

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 12-9-1991 Location 110' N E 110' W NW-SE-NE ^{4-18^s-12^w} Elevation 1815 K.B. County Barton

Company TomKat Ltd Number of Copies 5

Charts Mailed to P.O. Box 20403 Wichita Kansas 67220B

Drilling Contractor Duke Drilling Rig #1

Length Drill Pipe 2694 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" F.H.

Length Weight Pipe 632 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" F.H.

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3290 Bottom Packer Depth 3295 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3295 TO 3343 ANCHOR LENGTH 48 TOTAL DEPTH 3343 Hole Size 7 7/8"

LEASE & WELL NO. Wirth 8" #2 FORMATION TESTED Arkville TEST NO. 1

Mud Weight 9 Viscosity 42 Water Loss 87 Chlorides - Pits NONE D.S.T. _____

Maximum Temp. 104 °F Initial Hydrostatic Pressure (A) 1647 P.S.I. Final Hydrostatic Pressure (H) 1633 P.S.I.

Tool Open I.F.P. from 10:15 A.m. to 10:30 A.m. 15 min

Tool Closed I.C.I.P. from 10:30 A.m. to 11:00 A.m. 30 min

Tool Open F.F.P. from 11:00 A.m. to 11:15 A.m. 15 min

Tool Closed F.C.I.P. from 11:15 A.m. to 11:45 A.m. 30 min

Initial Blow WEAK blow for 8 minutes & died

Final Blow no blow - flushed tool - Good Surge - weak blow 3 minutes & died

Total Feet Recovered 30 Gravity of Oil _____ Corrected

30 Feet of Drilling Mud % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 4744 Depth 3337 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 4744/2 Depth 3340 Insurance NONE

