

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 05538

Name: TomKat, Ltd.

Address P.O. Box 20403

City/State/Zip Wichita, KS 67208-1408

Purchaser: N/A

Operator Contact Person: Dan Murta

Phone (316) 792-6960

Contractor: Name: Blue Goose Drilling Co.

License: 5104

Wellsite Geologist: Harold Trapp

Designate Type of Completion

New Well Re-Entry Workover

- Oil SWD S1OW Temp. Abd.
- Gas ENHR SIGW
- Dry Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

- Deepening Re-perf. Conv. to Inj/SWD
- Plug Back PBTB
- Commingled Docket No. _____
- Dual Completion Docket No. _____
- Other (SWD or Inj?) Docket No. _____

7-25-91 8-3-91 P & A
Spud Date Date Reached TD Completion Date

API NO. 15- 135-23,583-0000

County Ness

SE-NE-SE- Sec. 8 Twp. 17 Rge. 23 ^E ^W

1650 Feet ^N ^S (circle one) of Section Line

330 Feet ^E ^W (circle one) of Section Line

Footages Calculated from Nearest Outside Section Corner:
NE, ^{SE} ^{NW} or ^{SW} (circle one)

Lease Name Albers Well # 1

Field Name Opplinger

Producing Formation N/A

Elevation: Ground 2454' KB 2464'

Total Depth 4525' PBTB N/A

Amount of Surface Pipe Set and Cemented at 210 Feet

Multiple Stage Cementing Collar Used? N/A Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan N/A
(Data must be collected from the Reserve Pit)

Chloride content 4,200 ppm Fluid volume 2,000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name N/A

Lease Name _____ License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature _____

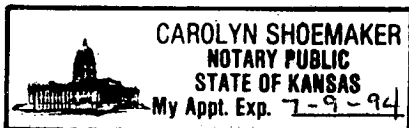
Title President Date 8-19-91

Subscribed and sworn to before me this 19th day of August, 1991.

Notary Public Carolyn Shoemaker

Date Commission Expires July 9, 1994

K.C.C. OFFICE USE ONLY			
F	<input type="checkbox"/>	Letter of Confidentiality Attached	
C	<input checked="" type="checkbox"/>	Wireline Log Received	
C	<input checked="" type="checkbox"/>	Geologist Report Received	
Distribution			
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other
(Specify)			



Sec. 8 Twp. 17S Rge. 23
 East
 West

County Ness

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1772	+ 692
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topoka	3569	-1105
List All E.Logs Run:		Heebner	3843	-1379
Radiation Guard Log		Lansing	3880	-1416
		LKC "J"	4085	-1621
		BKC	4160	-1696
		Marmaton	4220	-1756
		Pawnee	4266	-1802
		Fort Scott	4370	-1906
		Cherokee Shale	4394	-1930
		Cherokee Sand	4450	-1986
		Mississippian	4476	-2012

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#/ft.	210	60/40Poz.	140	2% CaCl & 2% Gel.

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone		Well P & A		

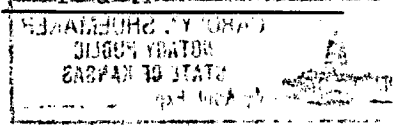
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
	Well P & A			

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. N/A			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) P & A

Production Interval _____



ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : TOMKAT LTD
 ADDRESS : P.O. BOX 20403, GREAT BEND
 STATE & COUNTY : KANSAS, NESS
 ELEV. (GR) : 2454 (KB) : 2464

WELL NAME : ^{Albers} HARKNESS #1
 LOCATION : SE-NE-SE 8-17S-23W
 FIELD :
 TEST DATE : 8-2-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI
 TEST INT. KB : 4441 to 4490
 ANCHOR LENGTH(ft) : 49
 TYPE OF TEST : Conventional
 TOTAL DEPTH(ft-~~kb~~) : 4490
 MAIN HOLE SIZE(in) : 7 7/8
 MUD WEIGHT : 9.3
 MUD VISCOSITY : 43
 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) : 134

DRILL PIPE LENGTH(ft) : 4116
 DRILL PIPE O.D. (in) : 3.82
 WEIGHT PIPE LENGTH(ft) :
 WEIGHT PIPE ID : 2.75
 DRILL COLLAR LENGTH(ft) : 305
 DRILL COLLAR I.D. (in) : 2.259
 TOP PACKER DEPTH(kb) : 4436
 BOTTOM PACKER DEPTH(kb) : 4441
 DUAL PACKERS :
 PACKER SIZE(in) : 6 3/4
 PACKER HOLD : Yes
 TOOL PLUG : No
 REVERSED OUT : No
 TEST TICKET NUMBER : 10928

EXTRA EQUIPMENT :

RECEIVED
STATE CORPORATION COMMISSION

AUG 20 1991

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

CLOCK RANGE : 12 HOURS

REGISTRATION DIVISION
Wichita, Kansas

SURFACE BLOW

1st Opening : WEAK BUILT TO 2 INCHES IN WATER DECREASED TO 1 1/2
 2nd Opening : NO BLOW

RECOVERY

Recovered 30 feet of DRILLING MUD
 Recovered 180 feet of MUD WITH A TRACE OF OIL APPROX. 1/2% OIL CUT

REMARKS :

WITNESSED BY : HARLD TRAPP TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD
 DATE OF TEST : 8-2-1991
 DEPTH : 4484.0

