

ORIGINAL

SIDE ONE

RELEASED 8/14/89

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

Operator: License # 5140
Name Frontier Oil Company
Address 125 N. Market, Ste. 1720
City/State/Zip Wichita, Kansas 67202

Purchaser

Operator Contact Person Jean Angle
Phone 316-263-1201

Contractor: License # 5302
Name Red Tiger Drilling Co.

Wellsite Geologist Richard D. Parker
Phone 913-483-5348

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

6-27-89... 7-8-89... 7-9-89...
Spud Date Date Reached TD Completion Date
4705 N/A
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 344 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set... feet
If alternate 2 completion, cement circulated from... feet depth to... w/... SX cmt
Cement Company Name
Invoice #

API NO. 15-109-20,474-00-00 09 1991

County Logan FROM CONFIDENTIAL

NE SE Sec. 6 Twp 12 Rge. 33W East West

1980 Ft North from Southeast Corner of Section
660 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

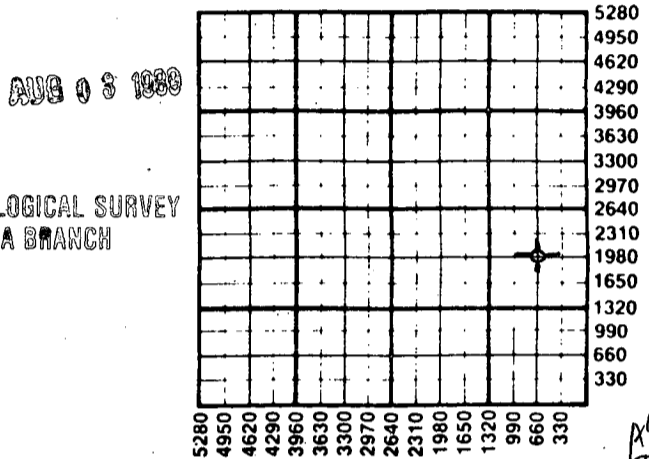
Lease Name Johnston Well # 1

Field Name Hubert Southwest

Producing Formation N/A

Elevation: Ground 3178 3183 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water: 89-290
Division of Water Resources Permit #

Groundwater 1980 Ft North from Southeast Corner
660 Ft West from Southeast Corner of
Sec 6 Twp 12 Rge 33W ~~East~~ West

Surface Water... Ft North from Southeast Corner
(Stream, pond etc)... Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain)
(purchased from city, R.W.D. #)

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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Jean Angle
Title Agent Date 8-2-89

Subscribed and sworn to before me this 2nd day of August 1989
Notary Public Ann Drennan
Date Commission Expires 2-10-90



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

RECEIVED STATE CORPORATION COMMISSION

AUG - 4 1989
08-04-1989
CONSERVATION DIVISION
Wichita, Kansas

Form ACO-1 (5-86)

Sec. Twp. Rge.

P1

Operator Name Frontier Oil Company Lease Name Johnston Well # 1

Sec 6 Twp 12 Rge 33W East West Logan County

CONFIDENTIAL

WELL LOG

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. No log run

Drill Stem Tests Taken [X] Yes [] No
Samples Sent to Geological Survey [] Yes [] No
Cores Taken [] Yes [X] No

Formation Description [] Log [X] Sample

DST #1 (4316-4340) 30-30-30-30 1st op - wk blo for 20". 2nd op - no blo. Rec. 10' M IF & FF 31-31 ISIP 914 FSIP 820
DST #2 (4340-4386) 30-30-30-30 No blo on both op's IF & FF 20-20 ISIP 1257 FSIP 1226
DST #3 (4608-4640) 30-30-30-30 1st op - wk blo for 15". 2nd op - no blo. Rec. 5' M w/spks O. IF & FF 31-31 ISIP 248 FSIP 394
DST#4 (4608-4705) 60-45-30-45. 1st op - wk blo 2nd op - no blo Rec. 63' M IF 51-62 FF 62-62 ISIP 230 FSIP 197

Table with 3 columns: Name, Top, Bottom. Rows include Anhydrite, Heebner, Toronto, Lansing-Kansas City, Base of Kansas City, Marmaton, Pawnee, Fort Scott, Cherokee Shale, Johnson, RTD.

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

Table with 8 columns: 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. Row 1: Surface, 12 1/2", 8 5/8", 20# new, 344, 60-40 not, 190, 2% gel, 3% CC

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

TUBING RECORD Size Set At Packer at Liner Run [] Yes [] No

Date of First Production Producing Method [] Flowing [] Pumping [] Gas Lift [] Other (explain)

Table with 5 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity. Includes Estimated Production Per 24 Hours with units Bbls, MCF, Bbls, CFPB.