Price of Job _____

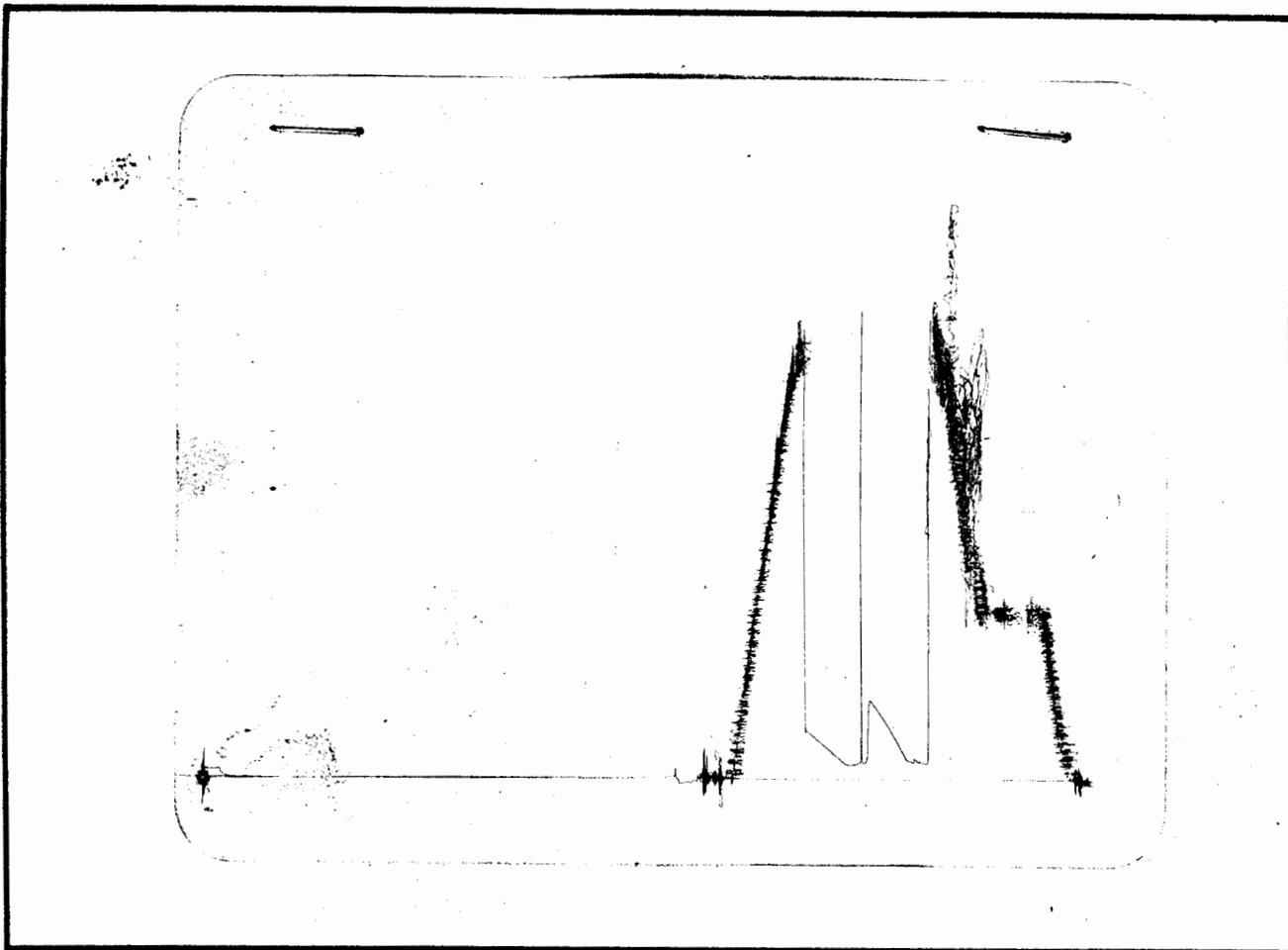
Tool Operator Gene Ludwig

Approved By _____

NO 11485

from [B] <u>50</u> P.S.I. to [C] <u>65</u> P.S.I.
[D] <u>311</u> P.S.I.
from [E] <u>65</u> P.S.I. to [F] <u>65</u> P.S.I.
[G] <u>188</u> P.S.I.

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1647</u>	<u>1650</u>	P.S.I.
(B) First Initial Flow Pressure	<u>50</u>	<u>64</u>	P.S.I.
(C) First Final Flow Pressure	<u>65</u>	<u>71</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>311</u>	<u>296</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>65</u>	<u>66</u>	P.S.I.
(F) Second Final Flow Pressure	<u>66</u>	<u>57</u>	P.S.I.
(G) Final Closed-in Pressure	<u>188</u>	<u>177</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1633</u>	<u>1618</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : TOMKAT LTD
ADDRESS : P.O. BOX 20403, WICHITA
STATE & COUNTY : KANSAS, BARTON
ELEV. (GR) : 1810 (KB) : 1815
WELL NAME : WIRTH"B"#2
LOCATION : 110N110W NW-SE-NE 4-18-12
FIELD :
TEST DATE : 12-9-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE
TEST INT. KB : 3295 to 3343
ANCHOR LENGTH(ft) : 48
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kg) : 3343
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9
MUD VISCOSITY : 42
MUD CHLORIDES : 4000
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 104
DRILL PIPE LENGTH(ft) : 2644
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 632
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) :
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3290
BOTTOM PACKER DEPTH(kb) : 3295
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 111485

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875
CAL. EQU. : 720.06 * Defl. + 3.83
CLOCK RANGE : 12 HOURS

SURFACE BLOW

1st Opening : WEAK BLOW FOR 8 MINUTES AND DIED
2nd Opening : NO BLOW

RECOVERY

Recovered 30 feet of DRILLING MUD

REMARKS :

WITNESSED BY : DAN DEBOER
TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD
 DATE OF TEST : 12-9-1991
 DEPTH : 3337.0