WELL NAME : ^{Albers} ~~HARKNESS~~ #1
 LOCATION : SE-NE-SE 8-17S-23W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:4					
Depth : 4484.0 ft-kb					
-1ST HYDROSTATIC	0.0	3.135	2261.21	-.43	2260.78
-12:00 1ST FLOW	0.0	.105	79.44	-3.24	76.20
- 12:05	5.0	.094	71.52	-3.30	68.21
- 12:10	10.0	.094	71.52	-3.30	68.21
- 12:15	15.0	.097	73.68	-3.29	70.39
- 12:20	20.0	.102	77.28	-3.26	74.02
- 12:25	25.0	.106	80.16	-3.24	76.92
- 12:30	30.0	.112	84.48	-3.20	81.28
-12:30 1ST FLOW	0.0	.112	84.48	-3.20	81.28
- 12:33	3.0	.959	694.37	1.57	695.94
- 12:36	6.0	1.362	984.55	3.84	988.39
- 12:39	9.0	1.552	1121.36	3.64	1125.00
- 12:42	12.0	1.646	1189.04	3.48	1192.53
- 12:45	15.0	1.698	1226.49	3.40	1229.89
- 12:48	18.0	1.729	1248.81	3.35	1252.16
- 12:51	21.0	1.752	1265.37	3.31	1268.68
- 12:54	24.0	1.774	1281.21	3.27	1284.48
- 12:57	27.0	1.786	1289.85	3.25	1293.10
- 13:00	30.0	1.795	1296.33	3.24	1299.57
- 13:03	33.0	1.804	1302.81	3.22	1306.03
- 13:06	36.0	1.812	1308.57	3.21	1311.78
- 13:09	39.0	1.819	1313.61	3.20	1316.81
- 13:12	42.0	1.823	1316.49	3.19	1319.68
- 13:15	45.0	1.827	1319.37	3.18	1322.56
- 13:18	48.0	1.829	1320.81	3.18	1323.99
- 13:21	51.0	1.833	1323.69	3.17	1326.87
- 13:24	54.0	1.835	1325.14	3.17	1328.30
- 13:27	57.0	1.838	1327.30	3.16	1330.46
- 13:30	60.0	1.841	1329.46	3.16	1332.61
- 13:33	63.0	1.845	1332.34	3.15	1335.49
-1:33 1ST SHUT-IN	0.0	1.845	1332.34	3.15	1335.49
-1:33 2ND FLOW	0.0	.147	109.68	-3.00	106.68
- 1:38	5.0	.146	108.96	-3.01	105.95
- 1:43	10.0	.146	108.96	-3.01	105.95
- 1:48	15.0	.150	111.84	-2.99	108.85
- 1:53	20.0	.158	117.60	-2.94	114.66
- 1:58	25.0	.167	124.08	-2.89	121.19
- 2:03	30.0	.172	127.68	-2.86	124.82
-2:03 END FLOW	0.0	.172	127.68	-2.86	124.82
- 2:06	3.0	.934	676.36	1.43	677.79

• SUPERIOR TESTERS ENTERPRISES INC.

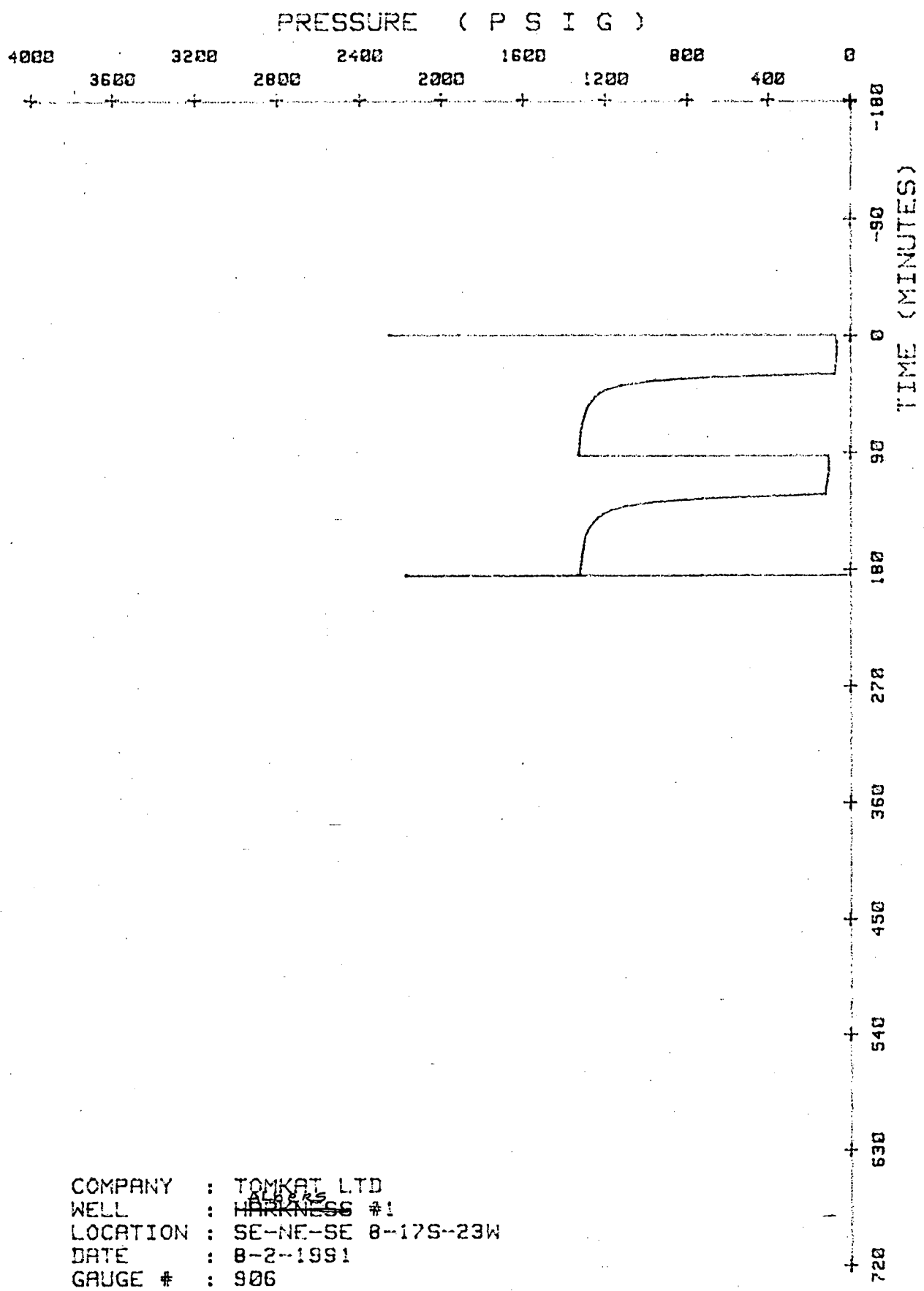
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT LTD
 DATE OF TEST : 8-2-1991
 DEPTH : 4484.0

