

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

API NO. 15- 047-21434-0000

ORIGINAL

County Edwards

W/2 - NW - NW Sec. 23 Twp. 24S Rge. 17 X ^E_W

Operator: License # 5056

Name: F.G.HOLL CO., L.L.C.

Address 6427 E.Kellogg

P.O.Box 780167

City/State/Zip Wichita, KS 67278-0167

Purchaser: NCRA

Operator Contact Person: Elwyn H. Nagel

Phone (316) 684-8481

Contractor: Name: Sterling Drilling Company

License: 5142

Wellsite Geologist: W. Bryce Bidleman

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, EXP., etc.)

If Workover:

Operator: AUG 28 1998

Well Name: _____

Comp. Date _____ Old Total Depth _____
WICHITA, KS

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

5-7-98 5-15-98 6-10-98
Spud Date Date Reached TD Completion Date

4620 Feet from S/N (circle one) Line of Section

4950 Feet from E/W (circle one) Line of Section

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

Lease Name FROHLING 'A' Well # 1-23

Field Name Wayne

Producing Formation Cottonwood

Elevation: Ground 2107 KB 2116

Total Depth 3300' PBTB 2814'

Amount of Surface Pipe Set and Cemented at 279 Feet

Multiple Stage Cementing RELEASED Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ FROM CONFIDENTIAL sx cmt.

Drilling Fluid Management Plan ACT 1 DPW
(Data must be collected from the Reserve Pit) 9-14-98

Chloride content 28,000 ppm Fluid volume 800 bbls

Dewatering method used Truck Hauled

Location of fluid disposal if hauled offsite: _____

Operator Name F. G. Holl Company, L.L.C.

Lease Name McBurney 1-22 License No. 5056

NE Quarter Sec. 22 Twp. 24 S Rng. 17 E/W

County Edwards Docket No. D-54542

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 W. Bryce Bidleman
Title Geologist Date 8-26-98

Subscribed and sworn to before me this 26th day of August, 19 98.

Notary Public Danny Dodd

Date Commission Expires 4/2/2001

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)

Form ACO-1 (7-91)

DANNY DODD
Notary Public - State of Kansas
My Appt. Expires 4/2/2001

Operator Name F. G. Holl Company, L.L.C.

Lease Name FROHLING 'A'

Well # 1-23'

Sec. 23 Twp. 24S Rge. 17

East

County Edwards

West

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 Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:

Western Atlas Wireline

ZDL/CN/ML/SL/DIFL/GR/Cal.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
Chase	2185	(-69)
Herington	2190	(-74)
Winfield	2250	(-134)
Towanda	2314	(-198)
Fort Riley	2361	(-245)
Florence	2398	(-282)
Cottonwood	2670	(-554)
Red Eagle	2802	(-686)
Wabaunsee	2979	(-863)
Howard	3241	(-1125)

CASING RECORD

New 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"	23	279'	40/60 Poz	225	3%cc
Production	7 7/8"	4 1/2"	10.5	2864'	50/50 Poz	350	7% NaCl 4% Gils.

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	1057'	Standard	100	2% gel, 2% cc, 10% gilsonite
<input checked="" type="checkbox"/> Plug Off Zone	(Squeezed off Lost Circulation Zone around 900'.)			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2684 - 2693	None	2684-2693

TUBING RECORD Size 2 3/8" Set At 2680' Packer At None Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 7-14-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	225	1		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled 2684-2693

Other (Specify)



P.O. BOX 951046
 DALLAS, TX 75395-1046
 Corporate FIN 73-0271280

HALLIBURTON ENERGY SERVICES
 A Division of Halliburton Company

INVOICE NO.	DATE
394802	05/08/1998

ORIGINAL

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
WELL "A" 1-23	EDWARDS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
PRATT	STERLING BRILLING	SHOWN BELOW	05/08/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	V L THOMPSON	CONFIDENTIAL		COMPANY TRUCK	41163

DIRECT CORRESPONDENCE TO:

