

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 1-11-1995 Location 3N-5/2-SW-31-19S-13W Elevation 18636.1 County Barton

Company TomKat Ltd. Number of Copies 5

Charts Mailed to P.O. Box 20403 Wichita Kansas 67208-1403

Drilling Contractor L.D. Drilling Rig #1

Length Drill Pipe 3454 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 4"

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

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

Top Packer Depth 3475 Bottom Packer Depth 3480 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3480 TO 3518 ANCHOR LENGTH 38 TOTAL DEPTH 3518 Hole Size 7 7/8"

LEASE & WELL NO. BRINING #1 FORMATION TESTED Arbuckle TEST NO. 1

Mud Weight 9.7 Viscosity 54 Water Loss 28.4 Chlorides - Pits 82000 D.S.T. 52000

Maximum Temp. 111 °F Initial Hydrostatic Pressure (A) 1826 P.S.I. Final Hydrostatic Pressure (H) 1815 P.S.I.

Tool Open I.F.P. from 1:45 A.m to 2:15 A.m 30 min

Tool Closed I.C.I.P. from 2:15 A.m to 2:45 A.m 30 min

Tool Open F.F.P. from 2:45 A.m to 3:15 A.m 30 min

Tool Closed F.C.I.P. from 3:15 A.m to 4:00 A.m 45 min

Initial Blow STRONG blow - built to the bottom of a 5 Gallon bucket in 15 sec.

Final Blow WEAK building a blow - Built to 9 1/2 inches into the water

Total Feet Recovered 465 Gravity of Oil _____ Corrected

165 Feet of SLIGHTLY Gas cut mud % Gas _____ % Oil _____ % Mud _____ % Water _____

120 Feet of GAS & VERY SLIGHTLY oil cut watery mud 28 % Gas 2 % Oil 55 % Mud 15 % Water _____

60 Feet of GAS & VERY SLIGHTLY oil cut watery mud 15 % Gas 2 % Oil 68 % Mud 15 % Water _____

60 Feet of GAS & VERY SLIGHTLY oil cut muddy water 23 % Gas 2 % Oil 42 % Mud 33 % Water _____

60 Feet of GAS & VERY SLIGHTLY oil cut muddy water 16 % Gas 2 % Oil 42 % Mud 40 % 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 All measurements were taken from old log T.D. of 3518