WELL NAME : *Albers* HARRNESS #1
 LOCATION : SE-NE-SE 8-17S-23W
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.: 4					
- 2:09	6.0	1.340	968.71	3.72	972.42
- 2:12	9.0	1.528	1104.08	3.68	1107.76
- 2:15	12.0	1.621	1171.04	3.53	1174.57
- 2:18	15.0	1.677	1211.37	3.43	1214.80
- 2:21	18.0	1.712	1236.57	3.37	1239.94
- 2:24	21.0	1.738	1255.29	3.33	1258.62
- 2:27	24.0	1.763	1273.29	3.29	1276.58
- 2:30	27.0	1.777	1283.37	3.27	1286.64
- 2:33	30.0	1.789	1292.01	3.25	1295.26
- 2:36	33.0	1.797	1297.77	3.23	1301.01
- 2:39	36.0	1.802	1301.37	3.22	1304.60
- 2:42	39.0	1.808	1305.69	3.21	1308.91
- 2:45	42.0	1.811	1307.85	3.21	1311.06
- 2:48	45.0	1.816	1311.45	3.20	1314.66
- 2:51	48.0	1.820	1314.33	3.19	1317.53
- 2:54	51.0	1.822	1315.77	3.19	1318.97
- 2:57	54.0	1.825	1317.93	3.19	1321.12
- 3:00	57.0	1.830	1321.53	3.18	1324.71
- 3:03	60.0	1.833	1323.69	3.17	1326.87
- 3:05	62.0	1.835	1325.14	3.17	1328.30
-3:05 2ND SHUT-IN	0.0	1.835	1325.14	3.17	1328.30
- 3:05	0.0	3.016	2175.52	-0.23	2175.29
- 3:05	0.0	0.016	15.35	-3.74	11.61
-2ND HYDROSTATIC	0.0	3.016	2175.52	-0.23	2175.29

ORIGINAL



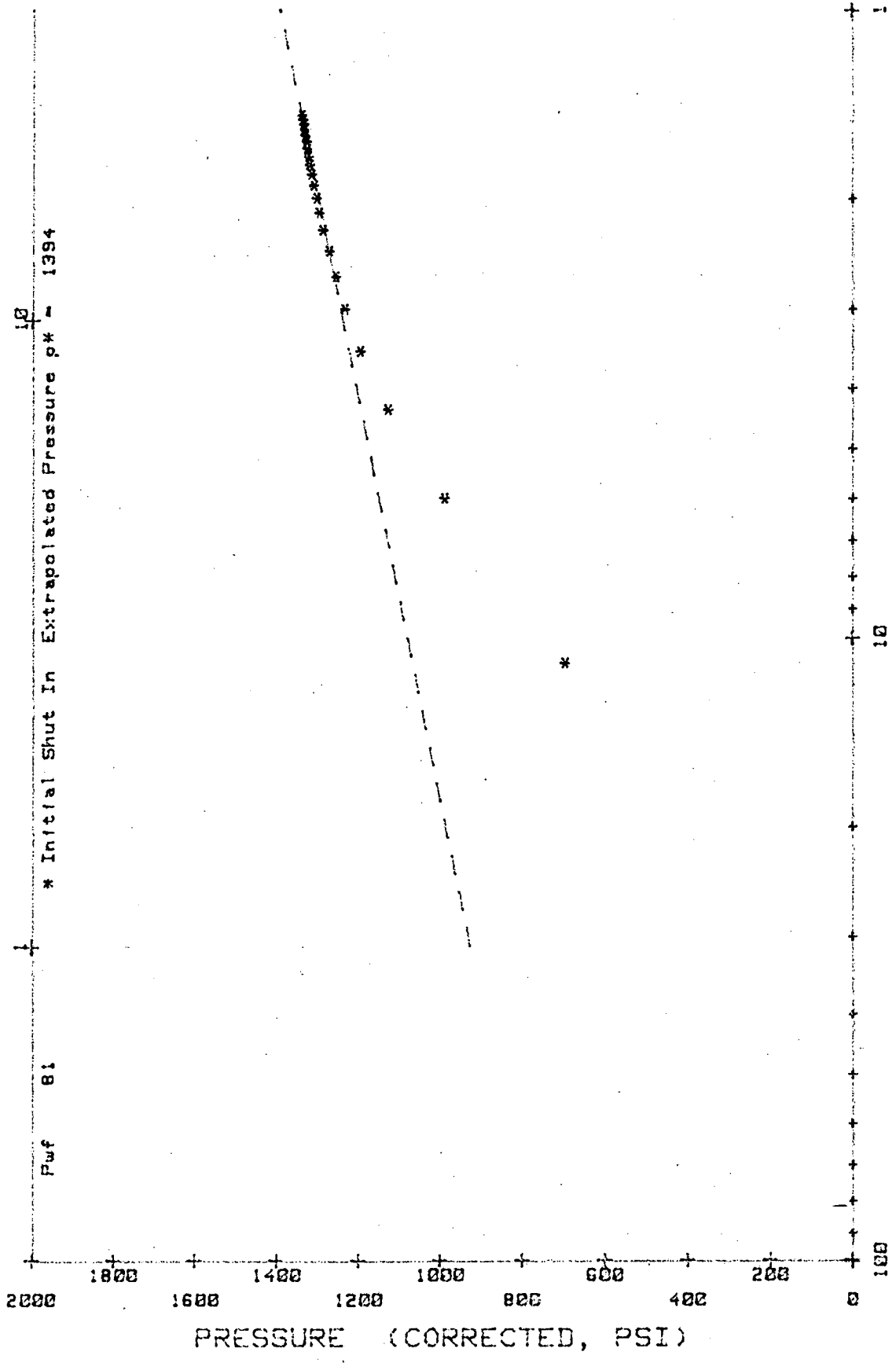
COMPANY : TOMKAT LTD
WELL : ^{ALBERTA} HARKNESS #1
LOCATION : SE-NE-SE 8-17S-23W
DATE : 8-2-1991
GAUGE # : 906

