

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

AUG 24 2001

8-24-01
KCC MAIL ROOM

ORIGINAL

Operator: License # 5056
Name: F.G. Holl Company, L.L.C
Address: 6427 E. Kellogg, P.O. BOX 780167
City/State/Zip: Wichita, KS. 67278-0167
Purchaser: NCRA
Operator Contact Person: Franklin R. Greenbaum
Phone: (316) 684-8481
Contractor: Name: Sterling Drilling Company
License: 5142
Wellsite Geologist: Bill Ree

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: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>5/4/2001</u>	<u>5/15/2001</u>	<u>7/24/2001</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

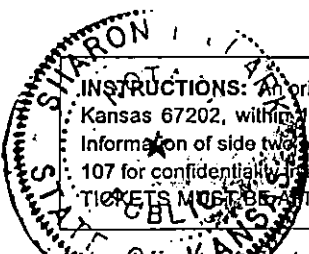
API No. 15 - 007-22650-0000
County: Barber 100' West of
C SE SW SW Sec. 10 Twp. 30 S. R. 13 East West
330 feet from (S) N (circle one) Line of Section
890 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: LAWRENZ Well #: 1-10

Field Name: Sawyer, South Extension
Producing Formation: Viola Chert
Elevation: Ground: 1867' Kelly Bushing: 1876'
Total Depth: 4830' Plug Back Total Depth: 4710'
Amount of Surface Pipe Set and Cemented at _____ 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 ALT 1 8/30/01 AB
(Data must be collected from the Reserve Pit)
Chloride content 39,000 ppm Fluid volume 1000 bbls
Dewatering method used Hauled Free Fluids to disposal well

Location of fluid disposal if hauled offsite:
Operator Name: F.G. Holl Company, L.L.C.
Lease Name: KENNEDY 2-30 License No.: 5056
Quarter SW Sec. 30 Twp. 29 S. R. 12 East West
County: Pratt Docket No.: D-22,132



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 of 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, 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.
Franklin R. Greenbaum

Signature: Franklin R. Greenbaum
Title: Exploration Manager Date: 8/21/2001

Subscribed and sworn to before me this 21st day of August, 2001

Notary Public: Sharon J. Clark
Date Commission Expires: 3-16-2003

KCC Office Use ONLY

Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

KCC

X

Operator Name: F.G. Holl Company, L.L.C Lease Name: LAWRENZ Well #: 1-10
 Sec. 10 Twp. 30 S. R. 13 East West County: Barber

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum SEE Attachment
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CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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	9 7/8"	8 5/8"	24#	997' KB	50/50 Poz A-Con	50sx 160sx	3%cc 3%cc
Conductor	14 3/4"	10 3/4"	32.75#	139' KB	50/50 Poz	175sx	3%cc, 1/4#celfo/sx
Production		4 1/2"	10.5#	4826' KB	Lite 50/50 Poz	125sx	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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 BSPF	4559, 62, 64, 66, 69, 72, 78, 82, 84 Viola Chert	Treat with 1500 gal. 15% Acid and 15 perf balls.	
3 BSPF	4558 - 4586 Viola	Frac with 383,000# total proppant and 1,390.1 bbls total slurry.	

TUBING RECORD	Size 2 3/8"	Set At 4687'	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. 7/25/2001	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. 75	Gas Mcf Trace	Water Bbls. 20	Gas-Oil Ratio	Gravity 30.8
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Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease (If vented, Sumit ACO-18.)
 Open Hole Perf. Dually Comp. Commingled 4558 - 4586 Viola
 Other (Specify) _____

ORIGINAL

Sample Tops	Top	Datum	E-Log Tops	Datum
Anhydrite	794	1082		
Herrington	2088	-212		
Towanda	2217	-341		
Ft. Riley	2263	-387		
Council Grove	2424	-548		
Red Eagle	2746	-870		
Onaga Shale	2850	-974		
Indian Cave Ss.	2875	-999		
Stotler	3045	-1169		
Topeka	3358	-1482		
Queen Hill	3550	-1674		
Heebner	3744	-1868		
Douglas	3778	-1902		
Douglas Ss.	3801	-1925		
Brown Lime	3932	-2056		
LKC	3947	-2071		
BKC	4347	-2471		
Marmaton	4356	-2480		
Cherokee Shale	4398	-2522		
Miss Chert	ABS	ABS		
Kinderhook Cht.	4434	-2558		
Base Chert	4462	-2586		
Viola	4539	-2663		
Viola Chert	4557	-2681		
Simpson	4600	-2724		
Simpson Sand Stone	4616	-2740		
Arbuckle	4698	-2822		
RTD	4830	-2954		
LTD	4824	-2948		

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 AUG 24 2001
 KCC WICHITA



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AUG 24 2001

ORIGINAL

COPY

SALES OFFICE:
105 S. Broadway
Suite #420
Wichita KS 67202
(316) 262-3699
(316) 262-5799 FAX

SALES & SERVICE OFFICE:
10244 NE Hiway 61
P.O. Box 8613
Pratt, KS 67124-8613
(316) 672-1201
(316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

Invoice

Bill to:		3678275	Invoice	Invoice Date	Order	Order Date
F G HOLL P O BOX 158 BELPRE, KS 67519			105054	5/18/01	3475	5/16/01
MAY 2001 RECEIVED		Rob Long	Service Description			
			Lease		Well	
			Lawrenz		I-10	
A/E	CustomerRep	Treater	Well Type	Purchase Order	Terms	
	Rob Long	D. Scott	New Well		Net 30	

ID.	Description	UOM	Quantity	Unit Price	Price
D203	50/50 POZ	SK	125		
D205	A-SERV' LITE	SK	125		
C196	FLA-322	LB	54		
C322	GILSONITE	LB	1819		
C321	CEMENT GEL	LB	214		
C311	CAL SET	LBS	621		
C310	CALCIUM CHLORIDE	LBS	214		
C223	SALT (Fine)	LBS	400		
C303	"B" FLUSH	GAL	500		
F100	CENTRALIZER, 4 1/2"	EA	10		
F110	BASKET, 4 1/2"	EA	1		
F130	TOP RUBBER CEMENT PLUG, 4 1/2"	EA	1		
F200	FLAPPER TYPE INSERT FLOAT VALVES, 4 1/2"	EA	1		
F252	ROTATING SCRATCHERS	EA	44		
F160	GUIDE SHOE-REGULAR, 4 1/2"	EA	1		
E107	CEMENT SERVICE CHARGE	SK	250		
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25		
E104	PROPPANT / BULK DELIV SERVICES/TON MILE. \$200 MIN	TM	268		
R210	CASING CEMENT PUMPER, +501-5000'	EA	1		
R701	CEMENT HEAD RENTAL	EA	1		
R702	CASING SWIVEL RENTAL	EA	1		

Discount

PLEASE REMIT TO Acid Services, LLC, Dept No 1131.