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

Top Recorder No. 11088 Clock No. 47441 Depth 3512 Cir. Sub _____ Sampler NONE

Bottom Recorder No. 11087 Clock No. 47442 Depth 3515 Insurance NONE

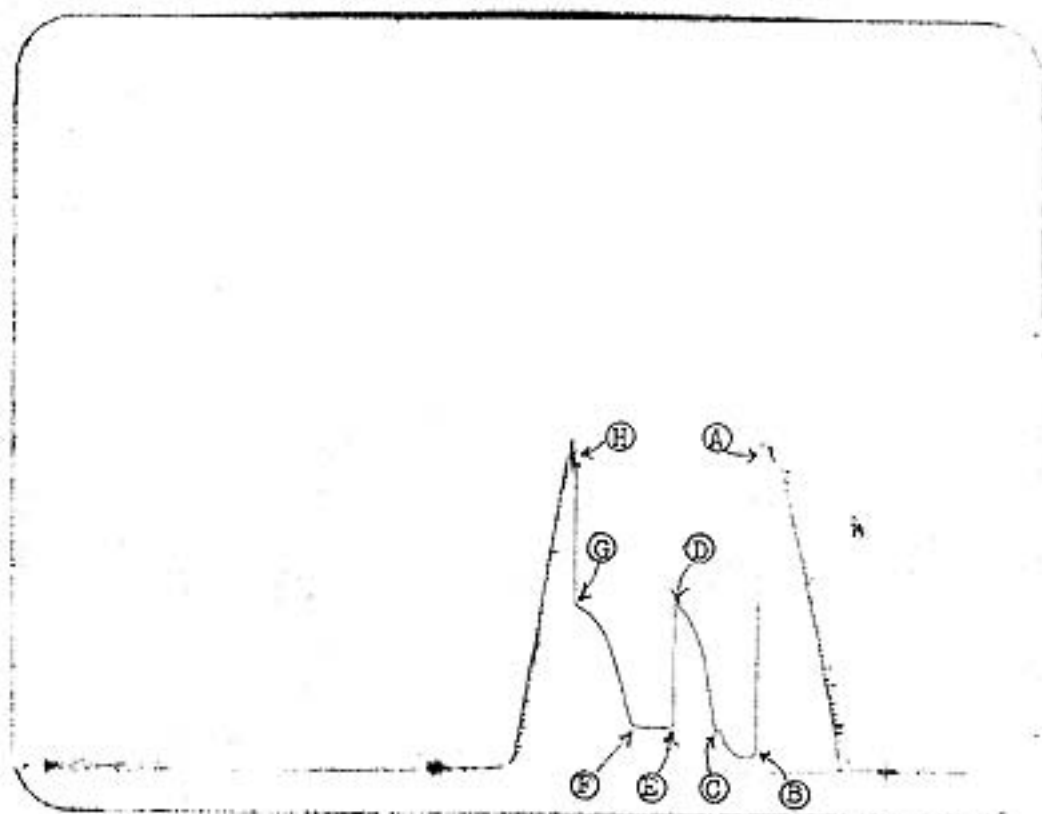
Price of Job _____

Tool Operator Gene Sudy

Approved By _____

No 11189

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		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1826</u>	<u>1911</u>	P.S.I.
(B) First Initial Flow Pressure	<u>78</u>	<u>128</u>	P.S.I.
(C) First Final Flow Pressure	<u>211</u>	<u>236</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>976</u>	<u>984</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>245</u>	<u>268</u>	P.S.I.
(F) Second Final Flow Pressure	<u>256</u>	<u>264</u>	P.S.I.
(G) Final Closed-in Pressure	<u>976</u>	<u>976</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1815</u>	<u>1851</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : TOMKAT LTD.	WELL NAME : BRINING #1
ADDRESS : P.O.BOX 20403 WICHITA	LOCATION : S/W-S/E-S/W 31-19S-13W
STATE & COUNTY : KANSAS, BARTON	FIELD :
ELEV. (GR) : 1863 (KB) : 1868	TEST DATE : 1-11-1995

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE	DRILL PIPE LENGTH(ft) : 3454
TEST INT. KB : 3480 to 3518	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 38	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3518	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.7	TOP PACKER DEPTH(kb) : 3475
MUD VISCOSITY : 54	BOTTOM PACKER DEPTH(kb) : 3480
MUD CHLORIDES : 82000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 111	TEST TICKET NUMBER : 11189

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 11088	
RANGE : 0 - 4400	CLOCK RANGE : 12 HOURS
CAL. EQU. : 1102.93 * Defl. + 4.88	

SURFACE BLOW

1st Opening :	STRONG BLOW BOTTOM OF THE BUCKET IN 15 SECONDS
2nd Opening :	WEAK BLOW BUILT TO 9 1/2 INCHES INTO THE WATER

RECOVERY

Recovered	165	feet of	SLIGHTLY GAS CUT MUD
Recovered	120	feet of	GAS & VERY SLIGHTLY OIL CUT WATERY MUD 15% WATER
Recovered	60	feet of	GAS & VERY SLIGHTLY OIL CUT WATERY MUD 15% WATER
Recovered	60	feet of	GAS & VERY SLIGHTLY OIL CUT MUDDY WATER 33%WATER
Recovered	60	feet of	GAS & VERY SLIGHTLY OIL CUT MUDDY WATER 40%WATER

REMARKS :

ALL MEASUREMENTS WERE TAKEN FROM OLD LOGGERS T.D. OF 3518

WITNESSED BY : JEFF ZOLER

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD.
 DATE OF TEST : 1-11-1995
 DEPTH : 3518.0

