

ORIGINAL

SIDE ONE

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

City/State/Zip Denver, CO 80203

Purchaser: NCRA

Operator Contact Person: Robert Schulein

Phone (303) 839-5495

Contractor: Name: Red Tiger Drilling-

License: 5302

Wellsite Geologist: Terry McLeod

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abandonment

Gas Inj Delayed Completion

Dry Other (Core, Water Supply, etc.)

If **OWO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

11-13-89 11-21-89 1-7-90
Spud Date Date Reached TD Completion Date

API NO. 15- 191-22,139-00-00

County Sumner

C NE SW Sec. 16 Twp. 34 S Rge. 4W XX East West

1980 Ft. North from Southeast Corner of Section

3300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

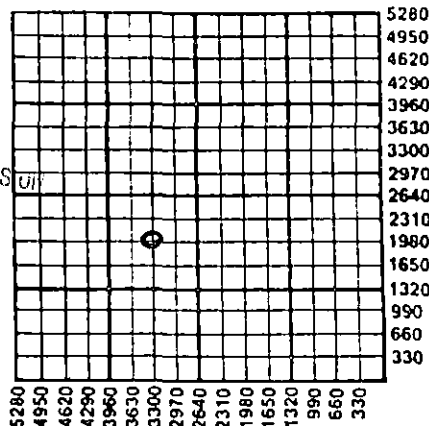
Lease Name Kolarik Well # 11-16

Field Name Bluff Field

Producing Formation Mississippian

Elevation: Ground 1233' KB 1238'

Total Depth 4447 PBTD 4445'



ACT I

RECEIVED
 STATE CORPORATION COMMISSION
 JAN 29 1990
 1-29-90
 OIL CONSERVATION DIVISION
 WICHITA, KANSAS

Amount of Surface Pipe Set and Cemented at 309 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 1-25-90
 Robert Schulein, General Partner

Subscribed and sworn to before me this 25 day of January, 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
 C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

91

SIDE TWO

Operator Name Schulein Company Lease Name Kolarik Well # 11-16
 Sec. 16 Twp. 34 Rge. 4W 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.)
 Ran Sonic Cement Bond Log
 (copy enclosed)

Formation Description		
	<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample
Name	Top	Bottom
White Cloud	2323'	(-1085)
Topeka	2657'	(-1419)
Heebner	3031'	(-1793)
Stalnaker	3408'	(-2170)
Lansing	3733'	(-2495)
Base K.C.	3976'	(-2738)
Marmaton	4052'	(-2814)
Cherokee Sh.	4196'	(-2958)
Mississippi	4418'	(-3180)

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

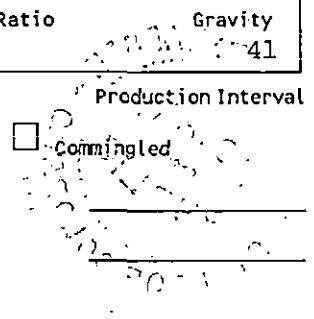
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/2	8 5/8	20#	309	60/40 poz	180	2% gel, 3%cc
production		5 1/2	14#	4441	common	100	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
	None	None	

TUBING RECORD Size 2-3/8" Set At 4406' Packer At none Liner Run Yes No

Date of First Production 1-8-90 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours: Oil 20 Bbls. BO, Gas 0 Mcf, Water 100 Bbls. BW, Gas-Oil Ratio 0, Gravity 41

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____



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

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

ORIGINAL

ALLIED CEMENTING CO., INC.

No. 6146

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	11-13-89	Sec.	11e	Twp.	34	Range	4	Called Out	11:00 A.M.	On Location	3:30 P.M.	Job Start	8:30 P.M.	Finish	9:45 P.M.
Lease	Kolarik	Well No. #	11-11e	Location	Argonia, 12 1/2 S, E Linto			County	SUMNER	State	KS				

Contractor		Red Tiger Rig #1	
Type Job	Surface		
Hole Size	12 1/4"	T.D.	309'
Csg.	8 5/8"	Depth	309'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	19 bbb
Perf.			

Owner	Same		
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Charge To	Schulein Co.		
Street	1776 Lincoln St. # 811		
City	Denver	State	Colo. 80203
The above was done to satisfaction and supervision of owner agent or contractor			
Purchase Order No.	X <i>E. H. Hyder</i>		
CEMENT			

EQUIPMENT

#	No.	Cementor	Tim
Pumptrk	103	Helper	Mike M.
#	No.	Cementor	
Pumptrk		Helper	
#	No.	Driver	Mike H.
Bulktrk	111e	Driver	

Amount Ordered	180 sks ⁶⁰ / ₄₀ 3 3/4 cc, 296 gal,		
Consisting of			
Common	108	5.00	540.00
Poz. Mix	72	2.25	162.00
Gel.	4	6.75	27.00
Chloride	5	20.00	100.00
Quickset			

DEPTH of Job		
Reference:	Pumptrk Charge	360.00
	Pumptrk Mileage	60.00
1	2 5/8" wooden Plug	40.00
	Sub Total	
	Tax	
	Total	460.00

Handling	180	90	162.00
Mileage	60		324.00
		Sub Total	
		Total	1315.00

Remarks: Ran 309' of 8 5/8" csg. Mixed 180 sks ⁶⁰/₄₀ 3 3/4. Pumped Plug to 296' with Fresh Water. Cement Did Circulate, Circulated Cement Before Releasing Plug

Floating Equipment	
TOTAL	\$ 1775.00
Disc -	355.00
	\$ 1420.00

THANK YOU!

COMPANY Schulain Co.

FARM Kelarik

WELL NO. 11-16

SEC. TWP. RGE. LOC.

