAKEN	2/20/2001 @ 0900

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) (F_c) psig	Tubing WellHead Press. psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						998	1012	988	1002	68.3	
Flow	2.500	60.5	21.00	77		901	915	757	771	23.8	1.5

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
33.480	74.9	39.66	1.1509	.9840	1.0059	1512	999979.2	.759

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 1025.0 $(Pw)^2$ = 838.0 5.9 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ 3.60

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2 \text{ or } (P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG [ ]	Backpressure Curve Slope"n" ---- or ---- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability = R x Antilog Mcfd
1024.75	187.00	5.480	.7388	1.011	.7469	5.584	8445
1021.35	187.00	5.462	.7373	1.011	.7455	5.565	8417

OPEN FLOW 8445 Mcfd @ 14.65 psia DELIVERABILITY 8417 Mcfd @ 14.65 psia

The undersigned authority, on behaf 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 22 day of Feb, 2001.

Witness (if any)

For Company

For Commission

Checked by

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST:	☒ Initial	☐ Annual	☐ Special	TEST DATE: 2/19/2001

COMPANY	LEASE	WELL NO.
Wabash Production	Levis	1-1211

COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Stanton	NE NW	11	29s 40		320

FIELD	RESERVOIR	PIPELINE CONNECTION
Wildcat	Morrow	CIG/Coastal

COMPLETION DATE	PLUG BACK DEPTH	PACKER SET AT
12/7/2000	5271 TOTAL DEPTH	

CASING SIZE	WT.	ID	SET AT	PERF.	TO
5.500	15.500	4.950	5313	5108	5114

TUBING SIZE	WT.	ID	SET AT	PERF.	TO
2.875	4.970	2.441	5114	5067	5068

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION
Single Gas	condensate

PRODUCING THRU (Annulus/Tubing)	RESERVOIR TEMPERATURE F	BAR PRESS - Pa
tubing	121	14.4 psia

GAS GRAVITY - Gg	% CARBON DIOXIDE	% NITROGEN	API GRAVITY OF LIQUID
.755	.109	21.053	

VERTICAL DEPTH (H)	TYPE METER CONN.	METER RUN SIZE
5111	flange	4.034

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. 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						998	1012	988	1002	72.00	
1.	2.500	45.60	11.40	68		940	954	934	948	1.00	
2.	2.500	61.95	23.14	91		909	923	890	904	1.00	
3.	2.500	78.90	32.90	86		881	895	851	865	1.00	
4.	2.500	123.78	59.77	86		784	798	716	730	1.00	.1

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.	33.480	60.0	26.15	1.1509	.9924	1.0050	1005		.755
2.	33.480	76.3	42.03	1.1509	.9707	1.0055	1580		.755
3.	33.480	93.3	55.40	1.1509	.9759	1.0069	2097		.755
4.	33.480	138.2	90.88	1.1509	.9756	1.0103	3451	********	.758

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.	948.4	1012.4	954.4	1025.0	910.9	114.1	1005.0	94.2
2.	904.4	1012.4	923.4	1025.0	852.7	172.3	1580.7	91.1
3.	865.4	1012.4	895.4	1025.0	801.7	223.2	2097.8	88.3
4.	730.4	1012.4	798.4	1025.0	637.4	387.5	3451.6	78.6

INDICATED WELLHEAD OPEN FLOW 9468 Mcfd @ 14.65 psia "n" =

The undersigned authority, on behaf 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 22 day of Feb, 20 01

Witness (if any)