WELL NAME : WIRTH"B"#2
 LOCATION : 110N110W NW-SE-NE 4-18-12
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 1					
Depth : 3337.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.284	1648.44	1.99	1650.43
-10:15 1ST FLOW	0.0	.089	67.92	-3.33	64.59
- 10:20	5.0	.089	67.92	-3.33	64.59
- 10:25	10.0	.096	72.96	-3.29	69.67
- 10:30	15.0	.098	74.40	-3.28	71.12
-10:30 END FLOW	0.0	.098	74.40	-3.28	71.12
- 10:35	5.0	.151	112.56	-2.98	109.58
- 10:40	10.0	.206	152.16	-2.67	149.49
- 10:45	15.0	.267	196.09	-2.33	193.76
- 10:50	20.0	.317	232.09	-2.05	230.04
- 10:55	25.0	.371	270.97	-1.74	269.23
- 11:00	30.0	.409	298.34	-1.53	296.81
-11:00 1ST SHUT-IN	0.0	.409	298.34	-1.53	296.81
- 11:00	0.0	.091	69.36	-3.32	66.04
- 11:00	0.0	.001	4.55	-3.83	.73
-11:00 2ND FLOW	0.0	.091	69.36	-3.32	66.04
- 11:05	5.0	.091	69.36	-3.32	66.04
- 11:10	10.0	.085	65.04	-3.35	61.68
- 11:15	15.0	.079	60.72	-3.39	57.33
-11:15 END FLOW	0.0	.079	60.72	-3.39	57.33
- 11:20	5.0	.091	69.36	-3.32	66.04
- 11:25	10.0	.122	91.68	-3.15	88.53
- 11:30	15.0	.148	110.40	-3.00	107.40
- 11:35	20.0	.174	129.12	-2.85	126.27
- 11:40	25.0	.202	149.28	-2.69	146.59
- 11:45	30.0	.227	167.29	-2.55	164.73
- 11:48	33.0	.245	180.25	-2.45	177.79
-11:48 2ND SHUT-IN	0.0	.245	180.25	-2.45	177.79
-2ND HYDROSTATIC	0.0	2.240	1616.76	2.15	1618.91

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 12-9-1991 Location 110' N E 110' W NE-SE-NE ^{4-18³-12^W} Elevation 1815 K.B. County Barton

Company Tomkat L.T.D. Number of Copies 5

Charts Mailed to P.O. Box 20403 Wichita Kansas 67208

Drilling Contractor Duke Drilling Rig #1

Length Drill Pipe _____ I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" F.H.

Length Weight Pipe 632 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" F.H.

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size 4 1/2" F.H.

Top Packer Depth 3337 Bottom Packer Depth 3342 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3342 TO 3366 ANCHOR LENGTH 24 TOTAL DEPTH 3366 Hole Size 7 7/8"

LEASE & WELL NO. Wirth "B" #2 FORMATION TESTED Arbuckle TEST NO. 2

Mud Weight 9.4 Viscosity 52 Water Loss 872 Chlorides - Pits 8000 D.S.T. 11000

Maximum Temp. 105 °F Initial Hydrostatic Pressure (A) 1654 P.S.I. Final Hydrostatic Pressure (H) 1618 P.S.I.

Tool Open I.F.P. from 9:30 P.m to 10:00 P.m 30 min

Tool Closed I.C.I.P. from 10:00 P.m to 10:30 P.m 30 min

Tool Open F.F.P. from 10:30 P.m to 10:45 P.m 15 min

Tool Closed F.C.I.P. from 10:45 P.m to 11:45 P.m 60 min

Initial Blow WEAK blow built to 2 inches & decreased to VERY WEAK SURFACE blow

Final Blow VERY SURFACE blow to WEAK INTERMITTANT blow through out

Total Feet Recovered 90 Gravity of Oil _____ Corrected

15 Feet of CLEAN Oil on Top WATERY % Gas _____ % Oil _____ % Mud _____ % Water _____

45 Feet of VERY Slightly oil cut muddy 0 % Gas 3 % Oil 45 % Mud 52 % Water

40 Feet of VERY Slightly oil cut mud 0 % Gas 3 % Oil 85 % Mud 12 % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Remarks _____

Extra Equipment - Jars NONE Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 47441 Depth 3360 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 3363 Insurance NONE