METHOD OF COMPLETION

Production Interval

Disposition of gas: [] Vented [] Sold [] Used on Lease [] Open Hole [] Perforation [] Other (Specify) [] Dually Completed [] Commingled

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

15-109-20474-00-00

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

~~Old~~ New

ALLIED CEMENTING CO., INC. NO 7976

Home Office P. O. Box 31

Russell, Kansas 67665

Date	7-9-89	Sec.	6	Twp.	12	Range W	33	Called Out	8:00 AM	On Location	11:30 AM	Job Start	12:00 Noon	Finish	2:15 PM
Lease	JOHNSTON	Well No.	#1	Location	MONUMENT 4 1/2 S 1/4 W			County	LOGAN	State	KANSAS				
Contractor	Red Tiger Drllg Rig 7			Owner	SAME										
Type Job	PLUG			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.											
Hole Size	7 1/8"			T.D.	4705'										
Csg.	8 5/8"			Depth	344'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.				Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace											
Perf.															

Charge To: **FRONTIER OIL CO**
 Street: **1437 N Franklin**
 City: **Russell** State: **Kan 676**
 The above was done to satisfaction and supervision of owner agent or contractor
 Purchase Order No. **X** *M. J. Lopez*

EQUIPMENT

#153 No.	Cementer	<i>m Kaufman</i>
Pumptrk	Helper	<i>Gerald K</i>
No.	Cementer	
Pumptrk	Helper	
#155	Driver	<i>Steve T</i>
Bulktrk		
Bulktrk	Driver	

CEMENT 2 SKS FLO-S

Amount Ordered	<i>185 SKS 60/40 P02 L7062</i>		
Consisting of			
Common	<i>111</i>	<i>585</i>	<i>649.</i>
Poz. Mix	<i>74</i>	<i>235</i>	<i>173.</i>
Gel.	<i>11</i>	<i>6.75</i>	<i>74.</i>
Chloride			
Quickset			
	<i>2 SK FLO S ex 1 on 50 #</i>	<i>160 #</i>	<i>80.0</i>
Sales Tax			
Handling		<i>90</i>	<i>166.5</i>
Mileage	<i>13m</i>	<i>03</i>	<i>72.1</i>
Sub Total			<i>1216.</i>
Total			

DEPTH of Job

Reference:		
#	<i>PUMP TALK</i>	<i>360.00</i>
	<i>1-8 5/8" PLUG</i>	<i>20.00</i>
	<i>100 Per mile 13m</i>	<i>13.00</i>
	Sub Total	<i>393.00</i>
	Tax	
	Total	

Remarks: *20 SKS @ 2680'*
100 SKS @ 1630'
40 SKS @ 400'
10 SKS @ 40' w/PLUG
15 SKS in RAT Hole

[Signature]
 RECEIVED
 STATE CORPORATION COMMISSION
 SEP 21 1989

ALLIED CEMENTING CO., INC.

No. 6582

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	6-27-89	Sec.	6	Twp.	12	Range	33	Called Out	9:20 P.M.	On Location	12:05 P.M.	Job Start	2:00 P.M.	Finish	2:30 P.M.
Lease	Johnston	Well No.	1	Location	Monument	455-west	Logan	County	KS	State	KS				
Contractor	Red Tegan					Owner	Sara								
Type Job	Surface					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.									
Hole Size	12 1/4"		T.D.		347'										
Csg.	8 3/8" (20#)		Depth		347'										
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.	15'		Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace		21.5 BBL.										
Perf.															

Charge To *Frontier Oil Company*
 Street *1437 N. Franklin*
 City *Russell* State *Ks 67665*
 The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No. *Wm J. Ayres*

CEMENT

EQUIPMENT

Pumptrk	No.	Cement	<i>Mike</i>
	<i>46</i>	Helper	
Pumptrk	No.	Cement	<i>Mike</i>
		Helper	
Bulktrk	<i>199</i>	Driver	
Bulktrk		Driver	

Amount Ordered	<i>190 60/40 223</i>		
Consisting of			
Common	<i>114</i>	<i>6.00</i>	<i>684.00</i>
Poz. Mix	<i>76</i>	<i>2.40</i>	<i>182.40</i>
Gel.	<i>4</i>	<i>6.75</i>	<i>27.00</i>
Chloride	<i>6</i>	<i>20.00</i>	<i>120.00</i>
Quickset			

