

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

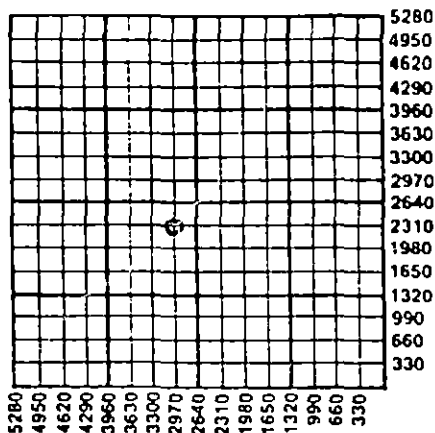
Operator: License # 6785
Name: Schulein Company
Address 1776 Lincoln St., #811
Denver, CO 80203
Purchaser: _____
Operator Contact Person: Robert Schulein
Phone (303) 839-5495
Contractor: Name: Red Tiger Drilling
License: 5302
Wellsite Geologist: David D. Montague

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWD: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
11-04-90 11-20-90 11-21-90
Spud Date Date Reached TD Completion Date

API NO. 15- 191-22,178-0000
County Sumner ✓
NE NE SW Sec. 20 Twp. 34 Rge. 3W East West
2430 ✓ Ft. North from Southeast Corner of Section
3800 ✓ Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Subera ✓ Well # 11-20
Field Name _____
Producing Formation _____
Elevation: Ground 1144' KB 1148'
Total Depth 4805' (DTD) PBTD _____



Amount of Surface Pipe Set and Cemented at 274' 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.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Robert Schulein
Title Owner/Operator Date 12-7-90

Subscribed and sworn to before me this 7th day of December 1990.
Notary Public Georgia D. Larson
Date Commission Expires July 3, 1992

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
D Drillers Timelog Received
RECEIVED STATE CORPORATION COMMISSION
DEC 13 1990
KCC
KGS
Distribution
 SWD/Rep NGPA
 Plug Other
(Specify)

SIDE TWO

Operator Name Schulein Company Lease Name Subera Well # 11-20
 Sec. 20 Twp. 34 Rge. 3W East County Sumner
 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.)

Formation Description

Log Sample

Name Top Bottom

SEE ATTACHED FOR DRILL STEM TEST INFORMATION AND LOG TOPS.

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#	274'	60-40poz	170	3%cc 2%gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift 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 Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

Attached to ACO-1 Form

ORIGINAL

Schulein #11-20 Subera
NE NE SW, Section 20-34S-3W
Sumner County, Kansas

- DST #1: 4706-4716' (4th Simpson). 15-30-30-90. Had very weak blow that died in 15 min. No blow on final flow. Rec. 10' mud, no show. IHP 2365; IFP 81-104; ISIP 1458; FFP 104-104; FSIP 1883; FHP 2335. BHT 138°. Sample chamber contained 1800 cc's mud.
- DST #2: 4718-4726' (3rd Simpson). Misrun. 20' cutting in bottom of hole. Tool slid to 13' off bottom of hole.
- DST #3: 4718-4726' (3rd Simpson). Misrun. 15' cuttings in bottom of hole. Tool slid to 4' off bottom.
- DST #4: 4700-4724': Ran 76' tailpipe. Times 5-30-70-120. Very weak blow - 1/2" on initial flow period. Very weak blow that died in 70 min. on final flow period. Rec. 40' water-cut mud. IHP 2330; IFP 58-58; ISIP 1274; FFP 58-69; FSIP 1516; FHP 2330. BHT 138°.

LOG TOPS

Heebner	2810' (-1661)
Iatan	3155' (-2006)
Stalnaker	3230' (-2081)
Layton	3532' (-2383)
Kansas City	3544' (-2395)
Bs. Kansas City	3813' (-2664)
Cherokee sh	4019' (-2870)
Mississippi Unconf.	4270' (-3121)
Mississippi Im. Marker	4363' (-3214)
Kinderhook sh	4620' (-3471)
Maquoketa	4680' (-3531)
Viola	4690' (-3541)
4th Simpson sd	4714' (-3565)
3rd Simpson sd	4734' (-3585)
2nd Simpson sd	4752' (-3603)
LTD	4800'

Plugged 11-21-90 as follows:

1st plug @ 1000' w/35 sx, 2nd plug @ 600' w/35 sx, 3rd plug @ 325' w/35 sx, 4th plug @ 60' w/25 sx. 15 sx in Rat Hole. Job complete at 11:30 AM.

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STATE CORPORATION COMMISSION

DEC 13 1990

CONSERVATION DIVISION
Wichita, Kansas

HALLIBURTON SERVICES
JOB LOG

WELL NO. 11-20 LEASE Sukera TICKET NO. 054525

CUSTOMER Robert Scheulein PAGE NO. 1

JOB TYPE ATA ORIGINAL DATE 11-21-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (EBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							On loc
								Run drill pipe in
								1st Plug 1000' 35SK
	0930		10	1				Water ahead
	0935		9	1				Mix cement
	0940		12	1				Displace
								Pull pipe
								2nd Plug 600' 35SK
	1005		5	1				Water ahead
	1010		9	1				Mix cement
	1015		6	1				Displace
								Pull pipe
								3rd Plug 325' 35SK
	1025		5	1				Water ahead
	1030		9	1				Mix cement
	1035		2 1/2	1				Displace
								Pull pipe
								4th Plug 60' 25SK
								Drop 9 3/8 Plug to 60'
	1100		6 1/2	1				Mix cement to surface
								Pull rat hole
	1130		3 3/4	1				Plug rat hole 15SK
	1130							Well Plugged

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DEC 13 1990

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

DISTRICT Pratt

DATE 11-21-90

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Robert Scheukin (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 11-20 LEASE Suberg SEC 20 TWP. 34 RANGE 3w

FIELD _____ COUNTY Sumner STATE Ks. OWNED BY Scadie

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 4905 MUD WEIGHT _____
BORE HOLE 7 7/8
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW P.S.J.
CASING						
LINER						
TUBING						
OPEN HOLE						SHOT/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Plug To Abandon
145 sK 4 1/2 Pz
4 1/2 Gel

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for routine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occur at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services, supplies or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications to the contract unless such change or modification is made in writing by a duly authorized executive officer of Halliburton.

RECEIVED
THE STATE COMMISSION
STATE CORN. DIVISION

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED MIKE KEMPE CUSTOMER
DATE 11-21-90
TIME 9:00 A.M.

DEC 13 1990

CONSERVATION DIVISION
WICHITA, KANSAS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Oklahoma
Winfield

BILLED ON TICKET NO. 054525

CUSTOMER: Robert Schellinger
WELL NO.: 11-30
JOB TYPE: PTA
DATE: 11-21-90

WELL DATA

FIELD: SEC. 20 TWP. 34 RNO. 3w COUNTY: Sumner STATE: KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING							
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM TO

INITIAL PROD: OIL BPD, WATER BPD, GAS MCFD

PRESENT PROD: OIL BPD, WATER BPD, GAS MCFD

COMPLETION DATE MUD TYPE MUD WT.

PACKER TYPE SET AT

GOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH

JOB DATA

CALLER OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
11-21	11-21	11-21	11-21
TIME 0445	TIME 0830	TIME 0930	TIME 1130

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R Ryser 37541	3819	Winfield
Moore 21644	5080	"
H Hall 52365	RM	"

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	8 7/8 1	Halsco
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID DENSITY LB/GAL. API

DISPL. FLUID DENSITY LB/GAL. API

PROP. TYPE SIZE LB.

ACID TYPE GAL. %

ACID TYPE GAL. %

ACID TYPE GAL. %

SURFACTANT TYPE GAL. IN

WE AGENT TYPE GAL. IN

FLUID LOSS ADD. TYPE GAL.-LB. IN

GELLING AGENT TYPE GAL.-LB. IN

FRIC. RED. AGENT TYPE GAL.-LB. IN

BREAKER TYPE GAL.-LB. IN

BLOCKING AGENT TYPE GAL.-LB.

PERFPAC BALLS TYPE QTY.

OTHER

OTHER

DEPARTMENT: Cement

DESCRIPTION OF JOB: Plug To Abandon

JOB DONE THRU: TUBING CASING ANNULUS TEG./ANN.

CUSTOMER REPRESENTATIVE: X Mike Remy

HALLIBURTON OPERATOR: R Ryser

COPIES REQUESTED: 1

CEMENT DATA

STAGE	NUMBER OF BAGS	TYPE	API CLASS	BRAND	BULK BAGGED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS./GAL.
	145	10/60		P02	B	4% Gel	1.44	12.8

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT PRESLUSH: DBL.-GAL. TYPE

BREAKDOWN MAXIMUM LOAD & BKDN: DBL.-GAL. PAD: DBL.-GAL.

AVERAGE FRACTURE GRADIENT TREATMENT: DBL.-GAL. DISPL: DBL.-GAL.

SHUT-IN: INSTANT 15-MIN. CEMENT SLURRY: DBL.-GAL.