F G HOLL
 P O BOX 158
 BELPRE, KS 67519

KCC

AUG 26 1998

P O BOX 963
 PRATT KS 67124
 316-672-5593

SQUEEZE JOB
CONFIDENTIAL

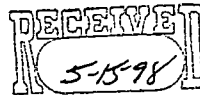
REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - <u>PLUG-LOST CIRCULATION</u>					
000-117	MILEAGE CEMENTING ROUND TRIP	82	MI		
000-119	MILEAGE FOR CREW	82	MI		
009-019	PLUGGING BK SPOT CEMENT OR MUD	900	FT		
009-027	PLUGGING BK SPOT CEMENT OR MUD	4	HR		
504-308	CEMENT - STANDARD	100	SK		
507-277	HALLIBURTON-GEL BENTONITE	2	SK		
507-210	FLOCELE	25	LB		
508-291	GILSONITE BULK	1000	LB		
508-127	CAL SEAL 60	10	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	2	SK		
500-207	BULK SERVICE CHARGE	144	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	237.35	TMI		

ENTD MAY 18 1998

RELEASED

MAR 28 2001

JOB PURPOSE SUBTOTAL



FROM CONFIDENTIAL

INVOICE SUBTOTAL

DISCOUNT-(BID)

INVOICE BID AMOUNT

*-KANSAS STATE SALES TAX

*-PRATT COUNTY SALES TAX



RECEIVED
 KANSAS CORPORATION COMMISSION

AUG 28 1998

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====

CONSERVATION DIVISION
 WICHITA, KS

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are pay time of performance of services or delivery of equipment, products or materials. If customer open account, invoices are payable on the twentieth day after date of invoice. Customer agr of any unpaid balance from the date payable until paid at the highest lawful contract rate appl exceed 18% per annum. In the event Halliburton employs an attorney for collection of any agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

ORIGINAL HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
394671	05/07/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
FROHLING "A" 1-23		EDWARDS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	STERLING DRILLING	SHOWN BELOW		05/07/1998	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
392900	V L THOMPSON			COMPANY TRUCK	41112

CONFIDENTIAL

F G HOLL
P O BOX 158
BELPRE, KS 67519

KCC

AUG 26 1998

CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

P O BOX 963
PRATT KS 67124
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	82	MI		
		1	UNT		
000-119	MILEAGE FOR CREW	82	MI		
		1	UNT		
001-016	CEMENTING CASING	282	FT	1	
		1	UNT		
030-503	WOODEN TOP PLUG	8	5/8 IN		
		1	EA		
504-136	CEMENT - 40/60 POZMIX STANDARD	225	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK		
500-207	BULK SERVICE CHARGE	237	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	389.79	TMI		

RELEASED

MAR 28 2001

FROM COLUMBIA

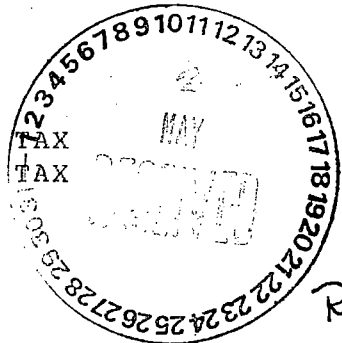
JOB PURPOSE SUBTOTAL
ENTD MAY 18 1998

RECEIVED
5-15-98

INVOICE SUBTOTAL

DISCOUNT- (BID)
INVOICE BID AMOUNT

*- KANSAS STATE SALES TAX
*- PRATT COUNTY SALES TAX



RECEIVED
KANSAS CORPORATION COMMISSION

AUG 28 1998

CONSERVATION DIVISION
WICHITA, KS

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in time of performance of services or delivery of equipment, products or materials. If customer has an open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but not to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

ORIGINAL HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
394737	05/15/1998