For Company

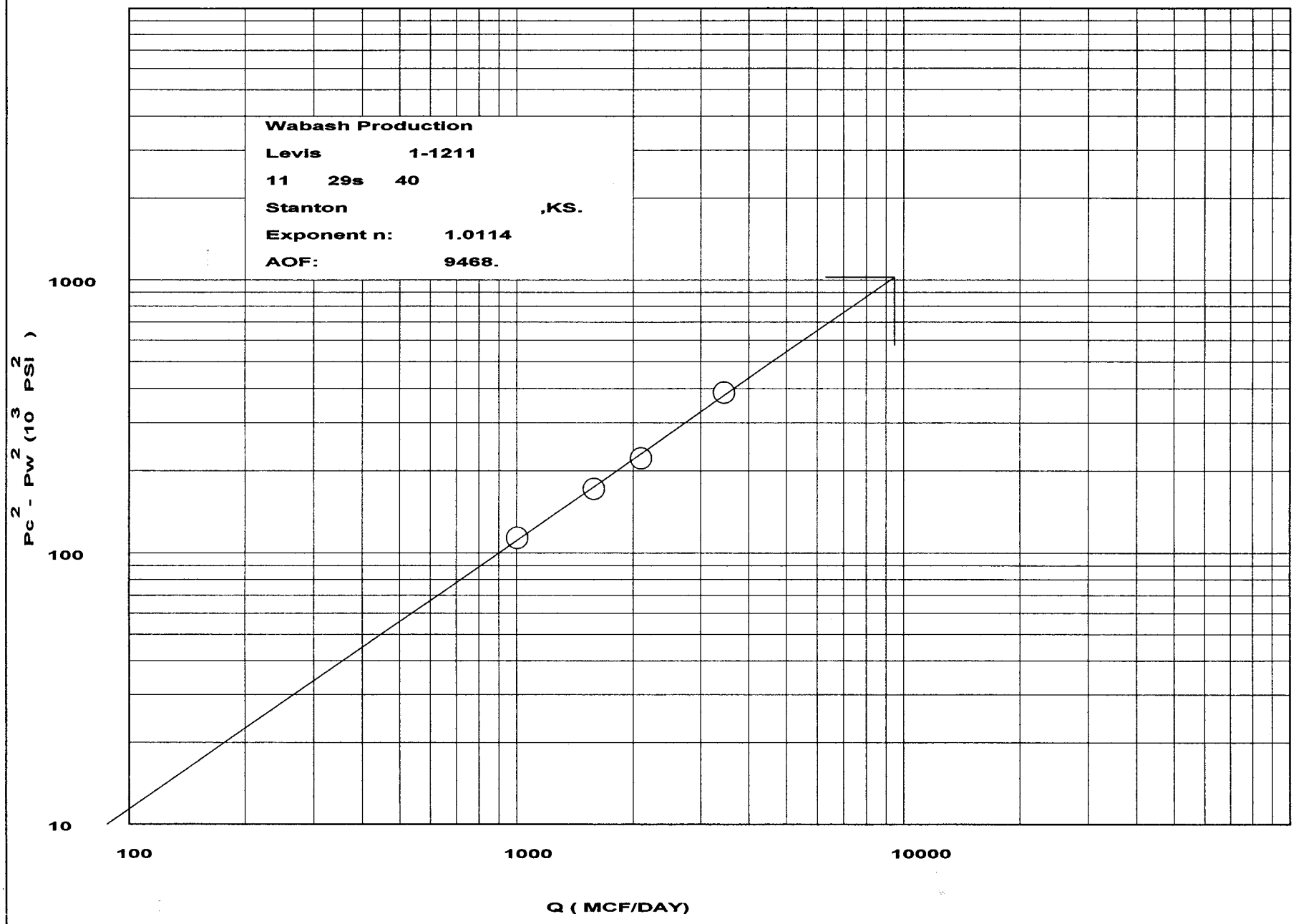
For Commission

Checked by

WELL TESTER:

GAS WELL BACK PRESSURE CURVE

TEST DATE: 2/19/2001



NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
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: 20010898 **Analyzed: 02/21/01**

Sample From: Levis 1-1211 4 pt
Producer: Wabash Production
Pressure:
Temperature:

Date: Location: 11-29-40

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

		Mole %	GPM
Helium	He:	0.654	0.000
Hydrogen	H2:	0.002	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	21.053	0.000
Carbon Dioxide	CO2:	0.109	0.000
Methane	C1:	66.146	0.000
Ethane	C2:	4.973	1.330
Propane	C3:	4.415	1.217
Iso Butane	iC4:	0.501	0.164
Normal Butane	nC4:	1.116	0.352
Iso Pentane	iC5:	0.252	0.092
Normal Pentane	nC5:	0.264	0.096
Hexanes Plus	C6+:	0.515	0.225
	TOTAL:	100.000	3.475