DEPTH of Job

Reference:	<i>Pump Jack Chg</i>	<i>360.00</i>
<i>Oakley</i>	<i>Pump Jack Mileage</i>	<i>13.00</i>
	<i>TWP</i>	<i>40.00</i>
	<i>47' at .39¢</i>	<i>18.33</i>
	Total	<i>431.33</i>

Handling	<i>190</i>	<i>.90</i>	<i>171.00</i>
Mileage	<i>13</i>		<i>74.10</i>
<i>Oakley</i>			
Sub Total			
Total			<i>1258.90</i>

Remarks: *Cement Did Circulate*
6 BBL. Cement
Thank you

Floating Equipment

TOTAL \$ 1689.83
 Less Disc - *337.97*
\$ 1351.86

RECEIVED
 STATE OF KANSAS DEPARTMENT OF REVENUE

SEP 21 1990

COMPANY **F. O. C. ORIGINAL** FARM **Johnston** WELL NO. **1**
 SEC. **1661 60 NW** COUNTY **Logan** STATE **Ks**
 CONTRACTOR **Reel Tiger Rig #7** SIZE HOLE **7 7/8** DRILL PIPE **5**
 REMARKS: **SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14**

CONFIDENTIAL

RELEASED

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3550	2:17	3	10' dry samples
01	20	3	
	23	3	
	25	2	
	28	3	
05	32	4	
	37	5	
	40	3	
	43	3	
	47	4	
10	51	4	
	55	4	CONN Rig ✓
	01	4	
	15	4	
	21	6	
15	27	6	
	34	7	
	39	5	
	44	5	
	49	5	
20	55	6	
	4:01	6	
	12	11	} HARD DRILL
	23	11	
	29	6	
25	35	6	
	40	5	
	45	5	
	51	6	
	58	7	
30	5:06	8	vis-38
	13	7	wt-8.7
	22	9	
	29	7	
	34	5	
35	39	5	
	45	6	
	54	9	
	6:00	6	
	06	6	
40	12	6	
	17	5	CONN
	23	3	
	31	5	
	36	5	
45	41	5	
	45	4	
	49	4	
	54	5	
	57	3	
3550	7:00	3	

AUG 03 1989
 KANSAS GEOLOGICAL SURVEY
 WICHITA BRANCH

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3550	7:00	2	FROM CONFIDENTIAL Add Test Treatment
51	02	2	
	05	3	
	09	4	
	14	5	
55	19	5	
	25	6	
	30	5	
	35	5	
	40	5	
60	44	4	
	48	4	
	52	4	
	56	4	
	8:00	4	
65	04	4	
	07	3	
	12	5	
	17	5	
	25	8	HARD Bit shot
70	32	7	HARD
	40	8	vis 39
	47	7	CONN wt 8.6
	52	7	
	06	7	
75	16	10	
	25	9	
	34	9	
	42	8	
	49	7	
80	57	8	vis 38
	10:03	6	wt 8.7
	09	6	
	14	5	
	19	5	
85	23	4	
	28	5	
	32	4	
	39	5	
	40	3	
90	46	5	
	48	3	
	52	4	
	54	2	
	11:00	6	
95	07	7	
	17	10	
	28	11	
	38	10	
	44	6	
3600	50	6	

RECEIVED

STATE CORP

AUG - 4 1989

CONSERVATION DIVISION
 Wichita, Kansas

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

15-109-20474-00-00

COMPANY F.O.C. FARM JOHNSTON WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY ROSEN STATE KS
 CONTRACTOR Red Tayer Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3650 01	11:50 11:57	7	Vis = 38
	12:03	6	W.I.F = 8.9
	12	9	CONN Rig ✓
	28 32	5	
05	41	9	
	52	11	
	1:06	14	
	18	14	
	30	12	
10	38	8	
	50	12	
	2:02	12	
	15	13	Add Weight
	23	8	
15	32	9	
	38	6	
	46	8	
	53	7	
	3:00	7	
20	06	6	
	14	8	
	24	10	
	32	8	Add Premix
	42	10	
25	49	7	
	53	4	
	56	3	
	4:00	4	
	05	5	
30	11	6	
	16	5	
	23	7	
	29	6	
	36	7	CONN
35	42 48	6	V BIT
	54	6	
	5:00	6	
	02	2	
	04	2	
40	09	5	
	15	6	
	21	5	
	26	5	
	31	5	
45	36	4	
	41	5	
	46	5	
	51	5	
	58	4	
3650	6:01	6	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3650 51	6:01 09	8	Vis = 41
	17	8	W.I.F = 9.0
	24	7	
	32	8	
55	42	10	Bit Trip shut
	10:30 32	2	
	39	5	
	40	3	
	43	3	
60	45	2	
	47	2	
	50	3	
	52	2	
	55	3	
65	59	4	
	11:02	3	CONN
	11:08 10	2	
	14	4	
	17	3	
70	22	5	
	26	4	
	30	4	
	35	5	
	41	6	
75	44	3	
	49	5	
	53	4	
	57	4	
	12:00	3	
80	04	4	
	09	5	
	13	4	
	17	4	
	21	4	
85	24	3	
	28	4	
	32	4	
	35	3	
	38	3	
90	42	4	
	46	4	
	49	3	
	55	6	
	59	4	
95	1:02	3	
	04	2	
	08	4	CONN
	1:13 16	3	
	20	4	
3700	22	2	