WELL LEASE NO./PROJECT FROHLING 4-23 "A"		WELL/PROJECT LOCATION EDWARDS		STATE KS	OWNER SAME
SERVICE LOCATION PRATT		CONTRACTOR STERLING DRILLING	JOB PURPOSE SHOWN BELOW		TICKET DATE 05/15/1998
ACCT. NO. 392900	CUSTOMER AGENT ROB LONG	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 41469

CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

F G HOLL
P O BOX 158
BELPRE, KS 67519

KGG

AUG 26 1998

P O BOX 963
PRATT KS 67124
316-672-5593

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	82	MI		
		1	UNT		
001-016	CEMENTING CASING	2867	FT	1	
80	FORMATION PACKER SHOE	3	EA		
855.137					
40	CENTRALIZER 4-1/2 X 7-7/8	6	EA		
806.60004					
320	BASKET-CMT-4 1/2 CSG X 18"OD-	2	EA		
806.71415					
509-968	SALT	400	LB		
018-317	SUPER FLUSH	12	SK		
82	FILL-UP UNIT	1	EA		
855.02549					
60	WIPER-ROTO WALL CLEANER	10	EA		
806.71201					
60	SCRATCHER-ROTO WALL-WIRE	10	EA		
806.71001					
019-240	CASING SWIVEL W/WALL CLEANERS	1	JOB		
320	CEMENT BASKET-4-1/2 X 7-7/8	1	EA		
806.70020					
504-130	CEMENT - 50/50 POZMIX STANDARD	275	SK		
504-316	CEMENT - HALL. LIGHT STANDARD	75	SK		
507-153	CFR-3	167	LB		
509-968	SALT	2400	LB		
507-210	FLOCELE	35	LB		
508-291	GILSONITE BULK	1375	LB		
500-207	BULK SERVICE CHARGE	416	CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN	681.95	TMI		

ENTD JUN 15 1998

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AUG 28 1998

CONSERVATION DIVISION
WICHITA, KS

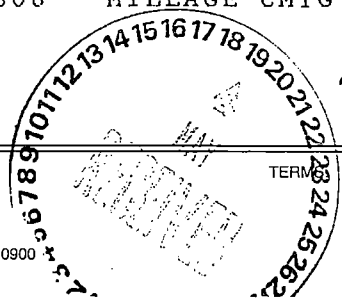
Rob Long

RECEIVED
5-26-98

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in time of performance of services or delivery of equipment, products or materials. If customer has a open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, I exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

ORDER NO. 10900



Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-13-1998 Location 1/2 W - 1/4 23-24-17^W Elevation 2116 K.F. County Edwards

Company F.G. Holl Company L.L.C. Number of Copies 5

Charts Mailed to 6427 East Keweenaw P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #7

Length Drill Pipe 2149 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" K.H.

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

Length Drill Collars 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" I.H.

Top Packer Depth 2619 Bottom Packer Depth 2686 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2654 TO 2692 ANCHOR LENGTH 38 TOTAL DEPTH 2692 Hole Size 7 7/8"

LEASE & WELL NO. Frohling "A" #1-23 FORMATION TESTED Cottonwood TEST NO. 7

Mud Weight 8.5 Viscosity 47 Water Loss 8.9 Chlorides - Pits 200 D.S.T. _____

Maximum Temp. 89 °F. Initial Hydrostatic Pressure (A) 1261 P.S.I. Final Hydrostatic Pressure (H) 1231 P.S.I.

Tool Open I.F.P. from 9:00 A.M. to 9:30 A.M. 30 min

from [B] 189 P.S.I. to [C] 259 P.S.I.

Tool Closed I.C.I.P. from 9:30 A.M. to 10:30 A.M. 60 min

[D] 900 P.S.I.

Tool Open F.F.P. from 10:30 A.M. to 11:30 A.M. 60 min

from [E] 213 P.S.I. to [F] 296 P.S.I.

Tool Closed F.C.I.P. from 11:30 A.M. to 1:00 A.M. 90 min

[G] 896 P.S.I.