Z Fact: 0.9977

SP.GR.: 0.7554

BTU (SAT): 954.5 @ 14.73 psia
BTU (DRY): 971.4 @ 14.73 psia
OCTANE RATING: 97.3

COMMENTS: 0.000

Wabash Production
NE NW 11 29s 40w Stanton
Start Test Date: 2001/01/19
Final Test Date: 2001/01/20

FieldNotes
Field Measurements

Levis 1-211
Formation: Morrow

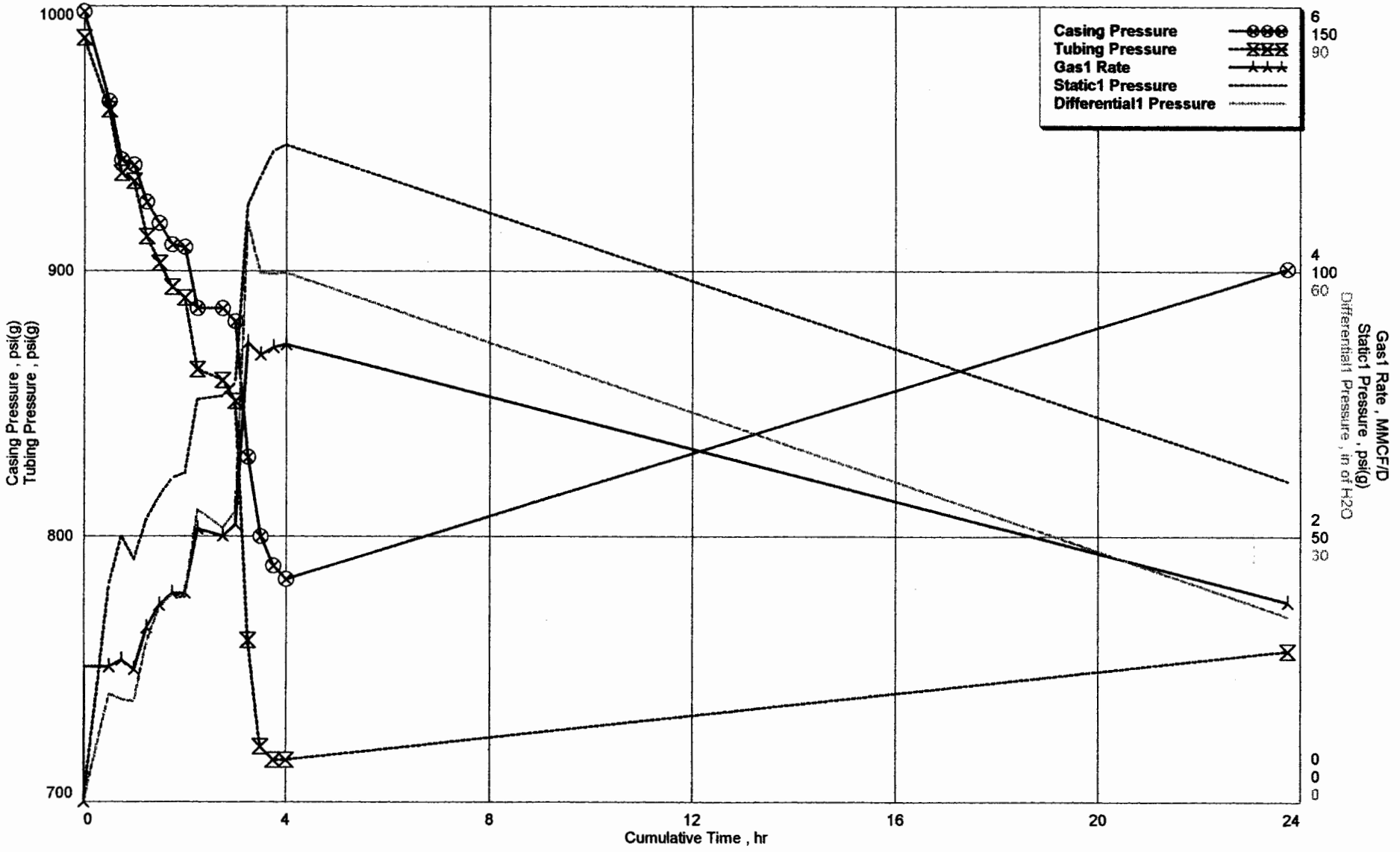
	Date	Clock Time	Comment	Casing Pres	Tubing Pres	Static1 Pres	Diff1 Pres	Meter1 Temp	Gas1 Rate
	yyyy/mm/d	hh:mm:ss		psi(g)	psi(g)	psi(g)	in of H2O	°F	MMCF/D
1	2001/02/19	09:15:00	shutin						
2		09:15:00		998.00	988.00	0.00	0.00	0.00	0.000
3		09:45:00		964.00	961.00	40.70	12.23	38.90	1.021
4		10:00:00		942.00	937.00	50.12	11.57	43.97	1.071
5		10:15:00	1st pt						
6		10:15:00		940.00	934.00	45.59	11.37	68.45	0.998
7		10:30:00		926.00	913.00	53.26	18.06	87.27	1.313
8		10:45:00		918.00	903.00	57.55	21.88	93.55	1.483
9		11:00:00		910.00	894.00	60.95	23.44	94.60	1.570
10		11:15:00	2nd pt						
11		11:15:00		909.00	890.00	61.95	23.14	91.92	1.575
12		11:30:00		886.00	863.00	75.80	33.00	86.58	2.058
13		12:00:00		886.00	859.00	76.50	30.99	85.30	2.004
14		12:15:00	3rd pt						
15		12:15:00		881.00	851.00	78.90	32.87	86.36	2.090
16		12:30:00		830.00	761.00	112.37	65.54	84.29	3.462
17		12:45:00		800.00	721.00	117.71	59.74	86.08	3.369
18		13:00:00		789.00	716.00	122.55	59.68	86.55	3.428
19		13:15:00	4th pt						
20		13:15:00		784.00	716.00	123.78	59.77	86.30	3.447
21	2001/02/20	09:00:00	1 pt						
22		09:00:00		901.00	757.00	60.52	20.99	77.07	1.506

