

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

ORIGINAL

Operator: License # 05538  
Name: TomKat, Ltd.  
Address P.O. Box 20403  
City/State/Zip Wichita, KS 67208-1403

Purchaser: \_\_\_\_\_

Operator Contact Person: Dan Murta  
Phone (316) 792-6960

Contractor: Name: Lobo Drilling Company  
License: 5864

Wellsite Geologist: Daniel DeBoer

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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. \_\_\_\_\_  
10/27/90 11/5/90  
Spud Date Date Reached TD Completion Date

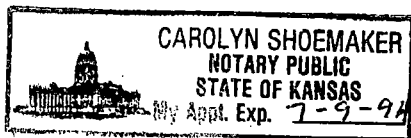
API NO. 15- 095-21,640 - 0000  
County Kingman  
C-S/2-N/2-SE Sec. 23 Twp. 27 Rge. 6  E  
1650 Feet N/S (circle one) of Section Line  
1320 Feet E/W (circle one) of Section Line  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name Endicott Well # "B" #1  
Field Name Waterloo  
Producing Formation \_\_\_\_\_  
Elevation: Ground 1453 KB 1462  
Total Depth 4110 PBTB \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 316 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.  
Drilling Fluid Management Plan AIT D&A  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
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 [Signature]  
Title President Date 11-6-91  
Subscribed and sworn to before me this 6th day of November, 1991.  
Notary Public Carolyn Shoemaker  
Date Commission Expires July 9, 1994

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)



NOV 7 1991  
CONSERVATION DIVISION  
Wichita, Kansas

Sec. 23 Twp. 27 Rge. 6  
 East  
 West

County Kingman

**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	Heebner	2722	(-1260)
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Brown Lime	2982	(-1520)
List All E.Logs Run:		Lansing	2993	(-1531)
		Stark	3360	(-1898)
		Basd/KC	3464	(-2002)
		Mississippian	3760	(-2298)
		Kinderhook	4032	(-2570)
		Misner Sand	4099	(-2637)
		Viola	NR	
		Simpson Sand	NR	

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 #	316'	60/40 Poz	175	2%gel-3%CC

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				

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

<b>TUBING RECORD</b>	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. D & 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) \_\_\_\_\_

Production Interval \_\_\_\_\_

ORIGINAL

DRILLER'S WELL LOG

DATE COMMENCED: October 27, 1990  
DATE COMPLETED: November 5, 1990

TOMKAT, LTD.  
ENDICOTT 'B' #1  
C S/2 N/2 SE  
Sec. 23, T27s, R6W  
Kingman County, Ks.

0 - 505' Surface Soil, Sand, Shale  
505 - 1205' Shale w/lime streak  
1205 - 2340' Shale & Lime  
2340 - 3440' Lime & Shale  
3440 - 3660' Lime  
3660 - 4110' Shale & Lime  
4110' RTD

ELEVATION: 1462 K.B.

Surface Pipe: Set new  
8-58/8", 20# pipe @316'  
w/175 sacks 60/40 pozmix  
2% gel 3% cc.

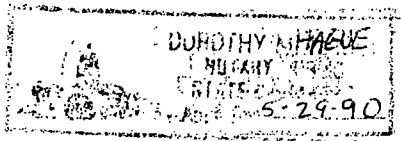
A F F I D A V I T

STATE OF KANSAS  
COUNTY OF BARTON)ss

Ervin Neighbors of lawful age does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

*Ervin Neighbors*

Subscribed and sworn to before me this 8<sup>th</sup> day of November 1990.



*Dorothy M. Hague*  
Notary Public

RECEIVED  
STATE CORPORATION COMMISSION

NOV 7 1991

CONSERVATION DIVISION  
Wichita, Kansas

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

1462XB  
14536.L. ORIGINAL  
County Lincoln

Date 11-2-1990 Location C-N12-N12-SE 23-21-6<sup>S</sup> Elevation 14536.L. County Lincoln

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

Charts Mailed to Box 1471 GREAT BEND KANSAS 67530

Drilling Contractor LOBO Drilling Rig #1

Length Drill Pipe 2900 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe 437 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X.H.