Initial Blow Strong blow - Gas to surface in 2 minutes

Final Blow Strong blow - see Gas flow Report

Total Feet Recovered 200 Gravity of Oil _____ Corrected _____

200 Feet of Dr Gassy 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 _____

Remarks FROM CONFIDENTIAL

Extra Equipment - Jars None Safety Joint Yes Extra Packer None Straddle None Hook Wall None

Top Recorder No. 78275 Clock No. 5584 Depth 2685 Cir. Sub. None Sampler None

Bottom Recorder No. 13189 Clock No. 47441 Depth 2689 Insurance None

Price of Job _____

Tool Operator Gene Burt

Approved By _____

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.

NO 11623

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. FROHLING "A" #1-23 Test #: 7 Date: 5-13-1998

KCC
AUG 26 1998
CONFIDENTIAL

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AUG 28 1998

CONSERVATION DIVISION
WICHITA, KS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

FROHLING "A" #1-23 COTTOMWOOD

ORIGINAL

STATE..... KANSAS
 COUNTY..... EDWARDS
 FIELD..... 0:00

Test Date May 13, 1998
 Sec Town Range W/2-N/W-N/W 23-24S-17W
 Report Number 11623

CONFIDENTIAL

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOO OPENED	9:10			6		1 1/2	908.000
AT 9:00	9:20			6.5		1 1/2	995.000
WITH GAS TO SURFACE IN 2 MINUTES AT 9:02	9:30			7		1 1/2	1036.000

KCC
 AUG 26 1998
 CONFIDENTIAL

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	10:40	10		6.5		1 1/2	995.000
AT 10:30	10:50	20		7.5		1 1/2	1080.000
	11:00	30		7.5		1 1/2	1080.000
	11:10	40		7.5		1 1/2	1080.000
	11:20	50		7.5		1 1/2	1080.000
	11:30	60		7.5		1 1/2	1080.000

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 AUG 28 1998
 CONSERVATION DIVISION
 WICHITA, KS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-12-1978 Location W-14-N-10-23-24-11 Elevation 2116 K.B. 21076.1 County Edwards

Company F.G. HOLL COMPANY L.L.C. Number of Copies 2

Charts Mailed to 6427 East Kellogg P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Stealing Drilling R.G #4

Length Drill Pipe 1871 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 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 2393 Bottom Packer Depth 2398 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2396 TO 2430 ANCHOR LENGTH 3 TOTAL DEPTH 2430 Hole Size 7 1/8"

LEASE & WELL NO. Frohling "A" #1-23 FORMATION TESTED FLORENCE TEST NO. 6

Mud Weight 80.4 Viscosity 67 Water Loss 13.6 Chlorides - Pits 25000 D.S.T. 62000

Maximum Temp. 89 °F. Initial Hydrostatic Pressure (A) 1223 P.S.I. Final Hydrostatic Pressure (H) 1150 P.S.I.

Tool Open I.F.P. from 10:15 A.M. to 10:45 A.M. 30 min

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

Tool Open F.F.P. from 11:45 A.M. to 12:45 A.M. 60 min

Tool Closed F.C.I.P. from 12:45 A.M. to 2:15 A.M. 90 min

Initial Blow Strong blow - gas to surface in 3 minutes

Final Blow Strong blow - see Gas flow Report

Total Feet Recovered 250 Gravity of Oil _____ Corrected _____

50 Feet of Gassy mud % Gas KCC % Oil _____ % Mud _____ % Water _____

200 Feet of Muddy Gassy water - Chlorides 62000 % Gas _____ % Oil _____ % Mud _____ % Water _____

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

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

Feet of 1st OPEN 2nd OPENING % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of 10- 42.05 10- 96.3 % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of 20- 55.3 20- 87.5 % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of 30- 82.5 30- 87.5 % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ 40- 87.5 % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____ 50- 87.5 CONSERVATION DIVISION WICHITA, KS

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

Top Recorder No. 79225 Clock No. ELECTRONIC Depth 2423 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13181 Clock No. 47441 Depth 2467 Insurance NONE

Price of Job _____

Tool Operator Steve Rudy

Approved By _____

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.