Accounts become past due the last day of the month following billing. Interest rate 1.5% per

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TREATMENT REPORT

03251

AUG 24 2001

KCC, WICHITA



Customer ID FG Hall	Date 5-16-01
Customer FG Hall	Well # 1-10
Lease Lawrence	County Becher
Field Order # 03475	Station Pratt KS
Casing 4 1/2	Depth 4829
State KS	State KS

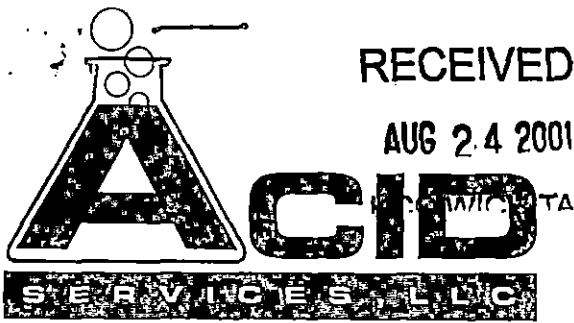
ORIGINAL

Type Job: Long String new well
Formation: _____
Legal Description: 10-305-13W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid 125SK A-Sen lit		RATE	PRESS	ISIP
Depth 4799	Depth PBTP	From	To	Pre Pad 1.81 FT ³ 12.8 PPG	Max		2000	5 Min.
Volume 76.3	Volume	From	To	Pad 50/50 P02	Min			10 Min.
Max Press 2000	Max Press	From	To	Frac 1.51 FT ³ 13.8 PPG	Avg			15 Min.
Well Connection	Annulus Vol.	From	To	40.2 + 33.6 = 73.8 SL	HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 20 Bbls 5.1 S.F. 12	Gas Volume			Total Load

Customer Representative Bob Long	Station Manager Dave Autry	Treater P. Scott			
Service Units	106	35	57	38	72

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					on job with Trucks Start Safety MTG
					Bent 3-4-6-7-8-9-10-11-12-13
					Basket 5th Jt
					Scratcher's Top 5th thru All 12th Jr
					Csg on Bottom Drop Ball & Circ ^{CO} /Rig
0220	300		20	5	5t Salt flush
0224	300		5	5	H2O spacer
0225	300		12	5	Super flush
0233	400		5	5	H2O spacer
0242	400		32	5	Mix head cont 2 12.8 ppg 100 SK's
0250	300		33	5	Mix Tail cont 2 13.8 ppg 125 SK's
0255	0		10	5	Close In wash Pump line
0258	100			8.5	Release Plug & 5t Disp w/H2O
0304	600			7.0	lifting cont 55 Bbls out
0312	1500			0	Plug Down psi Test Csg
0314	0		76.3	0	Release Held
					Rotated Csg During Job
					Good Circ
					Plug R, H2O M.H. w/2 55's lead cont
					Job Complete
					Thank you



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P.O. Box 8613
Pratt, KS 67124-8613
(316) 672-1201
(316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

Invoice

Bill to:		3678275	Invoice	Invoice Date	Order	Order Date
F G HOLL			105022	5/14/01	3469	5/5/01
P O BOX 158			<i>Service Description</i>			
BELPRE, KS 67519			Cement 1051050 <i>Cement</i>			
			<i>Lease</i>		<i>Well</i>	
			Lawrenz		1-10	
<i>AFE</i>	<i>CustomerRep</i>	<i>Treater</i>	<i>Well Type</i>	<i>Purchase Order</i>	<i>Terms</i>	
	Rob Long	D. Scott	New Well		Net 30	

ID.	Description	UOM	Quantity	Unit Price	Price
D200	'A-CON' BLEND	SK	160		
D101	COMMON CEMENT	SK	50		
C310	CALCIUM CHLORIDE	LBS	593		
C195	CELLFLAKE	LB	53		
F133	TOP RUBBER CEMENT PLUG, 8 5/8"	EA	1		
F203	FLAPPER TYPE INSERT FLOAT VALVES, 8 5/8"	EA	1		
R701	CEMENT HEAD RENTAL	EA	1		
E107	CEMENT SERVICE CHARGE	SK	210		
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25		
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	247		
R202	CASING CEMENT PUMPER, 501-1000'	EA	1		

ENT'D MAY 30 2001

Discount

Tax Rate: 5.90%

(T) Taxable Item

not used
ENT'D MAY 23 2001



PLEASE REMIT TO Acid Services, LLC, Dept No 1131

Accounts become past due the last day of the month following billing. Interest rate 1.5% per n

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KCC WICHITA

ORIGINAL

0636

TREATMENT REPORT

03247



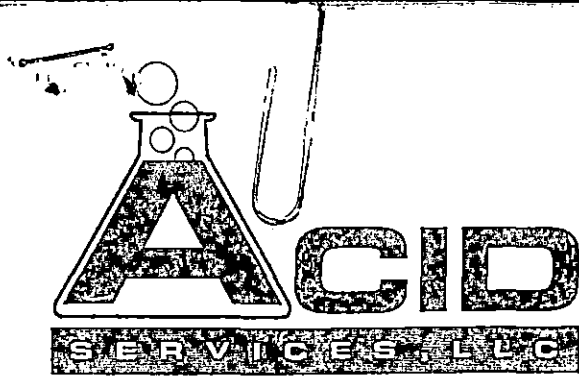
Customer ID		Date	
Customer F G Hall		5-5-01	
Lease Lawrenz		Lease No.	Well # 1
Field Order # 03469	Station Pratt KS	Casing 8 7/8	Depth 996
Type Job 8 7/8 Surface New Well		County Barber	State KS
Formation		Legal Description 10-305-13w	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 7/8	Tubing Size	Shots/Ft		Acid 160 sks A-Pan 390cc	RATE	PRESS 1000	ISIP	
Depth 960 PB 7 1/2	Depth	From	To	Pre Pad 12.4 ppg 2.23 ft ³	Max		5 Min.	
Volume 61	Volume	From	To	Pad 50 sks Sida 390cc	Min		10 Min.	
Max Press 1000	Max Press	From	To	Fluo 74 Bbls SL	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	61 Bbls Disp	HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Rob Long	Station Manager Dave Aurry	Treater D. Scott
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Service Units	106	26	34	72
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:500					On loc w/Trk's Safety mtg I SFV w/Fill Top 5.5 Log on Bottom Drop Ball Circ w/Rig
2:000	600		10	4.5	H2O Spacer
2:002	600		63	4.5	Mix & pump 160 sks @ 12.4 ppg
2:020	500		11	4.5	Mix & pump 50 sks Sida @ 15.6 ppg Liquish mixing
2:036	650			4	Release Plug & SE Disp
2:100	900		62	4	Disp In Plug not hard Release psi, Due weather Flat held Good Circ During Job Circ 30 sks CMF
					Job Complete Thank you Scott Chart not work



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(316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

Invoice

Bill to: F G HOLL P O BOX 158 BELPRE, KS 67519	3678275	Invoice	Invoice Date	Order	Order Date
		105021	5/14/01	3658	5/4/01
	Service Description				
	Cement <i>Cement 1051050</i>				
			Lease	Well	
			Lawrenz	1-10	
A/E	CustomerRep	Treater	Well Type	Purchase Order	Terms
	Rob Long	T. Scab	New Well		Net 30

ID.	Description	UOM	Quantity	Unit Price	Price
D101	COMMON CEMENT	SK	175		
C310	CALCIUM CHLORIDE	LBS	493		
C195	CELLFLAKE	LB	43		
E107	CEMENT SERVICE CHARGE	SK	175		
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25		
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	206		
R200	CASING CEMENT PUMPER, 0-300'	EA	1		

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AUG 24 2001

KCC WICHITA

Discount

Tax Rate: 5.90%

(T) Taxable Item

ENT'D MAY 30 2001

PAID JUN 8 2001
29800

MAY 2001

Rob Long

PLEASE REMIT TO Acid Services, LLC, Dept No 1131, Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.