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

Top Packer Depth 3351 Bottom Packer Depth 3356 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3356 TO 3440 ANCHOR LENGTH 84 TOTAL DEPTH 3440 Hole Size 7 7/8"

LEASE & WELL NO. Endicott "B" #1 FORMATION TESTED Swope & Hertha TEST NO. 1

Mud Weight 8.81 Viscosity 51 Water Loss 10.4 Chlorides - Pits 2600 D.S.T. 56000

Maximum Temp. 112 °F Initial Hydrostatic Pressure (A) 1604 P.S.I. Final Hydrostatic Pressure (H) 1590 P.S.I.

Tool Open I.F.P. from 10:30 A.M. to 11:00 A.M. 30 min

from [B]	<u>79</u>	P.S.I. to [C]	<u>123</u>	P.S.I.
[D]	<u>1324</u>			P.S.I.
from [E]	<u>173</u>	P.S.I. to [F]	<u>224</u>	P.S.I.
[G]	<u>1296</u>			P.S.I.

Tool Closed I.C.I.P. from 11:00 A.M. to 12:00 A.M. 60 min

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

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

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 23 minutes

Final Blow Fair blow - built to 1 inch from the bottom of a 5 Gallon bucket

Total Feet Recovered 400 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

400 Feet of Slightly Gas cut muddy water with 5% Gas 10% Oil 68% Mud 27% Water

\_\_\_\_\_ Feet of A Good show of oil Between % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water

\_\_\_\_\_ Feet of the shut in & hydraulic tool % 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. 90 13561 Depth 3434 Clr. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47441 Depth 3437 Insurance NONE

Price of Job \_\_\_\_\_

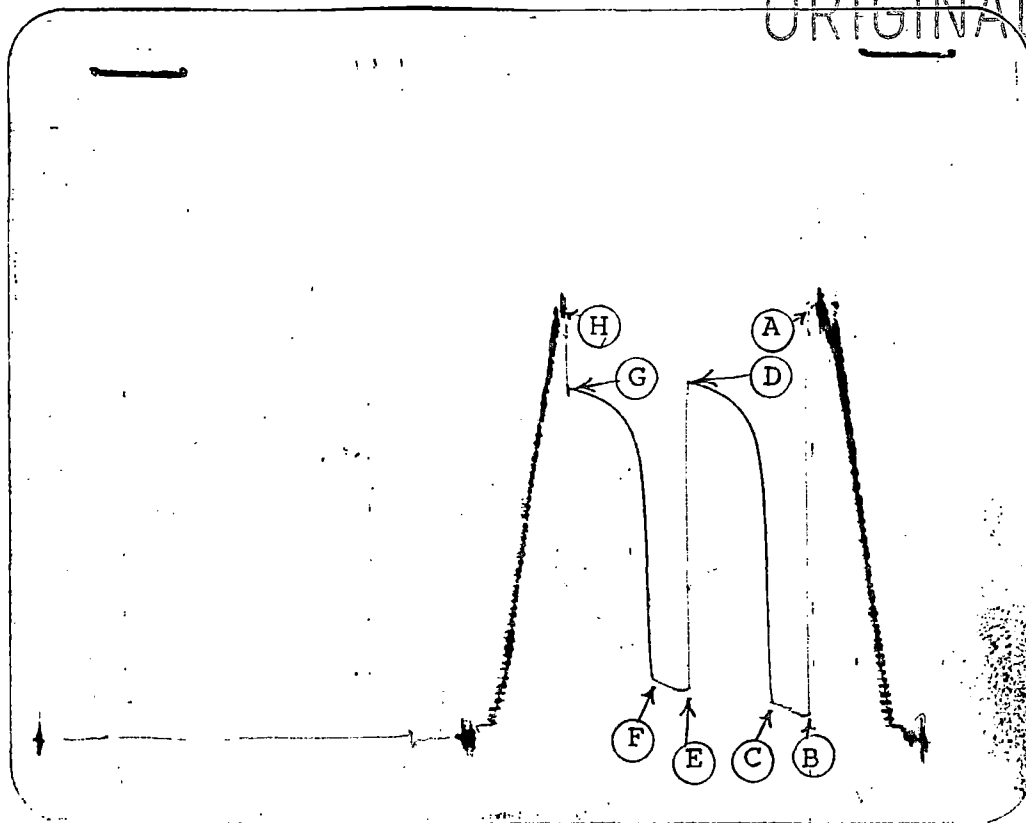
Tool Operator Dave Ludwig

Approved By Daniel DeBoer

No 11549

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.

ORIGINAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	1604	1592	P.S.I.
(B) First Initial Flow Pressure .....	79	74	P.S.I.
(C) First Final Flow Pressure .....	123	119	P.S.I.
(D) Initial Closed-in Pressure .....	1324	1316	P.S.I.
(E) Second Initial Flow Pressure .....	173	168	P.S.I.
(F) Second Final Flow Pressure .....	224	211	P.S.I.
(G) Final Closed-in Pressure .....	1296	1293	P.S.I.
(H) Final Hydrostatic Mud .....	1590	1560	P.S.I.

# ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

## WELL IDENTIFICATION DATA

COMPANY : TOMKAT L.T.D. WELL NAME : ENDICOTT"B"#1  
ADDRESS : BOX 1471 GREAT BEND LOCATION : C-N/2-N/2-SE 23-218-6W  
STATE & COUNTY : KANSAS,KINGMAN FIELD :  
ELEV.(GR) : 1453 (KB) : 1462 TEST DATE : 11-2-1990

## EQUIPMENT AND HOLE DATA

FORMATION TESTED : SWOPE & HERTHA DRILL PIPE LENGTH(ft) : 2900  
TEST INT. KB : 3356 to 3440. DRILL PIPE O.D.(in) : 3.82  
ANCHOR LENGTH(ft) : 84 WEIGHT PIPE LENGTH(ft) : 437  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
TOTAL DEPTH(ft-kg) : 3440 DRILL COLLAR LENGTH(ft) :  
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259  
MUD WEIGHT : 8.8 TOP PACKER DEPTH(kb) : 3351  
MUD VISCOSITY : 51 BOTTOM PACKER DEPTH(kb) : 3356  
MUD CHLORIDES : 2600 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) : 112 TEST TICKET NUMBER : 11549

EXTRA EQUIPMENT :

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

## SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 23 MINUTES  
2nd Opening : FAIR BLOW-BUILT TO 1 INCH FROM BOTTOM OF BUCKET

## RECOVERY

Recovered 400 feet of SLIGHTLY GAS CUT MUDDY WATER

REMARKS :

WITNESSED BY : DAN DEBOER TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

# ORIGINAL

## SUPERIOR TESTERS ENTERPRISES INC.

### SUBSURFACE PRESSURE MEASUREMENTS

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COMPANY : FOMKAT L.T.D.  
 DATE OF TEST : 11-2-1990  
 DEPTH : 3434.0

WELL NAME : ENDICOTT"B"#1  
 LOCATION : C-N/2-N/2-SE 23-21S-6W  
 SERIAL NO. : 906

COMMENTS	TIME min	DEFL . in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 3434.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.203	1590.12	2.29	1592.41
-10:30 1ST FLOW	0.0	.102	77.28	-3.26	74.02
- 10:35	5.0	.102	77.28	-3.26	74.02
- 10:40	10.0	.113	85.20	-3.20	82.00
- 10:45	15.0	.121	90.96	-3.15	87.81
- 10:50	20.0	.139	103.92	-3.05	100.87
- 10:55	25.0	.152	113.28	-2.98	110.30
- 11:00	30.0	.165	122.64	-2.90	119.74
-11:00 END FLOW	0.0	.165	122.64	-2.90	119.74
- 11:05	5.0	1.167	844.14	2.74	846.88
- 11:10	10.0	1.498	1082.48	3.73	1086.21
- 11:15	15.0	1.596	1153.04	3.57	1156.61
- 11:20	20.0	1.653	1194.08	3.47	1197.56
- 11:25	25.0	1.691	1221.45	3.41	1224.86
- 11:30	30.0	1.726	1246.65	3.35	1250.00
- 11:35	35.0	1.747	1261.77	3.32	1265.09
- 11:40	40.0	1.766	1275.45	3.28	1278.74
- 11:45	45.0	1.783	1287.69	3.26	1290.95
- 11:50	50.0	1.797	1297.77	3.23	1301.01
- 11:55	55.0	1.808	1305.69	3.21	1308.91
- 12:01	61.0	1.818	1312.89	3.20	1316.09
-12:01 1ST SHUT-IN	0.0	1.818	1312.89	3.20	1316.09
-12:01 2ND FLOW	0.0	.232	170.89	-2.53	168.36
- 12:06	5.0	.233	171.61	-2.52	169.09
- 12:11	10.0	.237	174.49	-2.50	171.99
- 12:16	15.0	.252	185.29	-2.41	182.87
- 12:21	20.0	.264	193.93	-2.35	191.58
- 12:26	25.0	.282	206.89	-2.24	204.64
- 12:31	30.0	.292	214.09	-2.19	211.90
-12:31 END FLOW	0.0	.292	214.09	-2.19	211.90
- 12:36	5.0	1.129	816.78	2.53	819.30
- 12:41	10.0	1.484	1072.40	3.75	1076.15
- 12:46	15.0	1.570	1134.32	3.61	1137.93
- 12:51	20.0	1.630	1177.52	3.51	1181.03
- 12:56	25.0	1.673	1208.49	3.44	1211.93
- 13:01	30.0	1.695	1224.33	3.40	1227.73
- 13:06	35.0	1.720	1242.33	3.36	1245.69
- 13:11	40.0	1.737	1254.57	3.33	1257.90
- 13:16	45.0	1.752	1265.37	3.31	1268.68
- 13:21	50.0	1.765	1274.73	3.29	1278.02

# ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

## SUBSURFACE PRESSURE MEASUREMENTS

---

COMPANY : TOMKAT L.T.D.  
DATE OF TEST : 11-2-1990  
DEPTH : 3434.0

WELL NAME : ENDICOTT"B"#1  
LOCATION : C-N/2-N/2-SE 23-21S-6W  
SERIAL NO. : 906

COMMENTS	TIME min	DEFL .in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:1					
- 13:26	55.0	1.776	1282.65	3.27	1285.92
- 13:32	61.0	1.787	1290.57	3.25	1293.82
-1:32 2ND SHUT-IN	0.0	1.787	1290.57	3.25	1293.82
-2ND HYDROSTATIC	0.0	2.159	1558.43	2.46	1560.89



# Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 11-4-1990 Location C.W.B. - N12 - SE 23-21-6<sup>W</sup> Elevation 1453 G.L. County Kingman

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

Charts Mailed to Box 1471 Street Legal Kansas 67530

Drilling Contractor Loise Drilling #1

Length Drill Pipe 3568 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe 510 I.D. Weight Pipe 2.75 Tool Joint Size 4 1/2" X.H.

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

Top Packer Depth 4097 Bottom Packer Depth 4102 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4102 TO 4110 ANCHOR LENGTH 8 TOTAL DEPTH 4110 Hole Size 7 7/8"

LEASE & WELL NO. Endicott "B" #1 FORMATION TESTED Wissner Sand TEST NO. 2

Mud Weight 9.31 Viscosity 45 Water Loss 10.4 Chlorides - Pits 7700 D.S.T. 89000

Maximum Temp. 133 °F Initial Hydrostatic Pressure (A) 2106 P.S.I. Final Hydrostatic Pressure (H) 2099 P.S.I.

Tool Open I.F.P. from 11:45 p.m. to 12:15 A.m. 30 min

Tool Closed I.C.I.P. from 12:15 A.m. to 1:15 A.m. 60 min

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

Tool Closed F.C.I.P. from 1:45 A.m. to 2:45 A.m. 60 min

from [B] 29 P.S.I. to [C] 239 P.S.I.  
 [D] 1454 P.S.I.  
 from [E] 297 P.S.I. to [F] 398 P.S.I.  
 [G] 1454 P.S.I.