WELL NAME : BRINING #1
 LOCATION : S/W-S/E-S/W 31-19S-13W
 SERIAL NO. : 11088

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3518.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.727	1909.64	1.40	1911.04
-1:45 1ST FLOW	0.0	.115	131.72	-3.54	128.17
- 1:46	1.0	.090	104.14	-3.83	100.31
- 1:47	2.0	.088	101.94	-3.86	98.08
- 1:48	3.0	.084	97.53	-3.90	93.62
- 1:49	4.0	.081	94.22	-3.94	90.28
- 1:50	5.0	.081	94.22	-3.94	90.28
- 1:55	10.0	.081	94.22	-3.94	90.28
- 1:57	12.0	.082	95.32	-3.93	91.39
- 1:58	13.0	.086	99.73	-3.88	95.85
- 1:59	14.0	.086	99.73	-3.88	95.85
- 2:00	15.0	.091	105.25	-3.82	101.42
- 2:05	20.0	.126	143.85	-3.42	140.43
- 2:10	25.0	.213	239.80	-2.41	237.40
- 2:15	30.0	.212	238.70	-2.42	236.28
-2:15 END FLOW	0.0	.212	238.70	-2.42	236.28
- 2:18	3.0	.317	354.51	-1.20	353.31
- 2:21	6.0	.471	524.36	.59	524.95
- 2:24	9.0	.602	668.84	.86	669.70
- 2:27	12.0	.676	750.46	.81	751.27
- 2:30	15.0	.729	808.92	.78	809.69
- 2:33	18.0	.781	866.27	.74	867.01
- 2:36	21.0	.817	905.97	.72	906.69
- 2:39	24.0	.845	936.86	.70	937.56
- 2:42	27.0	.869	963.33	.68	964.01
- 2:45	30.0	.888	984.28	.67	984.95
-2:45 1ST SHUT-IN	0.0	.888	984.28	.67	984.95
-2:45 2ND FLOW	0.0	.241	270.69	-2.08	268.60
- 2:50	5.0	.230	258.55	-2.21	256.34
- 2:55	10.0	.230	258.55	-2.21	256.34
- 3:00	15.0	.230	258.55	-2.21	256.34
- 3:05	20.0	.232	260.76	-2.19	258.57
- 3:10	25.0	.235	264.07	-2.15	261.92
- 3:15	30.0	.237	266.27	-2.13	264.15
-3:15 END FLOW	0.0	.237	266.27	-2.13	264.15
- 3:16	1.0	.244	273.99	-2.05	271.95
- 3:17	2.0	.255	286.13	-1.92	284.21
- 3:18	3.0	.283	317.01	-1.59	315.41
- 3:21	6.0	.361	403.04	-.69	402.35
- 3:24	9.0	.442	492.38	.25	492.63

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD.
DATE OF TEST : 1-11-1995
DEPTH : 3518.0

WELL NAME : BRINING #1
LOCATION : S/W-S/E-S/W 31-19S-13W
SERIAL NO. : 11088

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.: 1					
- 3:27	12.0	.521	579.51	.91	580.42
- 3:30	15.0	.603	669.95	.86	670.80
- 3:33	18.0	.664	737.23	.82	738.04
- 3:36	21.0	.713	791.27	.79	792.06
- 3:39	24.0	.747	828.77	.76	829.53
- 3:42	27.0	.782	867.37	.74	868.11
- 3:45	30.0	.808	896.05	.72	896.77
- 3:48	33.0	.829	919.21	.71	919.92
- 3:51	36.0	.844	935.75	.70	936.45
- 3:54	39.0	.860	953.40	.69	954.09
- 3:57	42.0	.875	969.94	.68	970.63
- 3:58	43.0	.880	975.46	.68	976.14
-3:58 2ND SHUT-IN	0.0	.880	975.46	.68	976.14
-2ND HYDROSTATIC	0.0	1.673	1850.08	1.43	1851.51

CALCULATED RECOVERY ANALYSIS

DST Number:1

Test ticket number:11189

Sample #	Total Feet	***** Gas ***** %	***** Oil ***** Feet	***** %	***** Mud ***** Feet	***** %	***** Feet
1	165	28.00	46.20	2.00	3.30	60.00	99.00
2	120	15.00	18.00	2.00	2.40	68.00	81.60
3	60	15.00	9.00	2.00	1.20	68.00	40.80
4	60	23.00	13.80	2.00	1.20	42.00	25.20
5	60	16.00	9.60	2.00	1.20	42.00	25.20
TOTAL	465	20.77	96.60	2.00	9.30	58.45	271.80