FROM CONFIDENTIAL

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. FROHLING "A" #1-23 Test #: 6 Date: 5-12-1998

Superior Testers Enterprises, Inc.

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

ORIGINAL

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. FROHLING "A" #1-23 Test #: 5 Date: 5-11-1998

REC 73 TWD 245 DCE 17W

Date 5-11-1998 Location W2-N20-W4 23-24-17 Elevation 21076L County EDWARDS

Company F.G. Holl Company L.L.C. Number of Copies 5

Charts Mailed to 6427 East Kellom P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Steering Drilling R. 644

Length Drill Pipe 1854 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 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 2354 Bottom Packer Depth 2359 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2359 TO 2385 ANCHOR LENGTH 26 TOTAL DEPTH 2385 Hole Size 7 7/8"

LEASE & WELL NO. Frohling "A" 1-23 FORMATION TESTED Fort Riley TEST NO. 5

Mud Weight 9.1 Viscosity 41 Water Loss 17.4 Chlorides - Pits 30000 D.S.T. 84000

Maximum Temp. 89 °F Initial Hydrostatic Pressure (A) 1138 P.S.I. Final Hydrostatic Pressure (H) 1100 P.S.I.

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

Tool Closed I.C.I.P. from 10:00 Pm to 11:00 Pm 60 min

Tool Open F.F.P. from 11:00 Pm to 12:00 Pm 60 min

Tool Closed F.C.I.P. from 12:00 Pm to 1:30 Pm 90 min

Initial Blow STRONG blow with Gas to surface in 1 min.

Final Blow STRONG blow - SEE GAS FLOW REPORT

Total Feet Recovered 150

from [B] 263 P.S.I. to [C] 532 P.S.I.
[D] 701 P.S.I.
from [E] 310 P.S.I. to [F] 320 P.S.I.
[G] 699 P.S.I.

KANSAS CORPORATION COMMISSION Gravity of Oil _____ Corrected

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

120 Feet of VERY GASSY MUD % Gas _____ % Oil _____ % Mud _____ % Water

30 Feet of VERY GASSY MUDDY WATER % Gas _____ % Oil _____ % Mud _____ % Water

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

Feet of GAS READINGS 1st OPEN 2nd OPEN % Gas _____ % Oil _____ % Mud _____ % Water

Feet of 10-5-1,198. 10-1,490. % Gas _____ % Oil _____ % Mud _____ % Water

Feet of 15-15-1,274 20-1,490. % Gas _____ % Oil _____ % Mud _____ % Water

Feet of 3 25-1,420 30-1,455. % Gas _____ % Oil _____ % Mud _____ % Water

Feet of 30-1,420 40-1,420. % Gas _____ % Oil _____ % Mud _____ % Water

Remarks 50-1,420

60-1,420

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

Top Recorder No. 7825 Clock No. ELECTRONIC Depth 2378 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13189 Clock No. 41441 Depth 2382 Insurance NONE

Price of Job _____

Tool Operator Steve Rudy

Approved By _____

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.

RELEASED

APR 20 2001

NO 11621

FROM CONFIDENTIAL

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-11-1998 Location W/2 - N/2 - W/4 23-24-17 Elevation 21076 L County Edwards 2116 K.B.

Company F.G. HOLL COMPANY L.L.C. Number of Copies 5

Charts Mailed to 6427 East Kellogg P.O. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 1812 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 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 2312 Bottom Packer Depth 2312 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2317 TO 2355 ANCHOR LENGTH 38 TOTAL DEPTH 2355 Hole Size 7 1/8"

LEASE & WELL NO. Froehling #4-23 FORMATION TESTED TOWANDA TEST NO. 4

Mud Weight 9.1 Viscosity 41 Water Loss 17.6 Chlorides - Pits 30000 D.S.T.