Initial Blow Fair blow - off the bottom of a 5 gallon bucket in 9 minutes

Final Blow Fair blow - off the bottom of a 5 gallon bucket in 8 minutes

Total Feet Recovered 1050 Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

<u>50</u> Feet of <u>oil &amp; gas cut water</u>	<u>8</u> % Gas	<u>22</u> % Oil	<u>30</u> % Mud	<u>40</u> % Water
<u>60</u> Feet of <u>Slightly mud cut water with a show of oil</u>	<u>0</u> % Gas	<u>2</u> % Oil	<u>15</u> % Mud	<u>83</u> % Water
<u>60</u> Feet of <u>muddy water with a trace of oil</u>	<u>3</u> % Gas	<u>2</u> % Oil	<u>35</u> % Mud	<u>60</u> % Water
<u>800</u> Feet of <u>water with a trace of oil</u>	<u>0</u> % Gas	<u>2</u> % Oil	<u>5</u> % Mud	<u>93</u> % 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. 23937 Depth 4097 Cir. Sub \_\_\_\_\_ Sampler None

Bottom Recorder No. 13561 Clock No. 47441 Depth 4107 Insurance None

Price of Job \_\_\_\_\_

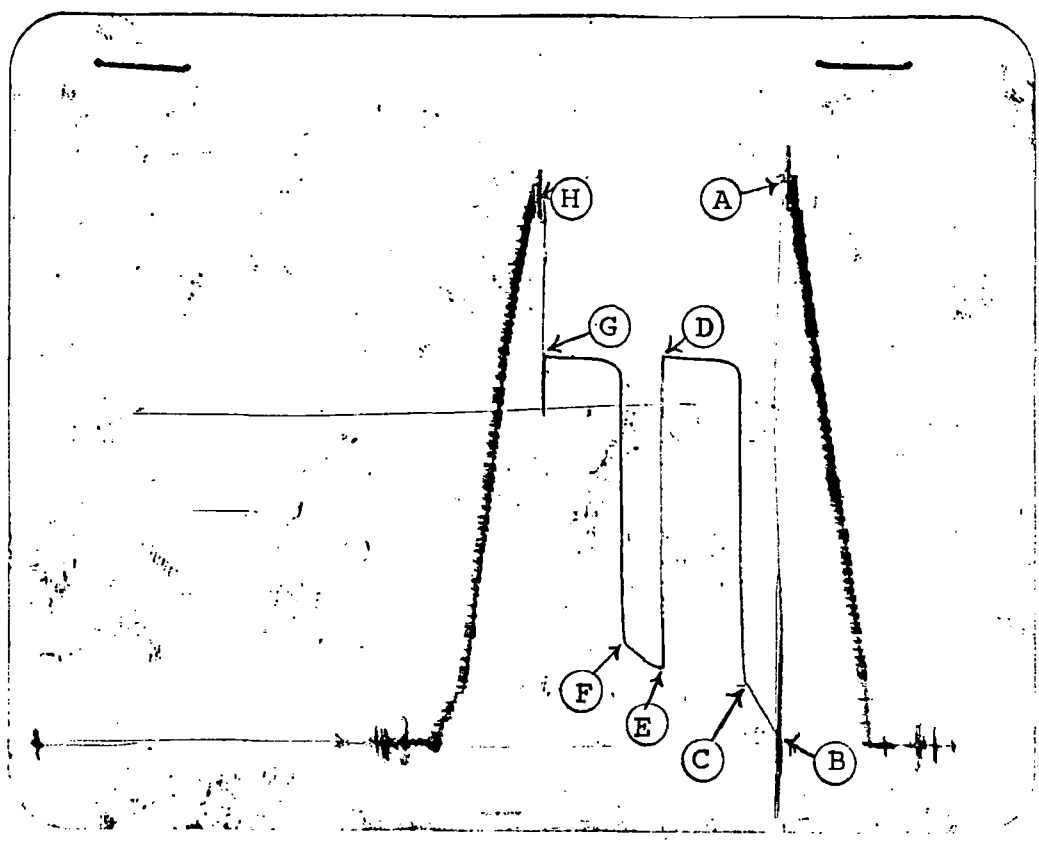
Tool Operator Gene Gushig

Approved By \_\_\_\_\_

No 11550

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.

ORIGINAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud .....	2106	2094	P.S.I.
(B) First Initial Flow Pressure .....	29	37	P.S.I.
(C) First Final Flow Pressure .....	239	232	P.S.I.
(D) Initial Closed-in Pressure .....	1454	1450	P.S.I.
(E) Second Initial Flow Pressure .....	297	286	P.S.I.
(F) Second Final Flow Pressure .....	398	380	P.S.I.
(G) Final Closed-in Pressure .....	1454	1449	P.S.I.
(H) Final Hydrostatic Mud .....	2099	2035	P.S.I.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : TOMKAT L.T.D. WELL NAME : ENDICOTT"B"#1  
ADDRESS : BOX 1471 GREAT BEND LOCATION : C-N/2-N/2-SE 23-21S-6W  
STATE & COUNTY : KANSAS, KINGMAN FIELD :  
ELEV. (GR) : 1453 (KB) : 1462 TEST DATE : 11-4-1990

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISNER SAND DRILL PIPE LENGTH(ft) : 3568  
TEST INT. KB : 4102 to 4110 DRILL PIPE O.D. (in) : 3.82  
ANCHOR LENGTH(ft) : 8 WEIGHT PIPE LENGTH(ft) : 510  
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75  
TOTAL DEPTH(ft-kg) : 4110 DRILL COLLAR LENGTH(ft) :  
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259  
MUD WEIGHT : 9.3 TOP PACKER DEPTH(kb) : 4097  
MUD VISCOSITY : 45 BOTTOM PACKER DEPTH(kb) : 4192  
MUD CHLORIDES : 7700 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) : 133 TEST TICKET NUMBER : 11550

EXTRA EQUIPMENT : -CIRC.SUB

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

SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 9 MINUTES  
2nd Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 8 MINUTES

RECOVERY

Recovered 50 feet of OIL & GAS CUT MUD 8%GAS 22%OIL 30%MUD 40%WATER  
Recovered 60 feet of SLIGHTLY MUD&OIL CUT WATER 2%OIL 15%MUD 83%WATER  
Recovered 60 feet of SLTY OIL CUT MUDDY WATER 3%GAS2%OIL35%MUD60%WATER  
Recovered 880 feet of WATER W/TRACE OF OIL 2%OIL 5%MUD 93%WATER

REMARKS :

WITNESSED BY : DAN DEBOER

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : TOMKAT L.T.D.  
DATE OF TEST : 11-4-1990  
DEPTH : 4092.0

WELL NAME : ENDICOTT"B"#1  
LOCATION : C-N/2-N/2-SE 23-21S-6W  
SERIAL NO. : 906

COMMENTS	TIME min	DEFL .in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
Depth : 4092.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.903	2094.15	-.05	2094.11
-11:45 1ST FLOW	0.0	.051	40.56	-3.55	37.01
- 11:50	5.0	.089	67.92	-3.33	64.59
- 11:55	10.0	.153	114.00	-2.97	111.03
- 12:00	15.0	.211	155.76	-2.64	153.12
- 12:05	20.0	.269	197.53	-2.32	195.21
- 12:10	25.0	.321	234.97	-2.02	232.95
-12:10 END FLOW	0.0	.321	234.97	-2.02	232.95
- 12:15	5.0	1.935	1397.14	3.00	1400.14
- 12:20	10.0	1.966	1419.46	2.95	1422.41
- 12:25	15.0	1.981	1430.26	2.93	1433.19
- 12:35	25.0	1.990	1436.74	2.91	1439.66
- 12:45	35.0	1.992	1438.18	2.91	1441.09
- 13:00	50.0	1.998	1442.50	2.90	1445.40
- 13:11	61.0	2.005	1447.54	2.89	1450.43
-1:11 1ST SHUT-IN	0.0	2.005	1447.54	2.89	1450.43
-1:11 2ND FLOW	0.0	.395	288.25	-1.61	286.65
- 1:16	5.0	.405	295.46	-1.55	293.90
- 1:21	10.0	.421	306.98	-1.46	305.52
- 1:26	15.0	.442	322.10	-1.34	320.75
- 1:31	20.0	.471	342.98	-1.18	341.80
- 1:36	25.0	.498	362.42	-1.03	361.39
- 1:40	29.0	.525	381.86	-.88	380.99
-1:40 END FLOW	0.0	.525	381.86	-.88	380.99
- 1:45	5.0	1.943	1402.90	2.99	1405.89
- 1:50	10.0	1.968	1420.90	2.95	1423.85
- 1:55	15.0	1.982	1430.98	2.92	1433.91
- 2:05	25.0	1.992	1438.18	2.91	1441.09
- 2:15	35.0	1.993	1438.90	2.91	1441.81
- 2:25	45.0	1.995	1440.34	2.90	1443.25
- 2:36	56.0	1.999	1443.22	2.90	1446.12
- 2:40	60.0	2.004	1446.82	2.89	1449.71
-2:40 2ND SHUT-IN	0.0	2.004	1446.82	2.89	1449.71
-2ND HYDROSTATIC	0.0	2.821	2035.11	.09	2035.20