Sample #	Total Feet	***** WATER ***** %	***** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	165	10.00	16.50	0.00	0.00	0.00
2	120	15.00	18.00	0.00	0.00	0.00
3	60	15.00	9.00	0.00	0.00	0.00
4	60	33.00	19.80	0.00	0.00	0.00
5	60	40.00	24.00	0.00	0.00	0.00
TOTAL	465	18.77	87.30			

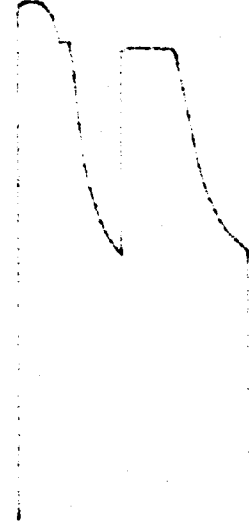
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

PRESSURE (P S I G)

4000	3600	3200	2800	2400	2000	1600	1200	800	400	0
+	+	+	+	+	+	+	+	+	+	+

TIME (MINUTES)

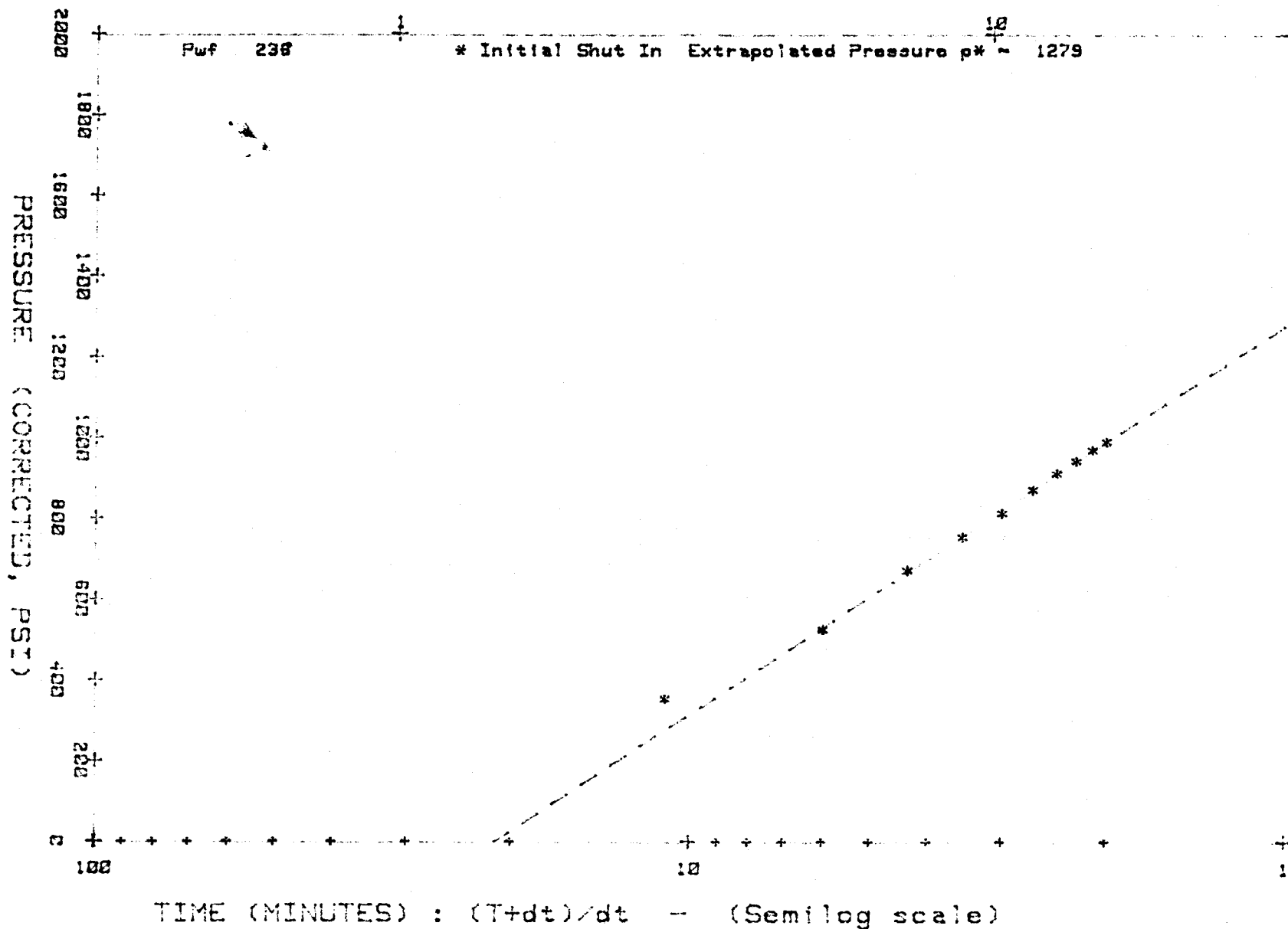
-100
-90
0
90
180
270
360
450
540
630
720