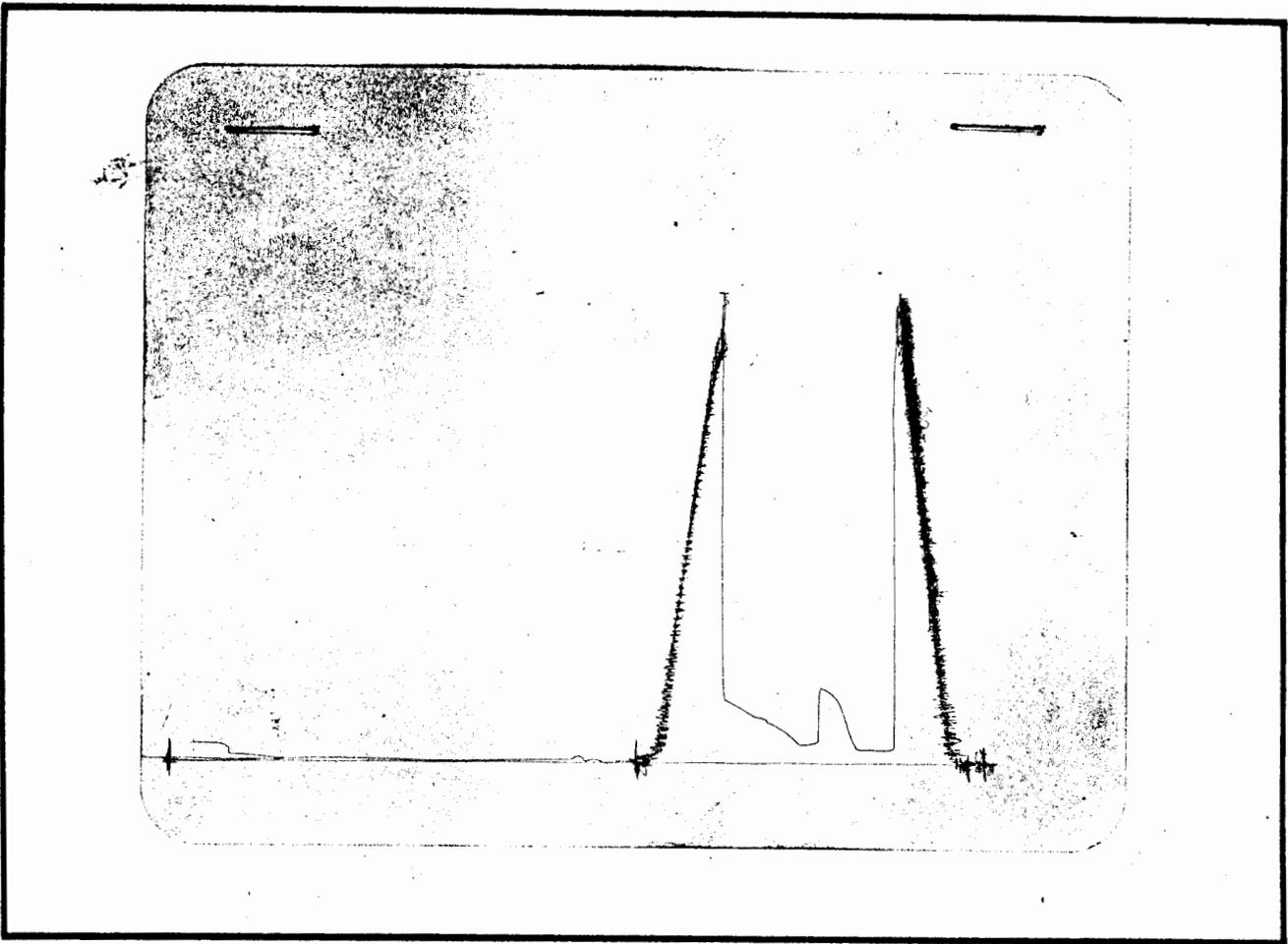
Price of Job _____

Tool Operator Gene Andry

Approved By _____

No 11486

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This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1654</u>	<u>1657</u>	P.S.I.
(B) First Initial Flow Pressure	<u>43</u>	<u>44</u>	P.S.I.
(C) First Final Flow Pressure	<u>50</u>	<u>47</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>289</u>	<u>275</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>72</u>	<u>76</u>	P.S.I.
(F) Second Final Flow Pressure	<u>58</u>	<u>68</u>	P.S.I.
(G) Final Closed-in Pressure	<u>239</u>	<u>230</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1618</u>	<u>1630</u>	P.S.I.