Maximum Temp. 89 °F. Initial Hydrostatic Pressure (A) 1189 P.S.I. Final Hydrostatic Pressure (H) 1118 P.S.I.

Tool Open I.F.P. from 9:45 A.M. to 10:15 A.M. 30 min

from [B] 50 P.S.I. to [C] 58 P.S.I.

Tool Closed I.C.I.P. from 10:15 A.M. to 11:15 A.M. 60 min

[D] 611 P.S.I.

Tool Open F.F.P. from 11:15 A.M. to 12:15 A.M. 60 min

from [E] 58 P.S.I. to [F] 70 P.S.I.

Tool Closed F.C.I.P. from 12:15 A.M. to 1:45 A.M. 90 min

[G] 687 P.S.I.

Initial Blow FAIR blow built to the bottom of a 5 Gallon bucket in 13 minutes

Final Blow STRONG blow - built to the bottom of a 5 Gallon bucket immediately

Total Feet Recovered 65 Gas to surface in 35 minutes Gravity of Oil _____ Corrected

65 Feet of Drilling Gassy 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 YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 79225 Clock No. ELECTRONIC Depth 2348 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13189 Clock No. 47441 Depth 2350 Insurance NONE

Price of Job _____

Tool Operator Mano Buding

Approved By _____

NO 11620

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CONFIDENTIAL

AUG 28 1998

CONSERVATION DIVISION
WICHITA, KS

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FROM CONFIDENTIAL

Company: F.G. HOLL COMPANY L.L.C. Lease & Well No. FROHLING #4-23 Test #: 4 Date: 5-11-1998

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

FROHLING #4-23 TOWANDA

ORIGINAL

STATE..... KANSAS

Test Date May 11, 1998

COUNTY..... EDWARDS

Sec Town Range W/2-N/4-N/W 23-24S-17W

FIELD..... 0:00

Report Number 11620

Initial Flow

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Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
<div style="font-size: 1.5em; font-weight: bold;">KCC</div> <div style="font-size: 1.2em; font-weight: bold;">AUG 26 1998</div> <div style="font-size: 1.5em; font-weight: bold; opacity: 0.5;">CONFIDENTIAL</div>							

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
GAS TO	11:55	40	4			1/4	3.370
SURFACE IN	12:05	50	4			1/4	3.370
35 MINUTES	12:15	60	4			1/4	3.370
INTO THE 2ND OPENING							

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AUG 28 1998
CONSERVATION DIVISION
WICHITA, KS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-10-1998 Location W/2-N/4-W/4 23-24^s-17^w Elevation 2116 K.B. 21076L County EDWARDS

Company F.G. HOLL COMPANY L.L.C. Number of Copies 5

Charts Mailed to 6427 EAST KELLOGG P.O. Box 780167 WICHITA KANSAS 67229-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 1747 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/2"

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

Length Drill Collars 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 2247 Bottom Packer Depth 2252 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2252 TO 2296 ANCHOR LENGTH 44 TOTAL DEPTH 2296 Hole Size 7 7/8"

LEASE & WELL NO. Frohling #4-23 FORMATION TESTED Winfield TEST NO. 3

Mud Weight 8.8 Viscosity 39 Water Loss 14.4 Chlorides - Pits 13000 D.S.T. 1

Maximum Temp. 88 °F Initial Hydrostatic Pressure (A) 1119 P.S.I. Final Hydrostatic Pressure (H) 1089 P.S.I.

Tool Open I.F.P. from 7:30 P.m to 8:00 P.m 30 min

from [B] 47 P.S.I. to [C] 55 P.S.I.

Tool Closed I.C.I.P. from 8:00 P.m to 9:00 P.m 60 min

[D] 648 P.S.I.

Tool Open F.F.P. from 9:00 P.m to 10:30 P.m 80 min

from [E] 51 P.S.I. to [F] 67 P.S.I.

Tool Closed F.C.I.P. from 10:30 P.m to 12:00 P.m 90 min

[G] 668 P.S.I.