COMPANY : TOMKAT LTD.
 WELL : BRINING #1
 LOCATION : S/W-S/E-S/W 31-19S-13W
 DATE : 1-11-1995
 GAUGE # : 11088

LOCATION : S/W-S/E-S/W 31-195-13W DATE : 1-11-1995

Gauge # : 11088



SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : TOMKAT LTD.
 WELL NAME : BRINING #1
 LOCATION : S/W-S/E-S/W 31-19S-13W
 STATE & COUNTY : KANSAS, BARTON
 DATE OF TEST : 1-11-1995
 TEST INT. KB : 3480 to 3518
 TOTAL INTERVAL (ft) K.B. : 38.00
 ELEV.(GR) : 1863 (KB) : 1868
 FIELD :

ELEMENT SERIAL NO. : 11088
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES ----- CORR PSIG
Refer. depth :	3518.0 ft-kb		
-2:15 END FLOW	0.00	0.00	236.28
	3.00	11.00	353.31
	6.00	6.00	524.95
	9.00	4.33	670.95
	12.00	3.50	753.43
	15.00	3.00	812.50
	18.00	2.67	870.46
	21.00	2.43	910.58
	24.00	2.25	941.79
	27.00	2.11	968.54
	30.00	2.00	989.71
-2:45 1ST SHUT-IN	0.00	0.00	989.71

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : TOMKAT LTD.