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

RECEIVED
 STATE COMMISSION
 AUG - 4 1989
 WICHITA, KANSAS

15-109-20474-00-00

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Logan STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3700	1:22		
01	25	3	
	28	3	
	31	3	
	35	4	
05	39	4	
	44	5	
	48	4	
	53	5	
	58	5	
10	2:02	4	
	08	6	
	12	4	
	16	4	
	19	3	
15	22	3	
	25	3	
	29	4	
	33	4	
	38	5	
20	43	5	
	47	4	
	51	4	
	55	4	
	3:00	5	
25	04	4	
	09	5	
	12	3	
	15	3	
	17	2	CONN
30	31 34	3	
	37	3	
	41	4	
	46	5	
	51	5	
35	56	5	
	4:00	4	
	05	5	
	11	6	
	17	6	
40	23	6	
	29	6	
	33	4	
	38	5	
	43	5	
45	49	6	
	54	5	
	5:00	6	
	06	6	
	11	5	
3750	15	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3750	15	20	5
	25	5	
	30	5	
	35	5	
55	38	3	
	41	3	
	44	3	
	46	2	
	50	4	
60	54	4	CONN
	6:02 07	5	
	13	6	
	20	7	
	26	6	
65	32	6	← TIME
	37	5	
	43	6	
	48	5	
	52	4	
70	56	4	
	7:00	4	
	04	4	
	08	4	
	13	5	
75	18	5	
	23	5	
	28	5	
	32	4	
	36	4	
80	41	5	
	46	5	
	51	5	
	56	5	
	59	3	
85	8:02	3	
	04	2	
	08	4	
	11	3	
	15	4	
90	18	3	
	22	4	CONN
	29 33	4	
	36	3	
	39	3	
95	42	3	
	45	3	
	51	6	
	57	6	
	9:02	5	
3800	07	6	

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

RECEIVED
 STATE COMMISSION

MAY - 4 1989

CONSULTANT

15-109-20474-00-00

COMPANY

F.O.C.

FARM

Schwartz

WELL NO. 1

SEC. TWP. RGE. LOC.

COUNTY Logan

STATE KS

CONTRACTOR

Red Tiger Rig #7

SIZE HOLE

7 7/8

DRILL PIPE 5

REMARKS:

SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3800 01	9:08 13	5	
	18	5	
	23	5	
	27	4	
05	31	4	
	35	4	
	37	2	
	40	3	
	42	2	
10	45	3	
	47	2	
	49	2	
	52	3	
	55	3	
15	59	4	
	10:03	4	
	07	4	
	10	3	
	13	3	
20	16	3	
	19	3	
	22	3	
	25	3	CONN
	30 34	4	vis 4.8
25	40	6	wt 9.2
	47	7	
	54	6	
	11:01	7	49 = vis 9.2 = wt
	06	5	
30	11	5	
	15	4	
	19	4	
	24	5	
	28	4	
35	34	6	
	40	6	
	48	8	
	55	7	
	12:02	7	
40	09	7	
	16	7	
	22	6	
	30	8	
	35	5	
45	40	5	
	46	6	
	52	6	
	1:01	9	
	07	6	
3850	11	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3850 51	1:11 14	3	
	18	4	
	22	4	
	25	3	CONN Rig ✓
55	41 47	6	
	56	9	
	2:03	7	
	10	7	
	18	8	
60	26	8	
	34	8	
	40	6	
	45	5	
	49	4	
65	53	4	
	3:00	7	
	06	6	
	11 1/2	5 1/2	
	17	5 1/2	
70	22	5	
	27	5	
	32	5	
	38	6	
	43	5	
75	47	4	
	52	5	
	57	5	
	4:03	6	
	07	4	
80	11	4	
	16	5	
	20	4	
	22	2	
	25	3	CONN
85	32 34	2	
	39	5	
	46	7	
	51	5	
	54	3	
90	59	5	
	5:02	3	
	06	4	
	09	3	
	12	3	
95	16	4	
	20	4	
	23	3	
	25	2	
	27	2	
3900	30	3	call Dick