COUNTY Sumner

STATE Kansas

CONTRACTOR Red Tiger Drlg. Co. #

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 14

DATE 11-16-89 AM

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2100	01:43		
	44	1	
	45	1	
	46	1	
	47	1	
05	48	1	
	49	1	
	50	1	
	51	1	
	52	1	
10	53	1	
	54	1	
	55	1	
	57	2	
	58	1	
15	59	1	
	7:01	2	Conn + Rig
	03/24	1	
	25	1	
	26	1	
20	27	1	
	28	1	
	30	2	
	31	1	
	32	1	
25	33	1	
	36	3	
	40	4	
	43	3	
	44	1	
30	45	1	
	46	1	
	48	2	
	49	1	
	50	1	
35	52	2	
	53	1	
	54	1	
	55	1	
	57	2	
40	58	1	
	6:05/07	2	
	9	2	
	11	2	
	12	1	
45	14	2	
	16	2	
	18	2	
	20	2	Conn
	24/25	1	
2150	26	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2150	26		
	27	1	
	28	1	
	30	2	KCC
	32	2	
55	33	1	
	34	1	
	35	1	
	36	1	
	37	1	
60	38	1	
	39	1	
	40	1	
	41	1	
	42	1	
65	43	1	
	44	1	
	45	1	
	46	1	
	47	1	
70	48	1	
	49	1	
	50	1	
	51	1	
	52	1	
75	53	1	
	54	1	
	55	1	
	56	1	
	58	2	
80	9:03/4	1	Conn 2179
	5	1	
	6	1	
	7	1	
	8	1	
85	9	1	
	10	1	
	11	1	
	12	1/2	
	12	1/2	
90	13	1	
	14	1	
	15	1/2	
	16	1	
95	17	1	
	18	1	
	19	1	
	20	1	
	21	1	
2200	22	1	

RECEIVED
 STATE CONSERVATION COMMISSION
 JAN 29 1990
 CONSERVATION DIVISION
 Topeka, Kansas

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

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE _____
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE 11-16-89 AM

DEPTH	TIME O'CLOCK	MIN.	REMARKS
200	9:22		
	23	1	
	24	1	
	25	1	
	26	1	
5	27	1	
	28	1	
	29	1	
	30	1	
	31	1	
10	32	1	CONN-2210
	35/36	1	
	37	1	
	38	1	
	39	1	
15	40	1	
	41	1	
	43	2	
	46	3	
	50	4	5 Auto drill
20	52	2	1st hole bit
	54	2	
	56	2	
	58	2	
	59	1	
25	10:00	1	
	02	2	
	4	2	
	6	2	
	7	1	
30	9	1	
	10	2	
	11	1	
	13	2	
	14	1	
35	15	1	
	17	2	
	18	1	
	19	1	
	21	2	
40	22	1	
	23	1	
	25	2	Could not remove 1'
	11:00/02	2	1' cut 1'
	4	2	
45	6	2	
	8	2	
	10	2	
	12	2	
	14	2	
2250	17	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2250	11:17		
	18	1	
	20	2	
	22	2	
	24	2	KCC
55	26	2	
	28	2	
	30	2	
	33	3	
	35	2	
60	37	2	
	38	1	
	39	1	
	40	1	
	41	1	
6.5	42	1	
	44	2	
	45	1	
	46	1	
	48	2	
70	50	2	
	53	3	
	55	2	
	58	3	Could
	12:00/03	1	
75	05	2	
	7	2	
	10	3	
	12	2	
	14	2	
80	16	2	
	18	2	
	20	2	
	22	2	
	24	2	
85	27	3	
	29	2	
	31	2	
	34	3	
	36	2	
90	38	2	
	41	3	
	43	2	
	45	2	
	47	2	
95	49	2	
	51	2	
	53	2	
	55	2	
	57	2	
2300	1:00	3	

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

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE _____
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2300	11:00		
	03	3	Start 10 ft
	6	3	lost 1 dry sample
	8	2	
	11	3	Conn
05	16/17	1	
	20	3	
	22	2	
	25	3	
	27	2	
10	29	2	
	31	2	
	32	1	
	35	3	
	37	2	
15	40	3	
	42	2	
	45	3	
	47	2	
	49	2	
20	51	2	
	53	2	
	55	2	
	57	2	
	59	2	
25	2:02	3	
	05	3	
	07	2	
	09	2	
	11	2	
30	14	3	
	16	2	
	18	2	
	21	3	
	23	2	
35	27	4	Conn
	32/33	1	
	34	1	
	36	2	
	37	1	
40	39	2	
	41	2	
	42	1	
	44	2	
	45	1	
45	47	2	
	49	2	
	50	1	
	52	2	
	54	2	
50	55	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS	
2350	54			
	57	3		
	58	1		
	3:00	2		
	02	2	KCC	
x 55	03	1		
	05	2		
	07	2		
	08	1		
	10	2		
x 60	11	1		20' wet & dry
	13	2		
	15	2		
	17	2		
	19	2		
65	21	2		
	24	3	Conn	
	39/40	1		
	41	1		
	42	1		
70	43	1		
	45	2		
	46	1		
	48	2		
	50	2		
75	52	2		
	53	1		
	54	1		
	55	1		
	56	1		
80	57	1		
	58	1		
	59	1		
	4:00	1		
	02	2		
85	03	1		
	04	1		
	06	2		
	08	2		
	11	3		
90	12	1		
	15	3		
	17	2		
	18	1		
	19	1		
95	21	2		
	22	1		
	24	2		
	26	2	Conn 2698	
	32/33	1		
2400	35	2		

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. _____ COUNTY _____ STATE _____
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	2460	4:35	2	
		4:37	3	
		40	2	
		42	2	
		44	2	
	05	47	3	
		50	3	
		52	2	
		54	2	
		57	3	
	2410	59	2	
		5:02	3	
		04	2	
		07	3	
		09	2	
	15	12	3	
		14	2	
		17	3	
		19	2	
		22	3	
	2400	24	2	
		27	3	
		29	2	
		32	3	
		34	2	
	65	36	2	
		39	3	
		42	3	
		44	2	
		46	2	Conn 2429
	2420	55	2	
		59	2	
		6:01	2	
		03	2	
		06	3	
		09	3	
		14	5	
		16	2	
		18	2	
		21	3	
	2400	24	3	
		27	3	
		29	3	
		30	3	
		33	3	
		36	3	
	45	38	2	
		41	3	
		44	3	
		47	3	
		49	2	
	2450	51	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2460	51	2	
	55	2	
	57	2	KG G
	59	2	
	7:01	2	
	02	1	
	03	1	
	05	2	
	07	2	Conn 2459
2460	12	2	
	17	2	
	20	3	
	22	2	
	25	3	
	27	2	
	29	2	
	32	3	
	35	3	
	39	4	
2070	42	3	
	44	2	
	46	2	
	47	1	
	48	1	
75	40	1	
	51	2	
	53	2	
	54	1	
	55	1	
2420	57	2	
	58	1	
	59	1	
	8:02	3	
	06	4	
80	09	3	
	12	3	
	15	3	
	10	4	
	23	4	Straight hole 10
2400	27	4	Conn 2490
	9:03	2	
	7	2	
	9	2	
	12	3	
	15	2	
95	19	2	
	19	4	
	20	4	
	22	5	
	30	5	
2500	37	4	