DATE OF TEST : 12-9-1991

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : TOMKAT LTD
ADDRESS : P.O. BOX 20403, WICHITA
STATE & COUNTY : KANSAS, BARTON
ELEV. (GR) : 1810 (KB) : 1815
WELL NAME : WIRTH"B"#2
LOCATION : 110N110W NW-SE-NE 4-18-12
FIELD :
TEST DATE : 12-9-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE
TEST INT. KB : 3342 to 3366
ANCHOR LENGTH(ft) : 24
TYPE OF TEST : Conventional
TOTAL DEPTH(ft-kg) : 3366
MAIN HOLE SIZE(in) : 7 7/8
MUD WEIGHT : 9.4
MUD VISCOSITY : 52
MUD CHLORIDES : 8000
SURFACE CHOKE : 3/4
BOTTOM CHOKE(in) : 3/4
TOOL SIZE(O.D.) : 5 1/2
TOOL JOINT SIZE(F.H.) : 4 1/2
RESERVOIR TEMPERATURE(F) : 105
DRILL PIPE LENGTH(ft) : 2644
DRILL PIPE O.D.(in) : 3.82
WEIGHT PIPE LENGTH(ft) : 632
WEIGHT PIPE ID : 2.75
DRILL COLLAR LENGTH(ft) :
DRILL COLLAR I.D.(in) : 2.259
TOP PACKER DEPTH(kb) : 3337
BOTTOM PACKER DEPTH(kb) : 3342
DUAL PACKERS :
PACKER SIZE(in) : 6 3/4
PACKER HOLD : Yes
TOOL PLUG : No
REVERSED OUT : No
TEST TICKET NUMBER : 11486

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875
CAL. EQU. : $720.06 * \text{Defl.} + 3.83$
CLOCK RANGE : 12 HOURS

SURFACE BLOW

1st Opening : WEAK-BUILT TO 2 INCHES & DECREASED TO SURFACE BLOW
2nd Opening : WEAK TO WEAK INTERMITTANT BLOW THROUGH OUT

RECOVERY

Recovered 15 feet of CLEAN OIL ON TOP
Recovered 45 feet of VERY SLIGHTLY OIL CUT WATERY MUD
Recovered 40 feet of VERY SLIGHTLY OIL CUT MUD

REMARKS :

WITNESSED BY : DAN DEBOER
TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD
 DATE OF TEST : 12-9-1991
 DEPTH : 3360.0

WELL NAME : WIRTH"B"#2
 LOCATION : 110N110W NW-SE-NE 4-18-12
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 3360.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.297	1657.80	1.94	1659.74
-9:30 1ST FLOW	0.0	.062	48.48	-3.48	44.99
- 9:34	4.0	.062	48.48	-3.48	44.99
- 9:40	10.0	.062	48.48	-3.48	44.99
- 9:45	15.0	.062	48.48	-3.48	44.99
- 9:50	20.0	.062	48.48	-3.48	44.99
- 9:55	25.0	.062	48.48	-3.48	44.99
- 10:00	30.0	.065	50.64	-3.47	47.17
-10:00 END FLOW	0.0	.065	50.64	-3.47	47.17
- 10:03	3.0	.093	70.80	-3.31	67.49
- 10:06	6.0	.136	101.76	-3.07	98.69
- 10:09	9.0	.190	140.64	-2.76	137.88
- 10:12	12.0	.257	188.89	-2.38	186.50
- 10:15	15.0	.301	220.57	-2.14	218.43
- 10:18	18.0	.334	244.33	-1.95	242.38
- 10:21	21.0	.351	256.57	-1.86	254.72
- 10:24	24.0	.364	265.93	-1.78	264.15
- 10:27	27.0	.377	275.29	-1.71	273.58
- 10:29	29.0	.380	277.45	-1.69	275.76
-10:29 1ST SHUT-IN	0.0	.380	277.45	-1.69	275.76
-10:29 2ND FLOW	0.0	.105	79.44	-3.24	76.20
- 10:34	5.0	.100	75.84	-3.27	72.57
- 10:39	10.0	.095	72.24	-3.30	68.94
- 10:44	15.0	.094	71.52	-3.30	68.21
-10:44 END FLOW	0.0	.094	71.52	-3.30	68.21
- 10:47	3.0	.104	78.72	-3.25	75.47
- 10:50	6.0	.122	91.68	-3.15	88.53
- 10:53	9.0	.136	101.76	-3.07	98.69
- 10:56	12.0	.150	111.84	-2.99	108.85
- 10:59	15.0	.162	120.48	-2.92	117.56
- 11:02	18.0	.174	129.12	-2.85	126.27
- 11:05	21.0	.185	137.04	-2.79	134.25
- 11:08	24.0	.197	145.68	-2.72	142.96
- 11:11	27.0	.217	160.08	-2.61	157.47
- 11:14	30.0	.221	162.97	-2.59	160.38
- 11:17	33.0	.226	166.57	-2.56	164.01
- 11:20	36.0	.230	169.45	-2.54	166.91
- 11:23	39.0	.242	178.09	-2.47	175.62
- 11:26	42.0	.256	188.17	-2.39	185.78
- 11:29	45.0	.266	195.37	-2.33	193.03