ORDERED AVAILABLE USED STATE CORPORATION COMMISSION

HYDRAULIC HORSEPOWER

REMARKS

AVERAGE RATES IN BPM

TREATING DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET REASON

DEC 13 1990

CONSERVATION DIVISION
Wichita, Kansas

COMPANY S. Hebeid Corp FARM S. Beck ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Red Tiger Rig SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1500	4:41		
1	47	3	CONV - 20' Samples
	49	2	
	51	2	
	53	2	
5	56	2	
	58	2	
	5:00	2	
	02	2	
	05	2	
10	08	3	
	11	3	
	14	3	
	16	2	
	19	2	
15	22	3	20
	24	2	
	27	2	
	30	3	
	33	3	
20	35	2	
	38	3	
	40	2	
	42	2	
	44	2	
25	46	2	
	48	2	
	51	3	
	53	2	
	54	1	
30	56	2	
	59	2	CONV -
	6:06	2	40
	11	2	
	12	1	
35	14	1	
	16	2	
	17	1	
	19	1	
	20	1	
40	22	2	
	23	1	
	26	3	
	29	2	
	32	2	
45	34	2	
	38	3	
	40	2	
	41	1	
	42	1	
1550	44	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1550	6:45	1	
51	49	4	
	53	4	
	56	3	60
55	58	2	
	7:00	2	
	02	2	
	04	2	
	06	2	
60	08	2	
	11	3	
	13	2	CONV - Rig
	1:33	2	
	35	2	
	36	1	
65	38	2	
	40	2	
	42	2	
	44	2	
	46	2	
70	48	2	
	52	4	
	56	4	
	8:00	4	80
	03	3	
75	06	3	
	08	2	TIME CORR
	8:00	2	
	02	2	
	03	1	
	05	2	
80	06	1	
	08	2	
	11	3	
	13	2	
	15	2	
85	17	2	
	19	2	
	21	2	1100
	23	2	
	25	2	
90	26	1	
	27	1	
	28	1	
	29	1	
	30	1	Net Conv
95	42	1/2	
	43	1/2	
	44	1	
	45	1	
	46	1	
1600	47	1	

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STATE CORPORATION COMMISSION

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CONSERVATION DIVISION
Wichita, Kansas

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY: Sullivan Corp FARM S. Bera WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Rechtiger Rig & SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 18

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1600	47	1	
1	48	1	
	49	1	
	51	2	
	55	4	
5	58	3	
	9:00	2	
	02	2	
	05	3	
	07	2	
10	09	2	
	11	2	
	12	1	
	14	2	
	16	2	
15	17	1	278.0
	21	4	118.0
	24	3	13/40
	27	3	
	29	2	
20	31	2	
	33	2	
	35	2	
	38	3	
	40	2	
25	42	2	Conn
	47	3	
	54	4	
	57	3	
	10:00	3	
30	03	3	
	06	3	
	09	3	
	13	4	
	15	2	
35	18	3	
	20	2	
	23	3	
	26	3	
	28	2	
40	30	2	
	32	2	
	35	3	
	37	2	
	39	2	
45	41	2	
	43	2	
	45	2	
	47	2	
	48	1	
1650	50	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1650	50	2	
57	52	2	
	54	2	
	57	3	
	11:00	3	
55	03	3	
	05	2	Conn
	12	2	
	17	3	
	19	2	
60	22	3	
	26	4	
	28	2	
	30	2	
	32	2	
65	34	2	
	36	2	1670' check
	38	2	
	41	3	cht 33,000
	44	3	HL 76.0
70	48	4	9.6wt
	51	3	31 vis
	53	2	
	55	2	depts @ 2800'
	56	1	
75	59	3	Premix added
	12:03	4	for 500' of Smp
	06	3	
	09	3	
	12	3	
80	16	4	
	19	3	
	22	3	
	25	3	
	29	4	
85	32	3	
	37	5	Conn
	45	4	
	49	4	
	51	4	
	56	5	
90	59	3	
	1:01	2	
	03	2	00
	05	2	
	06	1	
95	08	2	
	10	2	
	12	2	
	14	2	
	16	2	
1700	18	2	Call gear 1700'

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Schulien FARM Subera ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Red Tiger SIZE HOLE 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1700	18		
	20	2	
	22	2	
	24	2	
	26	2	
05	29	3	
	31	2	
	33	2	
	35	2	
	37	2	
10	38	1	
	39	1	
	40	1	
	42	2	
	43	1	
15	44	1	
	46	2	
	47	1	
	48	1	RUN WIRE LINE SHT
	11 13	2	CONV
20	15	2	
	17	2	
	18	1	
	20	2	
	22	2	
25	23	1	
	25	2	
	26	1	
	27	1	
	28	1	
30	29	1	
	30	1	
	34	4	
	38	4	
	40	2	
35	42 1/2	2 1/2	
	45	2 1/2	
	49	4	
	53	4	
	57	4	
40	3:00	3	30V15 9.6 wt
	7	7	
	10 1/2	3 1/2	
	13	2 1/2	
	14	1	
45	16	2	
	18	2	
	21 1/2	3 1/2	
	24	2 1/2	
	34	2	COND
1750	40	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1750	40		
	44	4	
	47	3	
	49 1/2	2 1/2	
	52	2 1/2	
55	55	3	
	57	2	
	1:00	3	
	2 1/2	2 1/2	
	5	2 1/2	
60	7 1/2	2 1/2	
	10	2 1/2	
	13	3	
	16	3	
	18	2	
65	21	3	
	24	3	
	27	3	
	30	3	
	32	2	
70	35	3	
	38	3	
	41	3	
	44	3	
	47	3	80
75	50 1/2	3 1/2	
	53 1/2	2	
	56	2 1/2	
	59	3	
	5:01	2	
80	6 1/2	2	COND
	11	3	
	13	2	
	16	3	
	18	2	
85	20 1/2	2 1/2	
	23	2 1/2	
	25	2	
	27	2	
	30	3	
90	32	2	
	34	2	
	38	4	
	43	5	
	46	3	00
95	48	2	
	51	3	
	53	2	
	55	2	
	57 1/2	2 1/2	
1800	59 1/2	2	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY Schulzlein Corp FARM Subana WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Red Tiger Drilling SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1800 1	5 1/2 6:02	2 1/2	
	5	3	
	7	2	
	9	2	
5	11 1/2	2 1/2	
	14	2 1/2	
	18	4	
	21	3	
	24	3	
10	27	3	
	31	4	
	36 1/2 40	3 1/2	CONN
	43	3	
	46	3	
15	49	3	
	51	2	
	54 1/2	3 1/2	
	57	2 1/2	
20	59	2	
	7:01	2	
	3	2	
	4 1/2	1 1/2	
	6	1 1/2	
	8	2	
25	9	1	
	11	2	
	12	1	
	14 1/2	2 1/2	
	19	4 1/2	
30	23	4	
	26	3	
	28	2	
	30	2	
	32	2	
35	36	4	
	41	5	
	45	4	
	47 1/2	2 1/2	
	50	2 1/2	
40	52	2	
	55	3	
	57	2	
	7 1/2	2	COND
	11	2	
45	12 1/2	1 1/2	
	15	2 1/2	
	16 1/2	1 1/2	
	18 1/2	2	
	21	2 1/2	
1850	23	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1850 51	23 26	3	
	28	2	
	30	2	
	32	2	
55	33	1	
	35	2	
	36	1	
	37	1	
	38 1/2	1 1/2	
60	40 1/2	2	
	42	1 1/2	
	44	2	
	46	2	
	48	2	
65	50	2	
	52	2	
	53	1	
	55	2	
	57	2	
70	58	1	
	9:00	2	
	2	2	
	5	3	
	11 1/4	3	COND 40
75	17	3	
	19	2	
	21 1/2	2 1/2	
	24 1/2	3	
	27	2 1/2	
80	30 1/2	3 1/2	
	32	1 1/2	
	36	4	
	38	2	
	41	3	
85	42 1/2	1 1/2	
	44	1 1/2	
	46	2	
	47	1	
	48 1/2	1 1/2	
90	50	1 1/2	
	52	2	00
	53	1	
	55	2	
	57	2	
95	59	2	
	10:01	2	
	2 1/2	1 1/2	
	4	1 1/2	
	6	2	
1900	8	2	

ROYAL DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Se Heleit Corp FARM Subera WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Snyder STATE KS
 CONTRACTOR Ked Tiger Rig 6 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1950 1	9 10	2	
	11	1	
	13	2	
	15	2	
5	17	2	
	20 24	1 1/2	CONN
	26	2	
	28	2	
	30	2	
10	32	2	
	34	2	
	36	2	
	38	2	
	40	2	
15	43 1/2	3 1/2	
	46	2 1/2	
	47 1/2	1 1/2	
	50	2 1/2	
	52	2	
20	55	3	
	58	3	
	11:01	3	
	04	3	
	11-	7-	
25	15	3-	
	16-	1-	
	18	1-	
	20	2	
	22	2	
30	23-	1-	
	26	2-	
	28	2	
	30	2	
	32	2	
35	34	2	
	37	3	CONN-
	51 53	2	
	57	4	
	12:00	3	
40	02	2	
	03-	1-	
	04	2-	
	07	1	
	08-	1-	
45	10	1-	
	11-	1-	
	13	1-	
	15	2	
	17	2	
1950	21	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1950 57	21 23	2	
	25	2	
	27	2	
	28-	1-	
55	30-	2	
	32-	2	
	35	2-	
	38	3	
	41	2	
60	43-	2-	
	46-	3	
	48	1-	
	49-	1-	
	51-	2	
65	53	1-	
	54-	1-	
	57	2-	CONN-
	1:04 06	2	
	08	2	
70	10	2	
	12	2	
	14	2	
	16-	2-	
	18-	2	
75	20-	2	
	24	3-	
	28	4	
	31	3	
	34-	3-	
80	41	6-	
	44	3	
	46	2	
	48	2	
	50	2	
85	52	2	
	53-	1-	
	56	2-	
	57	1	
	59	2	
90	2:02	3	
	03-	1-	
	06	2-	
	08	2	
	10	2	
95	12	2	
	14	2	
	16	2	
	18-	2-	CONN-
	22 28	1	
2000	32	4	

COMPANY Schulz Co.

FARM Subera

WELL NO. 1F20

SEC. TWP. RGE. LOC.