FARM Holarik WELL NO. 11-16

COMPANY Schweilin Co. COUNTY Sumner STATE Kansas

SEC. TWP. RGE. LOC. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

CONTRACTOR Red Tiger Drilling Co #1 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-16-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2500	9:31	2	
	42	3	
	46	4	
	48	2	
05	52	2	
	55	3	
	58	3	
	10:01	3	
	04	3	
10	07	3	
	10	3	
	13	2	
	15	2	
	18	3	
15	19	1	
	21	2	
	22	1	
	24	2	
	25	1	
20	28	3	
	30	2	CON 2501
	39	1	
	41	2	
	43	2	
25	46	3	
	47	1	
	49	2	
	51	2	
	53	2	
30	55	2	
	57	2	
	58	1	
	11:00	2	
	02	2	
35	04	2	
	06	2	
	08	2	
	09	1	
	12	3	
40	14	2	
	16	2	
	19	3	
	21	2	
	23	2	
45	25	2	
	27	2	
	29	2	
	31	2	
	34	3	
50	36	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2500	11:36	3	
	42	3	
	45	3	
	58	59	CON 2503
55	12:00	1	Vclg
	01	1	
	02	1	
	03	1	
	04	1	
60	05	1	
	06	1	
	08	2	
	10	2	
	13	2	
65	13	1	
	15	2	
	16	1	
	18	2	
	20	2	
70	21	1	
	23	2	
	24	1	
	25	1	
	27	2	
75	29	2	
	31	2	
	33	2	
	35	2	
	38	3	
80	40	2	
	44	6	
	50	4	
	53	3	
	58	5	CON 2504
85	11:55	4	Jet
	21	2	
	23	2	
	25	2	
	27	2	
90	28	1	
	30	2	
	32	2	
	34	2	
	36	2	
95	38	2	
	39	4	
	48	4	
	49	2	
2600	49	2	

KGC

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

COMPANY Schleifer Co. FARM Kolach WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Summer STATE Kansas
 CONTRACTOR Red Tiger Drly Co #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-17-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2600 01	1:14 1:12	2	
	1:14	2	
	1:13	1	
	1:12	1	
05	1:11	1	7
	1:10	2	
	0:8	1	
	0:6	1	
	0:5	1	
10	0:4	1	4
	0:3	1	
	0:2	1	
	0:1	1	
15	5:8	1	5
	5:7	1	Conn 2616
	5:00 6:11	1	
	6:2	1	
	6:3	1	
20	6:4	1	5
	6:5	1	
	6:7	2	
	1:0	3	
25	1:3	3	11
	1:8	3	
	1:0	3	
	1:1	3	
	1:3	2	
30	2:8	3	13
	3:0	2	
	3:1	2	
	3:3	2	
	3:5	2	
35	3:7	2	9
	3:9	2	
	4:1	2	
	4:3	2	
	4:4	1	
40	4:6	3	9
	4:7	1	
	4:9	2	
	5:1	2	
	5:3	2	
45	5:6	3	10
	5:9	3	
	4:01	2	Conn 2647
	4:10	2	
2650	1:5	2	10

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2650 51	4:15 4:17	2	
	4:19	2	
	4:24	5	WT 9.6
	4:29	5	
55	4:33	4	18
	4:36	3	
	4:42	6	
	4:48	4	
	5:4	6	
60	5:10	6	25
	5:09	7	
	1:4	7	
	2:0	6	
	2:5	6	
65	2:8	3	28
	3:3	4	
	3:9	5	
	4:1	3	
	4:5	3	
70	4:8	3	19
	5:1	3	
	5:5	4	
	5:9	4	
75	6:04	5	19
	1:1	4	
	1:5	4	
	2:1	5	
	6:37 6:30	3	Conn 2678
80	3:3	3	19
	3:6	3	
	3:9	3	
	4:2	3	
	4:5	3	
85	4:8	3	15
	5:1	3	
	5:4	3	
	5:7	3	
	7:00	3	
90	3:4	3 1/2	15 1/2
	6:1/2	3	
	9	2 1/2	
	12	3	
	14	2	
95	1:6	2	12'
	1:9	3	
	2:1	2	
	2:3	2	
	2:5	2	
2000	2:7	2	11

KGG

11/17/89
2695

COMPANY Schulein Co. FARM Kolarie WELL NO. 11-16

SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas

CONTRACTOR Red Tiger Drly. Co. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-17-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2700	27		
01	29	2	
	31	2	
	32	1	
	34	2	
05	36	2	
	37	1	
	39	2	
	41	2	
	44	3	
10	46	2	Conn 2710
	47	1	
	48	1	
	49	1	
	50	1	
15	51	1	
	52	2	
	53	2	
	54	3	
	55	2	
20	56	3	
	57	2	
	58	4	
	59	3	
	59	3	
25	59	3	
	59	3	
	59	3	
	59	3	
	59	3	
30	59	3	
	59	3	
	59	3	
	59	3	
	59	3	
35	59	3	
	59	3	
	59	3	
	59	3	
	59	3	
40	59	3	
	59	3	
	59	3	
	59	3	
	59	3	
	59	3	
45	59	2	
	59	2	
	59	2	
	59	2	
	59	2	
2750	59	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2750	39		
51	42	3	
	44	2	
	46	2	
	48	2	
55	51	3	
	53	2	
	56	3	
	58	2	
	10:00	2	
60	03	3	
	05	2	
	08	3	
	10	2	
	12	2	
65	15	3	
	16 1/2	1 1/2	
	18 1/2	2	
	21	2 1/2	
	24	3	
70	27	3	
	29	2	
	32	3	
	36	4	CONN - 2723
	40/12	2	
75	45	3	
	46 1/2	1 1/2	
	48 1/2	2	
	50	1 1/2	
	52	2	
80	53	1	
	55	2	
	57	2	
	59	2	
	11:01	2	
85	2	1	
	4	2	
	6	2	
	7	1	
	9	2	
90	10	1	
	12	2	
	13	1	
	15	2	
	16	1	
95	18	2	
	19	1	
	21	2	
	22	1	
	24	2	
2800	26	2	