GAUGE # : 906

DATE : 8-2-1991

LOCATION : SE-NE-SE 8-17S-23W

Pwf 81 * Initial Shut In Extrapolated Pressure p* = 1394



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

PRESSURE (CORRECTED, PSI)

SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

HORNER ANALYSIS

COMPANY : TOMKAT LTD #1
 WELL NAME : ^{PIPE} HARKNESS #1
 LOCATION : SE-NE-SE 8-17S-23W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 8-2-1991
 TEST INT. KB : 4441 to 4490
 TOTAL INTERVAL (ft) K.B. : 49.00
 ELEV.(GR) : 2454 (KB) : 2464
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4484.0 ft-kb		
-12:30 1ST FLOW	0.00	0.00	81.28
	3.00	11.00	695.94
	6.00	6.00	988.39
	9.00	4.33	1126.27
	12.00	3.50	1194.48
	15.00	3.00	1232.22
	18.00	2.67	1254.72
	21.00	2.43	1271.41
	24.00	2.25	1287.37
	27.00	2.11	1296.08
	30.00	2.00	1302.61
	33.00	1.91	1309.14
	36.00	1.83	1314.95
	39.00	1.77	1320.03
	42.00	1.71	1322.93
	45.00	1.67	1325.83
	48.00	1.63	1327.29
	51.00	1.59	1330.19
	54.00	1.56	1331.64
	57.00	1.53	1333.82
	60.00	1.50	1335.99
	63.00	1.48	1338.90
-1:33 1ST SHUT-IN	0.00	0.00	1338.90

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : TOMKAT LTD
DATE OF TEST : 8-2-1991
DST. NO : 4
WELL NAME : ~~HARRISS~~ ^{Albers} #1
LOCATION : SE-NE-SE 8-17S-23W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1394.00
Slope of Build-up Curve (psi/log cycle):	312.67
Effective Producing Time (min):	30.00

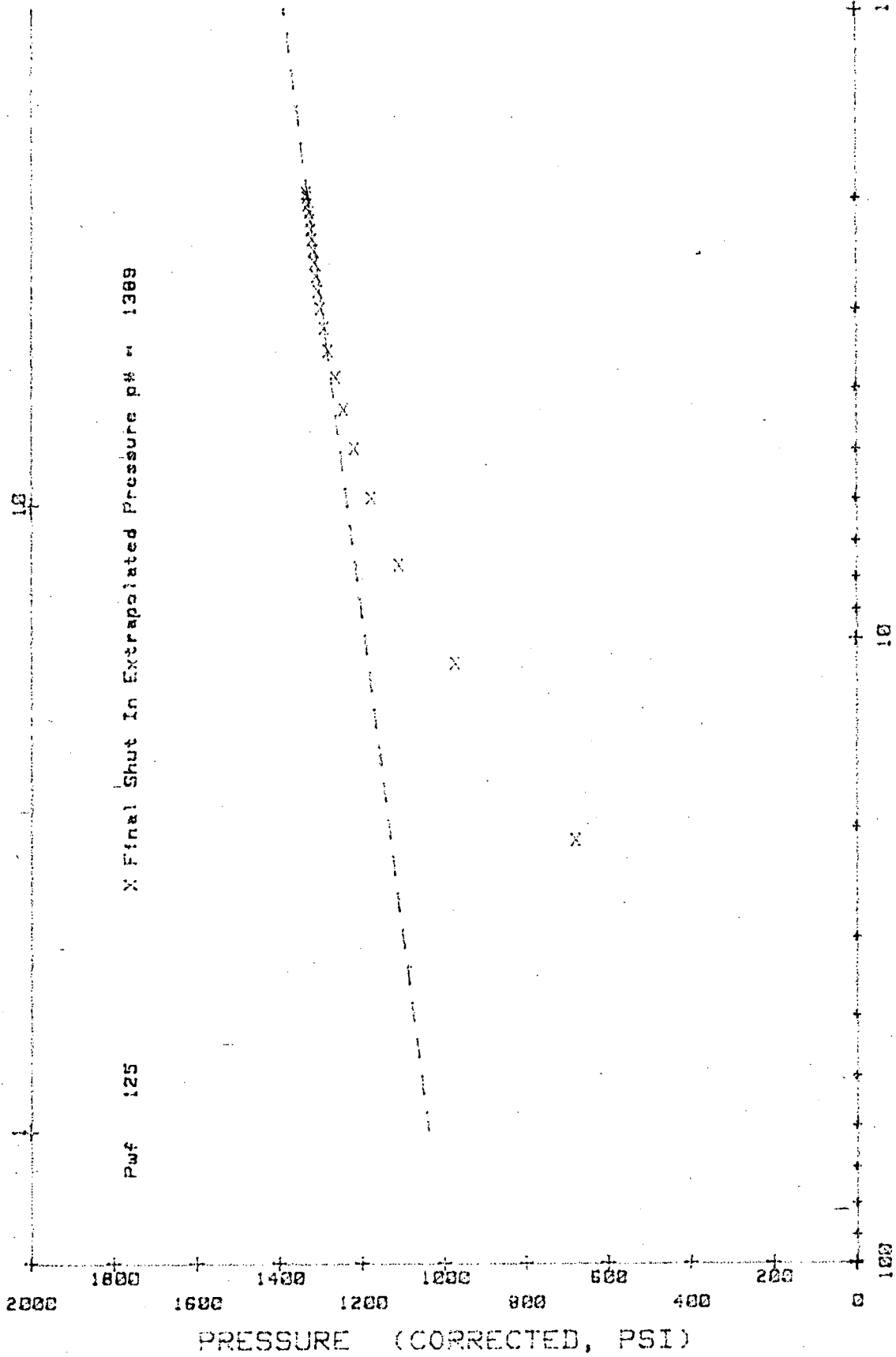
INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 506