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

RECEIVED
STATE COMMISSION

AUG - 4 1980

WICHITA, KANSAS

15-109-20474-00-00

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. .RGE. LOC. COUNTY Logan STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

ALL DRIS PAC

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3900 01	5:30 35	5	START 10' wet & dry
	38	3	
	42	5	
	45	3	
05	48	3	
	50	2	
	53	3	
	55	2	
	59	4	
10	6:04	5	
	11	7	
	16	5	
	23	7	
	28	5	
15	35	7	CONN
	44 46	2	
	51	5	
	56	5	
	7:01	5	
20	06	5	
	11	5	
	16	5	
	19	3	
	23	4	
25	28	5	
	32	4	
	37	5	
	41	4	
	45	4	
30	48	3	
	52	4	
	56	4	
	8:01	5	
	06	5	
35	11	5	
	16	5	
	19	3	
	22	3	
	26	4	
40	29	3	
	33	4	
	37	4	
	40	3	
	43	3	
45	47	4	
	51	4	CONN Rig
	9:02 05	3	
	07	2	
	10	3	
3950	13	3	TIME

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3950 51	9:13 16	3	
	19	3	
	23	4	
	25	2	
55	28	3	
	32	4	
	35	3	
	37	2	
	39	2	
60	41	2	
	44	3	
	46	2	
	48	2	
	50	2	
65	53	3	
	56	3	
	59	3	
	10:02	3	
	05	3	
70	10	5	
	17	7	
	23	6	
	27	4	
	30	3	
75	32	2	
	36	4	
	38	2	CONN
	10:46 48	2	
	50	2	
80	53	3	
	55	2	
	57	2	
	59	2	
	11:01	2	
85	03	2	
	05	2	
	07	2	
	09	2	
	10	1	
90	12	2	
	14	2	
	16	2	
	18	2	
	19	1	
95	21	2	
	23	2	
	25	2	
	27	2	
	30	3	
4000	34	4	

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

RECEIVED
 STATE CORPORATION COMMISSION

AUG - 1 1990
 CONSERVATION DIVISION
 Wichita, Kansas

15-109-20474-00-00

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Hogans STATE KS
 CONTRACTOR Red Tiger Rig #9 SIZE HOLE 7 7/8 DRILL PIPE 5"
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4000	11:34	5	
	39	5	
	44	5	
	50	6	
	55	5	
08	12:00	5	
	05	5	
	09	4	
	12	3	CONN Jetshole
	12:29	2	
	31	2	
10	33	2	
	36	3	
	39	3	
	42	3	
	47	5	
15	53	6	
	59	6	
	1:05	6	
	10	5	
	15	5	
20	20	5	
	24	4	
	29	5	
	34	5	
	39	5	
25	44	5	
	48	4	
	52	4	
	56	4	
	2:02	6	
30	07	5	
	13	6	
	18	5	
	23	5	
	29	6	
35	35	6	
	41	6	
	45	4	
	49	4	
	52	3	CONN Rig ✓
40	30	6	
	25	10	
	31	6	
	38	7	
	42	4	
45	44	6	
	46	2	
	48	2	
	50	2	
	53	3	
4050	55	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4000	55	2	
	57	2	
	4:01	4	
	04	3	
	06	2	
08	09	3	
	11	2	
	18	7	
	26	8	
	32	6	
60	39	7	
	45	6	
	51	6	
	53	2	
	56	3	
65	59	3	
	504	5	
	09	4	
	14	5	
	16	2	
70	18	2	CONN
	25	3	
	28	3	
	31	3	
	33	2	
	37	4	
75	603	2	work on pump
	07	2	
	09	2	
	11	2	
	12	1	
80	14	2	
	17	3	
	19	2	
	21	2	
	23	2	
85	26	3	
	31	5	
	36	5	
	43	7	
	50	7	
90	56	6	
	59	3	
	7:03	4	
	07	4	
	12	5	
95	18	6	
	25	7	
	31	6	
	37	6	
	44	7	call Dick P
4100	52	8	672-3131