KCC

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

COMPANY _____ FARM _____ WELL NO. _____

SEC. _____ TWP. _____ RGE. _____ LOC. _____ COUNTY _____ STATE _____

CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____

REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE _____

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800	11:26		
	28	2	
	30	2	
	31	1	
	32	1	Conn 2804
5	38/39	1	
	40	1	
	41	1	
	42	1	
	43	1	
10	44	1	
	46	2	
	47	1	
	49	2	
	51	2	
15	53	2	
	54	1	
	55	1	
	56 1/2	1 1/2	
	1/2	1/2	
20	57	1/2	
	5	1/2	
	10:00	1/2	
	1	1	
	2	1	
25	3	1	
	4	1	
	6	2	
	7	1	
	8	1	
30	12	0	
	11	1	
	15	2	
	16	1	
	16	5	
35	17	2	Conn. 2855
	23/24	1	
	25	1	
	26 1/2	1 1/2	
	28	1	
40	29	1	
	30	1	
	32	2	
	34	0	
	36	0	
45	38	0	
	40	0	
	41	1	
	43	2	
	45	2	
50	46	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2850	46	2	
	49	1	
	51	2	
	52	1	
55	53	1	
	54	1	
	55	1	KCC
	56	1	
	57	1	
60	58	1	
	1:00	2	
	1	1	
	3	2	
	7	1	
65	8	2	
	8	2	
	10	2	Conn 2867
	15/16	1	
	17	1	
70	18	1	
	19	1	
	21	2	
	22	1	
	23	1	
75	24	1	
	25	2	
	27	2	
	28	2	
	29	1	
80	30	0	
	31	0	
85	32	1	
	33	1	
	35	2	
	36	1	
	37	1	
90	38	1	
	39	2	
	41	1	
	43	2	
	45	1	
95	46	2	
	47	2	
	48	1	
	50	2	
	52	0	
45	53	1	
	54	0	
	57	0	
	57	2	Conn 2878
	2:03/4	1	
2900	6	0	

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

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

6843029

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2900	6 8	2	
	10	2	
	11	1	
	13	2	
5	15	2	
	17	2	
	19	2	
	20	1	
	22	2	
10	24	2	
	25	1	
	27	2	
	28	1	
	29	1	
15	31	2	
	32	1	
	34	2	
	35	1	
	37	2	
50	38	1	
	40	2	
	41	1	
	42	2	
	44	2	
	45	2	
25	47	2	
	48	1	
	50	1	
	51	1	
	52	3	DOWN - 2929
30	57	1	
	59	1	
	30	1	
	31	1	
	32	1	
25	33	1	
	34	1	
	35	1	
	36	1	
	37	1	
20	38	1	
	39	1	
	40	1	
	41	1	
	42	1	
	43	1	
	44	1	
25	45	1	
	46	1	
	47	1	
	48	1	
	49	1	
	50	1	
	51	1	
	52	1	
	53	1	
	54	1	
	55	1	
	56	1	
	57	1	
	58	1	
	59	1	
	60	1	
	61	1	
	62	1	
	63	1	
	64	1	
	65	1	
	66	1	
	67	1	
	68	1	
2950	49	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2950	4 9 50	1	
	52	2	
	53	1	
	55	2	
55	56	1	
	58	2	
	59	1	
	5:00	1	
	91	1	
65	02	1	
	40 41	1	
	43	2	
	45	2	
	48	3	
65	51	3	
	52	2	
	09	3	
	11	2	
	13	2	
75	15	2	
	25 31	1	
	29	2	
	30	1	
	32	5	
75	36	5	
	39	3	
	42	3	
	43	1	
	45	1	
80	46	2	
	47	1	
	48	1	
	49	1	
	50	1	
85	51	1	
	53	2	
	54	1	
	55	1	
	57	2	
90	59	2	
	58	1	
	59	1	
	60	1	
	62	1	
95	6	1	
	1	1	
	12	1	
	13	1	
	14	1	
3000	15	1	

KGC

COMPANY Schulz FARM North WELL NO. 1112

SEC. TWP. RGE. LOC. COUNTY ... STATE ...

CONTRACTOR Art Tigar #1 SIZE HOLE 3 1/2" DRILL PIPE ...

REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 16"

DATE 11-16-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	9:15	1	
	18	2	
	20	2	
	22	2	
05	24	2	
	25	1	
	28	3	
	30	2	
	33	3	
3010	35	2	
	37	2	
	39	2	
	41	2	
	42	1	
15	44	2	
	46	2	
	48	2	
	49	1	
	51	2	
3000	52	1	
	54	1	
	55	2	
	56	1	Conn 3022
55	04	1	
	05	1	
	07	2	
	10	2	
	12	2	
3000	17	4	
	20	3	
	22	3	
	28	2	
110	44	2	
	52	2	
	55	3	
	57	2	
3050	00	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	9:16	1	
	02	1	
	03	1	
	04	1	Conn 3036
55	12	1	
	14	1	
	15	1	
	16	1	
	17	1	
3060	18	1	
	19	1	
	20	1	
	21	1	
	22	1	
15	23	1	
	24	1	
	26	2	
	29	2	
	31	3	
3070	32	1	
	33	1	
	36	3	
	37	1	
	39	2	
55	41	2	
	42	2	
	46	2	
	48	2	
	50	1	
3080	52	1	
	55	1	
	56	1	
	57	1	
	10:00	1	Conn 3036
	15	2	
	23	1	
	24	1	
3090	26	2	
	30	2	
	32	2	
	34	2	
	35	1	
95	37	2	
	40	2	
	45	6	
	55	10	
	11:04	9	
3100	09	5	