DATE : 8-2-1991

LOCATION : SE-NE-SE 8-17S-23W

Pwf 125 X Final Shut In Extrapolated Pressure p# = 1389



TIME (MINUTES) : (T+dt)/dt - (Semi log scale)

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : TOMKAT LTD *Albers*
 WELL NAME : HARKNESS #1
 LOCATION : SE-NE-SE 8-17S-23W
 STATE & COUNTY : KANSAS, NESS
 DATE OF TEST : 8-2-1991
 TEST INT. KB : 4441 to 4490
 TOTAL INTERVAL (ft) K.B. : 49.00
 ELEV.(GR) : 2454 (KB) : 2464
 FIELD :

ELEMENT SERIAL NO. : 906
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES ----- CORR PSIG
Refer. depth :	4484.0 ft-kb		
-2:03 END FLOW	0.00	0.00	124.82
	3.00	21.00	677.79
	6.00	11.00	972.42
	9.00	7.67	1108.85
	12.00	6.00	1176.34
	15.00	5.00	1216.98
	18.00	4.33	1242.38
	21.00	3.86	1261.25
	24.00	3.50	1279.39
	27.00	3.22	1289.55
	30.00	3.00	1298.26
	33.00	2.82	1304.06
	36.00	2.67	1307.69
	39.00	2.54	1312.05
	42.00	2.43	1314.22
	45.00	2.33	1317.85
	48.00	2.25	1320.75
	51.00	2.18	1322.21
	54.00	2.11	1324.38
	57.00	2.05	1328.01
	60.00	2.00	1330.19
	62.00	1.97	1331.64
-3:05 2ND SHUT-IN	0.00	0.00	1331.64

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

DATA SUMMARY

COMPANY : TOMKAT LTD
 DATE OF TEST : 8-2-1991
 DST. NO : 4

WELL NAME : ~~HARRNESS~~ ^{Alders} #1
 LOCATION : SE-NE-SE 8-17S-23W
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):10
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):01
 Gas (md): 0.00

TOTAL MOBILITY (md/cp):01

TOTAL COMPRESSIBILITY (psi⁻¹): 6.79E-06

ESTIMATED DAMAGE RATIO: 1.46

CALCULATED DAMAGE RATIO: 3.86

Reservoir Temperature (F): 134.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

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

Calculated Skin Factor : 5.51

PRODUCTION WITH DAMAGE REMOVED (bbl/D):49

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 125.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 3.00

Total Flowing Time (min): 60.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1389.00

Slope of Build-up Curve (psi/log cycle): 195.54

Effective Producing Time (min): 60.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

ORIGINAL

Superior Testers Enterprises, Inc.

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

(316) 792-6902 2454 G.L.

Date 8-24-1991 Location SE-NE-SE 8-17^S-23^N Elevation 2464 A.B. County NESS

Company TOM KAT LTD Number of Copies 5

Charts Mailed to P.O. Box 20403 GREAT BEND KANSAS 67530

Drilling Contractor Blue Goose Drilling Rig #2

Length Drill Pipe 416 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X H.

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

Length Drill Collars 305 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H.

Top Packer Depth 4436 Bottom Packer Depth 4436 41 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4441 TO 4490 ANCHOR LENGTH 49 TOTAL DEPTH 4490 Hole Size 7 7/8"

LEASE & WELL NO. ALBERS HARKNESS #1 FORMATION TESTED Mississippi TEST NO. 4

Mud Weight 9.3 Viscosity 43 Water Loss 8.8 Chlorides - Pits 4000 D.S.T. 12000

Maximum Temp. 134 °F Initial Hydrostatic Pressure (A) 2228 P.S.I. Final Hydrostatic Pressure (H) 2214 P.S.I.

Tool Open I.F.P. from 12:00 Pm to 12:30 Pm 30 min

from [B] 79 P.S.I. to [C] 87 P.S.I.

Tool Closed I.C.I.P. from 12:30 Pm to 1:30 Pm 60 min

[D] 1353 P.S.I.

Tool Open F.F.P. from 1:30 Pm to 2:00 Pm 30 min

from [E] 108 P.S.I. to [F] 130 P.S.I.

Tool Closed F.C.I.P. from 2:00 Pm to 3:00 Pm 60 min

[G] 1353 P.S.I.