DATE OF TEST : 1-11-1995

DST. NO : 1

WELL NAME : BRINING #1

LOCATION : S/W-S/E-S/W 31-19S-13W

SHUT-IN PERIOD : 1

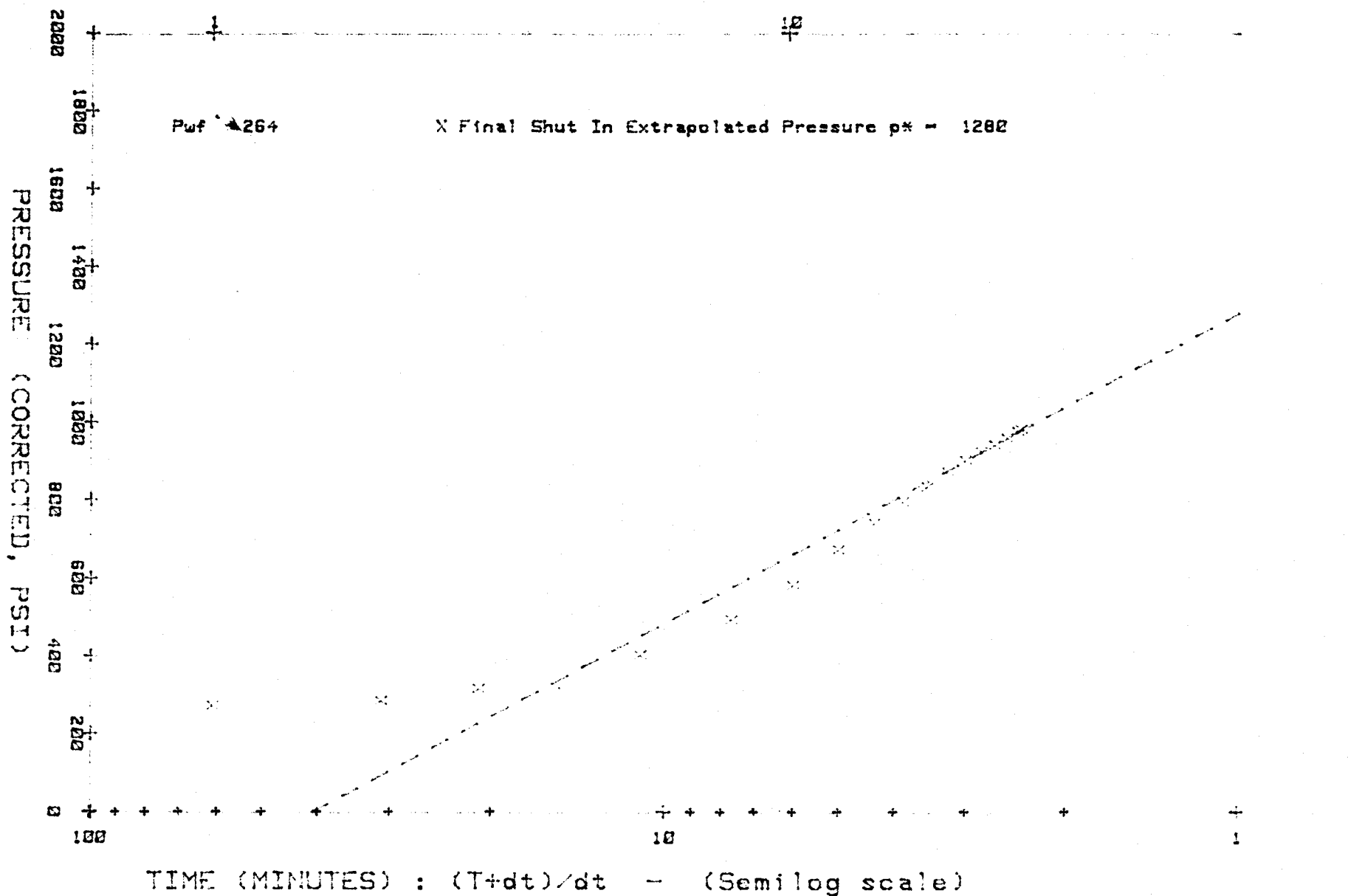
INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1279.00
Slope of Build-up Curve (psi/log cycle):	963.35
Effective Producing Time (min):	30.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

DATE : 1-11-1995

GAUGE # : 11088



SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : TOMKAT LTD.
 WELL NAME : BRINING #1
 LOCATION : S/W-S/E-S/W 31-19S-13W
 STATE & COUNTY : KANSAS, BARTON
 DATE OF TEST : 1-11-1995
 TEST INT. KB : 3480 to 3518
 TOTAL INTERVAL (ft) K.B. : 38.00
 ELEV.(GR) : 1863 (KB) : 1868
 FIELD :

ELEMENT SERIAL NO. : 11088
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	PRESSURES CURR PSIG
Refer. depth : 3518.0 ft-kb			
-3:15 END FLOW	0.00	0.00	264.15
	1.00	61.00	271.95
	2.00	31.00	284.21
	3.00	21.00	315.41
	6.00	11.00	402.35
	9.00	7.67	492.63
	12.00	6.00	580.68
	15.00	5.00	672.07
	18.00	4.33	740.05
	21.00	3.86	794.67
	24.00	3.50	832.56
	27.00	3.22	871.57
	30.00	3.00	900.55
	33.00	2.82	923.95
	36.00	2.67	940.67
	39.00	2.54	958.50
	42.00	2.43	973.22
	43.00	2.40	980.80
-3:58 2ND SHUT-IN	0.00	0.00	980.80

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES I I C.

DATA SUMMARY

COMPANY : TOMKAT LTD. WELL NAME : DRINING #1
 DATE OF TEST : 1-11-1995 LOCATION : S/W-S/E-S/W 31-19S-13W
 DST. NO : 1 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):65
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):05
 Gas (md): 0.00

TOTAL MOBILITY (md/cp): 60.88

TOTAL COMPRESSIBILITY (psi-1): 5.72E-06

ESTIMATED DAMAGE RATIO:29

CALCULATED DAMAGE RATIO:23

Reservoir Temperature (F): 111.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

Reservoir Compressibility (psi-1): 4.80E-07

Calculated Skin Factor : -4.87

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 3.17

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 264.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 248.19

Total Flowing Time (min): 60.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1280.00

Slope of Build-up Curve (psi/log cycle): 795.40

Effective Producing Time (min): 60.00