KCC

COMPANY Schulein Co. FARM Kolaric WELL NO. 11-16
 SEC. TWP. .RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drdg. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-17-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	11:09		
01	15	6	Vis. 38
	20	5	WT. 8.9+
	25	5	
	31	6	
05	36	5	
	41	5	
	46	5	
	51	5	
	57	6	
2110	12:03	6	
	13	10	
	22	9	
	28	6	
	34	6	
10	38	4	
	41	3	
	43	2	
	11:30	31	Conn 3117
	32	1	rig ✓ + Deviation Survey
			2 1/4° @ 3117'
1100	33	1	
	36	3	
	38	2	
	41	3	
	43	2	
20	47	4	Vis. 40
	50	3	WT. 8.8
	53	3	
	57	4	
	2:00	3	
3130	02	2	
	06	4	
	12	6	
	16	4	
	20	4	
15	26	6	
	32	6	
	36	4	
	40	4	
	44	4	
3100	49	5	
	56	7	
	3:02	6	
	07	5	
	10	3	
15	13	3	
	15	2	
	17	2	
	20	3	
	22	2	Conn 3149 W.O.P.
3150	3:58	4:00	2 Change discharge Valve + Seat

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2100	4:00	02	
	03	1	
	05	2	
	07	2	
55	09	2	Vis. 40
	13	4	WT. 8.8
	16	3	
	19	3	
	22	3	
3100	25	3	
	28	3	
	31	3	KCC
	33	2	
	37	4	
5	42	5	
	48	6	
	54	6	
	58	4	
	5:02	4	
3100	06	4	
	10	4	
	13	3	
	17	4	
	21	4	
20	24	3	
	28	4	
	32	4	
	37	5	
	41	4	
3100	46	5	Conn 3180
	53	57	4
	59	2	
	6:02	3	
	04	2	Vis. 38
55	06	2	WT. 8.9
	10	4	
	13	3	
	16	3	
	19	3	
	22	3	
	25	3	
	28	3	
	31	3	
	33	2	
00	36	3	
	39	3	
	42	3	
	45	3	
	48	3	
2200	51	3	

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

COMPANY Schulzein Co. FARM Kolaric WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Ddly Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-17-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3200 01	6:51 54	3	
	58	4	
	7:02	4	
	05	3	
05	09	4	
	14	5	
	19	5	
	21	2	
	23	2	
	25	2	
15	27	2	
	30	3	Conn 3212
	4:49 49	3	
	53	4	
15	56	3	
	59	3	
	8:05	6	
	8	3	
	11	3	
20	14	3	
	17	3	
	20	3	
	23	3	
	26	3	
25	28	2	
	31	3	
	34	3	
	37	3	
	40	3	
30	42	3	
	45	3	
	48	3	
	50	3	
	53	3	
35	54	1	
	55	1	
	57	2	
	9:00	3	
	02	2	
40	05	3	
	7	2	
	10	3	
	13	3	
	9:15 15	1	Conn 3245
45	9:25 25	5	
	35	5	
	40	5	
	44	4	
	48	4	
3250	53	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3250 51	5:58 58	5	
	10:06	4	
	07	5	
	13	6	
55	17	4	
	22	5	
	27	5	
	31	4	
	36	5	
60	41	5	
	46	5	
	51	4	
	54	3	
	59	5	
65	1:04	5	
	08	4	
	13	5	
	17	4	
	22	5	
70	27	5	
	32	5	
	36	4	
	41	4	
	46	5	
75	49	3	Conn
	12:01 01	1	
	03	2	
	06	3	
	07	1	
80	9	2	
	11	2	
	13	2	
	15	2	
	18	3	
85	20	2	
	23	3	
	26	3	
	28	2	
	32	4	
90	34	2	
	37	3	
	39	2	
	42	3	
	44	2	
	46	2	
95	48	2	
	51	3	
	53	2	
	56	3	
3300	58	2	

KCC

COMPANY Schulein Co FARM Kolabik WELL NO. 11-16
 SEC. 16 TWP. 34 RGE. 4 LOC. 2300-1551 COUNTY Sumner STATE Kc
 CONTRACTOR Red Tiger Rig #1 (Lucky) SIZE HOLE 7 3/8" DRILL PIPE 4 1/2"
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE 11-18+19-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300	58	2	
	01	2	
	02	2	
	05	3	
	08	3	
3305	11	3	
	14	3	Conn 3306
	2:01	6	
	12	4	
	16	4	
3310	19	3	
	24	3	
	27	3	
	31	4	
	33	2	
15	35	2	
	37	2	
	39	2	
	42	3	
	47	5	
3320	49	2	
	53	4	
	57	4	
	3:01	4	
	07	6	
25	09	2	
	13	4	
	17	4	
	20	3	
	22	2	
2330	24	2	
	27	3	
	30	3	
	35	5	
	40	5	
35	44	4	
	47	3	
	49	2	Conn 3337
	51	2	
	4:00	2	
2340	02	2	
	07	5	
	10	3	
	10:30	3	Kit Trip
	33	3	
	35	2	
45	38	3	
	41	3	
	44	3	
	47	3	
	50	3	
3350	53	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350	53	3	
	56	3	Vis 39
	59	3	WT. 9.0
	12:02	3	
	04	2	
55	08	4	
	13	5	
	17	4	
	23	6	
	27	4	
336	32	5	KCC
	36	4	
	39	3	
	43	4	
	46	3	
66	50	4	
	54	4	
	57	3	
	1:02	5	
	06	4	
3370	11	5	
	14	3	
	17	3	Conn 3372
	25	3	
	29	3	
	32	4	
75	35	3	
	40	5	
	44	4	Vis 42
	47	3	WT. 9.0+
	51	4	
9200	54	3	
	57	3	
	2:01	4	
	04	3	
	07	3	
25	10	3	
	13	3	
	16	3	
	19	3	
	23	4	
2191	25	2	
	28	3	
	31	3	
	34	3	
	37	3	
95	41	4	
	48	7	
	53	5	
	58	5	
	3:02	4	
3400	07	5	Conn 3400

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

COMPANY Schulein Co.

FARM Kolaric

WELL NO. 11-16

SEC. TWP. RGE. LOC.