TREATMENT REPORT

03216

Customer ID	Date	
Customer F. G. Holl	05-04-01 ORIGINAL	
Lease LAWRENZ	Lease No.	Well # 1-10

Field Order # 03658	Station PRATT	Casing 10 3/4	Depth 139'	County BARBER	State
---------------------	---------------	---------------	------------	---------------	-------

Type Job 10 3/4 Conductor	New Well	Formation	Legal Description 10-30S-13W
---------------------------	----------	-----------	------------------------------

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 10 3/4	Tubing Size	Shots/Ft		Abid 175sk Common		RATE	PRESS	ISIP
Depth 139'	Depth	From	To	Pro Pad 370 CC 1/4" Floccle	Max			5 Min.
Volume	Volume	From	To	Pad 1.18 cutt (sk 15.9%)	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative Rob Low	Station Manager D. ATRY	Treater T. SEBA
---------------------------------	-------------------------	-----------------

Service Units	109	23	31	71				
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
09:30					Called out
10:40					ON Loc wither's SAFETY MTG
					Run 3 JT's 10 3/4 32.75"/ft
12:30					Hook up to Csg
12:43	100			5	Break Circ w/ Pump TEL
12:48	150			5	START MIXING CEMENT @ 15.9 %/gal
			36.77		FINISHED MIXING CEMENT
12:57	100			5	START DISP Good Circ Then JOB
1:00			13		CLOSE VALVE ON CSG
					JOB COMPLETE THANKS

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AUG 24 2001

KCC WICHITA

F. G. HOLL COMPANY
TIME SHEET

ORIGINAL

EE: Water Trnck

WEEK OF: 7-29 to 8-4

HOURS	WORK DONE	LEASE CHARGE
7:30 - 2	Hauled 40 BBL fresh water for acid job	Lambert B 1-17
7:30 - 1 1/2	Hauled 70 BBL SW	Rhea Fisher 1-3
7:30 - 1 1/2	Hauled 70 BBL SW	Lambert A 2-4
7:30 - 1 1/2	Hauled 70 BBL SW	Lambert 2 1-10
All SW hauled to Kennedy SWD		
TOTAL	6 1/2	

SIGNED:

APPROVED:

Aug-06-01 08:09 F. G. HOLL CO. L.L.C. 1 316 995 3323 P. 01

RECEIVED: 8/9/01 8:17 AM - F. G. HOLL COMPANY - #5172 PAGE 1

ACCOUNT	CODE	USE OF SWD - WATER HAULED LEASE/WELL	BBLs	DR	CR
			S	-	
			S	-	
			S	-	
		SUBTOTAL		S	-
4071055	ALDR102SWD	USE OF SWD - ALDRICH SWD		S	1,800.00

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AUG 24 2001

KCC WICHITA

Water Truck

WEEK OF: 7-22 to 7-28

HOURS	WORK DONE	LEASE CHARGE
		ORIGINAL
7/27 1	loader tubing	Smith 3-10
7/27 1	loader tubing	City of Bartlett 1-3
7/27 2	Puller tank bottom	Hiskett 1-15
7/27 1 1/2	Hauled 70 BBL SW	Doan A 1-3
7/27 1	loader tubing	Rhea Fisher 2-3
7/27 1 1/2	Cleaned heater	Lambert B 1-17
7/27 1 1/2	Hauled 70 BBL SW	Rhea Fisher 1-4
7/27 1 1/2	Hauled 70 BBL SW	Davis-Lawrence 1-15
7/27 1 1/2	Hauled 70 BBL SW	Lawrence 1-10
All SW hauled to Kennedy SWD		
TOTALS	12 1/2	

TOTALS	16 1/2	
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SIGNED: _____ APPROVED: _____

Aug-06-01 08:09 F.G. HOLD CO. L.L.C. 1 316 995 3323 P.O1

RECEIVED: 8/6/01 8:17: -> F.G. HOLD COMPANY; #517; PAGE 1

ACCOUNT	CODE	USE OF SWD - WATER HAULED LEASE/WELL	BBLs	DR	CR
			\$	-	
			\$	-	
			\$	-	
		SUBTOTAL		\$	-
4071055	ALDRI02SWD	USE OF SWD - ALDRICH SWD		\$	1,800.00

RECEIVED
AUG 24 2001
KCC WICHITA

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 5-8-01 Location 230° 890' N 10° 10' 30" W 13 W Elevation 1876 ft County Baheer

Company F.B. Holl Cement LLC Number of Copies 5

Charts Mailed to 10427 East Kellomok PO Box 780167 Wichita Kansas 67228-0167

Drilling Contractor Steel Pipe Drilling #16#4

Length Drill Pipe 2598 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" x 11/16"

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

Length Drill Collars 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" x 11/16"

Top Packer Depth 2854 Bottom Packer Depth 2859 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2859 TO 2880 ANCHOR LENGTH 21 TOTAL DEPTH 2880 Hole Size 7 7/8"

LEASE & WELL NO. LAWRENZ # 1-10 FORMATION TESTED Trinidad Core TEST NO. 1

Mud Weight 9.1 Viscosity 32 Water Loss Chlorides - Pits 12000 D.S.T. 84000

Maximum Temp. 102 °F Initial Hydrostatic Pressure (A) 1364 P.S.I. Final Hydrostatic Pressure (H) 1345 P.S.I.

Tool Open I.F.P. from 8:30 p.m. to 8:45 p.m. 15 min

Tool Closed I.C.I.P. from 8:45 p.m. to 9:15 p.m. 30 min

Tool Open F.F.P. from 9:15 p.m. to 9:30 p.m. 15 min

Tool Closed F.C.I.P. from 9:30 p.m. to 10:00 p.m. 30 min

Initial Blow WEAK building blow built to 11 inches into the water

Final Blow WEAK building blow built to 8 inches into the water

Total Feet Recovered 325 Gravity of Oil Corrector

325 Feet of SLIGHTLY muddy water % Gas % Oil % Mud % Water

 Feet of % Gas % Oil % Mud % Water

 Feet of % Gas % Oil % Mud % Water

 Feet of % Gas % Oil % Mud % Water

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 Feet of % Gas % Oil % Mud % Water

 Feet of % Gas % Oil % Mud % Water

 Feet of % Gas % Oil % Mud % Water

Remarks

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

Top Recorder No. 28225 Clock No. Electronic Depth 2893 Cir. Sub None Sampler None

Bottom Recorder No. 5463 Clock No. 47441 Depth 2897 Insurance None

Price of Job

Tool Operator Don Duhig

Approved By

N2 11870

from [B] <u>63</u> P.S.I. to [C] <u>159</u> P.S.I.
[D] <u>978</u> P.S.I.
from [E] <u>165</u> P.S.I. to [F] <u>203</u> P.S.I.
[G] <u>956</u> P.S.I.

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SUPERIOR TESTERS ENTERPRISES INC.