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

RECEIVED
 STATE CORPORATION COMMISSION
 AUG - 4 1989
 CONSERVATION DIVISION
 DRILLING PERMITS

rm #156

COMPANY F.O.C. FARM JOHNSTON WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Logan STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4100	52	8	
01	8:00	8	
	09	9	CONN
	17	10	
	38	11	
05	47	9	
	55	8	vis 62
	9:04	9	wt 9.4
	09	5	
	14	5	
10	21	7	
	27	6	
	33	6	
	39	6	
	43	4	
15	47	4	
	52	5	
	56	4	vis 64
	10:00	4	wt 9.4
	04	4	
20	07	3	
	11	4	
	15	4	
	19	4	
	25	6	
25	31	6	
	36	5	
	42	6	
	49	7	VR
	53	4	
30	57	4	cell talk
	11:00	3	or before 11:00
	04	4	add 2:62
	10	6	Conn Bit Trip
	41	10	Junk Basket
35	38	11	stop cond hole Bit Trip
	27	33	4
	37	4	
	40	3	
	43	42	3 1/2
40	46	2 1/2	stop
	55	3	
	57	4	
	70	2	3
	05	3	
	09	4	
		4	
2			
26			
50	34	0	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4150	34	42	8
51	50	8	
	58	8	
	8:26	8	vis 47
55	14	8	wt 9.3
	25	11	(HARD lime section)
	36	11	
	47	8	STOP + WASH BY SUNK
	05	8	
60	13	48	
	22	9	
	30	8	
	35	5	
	39	4	
65	43	4	
	47	4	
	50	3	CONN
	10:05	11	6
	14	3	45 vis
			9.3 wt
70	17	3	
	21	4	
	25	4	
	29	4	
	34	5	
75	41	7	
	48	7	
	56	8	
	11:08	12	
	16	8	
80	21	5	
	25	4	
	30	5	
	35	5	
	41	6	
85	46	5	
	52	6	
	58	6	
	12:04	6	- STOP - 30" C.P.S
	42	46	4
90	52	6	
	57	5	
	11:04	7	
	08	4	
	14	6	
	19	5	
		5	Co
		5	Rig ✓

RECEIVED
 STATE CORPORATION COMMISSION
 AUG - 4 1989
 CONSERVATION DIVISION
 Wichita, Kansas

15-109-20474-00-00

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. . RGE. LOC. COUNTY Logan STATE Ks
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4200 01	2:01 05	4	Vis = 4.3 W.F. = 9.3
	09	4	
	17	8	
	26	9	
05	35	9	
	42	7	
	49	6	
	52	6	
	58	6	
10	3:06	8	
	14	8	
	23	9	
	30	7	
	35	6	
15	41	6	
	50	4	
	56	6	
	4:04	8	
	13	9	
20	22	9	
	30	8	
	39	9	
	47	8	
	56	9	
25	5:04	8	
	12	6	
	17	6	
	23	6	CONN
	29 36	7	Vis = 4.3 W.F. = 9.3
30	44	8	-stop - C.F.S. 30"
	19 22	4	
	26	4	
	32	6	
	38	6	
35	44	6	
	51	3	
	52	5	
	7:05	5	
	11	7	
40	17	6	
	21	6	
	24	4	
	28	3	
	33	4	
45	39	5	
	41	2	
	47	6	
	48	1	
	50	2	
50	53	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4200 01	53 54	1	
	56	2	
	58	2	
	8:00	2	
55	61	1	
	03	2	
	06	3	
	09	3	
	12	3	CONN
60	8:16 21	4	
	24	3	
	27	3	
	31	4	
	35	4	
65	38	3	
	42	4	
	45	3	
	50	5	
	53	3	
70	58	5	Cell Dick
	9:03	5	
	06	3	
	11	5	
	15	4	-stop - C.F.S. 30"-60"
75	10:14 19	5	
	24	5	
	28	4	
	32	4	
	35	3	
80	39	4	
	44	5	
	50	6	
	55	5	
	58	3	
85	11:01	3	
	07	6	
	12	5	
	17	5	
	21	4	
90	25	4	CONN
	11:31 35	4	
	42	7	
	48	6	
	53	5	
95	12:01	8	
	07	6	
	11	4	
	14	3	
	17	3	
4300	21	4	Cell Dick