COUNTY Sumner

STATE Kansas

CONTRACTOR Red Tiger Drlg. Co. #1

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 14

DATE 11-19-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3400 01	3:26 30	4	Conn 3400
	34	4	
	38	4	Vis. 38
	42	4	WT. 9.0
05	46	4	
	51	5	
	53	2	
	55	2	
	56	1	
10	58	2	
	4:00	2	
	02	2	
	03	1	
	04	1	
15	05	1	
	06	1	
	07	1	
	08	1	
	09	1	
20	10	1	
	12	2	
	13	1	
	14	1	
	15	1	
25	16	1	
	17	1	
	19	2	
	20	1	
	22	1	
30	23	1	*CIRC 30"
	55 56	1	*GET 1/30"
Conn 3432	58	2	wet & dry.
	509 05	1	*DRILL AHEAD
	06	1	10' wet & dry
35	07	1	
	09	2	
	11	2	
	13	2	
	14	1	
40	15	1	
	17	2	
	19	1	
	20	1	
	21	1	
45	22	1	
	23	1	Vis. 39
	25	2	WT. 9.0
	26	1	
	27	1	
3450	29	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3450 51	5:29 30	1	
	33	3	
	35	2	
	36	1	
55	38	2	
	40	2	KCC
	41	1	
	42	1	
	43	1	
	44	1	
60	46	2	
	48	2	
	49	1	Conn 3463
	6:10 12	2	
65	15	3	
	17	2	
	18	1	
	20	2	
	21	1	
70	23	2	
	24	1	
	26	2	
	27	1	Vis. 39
	29	2	WT. 9.0+
75	31	2	
	34	3	
	36	2	
	37	1	
	38	1	
80	39	1	
	40	1	
	41	1	
	43	2	
	45	2	
85	44	4	
	52	3	
	54	2	
	56	2	
	7:00	4	
90	04	4	
	08	4	
	10	2	
	12	2	
	14	2	
95	16	2	Conn 3495
	36 37	1	
	38	1	
	39	1	
3500	42	1/2	

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

COMPANY Schulkin Co. FARM Kolaric WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drilling Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-19-89

DEPTH	TIME OF CLOCK	MIN.	REMARKS
3500 61	5:00 9:00	1	
	9:04	1	
	9:02	1	
	9:04	1	
05	9:04	1	
	9:34	1 1/2	
	9:49	3 1/2	
	9:48	2	
	9:52	1	
10	9:53	1	
	9:54	1 1/2	
	9:55	1 1/2	
	9:57	2	
	9:00	3	
15	10:06	3	
	10:21	5	
	10:26	5	
	10:31	5	
	10:35	4	
20	10:39	4	
	10:43	5	
	10:55	4	
	10:54	4	
25	11:01	5	
	11:05	4	Conc
	11:08	2	
	11:33	3	
	11:36	3	
30	11:39	3	
	11:41	3	
	11:45	3	
	11:49	3	
	11:51	3	
35	11:51	3	
	11:57	3	
	12:00	3	
	12:03	3	
40	12:07	3	
	12:08	3	
	12:12	3	
	12:20	3	
	12:24	4	
45	12:27	3	
	12:31	2	
	12:31	3	
	12:34	3	
3550	12:44	3	

DEPTH	TIME OF CLOCK	MIN.	REMARKS
3550 51	12:44 1:09	3	
	1:11	4	
	1:14	3	
	1:18	4	
55	1:01	3	
	1:04	3	
	1:07	3	
	1:11	4	3558 Conc
	1:16	2	
60	1:21	3	
	1:25	4	
	1:28	3	
	1:31	3	
	1:34	3	
65	1:37	3	
	1:40	3	
	1:43	3	
	1:46	3	
	1:48	2	
70	1:51	3	
	1:54	3	
	1:57	3	
	12:00	3	
	1:03	3	
75	1:06	3	
	1:08	3	
	1:11	3	
	1:13	2	
	1:16	3	
80	1:18	2	
	1:21	3	
	1:23	2	
	1:25	2	
	1:28	2	
	1:31	3	
85	1:31	3	
	1:35	2	
	1:38	2	
	1:39	2	
	1:42	2	
90	1:49	3	Conc 3558
	1:51	3	
	1:55	3	
	1:58	3	
95	1:59	3	
	2:02	3	
	2:05	3	
	2:07	3	
	2:10	3	
	2:12	2	
3600	2:15	3	

KCC

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE DRILL PIPE

REMARKS:

SIZE PUMP LINERS LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3600	11:18	3	
	22	2	
	23	3	
	24	3	
05	24	2	
	31	3	
	33	2	
	36	3	
	38	2	
10	40	2	
	45	2	
	47	2	
	50	3	
15	52	2	
	55	3	
	57	2	
	2:00	2	
	03	2	
20	06	3	Change 36" to 30"
	11/18	2	
	15	2	
	18	3	
	20	2	
25	23	3	
	25	2	
	28	3	
	30	2	
	32	2	
30	35	3	
	37	2	
	39	2	
	42	3	
	45	2	
35	46	2	
	49	3	
	51	2	
	53	2	
	56	3	
40	58	2	
	01:00	2	
	02	2	
	06	1	
	08	2	
45	10	2	
	12	3	
	15	3	
	18	3	
	20	2	
50	22	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3650	02:35	3	
	27	2	36.58 Good
	3:40	1	
	44	3	
55	46	2	
	49	2	
	53	4	
	57	4	
	59	3	
60	4:02	3	
	06	4	
	10	4	
	14	4	
	17	3	
65	21	4	
	25	4	
	28	3	
	32	4	
	35	3	
70	38	3	
	42	4	
	46	4	
	51	5	
	55	4	
75	59	4	
	5:00	4	
	01	4	
	12	5	
	15	3	
80	19	4	
	23	4	
	27	4	
	31	4	
	5:38	1	Change 36" to 30"
	43	4	
	46	3	
	50	4	
	53	3	
	57	4	
	5:59	3	
	04	4	
	8	4	
	11	3	
	15	4	
95	18	3	
	22	4	
	25	3	
	28	3	
	33	4	
37:00	35	3	