COUNTY Sanover STATE KS

CONTRACTOR Red Tiger #6

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2000	2:30	41-	
	41	4-	
	44	3	
	46-	2-	
05	48	1-	
	50	2	
	51-	1-	
	54	2-	
	58	4	
10	3:01	3	
	03-	2-	
	06	2-	
	09	3	
	12	3	
15	14	2	
	16	2	
	18	2	
	22	4	
	25	3	
20	28	3	WAKE GEO
	32	4	
	36	4	
	40-	4-	
	45	4-	
25	50	5	
	54-	4-	
	58	3-	
	4:02	4	
	05-	3-	
30	09	3-	CANN-
	16-19-	3	
	24	4-	
	28-	4-	
	33-	5	
35	38	4-	
	42-	4-	
	46-	4	
	51	4-	
	55	4	
40	59	4	
	5:05	6	
	08	3	
	11	3	
	13	2	
45	16	3	
	18	2	
	21	3	
	23-	2-	
	26	2-	
2050	28	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2050	5:28	2	
	32-	2-	
	35	2-	
	36-	1-	
55	38	1-	
	41	3	
	46	5	
	50	4	
	54	4	
60	58	4	
	6:03	5	CANN-
	10-13-	3-	
	17-	4	
	22	4-	
65	26	4	
	31	5	
	36	5	
	40	4	
	43-	3-	
70	47	3-	
	50	3	
	53-	3-	
	57	3-	
	7:00-	3-	
75	04	3-	
	08	4	
	12	4	
	15-	3-	
	19	4	
80	24	5	
	27	3	
	30	3	
	34	4	
	38	4	
85	43	5	
	48	5	
	53	5	
	57	4	
	8:00	3	
90	03	3	
	09	6	
	13	4	
	17	4	CANN-Rig V
	30-33	3	
95	36	3	
	39	3	
	42	3	
	44	4	
	50	4	
2100	54	4	

ORIGINAL

COMPANY *Chuteik Comp.*

FARM *Subera*

WELL NO. *11-20*

SEC. TWP. RGE. LOC.

COUNTY *Harvey*

STATE *LA*

CONTRACTOR *Red Truck #6*

SIZE HOLE *7 1/2*

DRILL PIPE *4 1/2*

REMARKS:

SIZE PUMP LINERS *6*

LENGTH STROKE *14*

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2100	54	3	
	57	3	
	01	4	
	04	3	
	08	4	
05	12	4	<i>10</i>
	16	4	
	19	3	
	22	3	
	26	4	
10	29	3	
	32	3	
	35	3	
	39	4	
	43	4	
15	46	3	<i>20</i>
	50	4	
	53	3	
	55	2	
	57	3	
20	10:00	3	
	04	4	
	07	3	
	12	5	
	16	4	<i>Conn</i>
25	10:23 26	3	
	31	5	
	34	3	
	37	3	
	40	3	
30	44	4	
	49	5	
	52	3	
	54	2	
	57	3	
35	58	1	
	11:05	2	
	01	1	
	02	1	
	03	1	<i>50</i>
40	05	2	
	07	2	
	08	1	
	09	1	
	10	1	
45	12	2	
	16 17	1	
	19	2	
	21	2	
	23	2	
2150	25	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2150	25	2	
	27	2	<i>60</i>
	29	2	
	31	2	
	33	2	
55	35	2	<i>Conn</i>
	38 50	2	
	52	2	
	54	2	
	57	3	
40	59	2	
	12:01	2	
	03	2	
	03	2	<i>70</i>
	07	2	
65	09	2	
	12	3	
	15	3	
	18	3	
	20	2	
70	23	3	
	26	3	
	28	2	
	31	3	<i>40</i>
	33	2	
75	35	2	
	37	2	
	39	2	
	41	2	
	44	3	
80	47	4	
	51	3	
	54	3	
	58	4	<i>90</i>
	1:01	3	
85	13	2	
	05	2	<i>Conn</i>
	10 12	2	
	14	2	
	16	2	
90	19	3	
	21	2	
	23	2	<i>00</i>
	26	3	
	28	2	
95	30	2	
	32	2	
	35	3	
	37	2	
	40	3	
2200	42	2	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY Schulzein Co.

FARM Subera

ORIGINAL

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY Sumner

STATE KS

CONTRACTOR Bob [unclear]

SIZE HOLE 7 1/2

DRILL PIPE 4

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2200	42	45	
	47	2	
	50	3	
	52	2	
05	55	3	
	57	2	
	2:00	3	
	02	2	
	04	2	
10	07	3	
	09	2	
	11	2	
	13	2	
	14	3	
15	18	2	
	20	2	
	22	2	
	24	2	Conn
	30	32	
20	34	2	
	36	2	
	40	4	
	44	4	
	48	4	
25	52	4	
	55	3	
	59	4	
	3:02	3	
	7	5	
30	10	5	
	15	3	
	19	4	
	23	4	
	26	3	
35	30	4	
	32	2	
	33	1	
	35	2	
	36	1	
40	38	2	
	42	4	
	45 1/2	3 1/2	
	49	3 1/2	
	52	3	
45	55	3	
	57	2	
	59	2	
	4:00	1	Conn
	14	1	
2250	4	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2250	15	16	
	17	1	
	18	1/2	
	18 1/2	1	
SS	19 1/2	1	
	21	1 1/2	
	22	1	
	23	1	
	24	1	
60	25 1/2	1 1/2	
	28	2 1/2	
	31	3	
	34	3	
	37	3	7"
65	39 1/2	2 1/2	
	42	3 1/2	
	46	3	
	48	2	
	52	4	
70	52	4	
	58	2	
	5:00	2	
	"	"	
	5 1/2	3 1/2	5"
75	5	2 1/2	
	11 1/2	3 1/2	
	11	2 1/2	
	"	"	
	12 1/2	3	
	20	4	
	23	3	
	26 1/2	3 1/2	
	29 1/2	3	
	43	3 1/2	
7	42	3	
	49	3	
	52 1/2	3 1/2	
	56	3 1/2	
	59	3	
90	6:02	3	
	5	3	
	9	4	
	13	4	
	17	4	
9	20	3	
	23	3	
	26	3	
	29	3	
	33	4	
2300	36	3	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY *Schleier Co*

FARM *Subera*

ORIGINAL

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY *Sevier*

STATE *MS*

CONTRACTOR *Hediger King*

SIZE HOLE *7 3/8*

DRILL PIPE *4 1/2*

REMARKS:

SIZE PUMP LINERS *6*

LENGTH STROKE *14*

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2300 1	36 38 1/2	2 1/2	10
	41	2 1/2	
	43	2	
	45	2	
5	47	2	
	49	2	
	52	3	
	54	2	
	57	3	10
10	55	2	CONN
	7	2	
	8 1/2	1 1/2	
	11	2 1/2	
	13	2	
15	15	2	
	17 1/2	2 1/2	
	20	2 1/2	
	22	2	
	23 1/2	1 1/2	
20	26	2 1/2	30
	28	2	
	29 1/2	1 1/2	
	32	2 1/2	
	34	2	
25	36	2	
	38	2	
	40	2	
	42	2	
	44	2	
30	46	2	
	48	1 1/2	10
	49	1 1/2	
	52	3	
	55	3	
35	58	3	
	58 1/2	3	Charts
	5	2	
	8	3	
	10	2	40
40	12	2	
	17	1	CONN
	20	2	
	21	1	
	23	2	
45	24	1	
	26	2	
	28	2	
	30	2	
	33	3	
2350	35	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2350 51	35 37 1/2	2 1/2	
	40	2 1/2	
	42	2	60
	45	3	
55	47	2	
	50	3	
	53	3	
	56	3	
	58	2	
60	9:01	3	
	3	2	
	6	3	70
	8 1/2	2 1/2	
	11	2 1/2	
65	13	2	
	16	3	
	18	2	
	21	3	
	23	2	
70	26	3	
	28	2	8
	30	2	
	35	2	CONN
	37	2	
	40	3	
75	42	2	
	44	2	
	46	2	
	48	2	
	51	3	
80	53	2	90
	55	2	
	57	2	
	58 1/2	2 1/2	
	10:02	2 1/2	
85	4	2	
	6	2	
	8	2	
	11	3	2400
	12 1/2	1 1/2	
90	14 1/2	2	
	16	1 1/2	
	18	2	
	20	2	
	22	2	
95	24	2	
	26	2	
	28	2	
	30	2	
	31	1	
2400	32 1/2	1 1/2	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Sullivan Corp FARM Subs. 11 ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Woodruff Big 6 SIZE HOLE 7 7/8 DRILL PIPE 5 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2400 1	32 1/2 34	1 1/2	
	35 1/2	1 1/2	
	37	1 1/2	
	39	2	
5	45 1/2 47	2	CONN
	48 1/2	1 1/2	
	51	2 1/2	
	53	2	
	55	2	
10	57	2	1 1/2
	59	2	
	11:01	2	
	03	2	
	05	2	
15	07	2	
	09	2	
	11	2	
	13-	2-	
	17-	4	
20	21	3-	
	24	3	
	26-	2-	
	30	3-	
	34	4	
25	38	4	
	42	4	
	46	4	
	49-	3-	
	53-	4	
30	57-	4	
	12:01	3-	
	03-	2-	
	06	2-	
	08-	2-	
35	11-	3	CONN - V Rig
	23 26	3	
	29	3	
	30	1	
	31-	1-	
40	33	1-	
	34-	1-	
	36	1-	
	37	1	
	38	1	
45	39	1	
	40-	1-	
	42	1-	
	43-	1-	
	45	1-	
2450	47-	2-	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2450 57	12:47 50-	3	1 1/2
	53	2-	
	55-	2-	
	57-	2	
55	59	1-	
	1:01	2	
	03-	2-	
	06-	3	
	11	4-	
60	15	4	
	19	4	
	23	4	
	26-	3-	
	30	3-	10
65	35	5	CONN-
	42 1/2 47	4	
	51	4	
	56	5	
	2:00	4	
70	04	4	
	08-	4-	
	12	3-	
	15-	3-	40
	19	3-	
75	22	3	
	25	3	
	28-	3-	
	31-	3	
	35	3-	
80	38-	3	
	41	3	
	44	3	
	47	3	
	50	3	
85	53	3	
	56	3	
	58-	2-	
	3:01-	3	
	05	3-	
90	07-	2-	
	11	3-	
	13-	2-	
	16-	3	
	19-	3	
95	22	2-	
	26	4	
	29	3	CONN-
	35 39	3-	
	43	4	
2500	47-	4-	