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

RECEIVED
STATE COMMISSION
NOV - 1 1998
CONSERVATION DIVISION
Wichita, Kansas

15-109-20474-00-00

COMPANY F.O.S.C. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Logan STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4300	12:21		
01	24	3	Vis = 44
	28	4	WT = 9.4
	34	6	
	42	8	
05	47	5	
	52	5	-stop - CFS 30'-60'
	1:31		
	35	4	
	42	7	
	48	6	
10	55	7	
	2:03	8	
	09	6	
	15	6	
	22	7	
15	29	7	
	36	7	
	44	8	
	52	8	
	3:01	9	
20	09	8	✓
	16	7	
	22	6	CONN
	35	8	Vis 44 wt 9.4
	41	8	
	50	10	
25	4:01	10	
	11	10	
	19	8	
	27	8	
	36	9	
30	44	8	Call Dick P
	50	6	672-3131
	55	5	no # 156
	5:00	5	
	03	3	-stop-
35	12:15	3	
	13	3	
	23	5	
	20	9	
	40	8	
40	48	8	Stop - CFS DST #1
	7:30	4	
	41	7	
	53	12	
	8:04	11	
45	11	7	
	17	6	
	24	7	
	31	7	
	36	5	
50	41	5	CONN

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4350	8:51		
51	54	3	
	59	5	
	9:04	5	
	10	6	
55	14	4	
	20	6	
	26	6	
	30	4	
	35	5	
60	39	4	
	44	5	
	50	6	
	55	5	
	10:02	7	
65	06	4	
	09	3	
	12	3	
	17	5	
	23	6	
70	28	5	Vis 52
	35	7	W.T. 9.4
	41	7	
	46	5	
	51	5	1 1/4
75	56	5	
	11:02	6	1
	07	5	1.25
	12	5	1.50
	18	6	2.50
80	23	5	Call Dick P
	29	6	5.25
	11:36	8	P. O room. conn
	44	8	672-3131-156
	52	6	
	12:00	8	
85	05	5	
	10	5	-stop - CFS 30'-60'
	11:05	3	
	12	4	
	19	7	
90	26	7	
	33	7	
	40	7	
	48	8	
	55	7	
95	12:02	7	
	09	7	
	16	7	
	23	7	
	27	4	
4400	31	4	

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

RECEIVED BY
 STATE COMMISSION
 NOV - 4 1980
 CONSERVATION DIVISION

15-109-20474-00-00

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Zogon STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4400	12:31		
01	37	6	Vis = 47 W.T. = 9.5
	45	8	
	52	7	
	59	7	
05	1:06	7	
	13	7	
	21	8	
	28	7	
	35	7	
10	42	7	
	49	7	
	55	6	CONN Set lower
	Bill 13	4	Volume add
	20	5	Drispac
15	23	3	
	27	4	
	33	7	
	40	7	
	49	9	
20	57	8	
	305	8	
	13	8	
	22	9	
	30	8	
25	37	7	
	45	8	
	52	7	
	4:00	8	Premix in
	09	9	
30	16	7	
	23	7	
	28	5	
	33	5	
	39	6	
35	48	6	
	51	6	
	56	5	
	5:02	6	
	08	6	
40	14	6	
	19	5	
	24	5	CONN
	31 35	4	
	41	6	Vis 50 WT 9.4
45	46	5	
	54	8	
	6:04	8	
	10	6	
	14	4	
50	18	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4400	6:15		
51	21	3	
	24	3	
	27	3	
	29	2	
55	32	3	
	34	2	
	37	3	
	40	3	
	44	4	
60	47	3	
	52	5	
	59	7	
	7:07	8	
	13	6	
65	18	5	
	26	8	
	32	6	
	39	7	
	45	6	
70	51	6	
	59	8	
	8:06	7	
	12	6	CONN Rig
	8:20 26	6	
75	31	5	Vis 50
	37	6	W.T. 9.4
	41	4	
	46	5	
	55	9	
80	9:03	8	
	10	7	
	17	7	
	22	5	
	27	5	
85	31	4	
	36	5	
	42	6	
	46	4	
	51	5	
90	55	4	
	10:00	5	
	04	4	
	09	5	
	15	6	
95	20	5	
	25	5	
	31	6	
	37	6	
	41	4	
9:50	47	6	