Initial Blow Fair blow - built to the bottom of a 5 Gallon bucket in 26 minutes

Final Blow Strong blow - built to the bottom of a 5 Gallon bucket in 45 seconds

Total Feet Recovered 65 Gravity of Oil _____ Corrected _____

65 Feet of Drill. DEI MUD Gassy % 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 YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 2289 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13581 Clock No. 47441 Depth 2293 Insurance NONE

Price of Job _____

Tool Operator Steve Budig

Approved By _____

NO 11619

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.

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. FROHLING #4-23 Test #: 3 Date: 5-10-1998

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CONSERVATION DIVISION
WICHITA, KS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE
FROHLING #4-23 WINFIELD

(316) 792-6902
ORIGINAL

STATE..... KANSAS	Test Date May 10, 1998
COUNTY..... EDWARDS	Sec Town Range W/2-N/W-N/W 23-24S-17W
FIELD..... 0:00	Report Number 11619

CONFIDENTIAL

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
<p style="font-size: 1.5em; opacity: 0.5;">KCC AUG 26 1998 CONFIDENTIAL</p>							

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
GAS TO	10:00	60	8			1/8	1.500
SURFACE IN	10:10	70	15			1/8	2.050
55 MINUTES	10:20	80	16			1/8	2.110
INTO THE	10:30	90	18			1/8	2.240
SECOND OPENING							

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AUG 28 1998
CONSERVATION DIVISION
WICHITA, KS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-10-1998 Location 1/2 1/2 - 1/2 W 23-24-17^W Elevation 21016L County EDWARDS 2116 K.B.

Company F.C. HOLL COMPANY L.L.C. Number of Copies 5

Charts Mailed to 6427 EAST KENOBG P.O. Box 780167 WICHITA KANSAS 67273-0167

Drilling Contractor Sterling Drilling R. 6 #4

Length Drill Pipe 1688 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 484 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 2188 Bottom Packer Depth 2193 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2193 TO 2240 ANCHOR LENGTH 47 TOTAL DEPTH 2240 Hole Size 7 7/8"

LEASE & WELL NO. Frohling # 4-23 FORMATION TESTED HERRINGTON-KEOKUK TEST NO. 2

Mud Weight 8.4 Viscosity 55 Water Loss 8.8 Chlorides - Pits 5000 D.S.T. _____

Maximum Temp. 87 °F Initial Hydrostatic Pressure (A) 1103 P.S.I. Final Hydrostatic Pressure (H) 1033 P.S.I.

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

Tool Closed I.C.I.P. from 7:00 A.M. to 8:00 A.M. 60 min

Tool Open F.F.P. from 8:00 A.M. to 9:00 A.M. 60 min

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

from [B] <u>54</u> P.S.I. to [C] <u>60</u> P.S.I.
[D] <u>635</u> P.S.I.
from [E] <u>56</u> P.S.I. to [F] <u>64</u> P.S.I.
[G] <u>650</u> P.S.I.

Initial Blow FAIR blow - built to the bottom of a 5 Gallon bucket in 6 minutes

Final Blow STRONG blow - built to the bottom of a 5 Gallon bucket IMMEDIATELY - Gas to

Total Feet Recovered 65 SURFACE IN 10 MIN. Gravity of Oil _____ Corrected _____

65 Feet of GASSY 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 FROM CONFIDENTIAL

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

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 2233 Cir. Sub. NONE Sampler NONE

Bottom Recorder No. 13581 Clock No. 47441 Depth 2237 Insurance NONE

Price of Job _____

Tool Operator Gene Budry

Approved By _____
No 11618

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.