COMPANY Schulz Co. FARM Subora WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Mo
 CONTRACTOR Red Tiger #6 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2500	3:47		
	51	3-	
	54-	3-	
	57-	3	
	4:00-	3	
05	03-	3	
	07	3-	
	10	3	
	13-	3-	
	17	3-	
10	20	3	
	23	3	
	26	3	
	29	3	
	32-	3-	
15	36	3-	
	40	4	
	43-	3-	
	47	3-	
	50-	3-	
20	54	3-	
	57	3	
	5:00	3	
	03-	3-	
	07	3-	
25	10	3	
	13-	3-	
	16	2-	
	19	3	conn-
	22	3-	
30	33	2-	
	35	2-	
	37	2-	
	40	2-	
	42	2	
35	43	1	
	44-	1-	
	46	1-	
	47-	1-	
	49	1-	
40	51	2	
	52-	1-	
	54-	2	
	56-	2	
	58-	2	
45	6:00	1-	
	01-	1-	60
	03	1-	
	04-	1-	
	06	1-	
2550	07	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2550	6:07		
	08	1	
	10	2	
	12	2	
	13	1	
55	15	2	
	18-	3-	
	22	3-	- 76
	23-	1-	
	26	2-	conn-
60	34	36	2
	37	1	
	39	2	
	41	2	
	42-	1-	
65	44-	2	
	46	1-	
	48	2	
	49	1	
	51	2	
70	55	4	80
	59	4	
	7:03	4	
	06	3	
	08-	2-	
75	10-	2	
	12-	2	90
	14-	2	
	16	1-	
	18	2	
80	20	2	
	22	2	
	24	2	
	25	1	
	26	1	
85	27	1	
	28	1	
	30	2	
	32	2	00
	34	2	
90	36	2	conn-
	44	49	3
	49	2	10
	52	3	
	54	2	
95	56	2	
	58	2	
	8:00	2	
	101	1	
	02	1	
2600	03	1	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY Schulick Co.

FARM Suberea

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY Sumner

STATE Ks

CONTRACTOR Red Tiger

SIZE HOLE 7 1/8

DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2600	8:03		
	04	1	
	05	1	
	06	1	TIME CORR
	8:00		
	01	1	
05	02	1	
	03	1	
	04	1	
	05	1	
	06	1	
10	07	1	
	08	1	
	09	1	
	11	2	
	12	1	
15	13	1	
	15	2	
	16	1	
	17	1	
	18	1	
20	19	1	
	21	2	Conn
	25		
	27	2	
	28	1	
	29	1	
25	31	2	
	32	1	
	33	1	
	35	2	
	37	2	
30	38	1	
	39	1	
	42	3	
	45	3	
	47	2	
35	49	2	
	51	2	
	52	1	
	54	2	
	55	1	
40	56	1	
	57	1	
	58	1	
	9:00	2	
	02	2	
45	04	2	
	05	1	
	06	1	
	07	1	
	09	2	
2650	12	3	

Rock
Rise

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2650	9:12		
	15	3	
	18	3	
	20	2	Conn - WIRE Line
	10:15		
	18	3	GET ALL Volume while
55	21	3	Running SFT
	22	1	
	23	1	
	24	1	
	26	2	
60	27	1	
	28	1	
	30	2	Get #1
	34		
	38	4	
	40	2	Get #1
65	45		
	47	2	
	50	3	
	54	4	
	58	4	
	11:01	3	
70	14	3	
	08	4	
	11	3	
	15	4	
	19	4	
75	23	4	
	26	3	
	30	4	
	33	3	
	36	3	
80	40	4	
	44		
	47	3	
	50	3	Conn
	58		
	12:01	3	
85	05	4	
	08	3	
	11	3	
	13	2	
	16	3	
90	18	2	
	21	3	
	23	2	
	25	2	
	27	2	
95	29	2	
	31	2	
	33	2	
	36	3	
	38	2	
2700	41	3	

ORIGINAL

COMPANY Schulick Co. FARM Sabrea WELL NO. 120
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR BEA Tigre #6 SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 10

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2700	41	2	
	43	2	
	46	3	
	48	2	
	51	3	
05	54	3	
	57	3	
	1:00	3	
	03	3	
	05	2	
10	08	3	
	10	2	
	13	3	
	15	2	
	17	2	Conn
15	22	3	
	33	3	
	37	4	
	41	4	
	46	5	
20	50	4	
	53	3	
	57	4	
	2:01	4	
	05	4	
25	09	4	
	13	4	
	16 1/2	3 1/2	
	20	3 1/2	
	24	4	
30	27	3	
	31 1/2	4 1/2	
	37	5 1/2	
	42	5	
	45	3	
35	47	2	
	49	2	
	51	2	
	52 1/2	1 1/2	
	56	3 1/2	
40	58	2	
	3:00	2	
	01	1	
	03	2	
	5	2	
45	7	2	
	9	2	Conn
	20	2	
	22	2	
	24	2	
	26	2	wt. 8.9
2750	28	2	Dis 44

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2750	29	2	
	30	2	
	33	3	
	35 1/2	2 1/2	
	37 1/2	2	
35	42	4 1/2	
	47	5	
	52 1/2	5 1/2	
	56	3 1/2	
	59	3	
60	4:03	4	
	8 1/2	5 1/2	
	12 1/2	4	
	17 1/2	5	
	21	3 1/2	
65	24 1/2	3 1/2	
	27 1/2	3	
	30 1/2	3	
	34	3 1/2	
	37	3	
70	40	3	
	43	3	
	47 1/2	4 1/2	
	50 1/2	3	4.
	53	2 1/2	
75	55	2	
	59	4	
	5:03	4	
	9 1/2	2 1/2	Conn
	14	2 1/2	
80	16	2	90
	18	2	
	20	2	
	22	2	
	24	2	
85	26	2	
	28	2	
	30	2	
	32 1/2	2 1/2	2800
	34	1 1/2	
90	36	2	
	38	2	
	39	1	
	41	2	
	43	2	
95	44	1	
	46	2	
	48	2	
	51	3	
	53	2	
2800	56	3	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY S. A. Klein Corp FARM Subera WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Badtiger Rig SIZE HOLE 7 3/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800 1	5 56 6:00	4	
	4	4	
	6 1/2	2 1/2	
	9	2 1/2	
5	13	4	
	19	6	
	25	6	
	31	6	
	37 1/2	4	CONN
10	46	5	
	49	3	
	54	5	
	56	2	
	58 1/2	2 1/2	
15	7:00	1 1/2	
	2	2	
	6 1/2	4 1/2	
	9	2 1/2	
	11	2	
20	14 1/2	3 1/2	
	19	4 1/2	
	21	2	
	24	3	
	26	2	
25	29	3	
	31	2	
	33 1/2	2 1/2	
	35	1 1/2	
	37	1	
30	39	2	
	41	2	
	43 1/2	1 1/2	
	44	1 1/2	
	46	2	
35	48	2	
	50	2	
	52	2	
	54	2	
	56	2	
40	58	2	
	8 1/2	1 1/2	CONN
	12	2	
	14	2	
	16	2	
45	18 1/2	2 1/2	
	20	1 1/2	
	22	2	
	24	2	
	26 1/2	2 1/2	
2850	29	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800 51	29 31	2	
	33	2	
	34 1/2	1 1/2	
	36 1/2	2	
55	39	2 1/2	
	42	3	
	44	2	
	46 1/2	2 1/2	WT. 9.0
	48 1/2	2	Vis 3A
60	51	2 1/2	
	52 1/2	1 1/2	
	54	1 1/2	
	55	1	
	57	2	
65	59	2	
	9:00	1	
	1	1	
	2	1	
	4	2	
70	6 1/2	2 1/2	
	10	3 1/2	
	16 1/2	1 1/2	CONN
	20	2	
	23	3	
75	25	2	
	27 1/2	2 1/2	
	29	1 1/2	
	32	3	
	35	3	
80	37 1/2	2 1/2	
	40 1/2	4	
	45	2 1/2	
	47	2	
	49	2	
85	51 1/2	2 1/2	
	54	2 1/2	15-30-45
	33 1/2	3	
	40	4	
	43	3	
90	45	2	
	48	3	
	50	2	
	53	3	
	55	2	
95	57	2	
	59	2	
	11:01	2	
	03-	2-	
	05-	2	
2900	07-	2	

ORIGINAL

COMPANY Schulz Corp FARM Subera WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Kred-Liger Rig & SIZE HOLE 7 3/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2900	11:07		
1	11:10	2-	
	12	2	
	14 1/2	2 1/2	CONN V Rig
5	28	30	2
	31	1	
	33	2	
	34	1-	
	34	1-	70
	38	2	
10	40	2	
	42	2	
	45	3	
	47	2	
	49	2-	
15	51	2	
	54	2-	
	56	2	
	58	2	
	12:00	2-	
20	03	3	
	05	2	
	07	2	30
	10	3	
	13	3-	
25	16	3	
	20	4	
	24	4	
	28	3-	
	31	3	
30	33	2	
	37	4	
	40	3	
	43	3	
	46	3	CONN
35	51	57	2
	59	2	
	1:01	2	
	04	3	
	06	2-	
40	08	2	
	11	2-	
	13	2	10
	14	1-	
	16	1-	
45	17	1-	
	19	1-	
	20	1	
	21	1-	
	23	1-	
2900	24	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2950	1:24		
57	25	1-	
	26	1	
	28	1-	
	29	1-	
55	31	1-	
	32	1-	
	34	2	
	36	1-	70
	38	2	
60	40	2	
	41	1-	
	43	2	
	45	1-	CONN
	51	55	3-
65	59	4	
	2:01	2-	
	04	2-	
	07	3	40
	09	2-	
70	12	2-	
	14	2-	
	17	2-	
	19	2	
	21	2	
75	23	2-	
	26	2-	
	27	1	
	30	1	
	31	2	
80	34	2-	
	36	2	
	38	2	
	41	2-	
	43	2	
85	45	2-	
	47	2-	
	49	2	
	52	2-	40
	54	2	
90	56	2-	
	58	2	
	3:01	2-	
	03	2	
	05	2-	
95	07	1-	CONN 40 92
	14	16	2
	19	3	
	22	3	
	24	2-	10
3000	27	2-	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Schulwin

FARM Subera

ORIGINAL

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY Sumner

STATE Ks.