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

RECEIVED
 STATE CORPORATION COMMISSION
 AUG 4 1969
 CONSERVATION DIVISION
 Wichita, Kansas

COMPANY F.O.C. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Logan STATE Ks
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4660	10:47		
01	53	6	
	11:01	8	
	07	6	
	14	7	
05	19	5	CONN
	11:30	4	
	35	5	
	40	5	
	48	5	
10	50	5	
	54	4	
	59	5	
	12:06	7	
	14	8	
15	20	6	
	25	5	
	29	4	
	34	5	
	39	5	
20	44	5	
	49	5	
	55	6	
	1:00	5	
	06	6	
25	12	6	
	18	6	
	24	6	
	30	6	
	35	5	
30	40	5	
	47	7	
	52	5	
	58	5	
	2:03	5	vis 61
35	08	5	WT 9.4
	12	4	CONN
	2:20	4	
	24	4	
	28	4	
	33	5	
40	39	6	
	47	8	
	55	8	
	3:02	7	
	10	8	
45	17	7	vis 64
	23	6	WT 9.6
	27	4	
	32	5	
	40	8	
50	47	7	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4660	3:47		
51	55	8	
	4:02	7	
	10	8	
	16	6	
55	22	6	
	28	6	
	33	5	
	37	4	
	44	4	
60	44	4	
	48	4	
	53	5	
	58	5	
	5:02	4	
65	06	4	
	10	4	
	16	6	CONN Right
	29	4	
	37	6	
70	43	6	
	49	6	
	55	6	
	6:01	6	
	08	7	
75	15	7	
	21	6	
	28	7	
	35	7	
	42	7	vis 61
80	48	6	WT. 9.7
	55	7	
	7:02	7	
	09	7	
	18	9	
85	26	8	
	34	8	
	41	7	
	48	7	
	55	7	
90	8:02	7	
	11	9	
	19	8	
	27	8	
	35	8	
95	42	7	
	49	7	
	56	7	
	9:05	9	
	13	8	CONN
4660	20	26	6

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

RECEIVED
 STATE CORP. COMMISSION
 JUN - 4 1989
 CONSERVATION DIVISION
 Topeka, Kansas

COMPANY Frontier Oil Co. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Logan STATE Ks.
 CONTRACTOR Red Tiger Drllg. Rig #7 SIZE HOLE 7 7/8" DRILL PIPE 6"
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4600 01	9:26 34	8	VIS 55
	43	9	WT 9.5
	50	7	
	58	8	
05	10:25	7	
	13	8	
	23	10	VIS 56
	33	10	WT 9.6
	43	10	
10	54	11	
	11:03	9	
	13	10	
	20	7	
	27	7	
15	32	5	
	40	8	
	48	8	
	55	7	
	59	4	
20	12:06	7	
	15	9	
	23	8	
	30	7	
	35	5	
25	39	4	
	44	5	
	50	6	
	58	8	
	1:07	9	
30	15	8	CONN
	26 30	4	
	37	7	
	46	9	
	56	10	
35	2:06	10	
	15	9	
	24	9	
	33	9	
	42	9	
40	51	9	- stop -
	2:30 34	4	
	39	5	
	45	6	
	52	7	
45	56	4	
	3:00	4	
	08	8	
	14	6	
	18	4	
50	24	6	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4650 51	3:24 30	6	
	36	6	
	41	5	
	42	1	
55	44	2	
	49	5	
	55	6	
	4:01	6	
	06	5	
60	11	5	
	15	4	
	20	5	CONN
	32 36	4	
	42	6	
65	48	6	
	56	8	
	5:02	6	
	08	6	VIS 53
	15	7	WT 9.6
70	22	7	
	29	7	
	35	6	
	43	8	
	50	7	
75	56	6	
	6:02	6	
	09	7	
	16	7	
	25	9	
80	32	7	- stop -
	41	9	
	48	7	
	55	7	
	7:03	8	VIS 57
85	13	10	WT 9.7
	23	10	
	31	8	
	40	9	
	46	6	
90	51	5	
	57	6	
	8:04	7	CONN
	12 16	4	
	21	5	
95	26	5	
	33	7	
	39	6	
	45	6	57 VIS
	52	7	WT 9.7
4700	58	6	

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

RECEIVED
 STATE COMMISSION
 AUG - 4 1989
 CONSERVATION
 Wichita, Kansas

15-109-20474-00-00

COMPANY Frontier Oil Co. FARM Johnston WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Cogan STATE Ks.
 CONTRACTOR Red Tiger Drilg. Rig # 7 SIZE HOLE 7 7/8" DRILL PIPE 4"
 REMARKS: SIZE PUMP LINERS 6 1/2" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4700	8:58	7	
01	9:05		
	11	6	
	19	8	
	25	6	
05	31	6	stop CFS
10			
15			
20			
			CONN
25			
30			
35			
40			
45			
50			

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4750			
51			
55			
60			
65			
70			
75			
80			
85			
90			
95			
4800			

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

RECEIVED
 STATE CORPORATION COMMISSION
 AUG 4 1999
 CONSERVATION DIVISION
 Wichita, Kansas