KCC

COMPANY Schwin Co. FARM Kolaric WELL NO. 11-16

SEC. TWP. RGE. LOC. COUNTY Gummer STATE Kansas

CONTRACTOR Red Tiger Drig. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-19-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3700	6:35	4	
	42	3	
	45	3	
	48	3	
05	51	3	
	55	3	
	58	3	
	7:01	3	
	05	3	
10	7	3	
	10	3	
	13	3	
	16	3	
	17	3	
15	19	3	
	7:30	1	
	36	3	
	40	4	
20	43	3	
	47	4	
	50	3	
	53	3	
	57	4	
25	9:01	4	
	05	4	
	09	4	
	12	3	
	16	4	
30	18	2	
	21	3	
	23	2	
	24	1	
	26	2	
	29	3	
	31	2	
	34	3	
	36	2	
	39	3	
	41	2	
	45	2	
	50	3	
	55	3	
	56	3	
	59	3	
	10:03	4	
	06	3	
	9	3	
	12	3	
	16	4	
	19	3	
	23	4	
	26	3	
	29	2	
	49	2	
	53	4	
	57	4	
	11:01	4	
	04	3	
85	04	3	
	11	4	
	14	3	
	17	4	
	22	5	
	26	4	
	31	5	
	34	3	
	36	2	
	38	2	
	40	2	
	42	2	
	44	2	
	47	3	
	50	3	
2500	52	2	

Conn 3715

Conn 3778

Vis. 54
WT. 9.3

Conn 3716

KCC

COMPANY Schulein Co. FARM Kalaric WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drlg. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-20-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300 01	11:52 55	3	
	58	3	
	12:02	4	
	06	4	
05	08	2	
	11	3	
	12	1	
	16	4	
	20	4	Conn 3804, \sqrt{rig}
3210 39	12:36 39	3	
	41	2	
	43	2	
	46	3	
	48	2	
15	50	2	
	52	2	
	54	2	
	57	3	
	1:02	5	
3350 09	12:50 09	7	
	14	5	
	21	7	
	25	4	
	55	5	
	55	5	
	3:00	5	
	04	4	
	09	5	
	10	5	
	13	3	
	19	6	
	23	4	
	27	4	
	35	8	
	42	7	
	49	7	
	56	7	
	3:03	7	Conn 3841
	08 10	2	
	13	3	Vis 40
	17	4	WT. 9.3
	21	4	
	22	3	
	27	3	
	31	4	
	34	3	
3850 37	3:37 37	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350 51	3:41 41	4	
	45	4	
	48	3	
	51	3	
55	55	4	
	59	4	
	4:03	4	
	106	3	
	10	4	
3260 14	12:36 14	4	
	19	5	
	23	4	
	27	4	
	30	3	
15	33	3	
	36	3	
	39	3	
	42	3	
	45	3	Vis 38
3570 51	12:50 51	6	WT 9.2
	54	3	3871 Conn
	604 07	1	Drop Survey P.O.H.
	9	2	
	12	3	
25	15	3	
	18	3	
	22	4	
	25	3	
	29	4	
3800 30	12:30 30	1	
	31	1	
	35	4	
	39	4	
	43	4	
35	47	4	
	51	4	
	56	5	
	7:00	4	
	04	4	
	8	4	
	12	4	
	16	4	
	19	3	
	22	3	
25	27	5	Vis 41 wt 9.4
	29	2	
	32	3	
	35	3	
	38	3	
3900 41	3:41 41	3	

KCC

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

COMPANY Shulein Co. FARM Kolaric WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drlg. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-20-89.

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3900	41		
01	44	3	
	49	5	
	54	5	Conn 3903
	58	3	
05	64	?	
	05	1	
	07	2	
	08	1	
	11	3	
10	13	2	
	15	2	
	16	1	
	19	3	
	21	2	
15	24	3	
	26	2	
	29	3	
	32	3	
	35	2	
2.0	37	2	
	39	2	
	40	1	
	42	2	
	44	2	
2.5	46	2	
	47	1	
	50	3	
	52	2	
	55	3	
30	57	2	
	58	1	
	9:01	?	
	03	2	
	06	3	Conn 3934
35	12	1	
	15	2	
	18	3	
	20	2	
	22	2	
40	23	1	
	24	1	
	26	2	
	28	2	
	30	1	
45	32	2	
	35	1	
	37	2	
	40	3	
	42	2	
3950	45	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3950	45		
51	48	3	
	51	3	
	54	3	
	58	4	
55	10:00	2	KCC
	02	2	
	04	2	
	07	3	
	09	2	
60	16	1	
	11	1	
	12	1	
	14	2	
	17	3	
65	19	2	
	21	2	Conn 3966
	27	2	
	32	3	
	34	2	
70	36	2	
	39	3	
	42	4	
	44	2	
	47	3	
75	119	2	
	51	2	
	54	3	
	56	2	
	58	2	
80	11:02	4	
	04	2	
	06	2	
	09	3	
	11	2	
85	13	2	VIS. 40
	16	3	w.t. 9.2
	18	2	
	21	3	
	24	3	
90	27	3	
	30	3	
	33	3	
	35	2	
	38	3	
95	41	3	
	43	2	
	47	4	Conn 3997, Vrig
	12:05	3	
	10	2	
4000	12	2	

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

COMPANY Schulain Co. FARM Kaleric WELL NO. 11-16
 SEC. TWP. .RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drlg. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-21-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4000	12:12		
01	18	3	
	18	3	
	21	3	
	23	2	
05	25	2	
	29	3	
	31	3	
	38	4	
	40	2	
10	42	2	
	44	2	
	47	3	
	49	2	
	53	4	
15	56	3	
	59	3	
	1:02	3	
	1:05	3	
	1:08	3	
20	11	3	
	13	2	
	15	2	
	17	2	
	19	2	
25	21	2	
	24	3	
	26	2	
	28	2	
	32	4	Conn 4029
30	40 43	3	
	45	2	
	48	3	
	51	3	
	54	3	
35	57	3	
	2:00	3	
	03	3	
	06	3	
	09	3	VIS 38
40	12	3	wt 9.2
	16	4	
	19	3	
	22	3	
	26	4	
45	29	3	
	32	3	
	35	3	
	38	3	
	42	4	
4050	45	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4050	45		
51	48	3	
	51	3	
	53	2	
	56	3	
55	59	3	KCC
	3:02	3	
	04	2	
	07	3	
	10	3	
60	13	3	
	16	3	Conn 4061
	25 27	2	
	30	3	
	32	2	
65	34	2	
	37	3	
	39	2	
	42	3	
	45	3	
70	47	2	VIS 38
	49	2	wt 9.3
	51	2	
	53	2	
	56	3	
75	59	3	
	4:02	3	
	04	2	
	07	3	
	18	2	noil in pump
80	22	2	
	25	3	
	28	3	
	31	3	
	34	3	
85	38	4	
	41	3	
	44	3	
	47	3	
	50	3	
90	53	3	
	55	2	Conn 4091
	58 04	2	
	06	2	
	08	2	
95	11	3	
	14	3	
	17	3	
	21	4	
	24	3	
4100	28	4	