CONTRACTOR Red Tiger #6

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	3:27		
	30	3	
	33	3	
	35	2-	
	38	2-	
05	40	2-	
	43	2-	
	46	3	
	48	2	
	51	3	
10	53	2	
	55	2-	
	58	2-	
	4:00	2	
	03	3	
15	06	3	
	08	2	
	10	2-	
	13	2-	
	15	2	
20	17	2	
	19	2	
	21	2-	
	24	2-	
	26	2	
25	28	2	
	30	2-	CONN-
	39		
	41	2	
	43	2-	
	46	2-	
30	48	2-	
	51	2-	
	54	3	
	56	2	
	59	3	
35	5:01	2	
	03	2-	
	06	2-	
	08	2	
	11	3	
40	13	2	
	16	3	
	18	2	
	20	2-	
	23	2-	
45	25	2	
	28	3	
	30	2	
	33	3	
	35	2	
3050	38	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	5:38		
	41	3	
	43	2	
	46	3	
	48	2-	
55	51	2-	
	54	3	CONN-
	6:03	2	
	05	2-	
	08	2-	
60	10	2	
	13	3	
	15	2	
	17	2-	
	19	2	
65	22	2-	
	24	2-	
	27	2-	
	29	2	
	31	2-	
70	34	2-	
	37	3	
	39	2	
	41	2-	
	44	2-	
75	46	2-	
	49	2-	
	51	2	
	53	2	
	56	3	
80	58	2	
	7:01	3	
	04	3	
	06	2	
	09	3	
85	11	2	
	14	3	
	17	3	
	35	2	CONN - Rig ✓
	39	2	
90	41	2	
	43	2	
	45	2	
	47	2	
	50	3	
95	52	2	
	54	2	
	56	2	
	58	2	
	8:00	2	
3100	02	2	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY Schulein

FARM Subera

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY SUMNER

STATE KS

CONTRACTOR Red Tiger Drl Rig #6

SIZE HOLE 7 7/8"

DRILL PIPE 4 1/2"

REMARKS:

SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	7:59		
	8:01	2	Time Conn.
	03	2	
	05	2	
	07	2	
05	09	2	
	11	2	
	13	2	
	14	1	
	16	2	
10	18	2	
	19	1	
	21	2	
	23	2	
	25	2	
15	27	2	
	28	1	
	30	2	
	31	1	
	32	1	Conn
20	40 42	3	
	45	3	
	47	2	
	49	2	
	51	2	
25	53	2	
	55	2	
	57	2	
	59	2	
	9:01	2	
30	03	2	
	05	2	
	07	2	
	08	1	
	10	2	
35	12	2	
	14	2	
	16	2	
	18	2	
	19	1	
40	21	2	
	23	2	
	25	2	
	27	2	
	28	1	
45	30	2	
	32	2	
	34	2	
	36	2	
	37	1	
3150	39	1	Conn

Rick
&
Roc

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	51		
	52 1/2	1	
	55	2	
	57	2	
	59 1/2	2 1/2	419.1
55	10:02	2 1/2	
	04	2	
	07	3	
	09	2	
	13	4	
60	17	4	
	19 1/2	2	
	22 1/2	3	
	25	2 1/2	
	28	3	
65	31	3	
	33	2	
	35	2	
	38	3	
	40	2	
70	42	2	
	44	2	
	47	3	
	49	2	
	51	2	
75	53	2	
	55	2	
	57	2	
	58 1/2	1 1/2	
	11:00	1 1/2	
80	02	2	
	04	2	Conn
	12 14	2	
	16	2	
	18	2	
85	20	2	
	22	2	
	24	2	
	26 1/2	2	
	29	2	
90	30 1/2	1	
	33	2	
	36	2	
	38	2	
	41	2	
95	43	2	
	46	2	
	48	2	
	51	3	
	53	2	10
3200	54	3	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY S. H. H. Corp FARM S. R. R. D. ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Su. Kan. STATE Ks
 CONTRACTOR Bechtiger Bros SIZE HOLE 7 3/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	3200	56	59	3
		12:02	3	
		05	3	
		07	2	
05		10	3	
		12	2	
		14	2	
		16	2	
		18	2	
10		20	2	
		23	3	
		24	1	
		26	2	Conn
		32	34	2
15		36	2	
		38	2	
		41	3	
		44	3	
		46	2	
20		49	3	
		52	3	
		54	2	
		56	2	
		11:00	4	
25		06	6	SHT 10, .19 Long Board
		33	35	2
		38	3	
		41	3	
		44 1/2	3 1/2	
30		47 1/2	3	
		51	3 1/2	
		53 1/2	2 1/2	
		56	2 1/2	
		57 1/2	1 1/2	
35		59	1 1/2	
		5:0 1/2	1 1/2	
		2	1 1/2	
		3 1/2	1 1/2	
		5	1 1/2	
40		6 1/2	1 1/2	
		8	1 1/2	
		9 1/2	1 1/2	
		11	1 1/2	
		12 1/2	1 1/2	
45		18 1/2	20	1 1/2 Conn
		21	1	
		23	2	
		24	1	
		26	2	
3250		27 1/2	1 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3250	27 1/2	29	1 1/2
	30	1	
	32	2	
	33	1	
55	34	1	
	35 1/2	1 1/2	
	37	1 1/2	
	38 1/2	1 1/2	
	40	1 1/2	
60	41 1/2	1	
	43	1 1/2	
	44 1/2	1 1/2	
	46	1 1/2	
	47 1/2	1 1/2	
65	49	1 1/2	
	50 1/2	1 1/2	
	52	1 1/2	
	53	1	
	54	1	
70	56	2	
	57 1/2	1 1/2	
	59	1 1/2	
	6:01	2	wt. 9.1
	2	1	Vis 39
75	3 1/2	1 1/2	
	5	1 1/2	
	10 1/2	11 1/2	1 Conn
	12 1/2	1	
	13 1/2	1	
80	14 1/2	1	
	16	1 1/2	
	17	1	
	18	1	
	19	1	
85	21	2	
	22	1	
	24 1/2	2 1/2	
	26	1 1/2	
	28 1/2	2 1/2	
90	32	3 1/2	BASE STALNAKER
	34 1/2	2 1/2	
	38	3 1/2	
	42	4	
	45	3	
95	48	3	
	52	4	
	56	4	
	59	3	
	7:02 1/2	3 1/2	
3300	7:06	3 1/2	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Seaboard Corp **FARM** Jo Berr **WELL NO.** 11-20
SEC. TWP. RGE. LOC. **COUNTY** Sumner **STATE** Ks
CONTRACTOR Pro Diggs Inc **SIZE HOLE** 7 7/8 **DRILL PIPE** 4 1/2
REMARKS: **SIZE PUMP LINERS** 6 **LENGTH STROKE** 4

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300	7:06		
1	9	3	
	12 1/2	3 1/2	
	16	3 1/2	
	19 1/2	3 1/2	
5	23	3 1/2	
	27	4	
	31	4	
	37 40	3	CONN
	43 1/2	3 1/2	
10	47	3 1/2	
	50 1/2	3 1/2	
	54	3 1/2	
	8:00	3	2 Harts
	7	4	
15	10	3	
	13	3	
	17	4	
	21	4	
	24	3	
20	28	4	
	32	4	
	36	4	
	40	4	
	43	3	
25	47	4	
	51	4	
	55	4	
	58	4	
	9:02	4	
30	6	4	
	9 1/2	3 1/2	
	13	3 1/2	
	17	4	
	21	4	
35	25	4	
	29 1/2	3 1/2	
	32	3 1/2	
	36	4	wt. 9.2
	42 45	3	CONN Vis 38
40	48	3	
	52	4	
	56	4	
	59	3	
	10:03	4	
45	6	3	
	10	4	
	14	4	
	17	3	
	21	4	
3350	24	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350	24 28	4	
	31	3	
	34 1/2	3 1/2	
	38	3 1/2	
55	41-	3-	
	45	3-	
	48-	3-	
	52	3-	
	55	3	
60	59	4	
	11:02	3	
	05-	3-	
	09	3-	
	12	3	
65	15-	3-	
	19	3-	
	22	3	
	25-	3-	
	28-	3	
70	32	3-	
	41 47	3	CONN VRLG
	49	2	
	51-	2-	
	54	2-	
75	56-	2-	
	59	2-	
	12:01-	2-	
	04	2-	
	06-	2-	
80	09	2-	
	11-	2-	
	14	2-	
	16	2	
	19	3	
85	21	2	
	23-	2-	
	26	2-	
	29	3	
	31	2	
90	33	2	
	36	3	
	38-	2-	
	40-	2	
	43	2-	
95	45-	2-	
	48	2-	
	50	2	
	52-	2-	
	55	2-	
3400	57-	2-	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY Sullivan Corp FARM S. B. 12 WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Kedtjue Rig 6 SIZE HOLE 7 3/4 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 1 1/2