Company: F.C.HOLL COMPANY L.L.C. Lease & Well No. FROHLING #4-23 Test #: 2 Date: 5-10-1998

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WICHITA, KS

MAR 28 2001

SUPERIOR TESTERS ENTERPRISES INC

ORIGINAL

(316) 792-6902

HEAT BEND, KANSAS

GAS FLOW RATE

FROHLING #4-23 HERRINGTON-KRIDER

STATE.....	KANSAS	Test Date	April 10, 1998
COUNTY.....	EDWARDS	Sec Town Range	W/2-N/W-N/W 23-24S-17W
FIELD.....	0:00	Report Number	11618

Initial Flow

CONFIDENTIAL

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p style="font-size: 1.5em; font-weight: bold;">KCC</p> <p style="font-size: 1.2em;">AUG 26 1998</p> <p style="font-size: 1.5em; font-weight: bold;">CONFIDENTIAL</p> </div> <div style="text-align: center;"> <p style="font-size: 1.2em;">RELEASED</p> <p style="font-size: 1.2em;">MAR 28 2001</p> <p style="font-size: 1.2em;">FROM CONFIDENTIAL</p> </div> </div>							

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	8:15	15	3			3/8	5.180
AT 8:00	8:25	25	4			3/8	7.140
WITH GAS TO	8:35	35	5			3/8	7.980
SURFACE IN	8:45	45	6			3/8	8.740
10 MINUTES	8:55	55	7			3/8	9.450
AT 8:10	9:00	60	8			3/8	10.100
<div style="display: flex; justify-content: center; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p style="font-size: 1.2em;">RECEIVED</p> <p style="font-size: 0.8em;">KANSAS CORPORATION COMMISSION</p> <p style="font-size: 1.2em;">AUG 28 1998</p> <p style="font-size: 0.8em;">CONSERVATION DIVISION WICHITA, KS</p> </div> </div>							

Superior Testers Enterprises, Inc.

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

(316) 792-6902

ORIGINAL

Date 5-10-1998 Location 42-NW-4W 23-24-17^W Elevation 2116 KB County EDWARDS

Company F.G. HOLL COMPANY LLC Number of Copies 5

Charts Mailed to 6427 EAST KELLOGG P.O. Box 780167 WICHITA KANSAS 67278-0167

Drilling Contractor Sterling Drilling Rig #4

Length Drill Pipe 1688 I.D. Drill Pipe 4 1/2" X.H. Tool Joint Size 3.80

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

Length Drill Collars 484 I.D. Drill Collars 4 1/2" X.H. Tool Joint Size 2.25

Top Packer Depth 2188 Bottom Packer Depth 2193 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2193 TO 2240 ANCHOR LENGTH 47 TOTAL DEPTH 2240 Hole Size 7 7/8"

LEASE & WELL NO. FROHLING #4-23 FORMATION TESTED Heeringston-Kridger TEST NO. 1

Mud Weight 8.61 Viscosity 53 Water Loss 8.81 Chlorides - Pits 5000 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 _____ m to KCC 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

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.

Initial Blow _____

Final Blow _____

Total Feet Recovered _____ Gravity of Oil _____ Corrected

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

Feet of MISS RUN HIT BRIDGE APPROX 625 % Gas _____ % Oil _____ % Mud _____ % Water

Feet of FEST DEEP SPUNDED NO HELP OPENED % Gas _____ % Oil _____ % Mud _____ % Water

Feet of TOOL 4.5 TIME NO HELP COME BACK % Gas _____ % Oil _____ % Mud _____ % Water

Feet of out of the hole % Gas _____ % Oil _____ % Mud _____ % Water

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

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

Feet of MAR 28 2001 % Gas _____ % Oil _____ % Mud _____ % Water

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

Remarks _____

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

Top Recorder No. 70225 Clock No. ELECTRONIC Depth 2228 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47441 Depth 2237 Insurance NONE

Price of Job _____

Tool Operator Gene Busby

Approved By _____

No 11617

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Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. FROHLING #4-23 Test #: 1 Date: 5-10-1998
SEC 23 TWP 24S RGE 17W

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KANSAS CORPORATION COMMISSION

AUG 28 1998

CONSERVATION DIVISION
WICHITA, KS