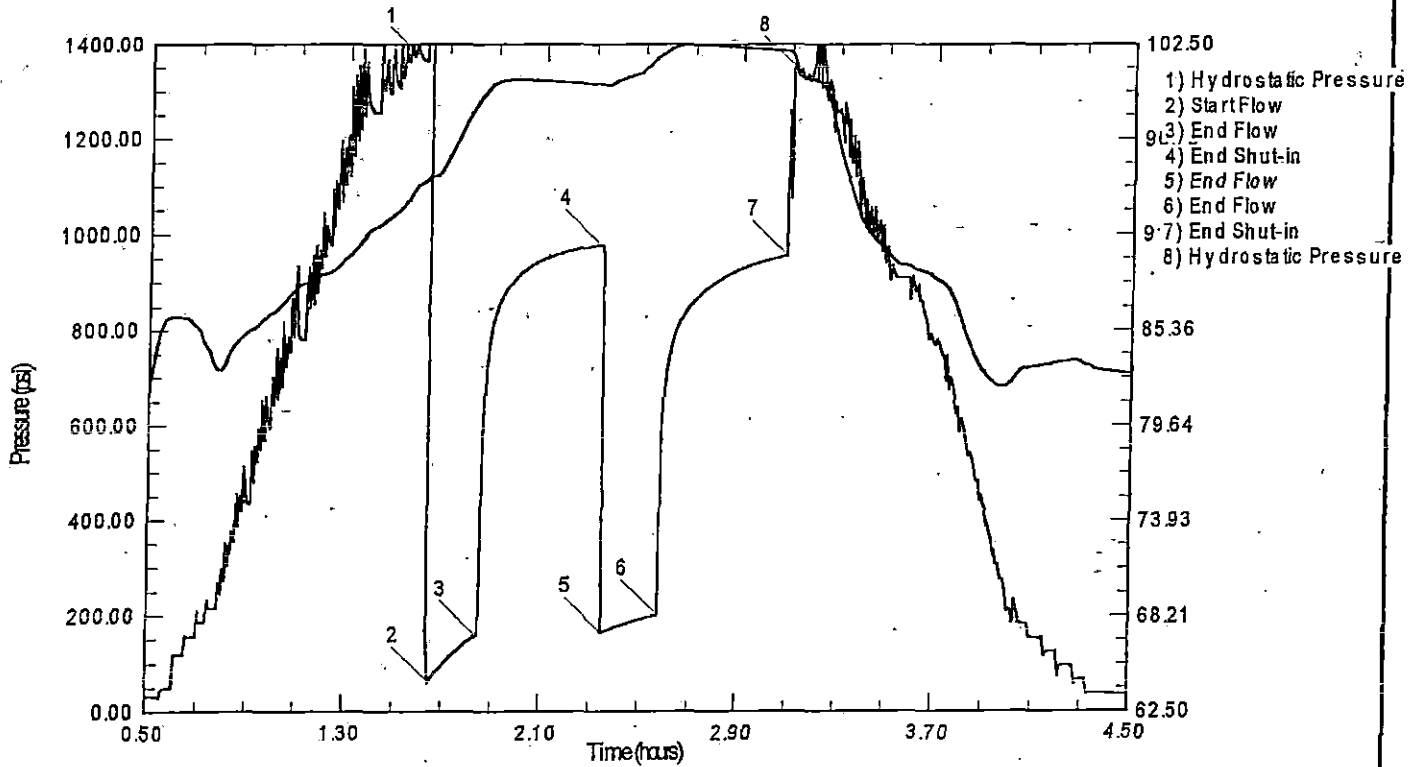
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
 County BARBER
 Field

Test Date May 8, 2001
 Sec Town Range 10/30/13
 Report Number 11870



Field Reading

(1)	Initial Hydrostatic Pressure	1364
(2)	Initial Flow Pressure	63
(3)	Final Initial Flow Pressure	159
(4)	Initial Shut-In Pressure	978
(5)	Initial Final Flow Pressure	165
(6)	Final Flow Pressure	203
(7)	Final Shut-In Pressure	956
(8)	Final Hydrostatic Pressure	1345

ELECTRONIC RECORDER DEPTH 2873 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. LAWRENZ #1-10 Test #: 1 Date:5-8-2001 SEC. 10 TWP. 30S
 RGE. 13W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	LAWRENZ #1-10
TEST DATE	5/8/01	FORMATION TESTED	INDIAN CAVE
SECTION-TOWN-RANGE	10/30/13	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	11870
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1876
ELEVATION GROUND LEVEL	1867	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	2859	TOP PACKER DEPTH	2854
TEST INTERVAL (to)	2880	BOTTOM PACKER DEPTH	2859
ANCHOR LENGTH	21	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	2880	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	8:30
TOOL OPEN (to)	8:45
DURATION (min.)	15

INITIAL SHUT-IN

TOOL CLOSED (from)	8:45
TOOL CLOSED (to)	9:15
DURATION (min.)	30

FINAL OPEN

TOOL OPEN (from)	9:15
TOOL OPEN (to)	9:30
DURATION (min.)	15

FINAL SHUT-IN

TOOL CLOSED (from)	9:30
TOOL CLOSED (to)	10:00
DURATION (min.)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	1364
INITIAL FLOW	63
FINAL INITIAL FLOW	159
INITIAL SHUT-IN	978
INITIAL FINAL FLOW	165
FINAL FLOW	203
FINAL SHUT-IN	956
FINAL HYDROSTATIC	1345
MAXIMUM TEMPERATURE	102
TOP RECORDER DEPTH	2873
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	2877
RECORDER NUMBER	13189

INITIAL BLOW

WEAK BUILDING BLOW BUILT TO 11 INCHES INTO THE WATER

FINAL BLOW

WEAK BUILDING BLOW BUILT TO 8 INCHES INTO THE WATER

EXTRA EQUIPMENT

JARS	YE	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YE	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YE	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **2598**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **240**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH -

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.1**

VISCOSITY **32**

WATER LOSS

CHLORIDES-PITS **12000**

CHLORIDES-DST **84000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	325	SLIGHTLY MUDDY WATER-CHLORIDES84000				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 5-12-01 Location St. 51/2-51/2 10-30-13 Elevation 1876 County Sachse

Company F.G. Hall Company LLC Number of Copies 1

Charts Mailed to 6427 East Kellum P.O. Box 78067 Wichita Kansas 67228-0161

Drilling Contractor Steelcase Drilling Rig #4

Length Drill Pipe 4144 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 X 1 1/4

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

Length Drill Collars 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2 X 1 1/4

Top Packer Depth 4400 Bottom Packer Depth 4405 Number of Packers 6 3/4 Packer Size 6 3/4

TESTED FROM 4405 TO 4471 ANCHOR LENGTH 66 TOTAL DEPTH 4471 Hole Size 2 7/8

LEASE & WELL NO. LAWRENZ 1-10 FORMATION TESTED Kudschunk Creek TEST NO. 2

Mud Weight 9.31 Viscosity 48 Water Loss 9.4 Chlorides - Pits 5800 D.S.T. _____

Maximum Temp. 125 °F Initial Hydrostatic Pressure (A) 2209 P.S.I. Final Hydrostatic Pressure (H) 2162 P.S.I.