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3400	12:57		
1	1:00	2-	CONN-
	01		
	16	3	
	12-	2-	
	15	2-	
5	18	3	
	21	3	
	24	3	
	27	3	
	30	3	
10	33	3	
	36	3	
	39	3	
	42	3	
	45	3	
15	48	3	
	51	3	
	54	3	
	57	3	
	2:00	3	
20	03	3	
	06	3	
	09	3	
	12	3	
	15	3	
25	18-	3-	
	21-	3	
	25	3-	
	28	3	
	31	3	
30	33-	2-	
	36	2-	
	39	3	CONN-
	49		
	51-	2-	
	54	2-	
35	56-	2-	
	59	2-	
	3:02	3	
	04-	2-	
	07	2-	
40	10	3	
	12-	2-	
	15	2-	
	18	3	
	20-	2-	
45	23	2-	
	26	3	
	29	3	
	32	3	
	34	2	
3450	37	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3450	37		
51	39-	2-	
	42-	3	
	46	3-	
	49	3	
55	52	3	
	55	3	
	58	3	
	4:01	3	
	04	3	
60	07-	3-	
	11	3-	
	14	3	
	17	3	CONN-
	24		
	27	3	35 9.2
65	29	2	
	32	3	
	35	3	
	38	3	
	41	3	
70	43-	3-	
	46	2-	
	49	3	
	52	3	
	55	3	
75	58	3	
	5:01	3	
	04	3	
	07	3	
	10	3	
80	12-	2-	
	15	2-	
	18	3	
	21	3	
	25	4	
85	28	3	
	31	3	
	34	3	
	37	3	
	40	3	
90	43	3	
	47	4	
	50-	3-	
	54	3-	
	56-	2-	34 9.5
95	59-	3	CONN-
	6:02		
	10	2	Adding mud
	13	3	Jet - Adol Mud
	16	3	
	19	3	
3500	22	3	

ORIGINAL

COMPANY Schubert Co. FARM Suber WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Red Tiger #6 SIZE HOLE 7 3/4 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3500	6:22		Adding mud
	25	3	
	28	3	
	31	3	
	34	3	
05	37	3	
	40	3	
	43	3	
	46	3	
	49	3	
10	52	3	
	55	3	
	59	4	
	7:02	3	
	05	3	
15	08	3	
	11	3	
	14	3	
	17	3	
	20	3	
20	23	3	
	27	4	
	30	3	
	33	3	
	36	3	
25	38	2	
	41	3	
	44	3	
	54 56	2	
	58	2	
30	8:00	2	WAKE GFD OR
	02	2	GRANT
	8:00 02	2	Time Cont
	03	1	
	05	2	
35	09	4	
	12	3	
	15	3	
	19	4	
	23	4	
40	27	4	
	30	3	
	33	3	
	36	3	
	39	3	
45	42	3	
	45	3	
	50	5	
	52	2	
	54	2	
3550	57	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3550	57 57:01	4	
	05	4	
	09	4	
	13	4	
55	17	4	
	22	5	
	26	4	Conn Fill, Pre-mix
	33 37	4	
	41	4	
60	45	4	
	48	3	
	51	3	
	53 1/2	2 1/2	
	57	3 1/2	
65	10:00	3	
	02	2	
	03	1	
	05	2	
	06	1	
70	07	1	
	09	2	
	10	1	
	11	1	
	12	1	
75	15	3	
	17	2	
	21	4	
	25	4	
	29	4	
80	33	4	
	37	4	
	41	4	
	46	4	
	48	3	
85	51	3	
	53	2	
	56	3	
	59	3	Conn Jet #1
	05 11	3	add Mud
90	16	4	
	20	4	
	25	5	
	30	5	
	35	5	
95	39	4	
	42	3	
	44	2	
	50	2	
	53	2	
3600	56	3	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Schulz Corp FARM Sub A ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Kneel-Lynn Big 6 SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3600	5 12 8	4	
	02	2	
	04	2	
	07	3	
05	09	2	
	11	2	
	12	1	
	13	1	
	15	2	
10	14	1	
	18	2	
	21	3	
	23	2	
	25	2	
15	27	2	
	2 3/2	1 1/2	
	30	1 1/2	
	32	2	
	34	2	Conn
20	39 41	2	
	42	1	
	44	2	
	46	2	
	48	2	
25	50	2	
	53	3	
	57	4	
	1:02	5	
	07	5	
30	12	5	
	17	5	
	22	5	
	27	5	
	31	4	
35	35	4	
	39	4	
	43	4	
	48	5	
	52	4	
40	57	5	
	2:01	4	
	05	4	
	09	4	
	12	3	
45	15	3	
	18	3	
	21	3	
	25	4	
	28	3	
3650	33 37	4 1/2	QDN

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3650	37 1/2 42	4 1/2	
	47	5	
	51	4	
	54	3	
55	58 1/2	4	✓
	35 1/2	4	Dis 35
	6	4	Wt. 9.4
	9	3	
	13	4	
60	17	4	✓
	20	3	
	24	4	
	28	4	
	22	4	
65	35	3	✓
	39	4	✓
	43	4	
	46 1/2	3 1/2	
	50	3 1/2	
70	53	3	✓
	59 1:01	2	Set #1 Add Pressure
	4:08 1/2	2 1/2	to System 5
	6	2 1/2	
	8	2	40
75	10	2	
	11 1/2	1 1/2	
	13	1 1/2	
	15	2	
	17 1/2	2 1/2	
80	20 1/2	3	
	23 1/2	3	Conn
	34 37	3	
	40	3	
	42	2	
85	44	2	
	46 1/2	2 1/2	
	49	2 1/2	
	52	3	10
	54	2	
90	56 1/2	2 1/2	
	58 1/2	2	
	6:01	2 1/2	
	3	2	
	5 1/2	2 1/2	
95	8	2 1/2	
	10	2	
	12	2	
	13	1	
	14	1	
3700	15	1	WAKE GEO

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY

S. K. ...

FARM

S. K. ...

ORIGINAL

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY *Sumner*

STATE *KS*

CONTRACTOR *Red Tiger Big 6*

SIZE HOLE *7 1/4*

DRILL PIPE *4 1/2*

REMARKS:

SIZE PUMP LINERS *6*

LENGTH STROKE *14*

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3700	15	1	
1	16	1	
	17	1	
	18	1	
	19	1	
5	20	1	
	21	1	
	22	1	
	23	1	
	25	2	
10	28	3	
	31 1/2	3 1/2	
	35	3 1/2	
	40	42	<i>2- CONT</i>
	45	3	
15	48	2 1/2	
	51	3	
	53 1/2	2 1/2	
	56	2 1/2	
	59	3	
20	6:01	?	
	04	3	
	6	2	
	7	1	
	8 1/2	1 1/2	
25	10	1 1/2	
	11 1/2	1 1/2	
	13	1 1/2	
	15	2	
	17	2	
30	18 1/2	1 1/2	
	21	2 1/2	
	23 1/2	2 1/2	
	26 1/2	3	
	29	2 1/2	
35	32	3	
	35	3	
	37 1/2	2 1/2	
	41	3 1/2	
	44	3	
40	47	3	
	50	3	
	52	2	
	55 1/2	3 1/2	
	59	3 1/2	
45	57	2	<i>CONT</i>
	11	4	<i>wt. 9.3</i>
	15	4	<i>Vis 37</i>
	20	5	
	25	5	
3750	30	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3750	30	5	
51	35	5	
	39 1/2	4 1/2	
	45	5 1/2	
	49 1/2	4 1/2	
55	53 1/2	4	
	59	5 1/2	
	8:01	5	
	11	6	
	15	4	
60	20	5	
	24 1/2	4 1/2	
	29	4 1/2	
	34	5	
	40	6	
65	45 1/2	5 1/2	
	51	5 1/2	
	56	5	
	9:00	4	
	05	5	
70	08	3	
	10	2	
	14	4	
	20 1/2	6 1/2	
	26	5 1/2	
75	30	2	<i>CONT</i>
	33	"	
	37	"	
	42	3	
	50	6	
80	54	2	
	58	4	<i>wt. 9.24</i>
	10:23	5	<i>Vis. 38</i>
	9	6	
	14	5	<i>4.0</i>
85	20	6	
	27	7	
	33	6	
	39	6	
	11:00	3	
90	11-	5-	
	21	6-	
	27	6	
	33	6	<i>00</i>
	38-	5-	
95	43	4-	
	47	4	
	52-	5-	
	58	5-	
	12:04	6	
3800	10-	6-	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY

Sullivan Camp

FARM

Sulbera

ORIGINAL

WELL NO. 11-20

SEC. TWP. RGE. LOC.

COUNTY

Summer

STATE

Mo. S

CONTRACTOR

Medinger Big

SIZE HOLE

7 3/8

DRILL PIPE

4 1/2

REMARKS:

SIZE PUMP LINERS

6

LENGTH STROKE

14

322/278/2947

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3800	12:10		
1	16	5-	
	22	6	
	27	5	
	32	5	
5	38	6	
	53	5	CONN VRY
	1:00	5	
	06	6	
	12	6	
10	17	5	
	23	6	
	29	6	
	33-	4-	
	39	5-	
15	44-	4-	
	49-	5	
	53	3-	
	56	3	
	2:01	5	
20	05-	4-	
	10	4-	
	13	3	
	17	4	
	21	4	
25	24-	3-	
	28	3-	
	31	3	
	34	3	
	38	4	
30	43	5	
	47-	4-	
	52	4-	
	57	5	
	3:02	5	
35	08	6	
	16	8	CONN-
	24	5	
	33-	4-	
	37-	4	
40	41-	4	
	46	4-	
	50	4	
	54-	4-	
	59	4-	
45	4:04	5	
	02	4	
	12	4	
	16-	4-	
	20-	4	
3850	27-	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3850	4:27		
57	28-	4	
	33	4-	
	37	4	
	41	4	
55	45	4	
	48-	3-	
	52-	4	
	56-	4	
	5:00	3-	
60	04	4	
	08	4	
	11-	3-	
	11-	3	
	17-	3	
65	21-	4	
	26	4-	CONN-
	25	2	
	41	4	
	45	4	
70	49	4	
	53	4	
	57	4	
	6:01	4	
	04-	3-	
75	08-	4	
	12-	4	
	16	3-	
	20-	11-	
	24-	4	
80	28-	4	VIS 36 W.D. 9 1/2
	32	4	
	37	4	
	41-	4-	
	45-	4	
85	52	6-	
	56	4	
	7:05	9	
	12	7	
	17	5	
90	23	6	
	28	5	
	31	3	
	35-	4-	
	40	4-	
95	44	4	
	47	3	
	50	3	CONN-
	5:00	3	
	06	3	
3900	09	3	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY Schulkin Company FARM Subra ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Waukegan STATE IL
 CONTRACTOR Ben Tiger SIZE HOLE DRILL PIPE
 REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	3900	8:09		
		14	5	
		18	4	
		22	4	
		25	3	
	05	29	4	
		33	4	
		37	4	
		41	4	
		46	5	
	10	50	4	
		34	4	
		57	3	
		9:00	3	
		04	4	
	15	08	4	
		12	4	
		15	3	
		20	5	
		23	3	
	20	28	5	
		32	4	
		36	4	
		40	4	
		43	3	
	25	47	4	
		51	4	
		55-	4-	
		59-	4	
		10:02-	3	Conn
	30	12:16	4	
		20-	4-	
		24-	4	
		29	4-	
		33	4	
	35	37	4	
		41	4	
		45	4	
		49	4	
		53	4	
	40	57	4	
		11:01	4	
		05	4	
		10	5	
		14	4	
	45	18	4	
		23	5	
		27	4	
		31	4	
		35	4	
	3950	39	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
	3950	11:39	
		43	4
		47	4
		51	4
		55	4
	55	59	4
		12:03	4
		07	4
		11	4
		15	4
	60	49:53	4
		58	5
		1:04	6
		10	6
		14	4
	65	19	5
		24	5
		29	5
		35	6
		38-	3-
	70	42	3-
		44	2
		48	4
		53	5
		57	4
	75	2:01	4
		05	4
		08	3
		12	4
		15	3
	80	18	3
		22	4
		25	3
		29	4
		35	6
	85	40	5
		45	5
		51	6
		56	5
		3:00	4
	90	5	5
		15:19 1/2	4 1/2
		24	4 1/2
		29	5
		25	6
	95	40	5
		45	5
		50	5
		55-	5-
		4:0 1/2	5 1/2
	4000	6	5 1/2

Get volume to displace

45115 E. 9' cut 4" 2017
8.5' cut 6" 2017

90

Conn

wt. 8.9
U:5 #8

1.09 CM H#

ORIGINAL

COMPANY Sullivan Corp FARM Subert WELL NO. 11-70
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE K.S.
 CONTRACTOR Red Tiger Mfg Co SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4000	6 11	5	
1	17	6	
	22 1/2	5 1/2	
	29	5 1/2	
5	35	7	
	41	6	
	46	5	
	48	2	
	50	2	
10	55	5	
	5:00	5	
	6:09	4	
	8	4	
	13 1/2	5 1/2	
15	18 1/2	5	
	22 1/2	4	
	30	7 1/2	
	37	7	
	43 1/2	6 1/2	
20	51	7 1/2	
	57	6	
	6:00	5	
	8	2	CONN
	12	2	
25	16	4	wt. 8.8
	27 1/2	1 1/2	Vis 4lb
			LCM 2#
	36	8 1/2	
	42	4 1/2	
30	47	3 1/2	
	47 1/2	3 1/2	
	51	5 1/2	
	55	4	
	58 1/2	3 1/2	
35	7:02	3 1/2	
	6	4	
	10	4	
	13	3	
	17	4	
40	21	4	
	24	3	
	28	4	
	31	3	
	31	3	
45	37	3	
	42 1/2	5 1/2	
	47	4 1/2	
	54	7	
	8:00	9	4 Harts
4050	13 1/2	4 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4050	13 1/2	4 1/2	
51	18	4 1/2	
	24	6	
	28	4	
	34-37	3	CONN
55	40	3	
	43	3	
	45 1/2	2 1/2	
	48	2 1/2	
	50	2	
60	56	6	
	9:02	6	
	7 1/2	5 1/2	
	14	6 1/2	
	20	6	
65	26	6	
	33 1/2	7 1/2	
	40 1/2	7	
	46 1/2	6	
	53	6 1/2	wt. 8.9
70	59	6	Vis 4lb
	10:04	5	LCM 2#
	8 1/2	4 1/2	
	14	5 1/2	
	20	6	
75	24 1/2	4 1/2	
	29 1/2	4	
	36 1/2	8	
	45 1/2	7	
	52	8-	
80	56	11	
	57	3	
	11:01	2-	
	04	2-	
	12 1/2	1-	CONN
85	21-	3	
	24-	3	
	28	3-	
	31	3	
	34-	3-	
90	37-	3	
	41	3-	
	45	4	
	48	3	
	51	3	
95	55	4	
	59	4	
	12:03-	4-	
	07-	4	
	12	4-	
4100	17	5	

COMPANY Sullivan FARM Sullivan ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sullivan STATE KS
 CONTRACTOR Hediger High SIZE HOLE 7 3/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4/100	12:17		
1	21	4	
	25-	4-	
	30	4-	
	34	4	
5	38	4	
	43	5	
	48	5	
	52	4	
	56	4	
10	1:00	4	
	04-	4-	
	09	4-	
	14	5	
	18	4	CONN-
15	23 29	4	
	32-	3-	
	36-	4	
	40-	4	
	44	3-	
20	47	3	
	52	5	
	59	7	
	2:03-	4-	
	08	4-	
25	12-	4-	
	17	4-	
	21	4	
	23-	2-	
	25-	2-	
30	27	1-	
	29	2	
	32	3	
	35	3	
	41	6	
35	46-	5-	
	52-	6	
	56	3-	
	58-	2-	
	3:01	2-	
40	04	3	
	10	6	
	14	4	
	18	4	
	23	5	
45	30	7	
	36-	6-	CONN-
	42 48	3	
	51-	3-	
	54-	3	
4/150	57	2-	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4/150	3:57		
57	4:01	4	
	05	4	
	08	3	
	12	4	
55	16	4	
	18-	2-	
	22	2-	
	26-	4-	
	31	4-	
60	35	4	
	39	4	
	43	4	
	46	3	
	50	4	
65	55	5	
	5:00	5	
	08-	8-	
	13-	5	
	18-	5	
70	24-	6	
	29	4-	
	33	4	
	37	4	
	41	4	
75	44-	3-	
	48-	4	
	52-	4	CONN-
	6:01 05	4	
	08-	3-	
80	12-	4	
	16	3-	
	19	3	
	22	3	
	26	4	
85	30	4	48 VIS 9.0 out
	35	5	2#CCM
	39-	4-	
	43-	4	
	47	3-	
90	50	3	
	54	4	
	59	5	
	7:04	5	
	08	4	
95	12	4	
	17	5	
	21	4	
	24	3	
	27-	3-	
4/200	31	3-	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Schmidt FARM Subarea WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE ORIGINAL
 CONTRACTOR Wood-Logan Higs SIZE HOLE 7 1/2 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4200	31	3	
	34	3	
	37	3	
	40	3	
	43	3	
5	47	4	
	51	4	
	55	4	
	59	4	Conn-Rig ✓
	8:10	3	
10	16	3	
	20	4	
	25	5	
	28	3	
	32	4	
15	37	5	
	41	4	
	44	3	
	48	4	
	52	4	
20	55	3	
	59	4	
	9:03	4	
	07	4	
	11	4	
25	14	3	
	18	4	
	21	3	
	24	3	
	28	4	
30	31	3	
	34	3	
	38	4	
	43	3	
	48	5	
35	54	6	
	10:00	6	
	05	5	
	11	6	
	16	5	
40	21	5	Conn
	30	5	
	42	7	
	47	5	
	52	5	
45	57	5	
	11:01	4	
	05	4	
	11	6	
	15	4	
4250	19	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4250	19	2	
	21	2	
	25	4	
	30	5	
	32	2	
55	35	3	
	37	2	
	40	3	
	43	2	
	46	3	
60	49 1/2	3 1/2	
	53	3 1/2	
	56	3	Cut
	58	2	
	12:01	2	10' of
65	04	2	drilling break
	08	4	Conn 30
	13	5	1/2
	18	5	
	23	5	
70	26	3	
	31	5	Conn - get's clear
	44	4 1/2	
	49	2	
	51	2	
75	52	1	
	54	2	
	55	1	
	56 1/2	1 1/2	
	59	1 1/2	
80	1:01	3	15-30-45-60
	55	2	
	59	2	
	2:01	-	
	04	3	
85	06	2	
	07	1	
	08	1	
	10	2	
	13	3	
90	14	1	
	15	1	
	16	1	
	17	1	
	18	1	
95	20	2	
	21	1	
	24	3	
	27	3	
	31	4	
4350	36	5	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

ORIGINAL

COMPANY Schmidt Corp FARM Suber WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sevier STATE Tenn
 CONTRACTOR Red-tiger Pgs 6 SIZE HOLE 7 3/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4300	7:45	9	
	53	7 1/2	
	3:00	7	wt. 9.1
	10:17 1/2	7 1/2	CONN ULS 43
05	26 1/2	9	
	35	8 1/2	
	43	8	
	51	8	
	400	9	
10	7	7	
	16	9	
	28	12	
	41	13	
	53	8	Fill Premier tank w/ Pit Mud
15	14	13	
	27	13	
	41	14	
	55	14	
	6:10	15	
20	23	13	
	38	15	
	49	11	WT. 8.9
	7:02	13	Uls 4.8
	15	13	LCM. 1 1/2 #
25	30	15	
	44	14	
	59	14	
	4:15	9	OK note
	23	10	
30	29 1/2	6 1/2	
	35	5 1/2	
	40	5	Bank
	41	1	
	42	1	
35	43	1	CONN
	50	1	
	51	1	
	52	1	
	53	1	
40	54	1	
	57	3	x
	9:00	3	Hourly
	3	3	
	4	1	
45	12	12	
	6	11 1/2	
	7	1	
	8	1	
	9	1	
4350	10	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4350	10	1	
	11	1	
	12	1	
	13	1	
	14	1	
SS	12	1/2	
	15	1/2	
	16	1	
	17	1	
	19	2	
60	21	2	
	22	1	
	23	1	
	24	1	
	31 1/2	7 1/2	
65	38	6 1/2	wt. 9.1
	44 1/2	6 1/2	Uls 4.5
	51	6	CONN LCM 1 #
	10:04	7	
	12	8	
70	15 1/2	7 1/2	
	26 1/2	7	
	36	9 1/2	
	44	8	
	51	7	
75	59	8	
	11:07	7-	
	16	8-	
	23	7	
	30-	7-	
80	37-	7	
	44-	7	
	52	7-	
	12:00	8	
	08	8	
85	15	7	
	24	9	
	33-	9-	
	42	8-	
	51	9	
90	59	8	
	1:10	11	
	22-	11-	
	37-	15	
	53	15-	
95	2:06	13	
	20	14	
	36	16	CONN - V RIG
	54	12	FILL PREMIER
	20	14	
4400	35	15	