Initial Blow WEAK blow built to 2 inches into the water & DECREASED to 1 1/2 inches

Final Blow no blow

Total Feet Recovered 210 Gravity of Oil _____ Corrected

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

60 Feet of mud with a trace of oil % Gas 16? % Oil 70 % Mud 30 % Water _____

60 Feet of mud with a trace of oil % Gas 14? % Oil 55 % Mud 45 % Water _____

60 Feet of mud with a trace of oil % Gas 14? % Oil 30 % Mud 65 % 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 4484 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4487 Insurance NONE

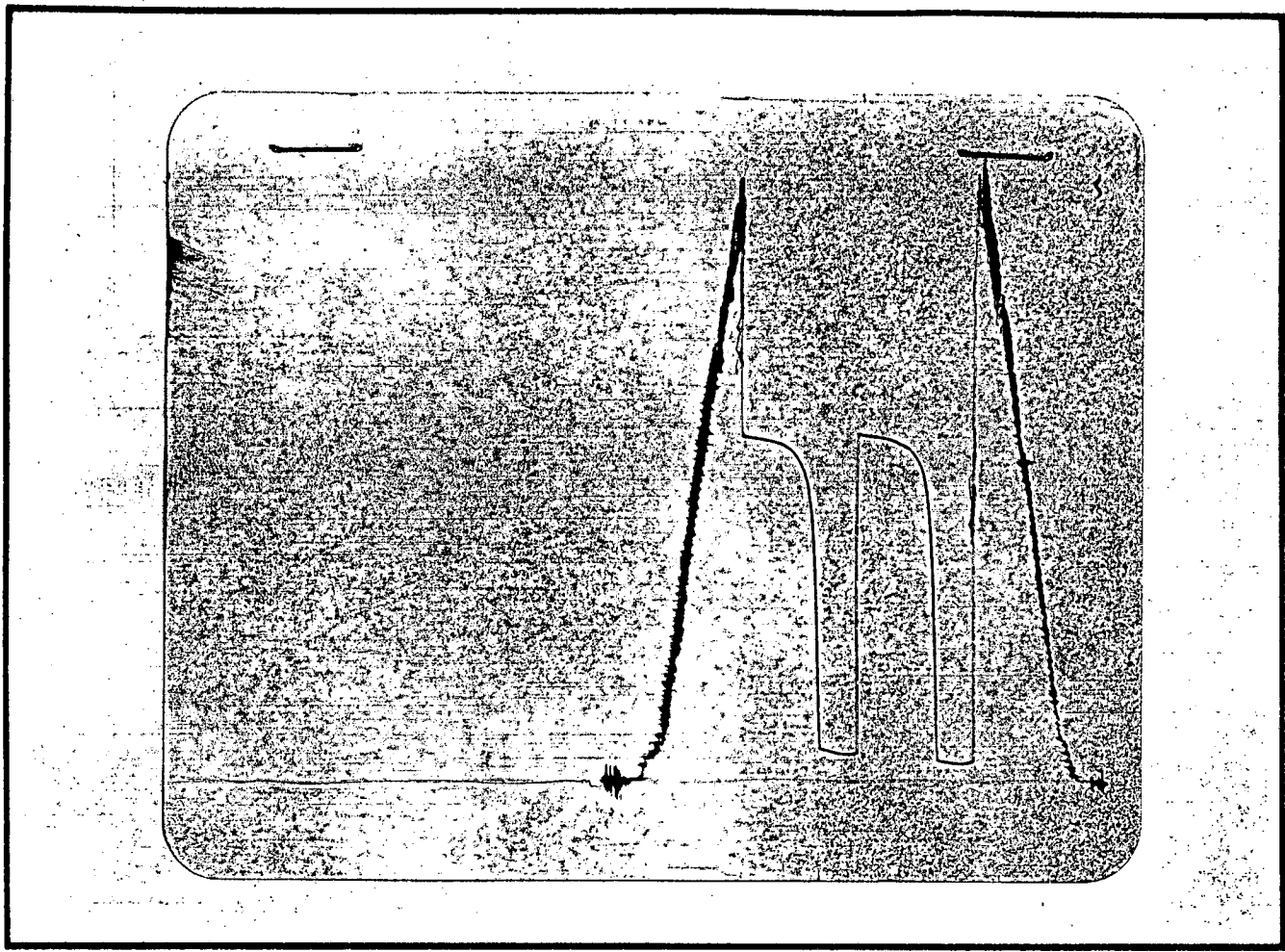
Price of Job _____

Tool Operator Sane Judig

Approved By _____

No 10928

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	2228	2260	P.S.I.
(B) First Initial Flow Pressure	79	76	P.S.I.
(C) First Final Flow Pressure	87	81	P.S.I.
(D) Initial Closed-in Pressure	1353	1335	P.S.I.
(E) Second Initial Flow Pressure	108	106	P.S.I.
(F) Second Final Flow Pressure	130	124	P.S.I.
(G) Final Closed-in Pressure	1353	1328	P.S.I.
(H) Final Hydrostatic Mud	2214	2175	P.S.I.

9

AUG - 5 RECD

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

July Open.
ORIGINAL

TO: Tom Kat LTD
Box 1471
Great Bend, Kansas 67530

INVOICE NO. 59975
PURCHASE ORDER NO. Albers
LEASE NAME Harkness #1
DATE July 25, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 84 sks @\$5.25	\$ 441.00	
Pozmix 56 sks @\$2.25	126.00	
Chloride 4 sks @\$21.00	+ 84.00	\$ 651.00
Handling 140 sks @\$1.00	140.00	
Mileage (10) @\$0.04¢ per sk per mi	56.00	
Surface	380.00	
Mi @\$2.00 pmp. trk.	20.00	
1 plug	42.00	
		<u>638.00</u>
		Total \$ 1,289.00

Cement circ.

If account CURRENT 15% discount will be allowed ONLY if paid within 30 days from date of invoice.