2001/02/19 09:15:00 To 2001/02/20 09:00:00
Gas 0.320 Cum. 0.320 MMCF

Wabash Production
NE NW 11 29s 40w Stanton
Start Test Date: 2001/01/19
Final Test Date: 2001/01/20

Levis 1-211
Formation: Morrow

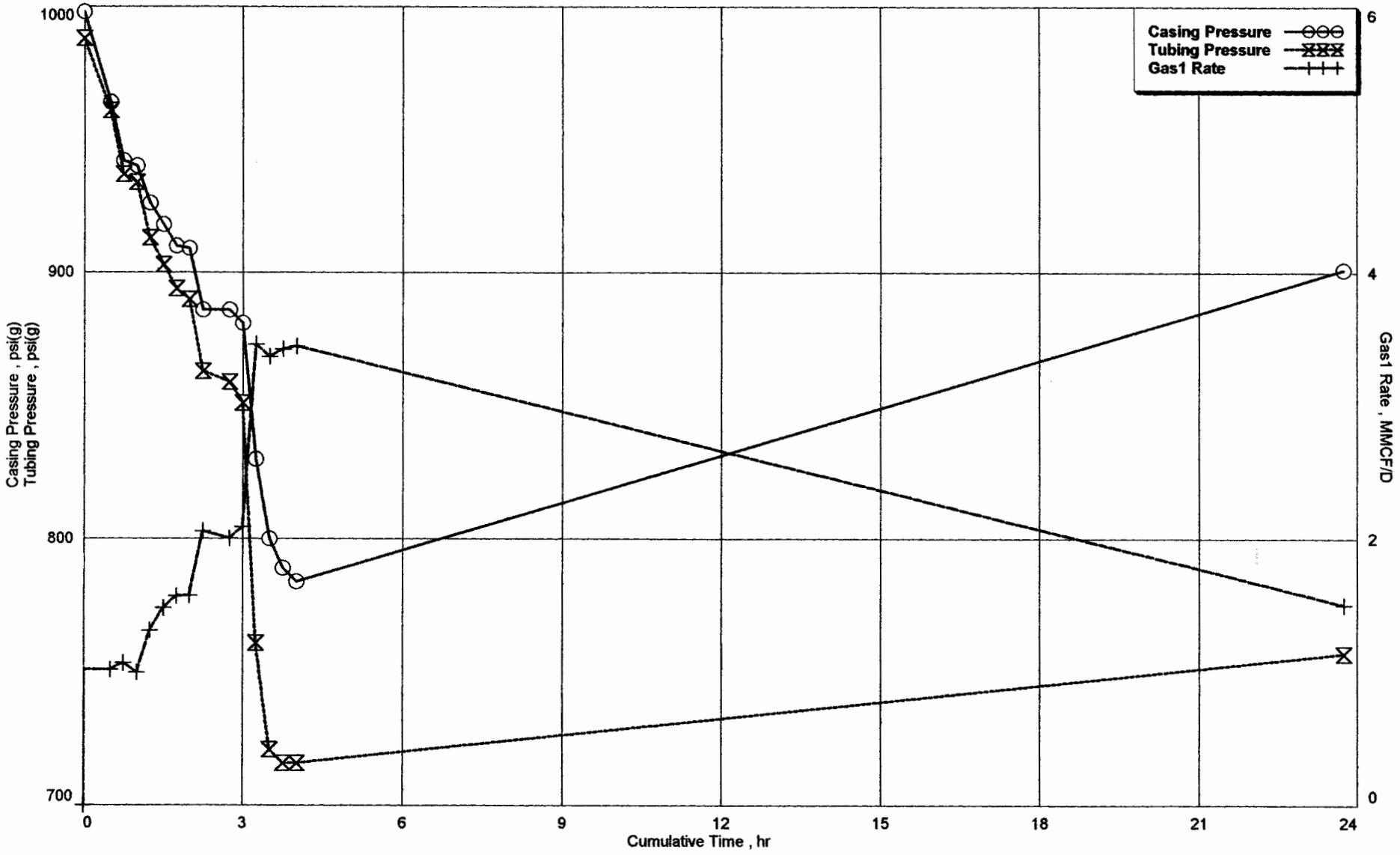
Plot



Wabash Production
NE NW 11 29s 40w Stanton
Start Test Date: 2001/01/19
Final Test Date: 2001/01/20

Levis 1-211
Formation: Morrow

Plot



Company:	WABASH Production								
Address:									
Wellname:	LEVIS 1-1211								
Legal:	NE NW SW			Sec: 11		Twp: 29S		Rge: 40W	
Formation:	MORROW	Field/Pool:				County: STANTON		St: KS	
Casing size:		Feet of:		Wt:		Meter run size: 4,03/4		SI: 998	
Tubing Size:		Feet of:		Wt:		Orif (in):		95% 948	
TD:		Pluged back depth:			Packer depth:			90% 898	
Type Test:		Tap Type:			Gravity:			85% 848	
Type Completion:		Producing through:						80% 798	

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	
2/19	09:18	988	998						SHUT IN
2-19	09:45	961	964	12.23	38.9	40.7			
2-19	10:00	937	942	11.57	43.97	50.12			
2-19	10:15	934	940	11:37	68.45	45.59			
2-19	10:30	913	926	18:06	87.27	53.26			
2-19	10:45	903	918	21.88	93.56	57.93			
2-19	11:00	894	910	23.44	94.6	60.95			
2-19	11:15	890	909	23.14	91.92	61.95			
2-19	11:30	863	886	33	86.58	75.8			
2-19	11:45	862	886						
2-19	12:00	859	886	30.99	85.3	76.5			
2-19	12:15	851	881	32.87	86.36	78.9			
2-19	12:30	761	830	65.54	84.29	112.37			
2-19	12:45	721	800	59.74	86.08	117.71			
2-19	13:00	716	789	59.68	86.55	122.55			
2-19	13:15	716	784	59.77	86.3	123.78			
2/20	0900	757	901	20.99	77.07	60.52		1/2 Lack	16' tank

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name	
	38								6/mibs x 2