ORIGINAL

COMPANY Schubert Co. FARM Embree WELL NO. 1-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Red Taper SIZE HOLE 7 1/8 DRILL PIPE
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4400	3:33		
	56	21	
	16	20	
	36	20	
	55	19	
05	5:15	20	
	36	21	
	58	22	
	6:15	17	
	35	20	
10	44	9	
	54	10	
	7:08	12	
	21	13	
	33	12	
15	44	11	
	49	5	
	8:00	11	
	10	10	
	20	10	
20	27	7	
	39	12	
	49	10	
	59	9	
	9:07	10	
25	16	9	
	24	8	
	32	7	
	41	9	
	49	8	
30	10:03	11	
	19	8	
	27	8	
	35	6	
	42	9	
35	52	10	
	1:00	8	
	09	9	
	17	8	
	25	8	
40	33	8	42 VIS 9.1 WT 17.2
	39	6	18,000 GAL 4" LCM
	46	7	
	52	6	
	59	6	
45	12:06	7	
	13	7	
	21	7	
	29	8	BIT TRIP
	35	6	
4450	6:04	5 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4450	6:09		
	10	6	
	16	6	
	22	6	
	29	7	
55	36	7	
	43	7	
	50	7	
	56	6	
	7:03	7	
60	10	7	
	16 1/2	6 1/2	
	23 1/2	7	
	31	5	CONN Jct Hole Adcb
	42	6	Premix to system
65	49	7	
	53	6	
	8:07	5	Conn Hants
	13 1/2	6 1/2	WT. 9.2
	20	6 1/2	VIS. 20
70	25	5	LCM. 2#
	30	5	
	35	5	
	40	5	
	45	5	
75	50	5	
	54	4	
	59	5	
	9:00	4 1/2	
	9:00	4 1/2	
80	10	6 1/2	
	20	5	
	28 1/2	6	
	35	6	
	41 1/2	6 1/2	
85	48	6 1/2	WT. 9.3 Premix in
	55	7	VIS 20
	10:00	7	LCM 2 1/2 #
	9	7	
	15	6	
90	22	7	
	29	7	
	35	6	
	43 1/2	7 1/2	
	11:09	4	CONN V RIG
95	14	5	
	21	6	
	26	5	
	30	4	
	34	4	
4500	39	4	

ROTARY DRILLING TIME SHEETS
Russell Record Print, Russell, Kan.

COMPANY Schulz Co. FARM Subera ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Ks
 CONTRACTOR Red Tiger 6 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4500	11:39		
	44	5	
	49	5	
	54	5	
	59	5	
05	12:04	5	
	09	5	
	14	5	
	19	5	
	24	5	
10	29	5	
	34	4	
	39	5	
	44	5	
	50	5	
15	55	5	
	1:00	5	
	06	5	
	13	7	
	18	5	
20	25	7	
	32	7	
	38	5	
	44	6	
	51	6	corr-
25	2:00 04	4	Adding mud
	10	6	
	17	7	
	23	6	
	30	6	
30	36	6	
	42	6	
	48	6	
	54	6	
	3:01	7	
35	07	6	
	13	6	
	19	5	
	24	5	
	30	6	
40	35	5	
	40	5	mud - kn
	45	5	
	50	5	cps
	4:00 06	6	
45	12	6	
	18	6	
	25	6	
	34	9	
	42	6	
4550	49	7	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4550	4:19		
	57	8	
	5:06	8	
	13	7	
	19	6	
55	26	7	
	31	7	conn - Air out pump
	39 44	5	
	48	4	
	54	6	
60	6:00	6	
	06	5	
	10	4	
	15	5	
	20	5	
65	24	4	
	29	4	
	33	4	
	38	5	
	45	6	
70	52	7	
	58	6	
	7:02	4	
	07	5	
	11	4	
75	16	5	
	21	5	
	27	4	
	31	4	
	42	9	
80	47	5	
	55	5	
	8:00	5	
	07	7	
	8:02 09	7	Time Corr
85	17	8	
	25	8	
	33	8	conn - Rig ✓
	45 50	5	
	55	5	
90	59	4	
	9:03	4	
	08	5	
	12	4	
	17	5	
95	22	5	
	26	4	
	32	6	10
	37	5	
	41	4	
4600	45	4	

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Sullivan Co. FARM 5.1 ORIGINAL WELL NO. 11-20
 SEC. 1 TWP. 19E RGE. 10E LOC. 10E COUNTY W STATE K
 CONTRACTOR Red Tigue SIZE HOLE 7" DRILL PIPE 4"
 REMARKS: SIZE PUMP LINERS 2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4600	9:45	3	
	52	4	
	55	3	
	57	2	
05	10:00	3	
	10:02	2	
	05	3	
	08	3	
	12	4	
10	16	4	
	20	4	
	25	5	
	30	5	
	36	6	
15	42	6	
	49	7	
	55	6	
	11:02	7	
	09	7	Conn
20	11:23	6	
	30	7	
	36	6	
	43	7	
	47	4	
25	52	5	
	57	5	
	11:55	4	
	06	5	
	12	6	
	17	5	
	24	6	
	29	4	
	34	5	
	40	6	
35	45	5	
	50	5	
	56	6	
	1:01 1/2	5 1/2	
	07	6 1/2	
40	12	5	
	18	6	
	23	5	
	29	6	
	35	6	
45	40	5	
	46	6	
	52	6	
	57	5	
	2:04	3	
4650	.09	5	Conn

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4650	2:17	5	START 5' SPLS
	31	9	
	44	13	
	49 1/2	5 1/2	
55	55	5 1/2	
	3:00	5	
	6	6	
	12 1/2	6 1/2	
	18	5 1/2	
60	23	5	
	29	6	
	35	6	
	40	5	
	46	6	
65	51	5	
	56 1/2	5 1/2	
	4:02	5 1/2	
	11 1/2	9 1/2	
	18	6 1/2	
70	23 1/2	5 1/2	
	29 1/2	6	
	36	6 1/2	
	42	6	
	48 1/2	6 1/2	
75	57	8 1/2	
	5:03	6	
	10	7	
	15	5	
	21 1/2	6 1/2	
80	29	6 1/2	
	40 1/2	11 1/2	WT. 9.2 + LCM 3"
	6:03	2 1/2	UIS 44
	21 38 1/2	17 1/2	CONN 15 30 5 5 60
	56	17 1/2	
85	8:21	20	CHANTS
	41	20	
	9:10 1/2	19 1/2	
	21	20 1/2	WT. 9.2
	41	20	UIS 50
90	49	8	LCM 4"
	53 1/2	4 1/2	
	58	4 1/2	
	10:02	4	WT. 9.6, UIS, 48, LCM 2"
	6	4	15' 60" CFS
95	11:39	4-	
	34	4-	
	38	4	
	42-	4-	
	46-	4	
4700	51	4 1/2	30 & 60 CFS

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

COMPANY Sehrein Corp FARM Sub 12 ORIGINAL WELL NO. 11-20
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE KS
 CONTRACTOR Rediger No. 6 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14'



DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	4700 1	1:01 06	5	
		10	4	
		15	5	
		18-	3-	
	5	22	3-	
		26-	4-	
		32	5-	CFS 30"-60" min
	2:40 47		7	
		53-	6-	
	10	3:00-	7	
		09	8-	
		16	7	
		22-	6-	conn - CFS 30"-60"
	4:15 45-		4	
	15	51	5-	
		55-	4-	CFS 60"
	1:27 32		4-	
		36	4	
		41	5	CFS 45" & 90"
	20	4:05 10	5	
		14	4	
		17-	3-	
		21	3-	
		25	4	
	25	28-	3-	
		32	3-	CFS 45" & 75"
	36 35		2	
		40	2	
		42	2	
	30	44	2	Continue 5' Spld
		46	2	to R70
		48	2	
		50	2	
		52	2	
	35	54	2	
		56	2	
		59	3	
		2:02	3	
		06	4	
	40	09	3	
		12	3	
		16	4	
		18	5 ??	conn - Short
	23 36		3	
	45	28	2	
		30	2	
		34	4	
		36 1/2	2 1/2	
		41	4 1/2	
	4730	43 1/2	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
	4750 51	43 1/2 47	3 1/2
		51	4
		54 1/2	3 1/2
		58	3 1/2
	55	3:01	3
		4	3
		6 1/2	2 1/2
		10	3 1/2
		13	3
	60	17	4
		21	4
		24 1/2	3 1/2
		29	4 1/2
		33 1/2	4 1/2
	65	3:01 4	3
		9	5
		14	5
		19 1/2	5 1/2
		24	4 1/2
	70	28	4
		32	4
		37	5
		43	6
		48	5
	75	56 59	3
		9:03	4
		7	4
		12	5
		8	6
	80	2:42 6 1/2	6 1/2
		29 1/2	5
		33 1/2	4
		37	3 1/2
		42	5
	85	46 1/2	4 1/2
		51 1/2	5
		58	6 1/2
		10:07	9
		15	8
	90	23	8
		30	9
		39	7
		45	6
		51	6
	95	57 1/2	6 1/2
		11:04	6-
		10-	6-
		18-	8
		26	7-
	4800	32	6-

ROTARY DRILLING TIME SHEETS
 Russell Record Print, Russell, Kan.