SUBSURFACE PRESSURE MEASUREMENTS

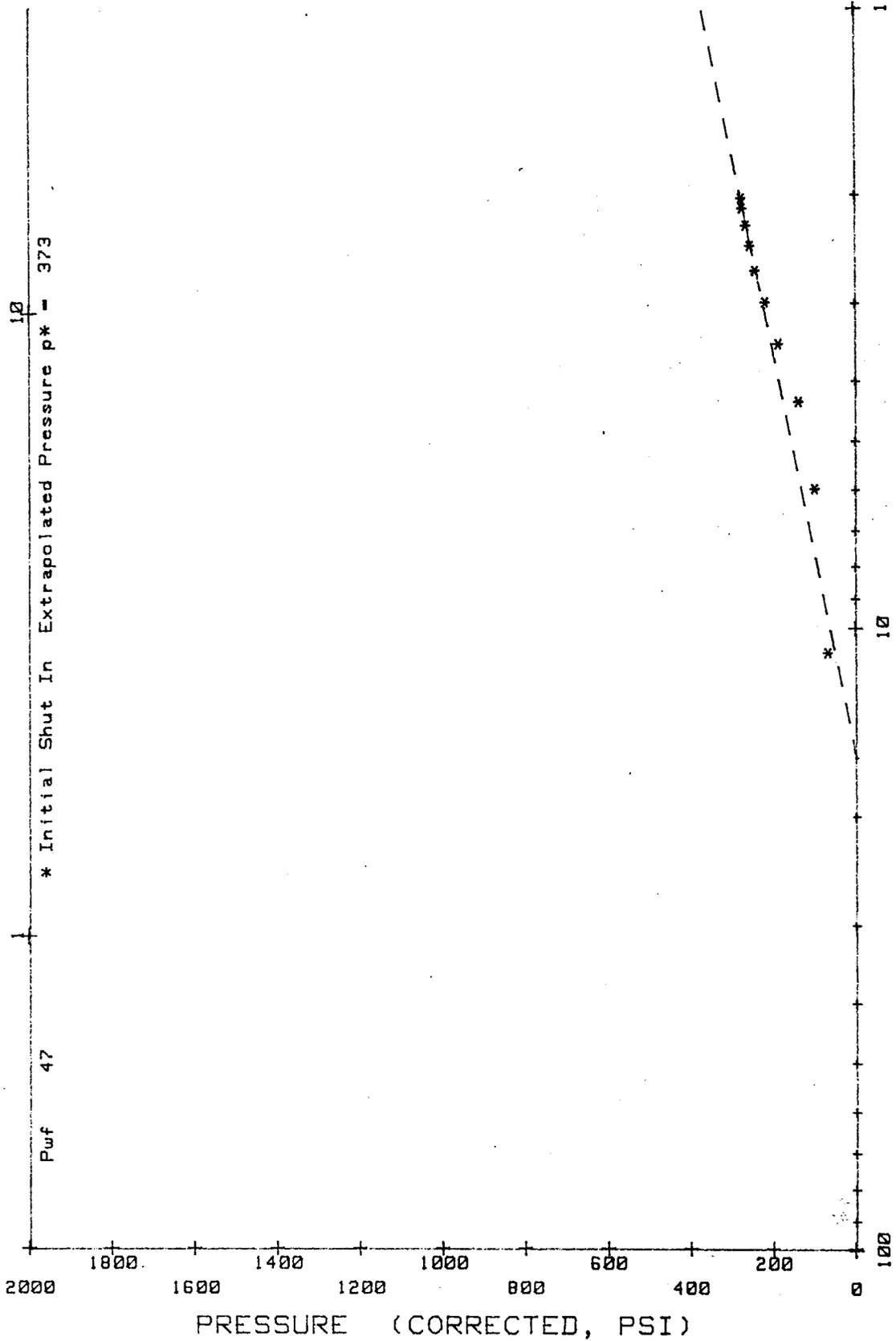
COMPANY : TOMKAT LTD
 DATE OF TEST : 12-9-1991
 DEPTH : 3360.0