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

COMPANY Schulein Co. FARM Kolaric WELL NO. 11-16
 SEC. TWP. RGE. LOC. COUNTY Sumner STATE Kansas
 CONTRACTOR Red Tiger Drlg. Co. #1 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 11-21-89

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4100	28		
01	31	3	
	35	2	
	38	3	
	42	4	
05	45	3	
	48	3	
	52	4	
	55	3	
	58	3	
10	4:02	4	
	05	3	
	08	3	
	12	4	VIS 37
	15	3	WT 9.4
15	18	3	
	22	4	
	25	3	
	27	2	
	31	4	
20	34	3	
	37	3	
	40	3	
	42	2	CONN 4123
	48 50	2	
25	53	3	
	56	3	
	59	3	
	7:03	4	
	6	3	
30	9	3	
	12	3	
	15	3	
	18	3	
	21	3	
35	24	3	
	27	3	
	30	3	
	33	3	
	36	3	
40	38	2	
	39	1	
	40	1	
	43	3	
	45	2	
45	47	2	
	49	2	
	51	2	
	59/8:01	2	TIME CORR -
	3	2	
4150	6	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4150	6		
51	9	3	
	11	2	
	13	2	
	16	3	CONN 4154
55	49 52	3	SER-RIG
	55	3	JET #1
	57	2	
	9:00	3	
	3	3	
60	6	3	
	9	3	
	12	3	
	17	5	
	20	3	
65	23	3	
	26	3	
	29	3	
	31	2	
	33	2	
70	36	3	
	38	2	
	40	2	
	42	2	
	44	2	
75	47	3	
	50	3	
	52	2	
	55	3	
	58	3	
80	10:01	3	
	6/7	1	STOPPED TABLE
	1/2	1/2	
	8	1/2	
	10	2	
85	12	2	CONN-4185
	17/18	1	
	20	2	
	22	2	
	24	2	
90	27	2	
	29	2	
	31	2	
	34	3	
	37	3	
95	40	3	
	42	2	
	43	1	
	44	1	
	47	3	
4200	49	2	

KCC

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

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4200	10:49	3	
	52	2	
	54	2	
	56	2	
	58	2	
5	11:00	2	
	2	2	
	4	2	
	6	2	
	8	2	
10	10	2	
	12	2	
	14	2	
	17	3	
	19	2	
15	22	3	
	24	2	
	29/31	2	
	34	3	
	36	2	
20	38	2	
	39	1	
	40	1	
	42	2	
	44	2	
25	47	3	
	49	2	
	52	3	
	55	3	
	57	2	
30	12:00	3	
	3	3	
	5	2	
	8	3	
	11	3	
35	13	2	
	16	3	
	18	2	
	21	3	
	23	2	
40	26	3	
	28	2	
	30	2	
	25	3	
	35	2	
	38	3	
45	39	1	
	41	2	
	44	3	
4250	1:45	2	
	53	2	

CONN - 4248

CONN - 4216

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4250	1:53	2	
	55	1	
	56	1	
	57	1	
	59	2	
55	1:01	2	
	3	2	
	5	2	
	7	2	
	9	2	
60	11	1	
	14	3	
	16	2	
	19	3	
	21	2	
65	23	2	
	26	3	
	28	2	
	30	2	
	33	3	
70	35	2	
	37	2	
	39	2	
	41	2	
	44	3	
75	46	2	
	48	2	
	50	2	
	52	2	
	54	2	
80	2:00	2	
	3	1	
	4	1	
	6	2	
	7	1	
85	9	2	
	10	1	
	12	2	
	13	1	
	15	2	
90	17	2	
	19	2	
	21	2	
	22	1	
	23	1	
	24	1	
95	26	2	
	28	2	
	30	2	
	32	2	
4300	34	2	

1/15 44
WT 9-3

ADD - DRENNY

KCC

CONN - 4279

COMPANY _____ FARM _____ WELL NO. _____

SEC. _____ TWP. _____ RGE. _____ LOC. _____ COUNTY _____ STATE _____

CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____

REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4300	2:34		
	36	2	
	38	2	
	39	1	
	41	2	
5	44	3	
	46	2	
	48	2	
	49	1	
	52	4	
10	55	3	CONN - 4310
	3:00	2	
	4	2	
	6	2	
	8	2	
15	10	2	
	12	2	
	15	3	
	17	2	
	18	1	
20	19	1	
	21	2	
	22	1	
	24	2	
	26	2	
25	28	2	
	30	2	
	32	2	
	34	2	
	36	2	
30	38	2	
	41	3	
	43	2	
	45	2	
	46	1	
35	47	1	
	49	2	
	52	2	
	55	1	
	58	3	
40	4:00	2	
	3	3	
	5	2	CONN - 4342
	11/13	2	
	15	2	
45	17	2	
	19	2	
	21	2	
	23	2	
	25	2	
4350	26	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4350	26		
	27	1	
	28	1	
	31	3	
	32	1	
55	34	2	
	36	2	Vis. - 49
	37	1	wt. - 9.3
	39	2	
	41	2	
60	42	1	
	44	2	
	45	1	
	46	1	
	47	1	
65	48	1	
	49	1	
	51	2	
	53	2	
	55	2	
70	57	2	
	59	2	
	5:00	1	
	2	2	CONN - 4373
	9/11	2	
75	10	1	
	15	3	
	19	4	
	23	4	
	27	4	
80	30	3	
	33	3	
	36	3	
	39	3	
	41	2	
85	42	3	
	46	2	
	49	3	
	52	3	
	54	2	
90	56	2	
	59	3	
	6:02	3	
	04	2	
	06	2	
95	08	2	
	10	2	
	13	3	
	15	3	
	18	3	
4400	20	2	

KCC