Tool Open I.F.P. from 3:00 p.m. to 3:30 p.m. 30 min

Tool Closed I.C.I.P. from 3:30 p.m. to 4:30 p.m. 60 min

Tool Open F.F.P. from 4:30 p.m. to 5:30 p.m. 60 min

Tool Closed F.C.I.P. from 5:30 p.m. to 7:00 p.m. 90 min

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 3 minutes - Gas is

Final Blow Strong blow - See Gas Flow Report

Total Feet Recovered 290 Gravity of Oil _____ Corrected _____

<u>290</u> Feet of <u>Drilling Mud do show a fair</u>	% Gas _____	% Oil _____	% Mud _____	% Water _____
Feet of <u>Gassy</u>	% 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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 288225 Clock No. 8188 Depth 4464 Cir. Sub none Sampler none

Bottom Recorder No. 4744 Clock No. 4744 Depth 4468 Insurance none

Price of Job _____

Tool Operator Stewart

Approved By _____

NO 11871

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.

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS

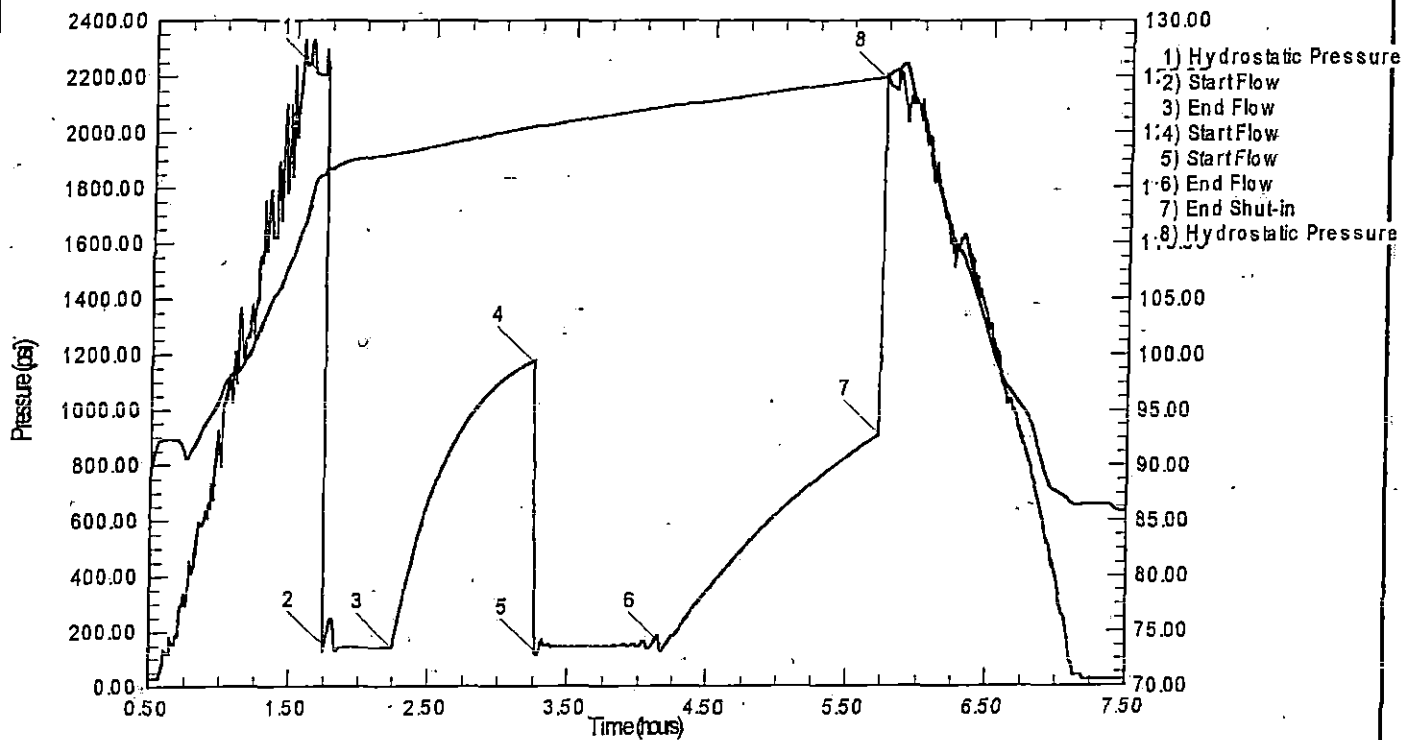
Test Date May 12, 2001

County BARBER

Sec Town Range 10-30S-3W

Field

Report Number 11871



Field Reading

(1)	Initial Hydrostatic Pressure	2209
(2)	Initial Flow Pressure	150
(3)	Final Initial Flow Pressure	142
(4)	Initial Shut-In Pressure	1176
(5)	Initial Final Flow Pressure	121
(6)	Final Flow Pressure	144
(7)	Final Shut-In Pressure	911
(8)	Final Hydrostatic Pressure	2162

ELECTRONIC RECORDER DEPTH FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. LAWRENZ #1-10 Test #: 2 Date: 5-12-2001 SEC. 10 TWP. 30S
 RGE. 13W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	LAWRENZ #1-10
TEST DATE	5/12/01	FORMATION TESTED	KINDERHOOK CHERT
SECTION-TOWN-RANGE	10-30S-3W	DRILL STEM TEST NUMBER	2
STATE	KANSAS	REPORT NUMBER	11871
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1876
ELEVATION GROUND LEVEL	1867	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4405	TOP PACKER DEPTH	4400
TEST INTERVAL (to)	4471	BOTTOM PACKER DEPTH	4405
ANCHOR LENGTH	66	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4471	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)

TOOL OPEN (to)

DURATION (min.)

INITIAL SHUT-IN

TOOL CLOSED (from)

TOOL CLOSED (to)

DURATION (min.)

FINAL OPEN

TOOL OPEN (from)

TOOL OPEN (to)

DURATION (min.)

FINAL SHUT-IN

TOOL CLOSED (from)

TOOL CLOSED (to)

DURATION (min.)

PRESSURE READINGS

INITIAL HYDROSTATIC

INITIAL FLOW

FINAL INITIAL FLOW

INITIAL SHUT-IN

INITIAL FINAL FLOW

FINAL FLOW

FINAL SHUT-IN

FINAL HYDROSTATIC

MAXIMUM TEMPERATURE

TOP RECORDER DEPTH

RECORDER NUMBER

BOTTOM RECORDER DEPTH

RECORDER NUMBER

INITIAL BLOW

**FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 MINUTES
INCREASED TO STRONG BLOW AFTER 8 MINUTES WITH GAS TO SURFACE
IN 12 MINUTES**

FINAL BLOW

STRONG BLOW -SEE GAS FLOW REPORT

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **4144**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **240**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.3**

VISCOSITY **48**

WATER LOSS **9.4**

CHLORIDES-PITS **5800**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	290	GASSY DRILLING MUD NO SHOWS OF OIL				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

STATE..... KANSAS

Test Date 5/12/01

COUNTY..... BARBER

Sec Town Range 10-30S-3W

FIELD.....