WELL NAME : WIRTH"B"#2
 LOCATION : 110N110W NW-SE-NE 4-18-12
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL. in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
- 11:32	48.0	.277	203.29	-2.27	201.02
- 11:35	51.0	.289	211.93	-2.20	209.72
- 11:38	54.0	.300	219.85	-2.14	217.71
- 11:41	57.0	.309	226.33	-2.09	224.24
- 11:43	59.0	.317	232.09	-2.05	230.04
-11:43 2ND SHUT-IN	0.0	.317	232.09	-2.05	230.04
- 11:43	0.0	2.256	1628.28	2.09	1630.37
- 11:43	0.0	2.206	1592.28	2.28	1594.56
-2ND HYDROSTATIC	0.0	2.256	1628.28	2.09	1630.37

GAUGE # : 906

LOCATION : 110N110W NW-SE-NE 4-18-12DATE : 12-9-1991



TIME (MINUTES) : (T+dt)/dt - (Semilog scale)

HORNER ANALYSIS

COMPANY : TOMKAT LTD
 WELL NAME : WIRTH'D"#2
 LOCATION : 110N110W NW-SE-NE 4-18-12
 STATE & COUNTY : KANSAS,BARTON
 DATE OF TEST : 12-9-1991
 TEST INT. KB : 3342 to 3366
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV.(GR) : 1810 (KB) : 1815
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
Refer. depth :	3360.0 ft-kb			
-10:00 END FLOW	0.00	0.00	47.17	
	3.00	11.00	67.49	
	6.00	6.00	98.69	
	9.00	4.33	137.88	
	12.00	3.50	186.50	
	15.00	3.00	218.43	
	18.00	2.67	242.38	
	21.00	2.43	254.72	
	24.00	2.25	264.15	
	27.00	2.11	273.58	
	29.00	2.03	275.76	
-10:29 1ST SHUT-IN	0.00	0.00	275.76	

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : TOMKAT LTD
DATE OF TEST : 12-9-1991
DST. NO : 2
WELL NAME : WIRTH"B"#2
LOCATION : 110N110W NW-SE-NE 4-18-12
SHUT-IN PERIOD : 1

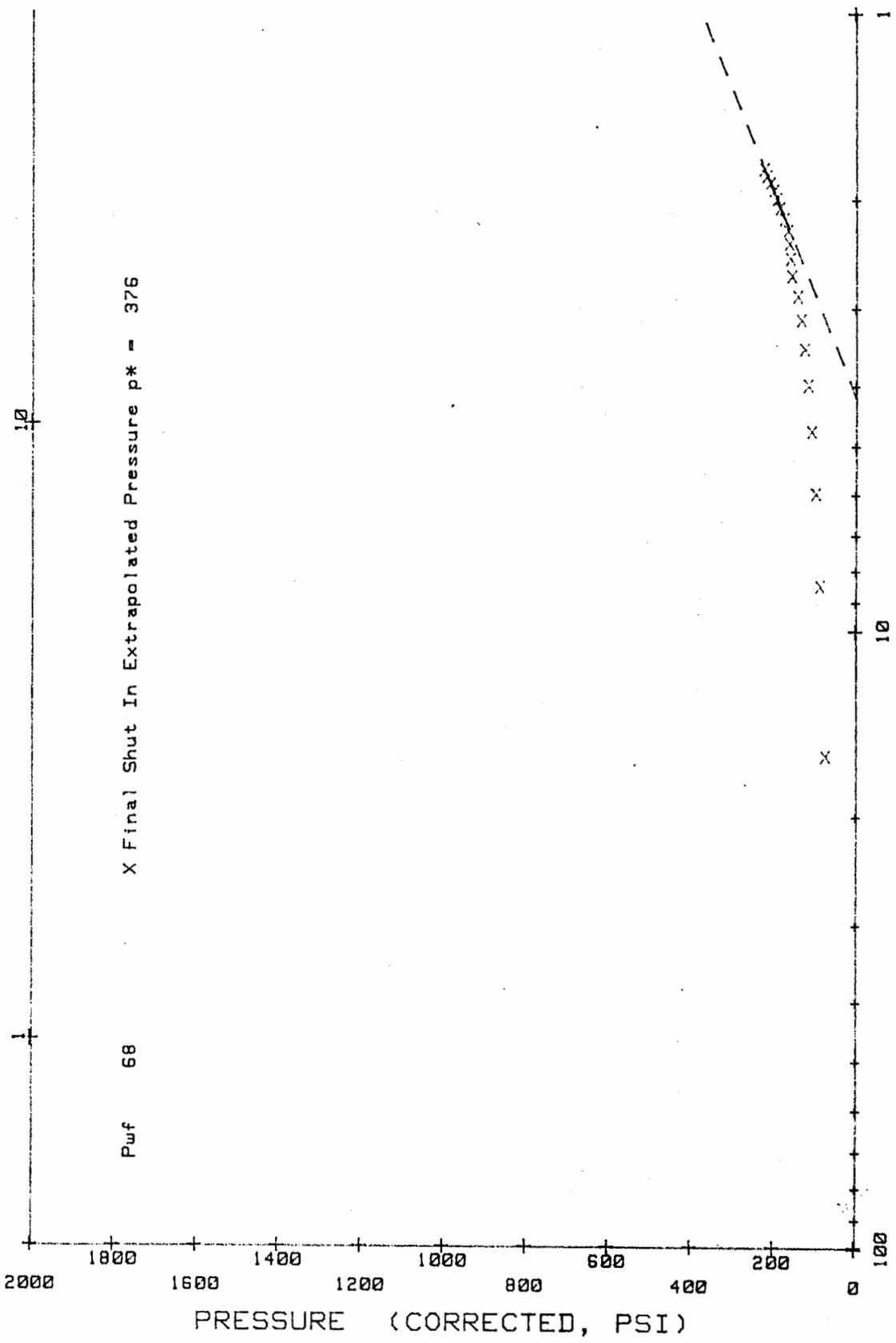
INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	373.00
Slope of Build-up Curve (psi/log cycle):	309.28
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 906