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

ORIGINAL  
 Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

No 6238

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-27-90	Sec.	23	Twp.	21	Range	6	Called Out	10:00 AM	On Location	12:30 PM	Job Start	1:30 PM	Finish	2:00 PM
Lease	Endicott	Well No.	B #1	Location				Waterloo church 2 Bl. W. N. side			County	Hingman	State	Ks	

Contractor	LORBO Drilling	
Type Job	Surface	
Hole Size	12 1/4	T.D. 318 ft
Csg. 20"	4 5/8	Depth 318 ft
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	15 ft	Shoe Joint
Press Max.		Minimum
Meas Line	✓ 303 ft	Displace 19.7 bbl
Perf.		

Owner	Some	
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.		
Charge To	Tom Kat L.T.O.	
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	E. G. Higgins	
	CEMENT	
Amount Ordered	175 60/40	2+3

### EQUIPMENT

No.	Cementor	Mike
	Helper	Brad
No.	Cementor	
	Helper	
	Driver	Dunne
Bulktrk	101	
Bulktrk		Driver

Consisting of			
Common	105	5.25	551.25
Poz. Mix	70	2.25	157.50
Gel.	4	6.75	NIC
Chloride	5	21.00	105.00
Quickset			
Sales Tax			
Handling	175 RECEIVED	1.00	175.00
Mileage	44		<del>88.00</del>
NOV 7 1991			Sub Total 231.00
CONSERVATION DIVISION Wichita, Kansas			Total \$ 1219.75

DEPTH of Job		
Reference:	Pump Truck charge	380.00
44	milage charge	88.00
1	wooden Plug	42.00
	Sub Total	
	Tax	
	Total	510.00

Floating Equipment	
Total \$	1729.75
Disc -	345.95
	\$ 1383.80

Remarks: Cement did circ.  
 Allied Cementing Co. Inc. By Mike Munsel  
 Mike Munsel

Phone 913-493-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

**ALLIED CEMENTING CO., INC. N<sup>o</sup> 9158**  
 Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
11-5-90	23	27	6	5:30 A.M.	8:30 A.M.	9:30 A.M.	11:15 A.M.
Lease	Well No.	Location		County		State	
Endociti	B-1	Waterloo Church - 2 blocks West 1/2 N side		Kingman		KS	

Contractor	Lobo
Type Job	Rotary Plug
Hole Size	7 7/8" T.D. 4110'
Csg.	Depth
Tbg. Size	Depth
Drill Pipe	4 1/2" Depth 300'
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
Meas Line	Displace
Perf.	

**EQUIPMENT**

#	No.	Cementer	
Pumptrk	181		Tim
		Helper	Cary
#	No.	Cementer	
Pumptrk		Helper	
#	No.	Driver	
Bulktrk	68		JACKS
Bulktrk		Driver	

**DEPTH of Job**

Reference:	Pumptrk Charge	380.00
44	Pumptrk Mileage	88.00
	Sub Total	
	Tax	
	Total	468.00

Remarks: Mixed - 35 SKS at 300'  
 35 SKS at 450'  
 35 SKS at 360'  
 25 SKS at 60' to surface,  
 10 SKS in Rathole  
 10 SKS in mousehole Thanks

Owner Sumner  
 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.

Charge To Tom Kat 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. E. Hughes  
 X

**CEMENT**

Amount Ordered	150 SKS 60' / 40' 670 GEL
Consisting of	
Common	90 5.25 472.50
Poz. Mix	60 2.25 135.00
Gel.	9 6.75 60.75
Chloride	
Quickset	
Handling	150 1.00 150.00
Mileage	44 RECEIVED STATE CORPORATION COMMISSION 198.00
	NOV 7 1991
	Sub Total
	Total
Floating Equipment	1016.25

Total \$1484.25  
 Less Disc 296.85

\$ 1187.40

*(Signature)*