Report Number 11871

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)
TOOL OPENED	3:15	15	15			3/4	55.200
AT 3:00 WITH	3:25	25	10.50			3/4	46.000
GAS TO	3:30	30	9			3/4	42.500
SURFACE IN							
12 MINUTES AT							
3:12							

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	4:40	10	40			3/4	89.800
AT 4:30	4:50	20	30			1/2	34.300
	5:00	30	41			3/8	22.800
	5:10	40	26			3/8	18.100
	5:20	50	23			3/8	17.050
	5:30	60	10			3/8	11.300
GAS SAMPLE WAS TAKEN							

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 5-13-01 Location S1/2-S1/4-1/2 N-30°-13'W Elevation 1876.6 County Sevier

Company F.G. Hall Company L.L.C. Number of Copies 3

Charts Mailed to 6427 East Willow P.O. Box 780 167 Wichita Kansas 67228-0

Drilling Contractor Steelcase Drilling Co # 4

Length Drill Pipe 4301 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 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 4557 Bottom Packer Depth 4562 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4562 TO 4605 ANCHOR LENGTH 43 TOTAL DEPTH 4605 Hole Size 7 7/8"

LEASE & WELL NO Lawrence # 1-10 FORMATION TESTED Uiola TEST NO. 3

Mud Weight 9.4 Viscosity 47 Water Loss 9.4 Chlorides - Pits 4800 D.S.T.

Maximum Temp. 126 °F Initial Hydrostatic Pressure (A) 2268 P.S.I. Final Hydrostatic Pressure (H) 2200 P.S.I.

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

Tool Closed I.C.I.P. from 11:00 am to 12:00 pm 60 min

Tool Open F.F.P. from 12:00 pm to 1:00 pm 60 min

Tool Closed F.C.I.P. from 1:00 pm to 2:30 pm 90 min

Initial Blow fair blow built to the bottom of the bucket in 3 minutes

Final Blow Struck blow built to the bottom of the bucket in 30 seconds - Gas in 30

Total Feet Recovered 300 Gravity of Oil Correcte

100 Feet of Mud 45 % Gas 30 % Oil 25 % Mud 0 % Water

150 Feet of Mud 30 % Gas 38 % Oil 30 % Mud 0 % Water

30 Feet of CLEAN Deep Gray slightly mud 56 % Gas 40 % Oil 5 % Mud 0 % Water

Feet of cut oil % 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 4598 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 47441 Clock No. 5467 Depth 4602 Insurance NONE

Price of Job

Tool Operator Gene Budy

Approved By

No. 11872

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SUPERIOR TESTERS ENTERPRISES INC.

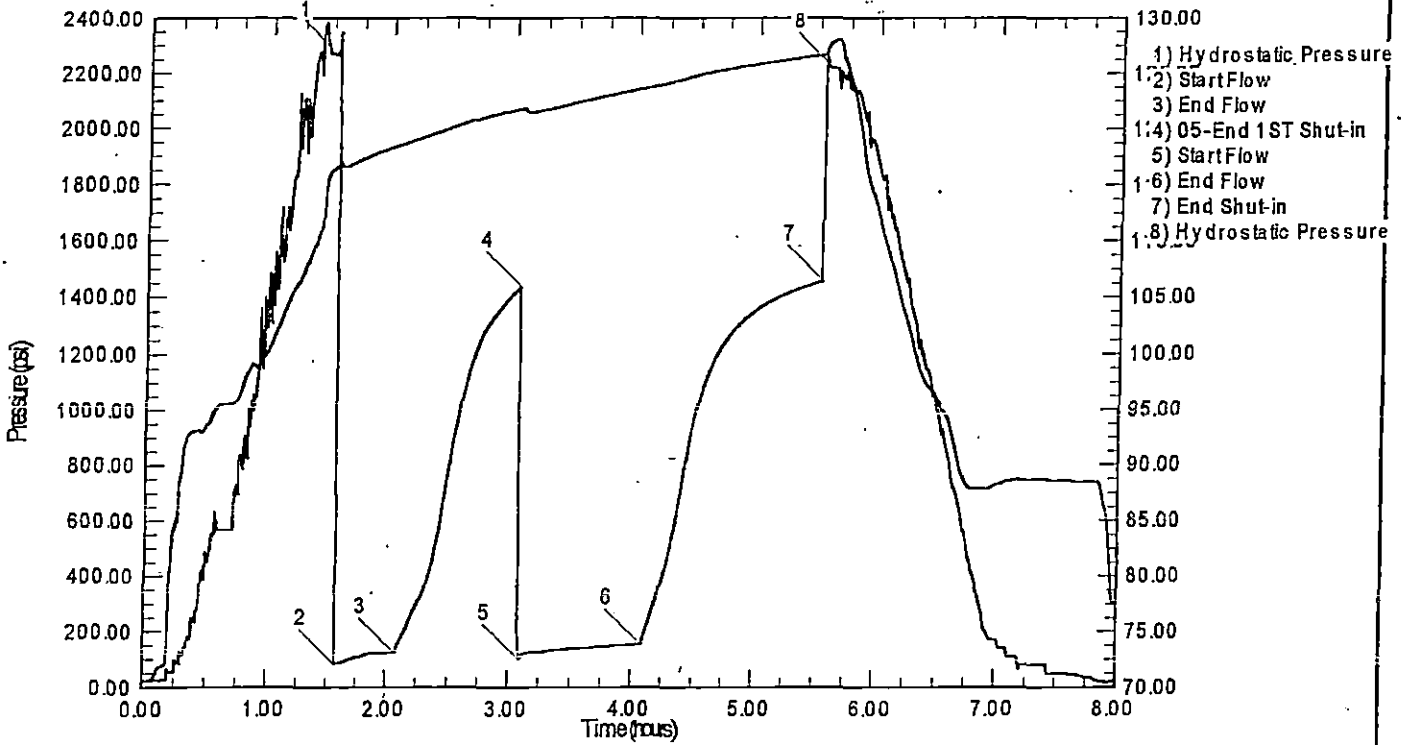
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
 County BARBER
 Field

Test Date May 13, 2001
 Sec Town Range 10-30S-13W
 Report Number 11872



Field Reading

(1)	Initial Hydrostatic Pressure	1436
(2)	Initial Flow Pressure	83
(3)	Final Initial Flow Pressure	124
(4)	Initial Shut-In Pressure	1436
(5)	Initial Final Flow Pressure	101
(6)	Final Flow Pressure	154
(7)	Final Shut-In Pressure	1457
(8)	Final Hydrostatic Pressure	2220

ELECTRONIC RECORDER DEPTH 4598 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. LAWRENZ #1 Test #: 3 Date: 5-13-2001 SEC. 10 TWP. 30S RGE.13W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	LAWRENZ #1-10
TEST DATE	5/13/01	FORMATION TESTED	VIOLA
SECTION-TOWN-RANGE	10-30S-13W	DRILL STEM TEST NUMBER	3
STATE	KANSAS	REPORT NUMBER	11872
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1876
ELEVATION GROUND LEVEL	1867	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4562	TOP PACKER DEPTH	4557
TEST INTERVAL (to)	4605	BOTTOM PACKER DEPTH	4562
ANCHOR LENGTH	43	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4605	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	10:30
TOOL OPEN (to)	11:00
DURATION (min.)	30

INITIAL SHUT-IN

TOOL CLOSED (from)	11:00
TOOL CLOSED (to)	12:00
DURATION (min.)	12:30

FINAL OPEN

TOOL OPEN (from)	12:00
TOOL OPEN (to)	1:00
DURATION (min.)	60

FINAL SHUT-IN

TOOL CLOSED (from)	1:00
TOOL CLOSED (to)	2:30
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1436
INITIAL FLOW	83
FINAL INITIAL FLOW	124
INITIAL SHUT-IN	1436
INITIAL FINAL FLOW	101
FINAL FLOW	154
FINAL SHUT-IN	1457
FINAL HYDROSTATIC	2220
MAXIMUM TEMPERATURE	126
TOP RECORDER DEPTH	4598
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	4602
RECORDER NUMBER	13189

INITIAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 MINUTES

FINAL BLOW

STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 30 SECONDS WITH GAS TO SURFACE IN 30 MINUTES -SEE GAS FLOW REPORT

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **4301**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **240**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.4**

VISCOSITY **47**

WATER LOSS **9.6**

CHLORIDES-PITS **4800**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	120	MUDDY VERY GASSY OIL	45	30	25	0
2)	150	MUDDY VERY GASSY OIL	32	38	30	0
3)	30	CLEAN VERY GASSY SLIGHTLY MUD CUT OIL	55	40	5	0
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(316) 792-6902

#

STATE..... KANSAS

Test Date 5/13/01

COUNTY..... BARBER

Sec Town Range 10-30S-13W

FIELD.....