*Drilling
Cement out for surface
Jet*

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

Jan Muta

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STATE CORPORATION COMMISSION

AUG 20 1991

REGISTRATION DIVISION
Wichita, Kansas

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

No 1445
 ORIGINAL

New

Date	7-25-91	Sec.	8	Twp.	17	Range	23	Called Out	5:30 P.M.	On Location	6:45 P.M.	Job Start	9:00 P.M.	Finish	9:20 P.M.
Lease	Herb Dress	Well No.	1	Location				Ness City N to M.M. 117 E 3/4 S W 40				County	Ness	State	Ks
Contractor								Owner							
Blue Goose								Tom Kat L.T.D.							
Type Job								To Allied Cementing Co., Inc.							
Surface								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge				To			
17 1/4				216				Tom Kat L.T.D.							
Csg.				Depth				Street				City			
8 1/2				213				Box 1471				Great Bend State Ks 67530			
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Drill Pipe				Depth				Purchase Order No.				X			
Tool				Depth											
Cement Left in Csg.				Shoe Joint				CEMENT							
15 1/2								Amount Ordered				140.60/40 2% gel 3% C.C.			
Press Max.				Minimum				Consisting of							
								Common				84 5.25 441.00			
Meas Line				Displace				Poz. Mix				56 2.25 126.00			
13								Gel.				3 6.75 20.25			
Perf.								Chloride				4 21.00 84.00			
								Quickset							

EQUIPMENT

No.	Cementer	Bob
Pumptrk 158	Helper	SD
No.	Cementer	
Pumptrk	Helper	
	Driver	M. Ke
Bulktrk 69	Driver	

DEPTH of Job

Reference:	Pump Truck Charge	380.00
10	Milage	20.00
	18 1/4 T.W.P.	42.00
	Sub Total	
	Total	442.00

Remarks:
 Cement did circulate
 Thank you
 Robert W. [Signature]

Handling	140	STATE COMMISSION	1.00	140.00
Milage	10	AUG 20 1991		56.00
		Wichita, Kansas		
		Total		847.00

Floating Equipment
 TOTAL \$ 1289.00
 Disc - 193.35
 \$ 1095.65

THANK YOU!

TELEPHONE:

AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

TO: TomKat LTD INVOICE NO. 60026
Box 1471 PURCHASE ORDER NO. _____
Great Bend, Kansas 67530 LEASE NAME Harkness #1
DATE Aug. 3, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 153 sks @\$5.25	\$ 803.25	
Pozmix 102 sks @\$2.25	229.50	
Gel 15 sks @\$6.75	101.25	
Flo seal 64#@ \$1.00	<u>64.00</u>	\$ 1,198.00

Handling 255 sks @\$1.00	255.00	
Mileage (10) @\$0.04c per sk per mi	102.00	
Plugging	380.00	
Mi @\$2.00 pmp. trk.	20.00	
1 plug	<u>20.00</u>	<u>777.00</u>

Total \$ 1,975.00

50 sks. @800'
80 sks. @1000'
50 sks. @ 200'
50 sks. @ 240'
10 sks. @ 40'
15 sks. in R. H.

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THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2 % Charged Thereafter.

CONSERVATION DIVISION
Wichita, Kansas

Plugging Cost

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

No 1887

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

New

Date	8-3-91	Sec.	8	Twp.	17	Range	23 W	Called Out	10:00 AM	On Location	12:30 PM	Job Start	1:15 PM	Finish	3:30 PM
Lease	Hackness	Well No.	1	Location	Ness city - 10 N / 16 1/2 S / W 1/4				County	Ness	State	Ks			
Contractor	Blue Cross				Owner	SAME									
Type Job	Rotary plug				To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	7 7/8	T.D.	4525												
Csg.	8 5/8	Depth	263'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

Charge To Tomcat LTD.
 Street Box 1471
 City Great Bend State Ks 67530

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X [Signature]

EQUIPMENT

Pumptrk	No.	Cementer	<u>Jack W</u>
		Helper	
Pumptrk <u>158</u>	No.	Cementer	<u>Bob</u>
		Helper	
		Driver	<u>Keith</u>
Bulktrk <u>199</u>		Driver	

CEMENT

Amount Ordered	<u>255</u> 3x <u>83</u> 60/40 60% <u>1/10 Flo</u>		
Consisting of			<u>Seal</u>
Common	<u>153</u>	<u>5.25</u>	<u>803.25</u>
Poz. Mix	<u>102</u>	<u>2.25</u>	<u>229.50</u>
Gel.	<u>15</u>	<u>6.75</u>	<u>101.25</u>
Chloride			
Quickset	<u>Flo Seal - 64th</u>	<u>1.00</u>	<u>64.00</u>
Handling	<u>255</u>	<u>1.00</u>	<u>255.00</u>
Mileage	<u>10</u>		<u>102.00</u>

DEPTH of Job

Reference:	<u>Dump truck</u>	<u>380.00</u>
<u>10</u>	<u>Mileage</u>	<u>20.00</u>
	<u>1 8 5/8 wooden plug</u>	<u>20.00</u>
	Total	420.00

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 WICHITA, KANSAS

Total 1555.00

Remarks:

1800' - 50 SX
1000' - 80 SX
200' - 80 SX
240' - 20 SX
40' - 10 SX
Rat hole - 15 SX

THANKS

TOTAL \$ 1975.00
 Disc - 296.25
 \$ 1678.75

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 7-30-1991 Location SE-NE-SE 8-17^S-23^W Elevation _____ County NESS

Company TOMKAT LTD. Number of Copies 3

Charts Mailed to P.O. Box 20403 Great Bend Kansas 67530

Drilling Contractor BLUE GOOSE DRILLING RIG

Length Drill Pipe 3687 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

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

Length Drill Collars 365 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4066 Bottom Packer Depth 4071 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4071 TO 4095 ANCHOR LENGTH 24 TOTAL DEPTH 4095 Hole Size 7 1/8"

LEASE & WELL NO. HARKNESS #1 FORMATION TESTED KANSAS CITY TEST NO. 1

Mud Weight 9.1 Viscosity 46 Water Loss 11.3 Chlorides - Pits 4900 D.S.T. 118000

Maximum Temp. 114 °F Initial Hydrostatic Pressure (A) 2034 P.S.I. Final Hydrostatic Pressure (H) 2020 P.S.I.