LOCATION : 110N110W NW-SE-NE 4-18-12DATE : 12-9-1991



X Final Shut In Extrapolated Pressure p* = 376

Pwf 68

PRESSURE (CORRECTED, PSI)

TIME (MINUTES) : (T+dt)/dt - (Semilog scale)

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : TOMKAT LTD
 WELL NAME : WIRTH"B"42
 LOCATION : 110N110W NW-SE-NE 4-18-12
 STATE & COUNTY : KANSAS,BARTON
 DATE OF TEST : 12-9-1991
 TEST INT. KB : 3342 to 3366
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV.(GR) : 1810 (KB) : 1815
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG	-----
----------	-------------	------------------	---------------------------------	-------

Refer. depth : 3360.0 ft-kb

-10:44 END FLOW	0.00	0.00	68.21	
	3.00	16.00	75.47	
	6.00	8.50	88.53	
	9.00	6.00	98.69	
	12.00	4.75	108.85	
	15.00	4.00	117.56	
	18.00	3.50	126.27	
	21.00	3.14	134.25	
	24.00	2.88	142.96	
	27.00	2.67	157.47	
	30.00	2.50	160.38	
	33.00	2.36	164.01	
	36.00	2.25	166.91	
	39.00	2.15	175.62	
	42.00	2.07	185.78	
	45.00	2.00	193.03	
	48.00	1.94	201.02	
	51.00	1.88	209.72	
	54.00	1.83	217.71	
	57.00	1.79	224.24	
	59.00	1.76	230.04	

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : TOMKAT LTD
 DATE OF TEST : 12-9-1991
 DST. NO : 2
 WELL NAME : WIRTH"B"#2
 LOCATION : 110N110W NW-SE-NE 4-18-12
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY
 Oil (md.ft/cp): 1.12
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY
 Oil (md):09
 Gas (md): 0.00

TOTAL MOBILITY (md/cp):11

TOTAL COMPRESSIBILITY (psi⁻¹): 6.94E-06

ESTIMATED DAMAGE RATIO:12

CALCULATED DAMAGE RATIO:20

Reservoir Temperature (F): 105.00
 Formation Porosity :18
 Formation Thickness (ft): 10.00
 Wellbore Radius (in): 3.94
 Reservoir Compressibility (psi⁻¹): 4.80E-07
 Calculated Skin Factor : -2.38

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 4.16

PRODUCTIVITY INDEX (bbl/psi):01

Final Flow Pressure (psi): 68.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 8.44

Total Flowing Time (min): 45.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 376.00

Slope of Build-up Curve (psi/log cycle): 605.73
 Effective Producing Time (min): 45.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.