Report Number 11872

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Office Tester	PSI on Office Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Office Tester	PSI on Office Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT	12:35	35	4			1/4	3.370
12:00 WITH GAS	12:45	45	6			1/4	4.120
TO SURFACE IN	12:55	55	7			1/4	4.450
30 MINUTES	1:00	60	7			1/4	4.450
AT 12:30							

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 5-19-01 Location S_{1/2} T₁₄ S_{1/2} E 10-30-13^W Elevation 1876^{ft} County Soeber

Company L.C. Hall Company LLC Number of Copies 5

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

Drilling Contractor Starline Drilling D₁₀₂₄

Length Drill Pipe 4454 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 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H

Top Packer Depth NONE Bottom Packer Depth 4708 Number of Packers 1 Packer Size 6 3/4"

TESTED FROM 4708¹⁸ TO 4718 ANCHOR LENGTH 8 TOTAL DEPTH 4718 Hole Size 7 7/8

LEASE & WELL NO. Lawrence #1-10 FORMATION TESTED Arbuckle TEST NO. 4

Mud Weight 9.3 Viscosity 48 Water Loss 9.4 Chlorides - Pits 5800 D.S.T. _____

Maximum Temp. 128 °F Initial Hydrostatic Pressure (A) 2316 P.S.I. Final Hydrostatic Pressure (H) 2311 P.S.I.

Tool Open I.F.P. from 8:50 A.M. to 9:05 A.M. 15 min

Tool Closed I.C.I.P. from 9:05 A.M. to 9:35 A.M. 30 min

Tool Open F.F.P. from 9:35 A.M. to 9:50 A.M. 15 min

Tool Closed F.C.I.P. from 9:50 A.M. to 10:00 A.M. 30 min

Initial Blow WEAK SURFACE BLOW FOR 30 SECONDS & DIED

Final Blow NONE

Total Feet Recovered 5 Gravity of Oil _____ Correcte

5 Feet of VERY SLIGHTLY OIL SPICKED 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 _____

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_____ 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 4704 Cir. Sub NONE Sampler NONE

Bottom Recorder No. _____ Clock No. _____ Depth 47 Insurance NONE

Price of Job _____

Tool Operator Dave Budig

Approved By _____

NO 11873

from [B] <u>33</u> P.S.I. to [C] <u>37</u> P.S.I.
[D] <u>1672</u> P.S.I.
from [E] <u>37</u> P.S.I. to [F] <u>37</u> P.S.I.
[G] <u>1694</u> P.S.I.

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, 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.

SUPERIOR TESTERS ENTERPRISES INC.

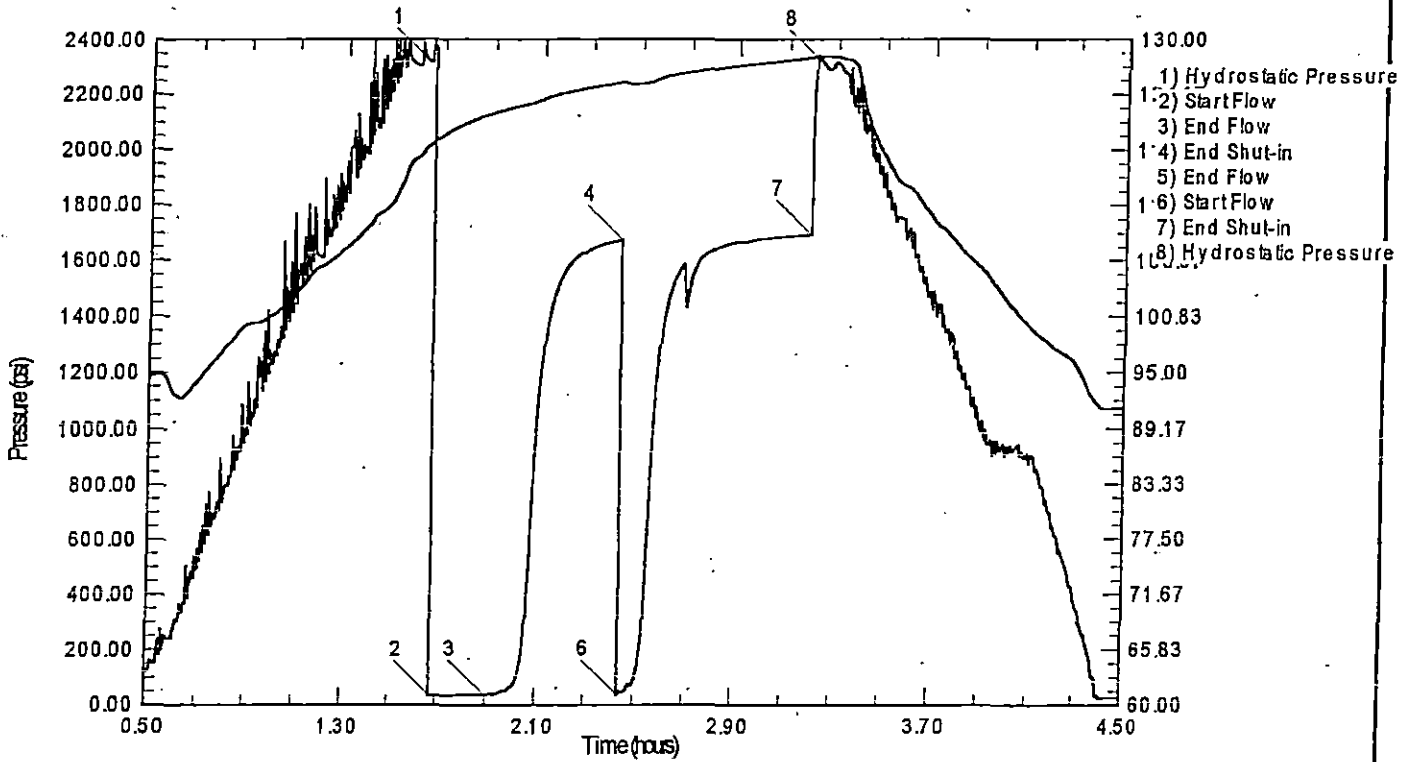
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
 County PRATT
 Field