Tool Open I.F.P. from 6:45 Pm to 7:15 Pm 30 min

Tool Closed I.C.I.P. from 7:15 Pm to 8:15 Pm 60 min

Tool Open F.F.P. from 8:15 Pm to 9:00 Pm 45 min

Tool Closed F.C.I.P. from 9:00 Pm to 10:30 Pm 90 min

from [B] <u>43</u> P.S.I. to [C] <u>87</u> P.S.I.
[D] <u>1360</u> P.S.I.
from [E] <u>130</u> P.S.I. to [F] <u>188</u> P.S.I.
[G] <u>1360</u> P.S.I.

Initial Blow WEAK blow built to 4 1/2 inches into the water

Final Blow WEAK blow built to 5 inches into the water

Total Feet Recovered 400 Gravity of Oil _____ Corrected

100 Feet of SLIGHTLY MUD WATER WITH A SCUM OF OIL ON TOP %Gas _____ %Oil _____ %Mud _____ %Water _____

300 Feet of WATER %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. 47441 Depth 4089 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4092 Insurance NONE

Price of Job _____

Tool Operator Gene Audij

Approved By No 10925

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.

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STATE CORPORATION COMMISSION
AUG 27 1991
CORPORATION DIVISION
Wichita, Kansas

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530
(316) 792-6902

Date 8-1-1991 Location SE-NE-SE 8-17^s-23^w Elevation _____ County NESS

Company TOMKAT LTD Number of Copies 5

Charts Mailed to P.O. Box 20403 GREAT BEND KANSAS 67530

Drilling Contractor BLUE GOOSE DRILLING BIG #2

Length Drill Pipe 4023 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

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

Length Drill Collars 305 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4346 Bottom Packer Depth 4346 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4346 TO 4370 ANCHOR LENGTH 26 TOTAL DEPTH 4370 Hole Size 7 7/8"

LEASE & WELL NO. HARKNESS #1 FORMATION TESTED Fort Scott TEST NO. 2

Mud Weight 9.3 Viscosity 43 Water Loss 10.4 Chlorides - Pits 4800 D.S.T. _____

Maximum Temp. 115 °F Initial Hydrostatic Pressure (A) 2178 P.S.I. Final Hydrostatic Pressure (H) 2163 P.S.I.

Tool Open I.F.P. from 5:00 A.m to 5:30 A.m 30 min

Tool Closed I.C.I.P. from 5:30 A.m to 6:30 A.m 60 min

Tool Open F.F.P. from 6:30 A.m to 7:00 A.m 30 min

Tool Closed F.C.I.P. from 7:00 A.m to 8:30 m 90 min

Initial Blow VERY WEAK blow FOR 7 MINUTES & DIED

Final Blow NO blow

Total Feet Recovered 2 Gravity of Oil _____ Corrected _____

Feet of	% Gas	% Oil	% Mud	% Water
<u>2</u> Feet of <u>Thick very Heavy mud</u>				
_____ 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

from [B] 21 P.S.I. to [C] 21 P.S.I.
[D] 29 P.S.I.
from [E] 21 P.S.I. to [F] 21 P.S.I.
[G] 21 P.S.I.

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CONSERVATION DIVISION
Wichita, Kansas

Remarks _____

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

Top Recorder No. 906 Clock No. 47441 Depth 4367 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4370 Insurance NONE

Price of Job _____

Tool Operator Dave Judy

Approved By _____

No 10926

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Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 8-2-1991 Location SE-NE-SE 8-17^s-23^w Elevation _____ County NESS

Company TOMKAT LTD Number of Copies 5

Charts Mailed to P.O. Box 20403 GREAT BEND KANSAS 67530

Drilling Contractor BLUE GOOSE DRILLING RIG #2

Length Drill Pipe 4154 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X. H.

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

Length Drill Collars 305 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 4478 Bottom Packer Depth 4478 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4478 TO 4490 ANCHOR LENGTH 12 TOTAL DEPTH 4490 Hole Size 7 7/8"

LEASE & WELL NO. HARKNESS #1 FORMATION TESTED MISSISSIPPI TEST NO. 3

Mud Weight 9.3 Viscosity 43 Water Loss 8.8 Chlorides - Pits 4000 D.S.T. _____

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

Tool Open I.F.P. from 8:25 AM to _____ m _____ min

Tool Closed I.C.I.P. from _____ m to _____ m _____ min

Tool Open F.F.P. from _____ m to _____ m _____ min

Tool Closed F.C.I.P. from _____ m to _____ m _____ min

Initial Blow PACKER FAILURE

Final Blow _____

Total Feet Recovered _____ Gravity of Oil _____ Corrected

_____ 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. 47441 Depth 4489 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 4487 Insurance NONE

Price of Job _____

Tool Operator Jane Rudy

Approved By _____

No 10927

from [B] _____ P.S.I. to [C] _____ P.S.I.
[D] _____ P.S.I.
from [E] _____ P.S.I. to [F] _____ P.S.I.
[G] _____ P.S.I.

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AUG 27 1991

WICHITA DIVISION
Wichita, Kansas

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, or 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.