Test Date May 14, 2001
 Sec Town Range
 Report Number 11873



Field Reading

(1)	Initial Hydrostatic Pressure	2316
(2)	Initial Flow Pressure	33
(3)	Final Initial Flow Pressure	37
(4)	Initial Shut-In Pressure	672
(5)	Initial Final Flow Pressure	37
(6)	Final Flow Pressure	37
(7)	Final Shut-In Pressure	1694
(8)	Final Hydrostatic Pressure	2311

ELECTRONIC RECORDER DEPTH 4704 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. LAWRENZ #1-10 Test #: 4 Date: 5-14-2001 SEC. 10 TWP. 30S
 RGE. 13W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	LAWRENZ #1-10
TEST DATE	5/14/01	FORMATION TESTED	ARBUCKLE
SECTION-TOWN-RANGE		DRILL STEM TEST NUMBER	4
STATE	KANSAS	REPORT NUMBER	11873
COUNTY	PRATT	ELEVATION KELLY BUSHINGS	1876
ELEVATION GROUND LEVEL	1867	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4710	TOP PACKER DEPTH	
TEST INTERVAL (to)	4718	BOTTOM PACKER DEPTH	4710
ANCHOR LENGTH	8	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4718	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

<i>INITIAL OPEN</i>	
TOOL OPEN (from)	8:45
TOOL OPEN (to)	9:00
DURATION (min.)	15
<i>INITIAL SHUT-IN</i>	
TOOL CLOSED (from)	9:00
TOOL CLOSED (to)	9:30
DURATION (min.)	30
<i>FINAL OPEN</i>	
TOOL OPEN (from)	9:30
TOOL OPEN (to)	9:45
DURATION (min.)	15
<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from)	9:45
TOOL CLOSED (to)	10:15
DURATION (min.)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	2316
INITIAL FLOW	33
FINAL INITIAL FLOW	37
INITIAL SHUT-IN	672
INITIAL FINAL FLOW	37
FINAL FLOW	37
FINAL SHUT-IN	1694
FINAL HYDROSTATIC	2311
MAXIMUM TEMPERATURE	128
TOP RECORDER DEPTH	4704
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	
RECORDER NUMBER	13189

INITIAL BLOW

VERY WEAK SURFACE BLOW FOR 30 SECONDS AND DIED

FINAL BLOW

NO BLOW

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **4454**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **240**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.3**

VISCOSITY **48**

WATER LOSS **9.4**

CHLORIDES-PITS **5800**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	5	VERY SLIGHTLY OIL SPECKED MUD				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State KANSAS

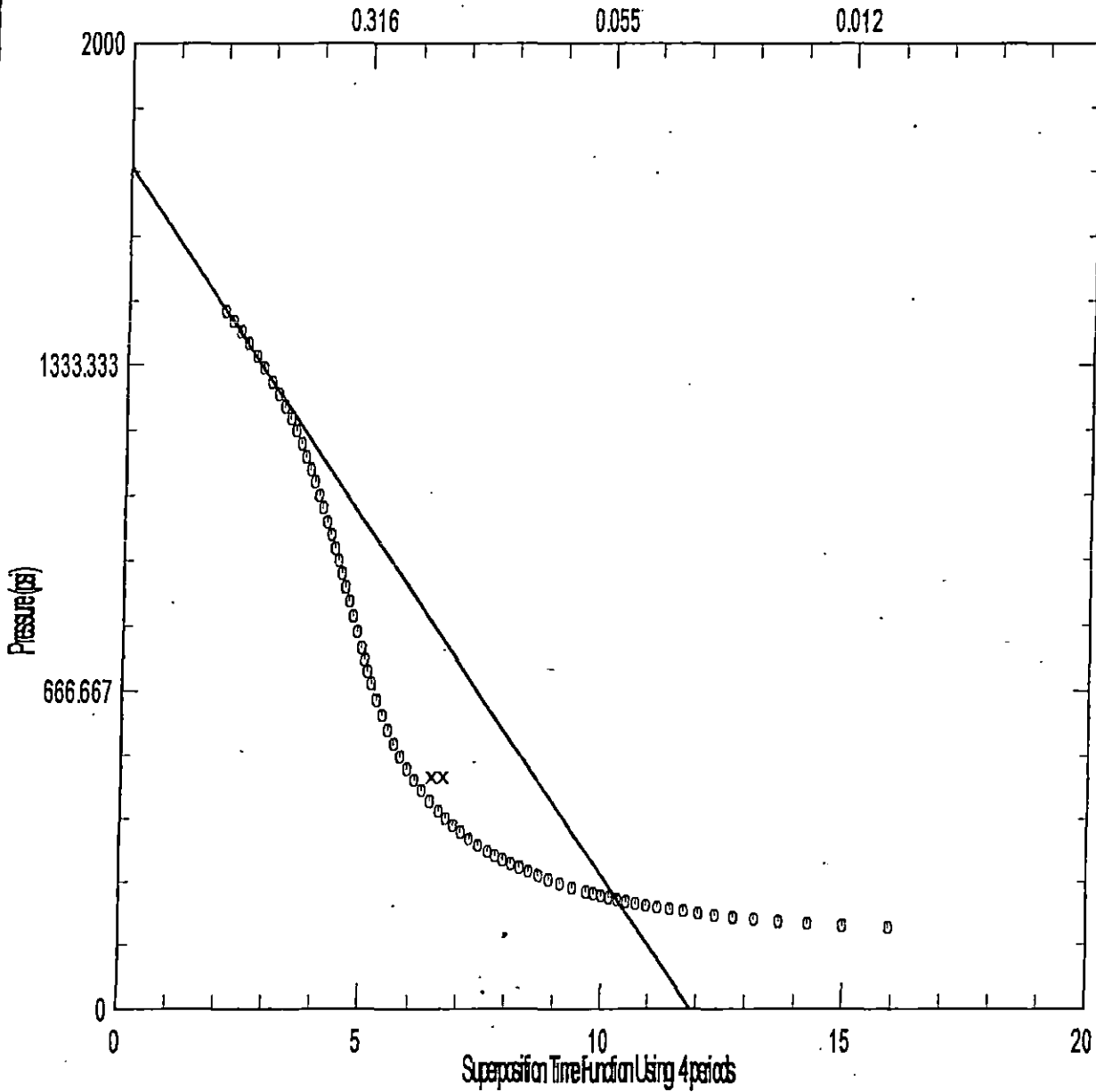
Test Date 5/13/01

County BARBER

Sec Town Range 10-30S-13W

Field

Report Number 11872



Field :
County or Parish :
State :

Date Printed: 05/14/01 10:06:15
Analysis Period : End Flow - End Shut-in
Comment : Line #

Superposition Slope -> m'	-146.749900
Horner Slope -> m	-1115.298956
Intercept	1743.856
P(dt=1 hr)	1372.529
Pwf	154.150
R Sqr	0.9985
k (md)	0.26802
kh (md-ft)	2.68018
k/u (md/cp)	0.11989
kh/uB (md-ft/cp)	1.10801
Skin	2.566
DP Skin	2489.568
Total DP	1589.706
Percent DP	156.61%
Radius Invest (ft)	1
Radius Time (hrs)	1.46
Delta Q =	8
h (ft)=	10
mu =	2.236
B =	1.082
First Point #	254
Second Point #	300
Start Real Time	0.765
End Real Time	1.464
Start SF Time	3.020