

ORIGINAL

RELEASED

SIDE ONE

15-167-22,854-0000 SEP 24 1990

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

API No. 15-167-22,854-0000
County.....Russell..... FROM CONFIDENTIAL
C N/2 S/2 NW 34 11 15W East
..... Sec..... Twp.....Rge..... X West

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

3630 Ft North from Southeast Corner of Section
3960 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser.....N/A.....

Lease Name.....Abbott..... Well #..... 4

Operator Contact Person Jean Angle
Phone ... 316-263-1201

Field Name.....Eulert West.....

Contractor: License # 5302
Name ... Red Tiger Drilling Co.

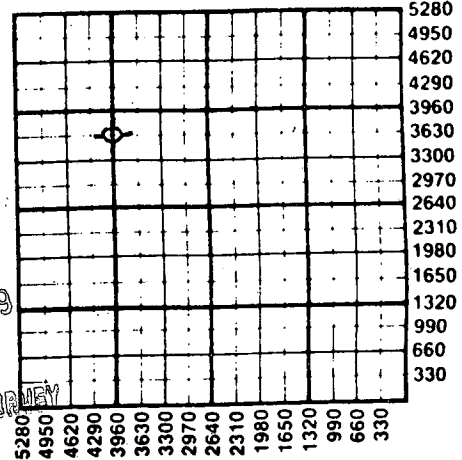
Producing Formation.....N/A.....

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

Elevation: Ground..... 1791 GR 1796 KB

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

Section Plat



JUN 27 1989

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

ALT II
D.A.

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

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

WELL HISTORY

Drilling Method:
X Mud Rotary Air-Rotary Cable

5-25-89..... 6-2-89..... 6-3-89.....
Spud Date Date Reached TD Completion Date
3294 N/A
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at..... 209 feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set..... feet
If alternate 2 completion, cement circulated
from..... feet depth to..... w/..... SX cmt
Cement Company Name
Invoice #

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water: 89-76
Division of Water Resources Permit #.....

Groundwater..... Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge East West

X Surface Water 1600 Ft North from Southeast Corner
(Stream, pond, etc.) 5000 Ft West from Southeast Corner
Sec 4 Twp 12 Rge 15W East X 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
Title..... Agent Date

Subscribed and sworn to before me this day of
19.....
Notary Public.....
Date Commission Expires..... 2-10-90



RCVO
06-28-89

JUN 28 1989

CONSERVATION DIVISION
Wichita, Kansas

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)

Form ACO-1 (5-86)

Sec 34 Twp 11 Rge 15W

Operator Name Frontier Oil Company Lease Name Abbott Well # 4

Sec 34 Twp 11 Rge 15W East West County Russell

CONFIDENTIAL

WELL LOG

SEP 24 1990

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report 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 [X] No
Cores Taken [] Yes [X] No

Formation Description
[] Log [X] Sample

DST #1 3022-3060 60-30 60-30. Rec. 868' MSW
IF 89-290 FF 356-412 ISIP 668 FSIP 668
DST #2 (3156-3200) 30-30-30-30 Rec. 5' M IF & FF
33-33 ISIP 33 FSIP 44
DST #3 (3230-3278) 30-30-30-30. Rec. 5' M w/few
oil spots. IF 22-22 FF 22-33 ISIP 401 FSIP 446
DST #4 (3230-3283) 30-30-30-30. Rec. 10' M IF 33-33
FF 44-44 ISIP 594 FSIP 335
DST #5 (3230-3288) 60-30-60-30 Rec. 125' SOCWM
IF 44-66 FF 78-89 ISIP 813 FSIP 757
DST #6 (3280-3294) 30-30-30-30 Rec. 60' SOCM
IF 22-22 FF 33-33 ISIP 868 FSIP 888

Table with 3 columns: Name, Top, Bottom. Rows include Anhydrite, Topeka, Heebner, Toronto, Lansing-Kansas City, Base of Kansas City, Arbuckle, and RTD.

CASING RECORD, PERFORATION RECORD, TUBING RECORD, and production data sections. Includes fields for Purpose of String, Size Hole, Size Casing, Weight, Setting Depth, Type of Cement, #Sacks Used, Type and Percent Additives, Shots Per Foot, Acid, Fracture, Shot, Cement Squeeze Record, Date of First Production, Producing Method, and Estimated Production.

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

15-167-22854-0000

COMPANY F.O.C. FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell 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

CONFIDENTIAL

CONFIDENTIAL

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2300	10:11	1	
01	12	1	
	14	2	CONN JET
	37	1	
	39	1	
05	41	2	Hopper open
	43	2	
	46	3	
	48	2	
	51	3	
10	53	2	
	55	2	
	57	2	
	59	2	
	11:01	2	
15	04	3	
	06	1	
	07	2	
	08	1	
	09	1	
20	10	1	
	11	1	
	13	2	
	16	2	
	17	2	
25	20	3	
	23	3	
	26	3	
	30	4	
	34	4	
30	38	4	
	41	3	
	44	3	
	46	2	CONN RIG ✓
	56	2	
35	12:01	3	
	04	3	
	07	3	
	10	3	
	13	3	
40	16	3	
	18	2	
	21	3	
	24	3	
	26	2	
45	29	3	
	31	2	
	35	4	
	38	3	
	41	3	
50	44	3	

JUN 27 1989
 KANSAS GEOLOGICAL SURVEY
 WICHITA BRANCH

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	12:45	3	
51	46	3	K C C
	49	3	
	51	2	
	54	3	
55	57	3	SEP 24 1990
	1:00	3	
	03	3	
	05	2	
	06	1	RELEASED
60	07	3	SEP 24 1990
	11	2	FROM CONFIDENTIAL
	14	3	
	17	3	
	19	2	CONN
65	24	2	
	26	2	
	29	3	
	31	2	
	35	4	
	38	3	
70	41	3	
	45	4	
	48	3	
	51	3	
	54	3	
75	57	3	SHUT IN
	59	2	Hopper
	2:02	3	
	04	2	
	07	3	
80	09	2	
	11	2	
	14	3	
	16	2	
	18	2	
85	21	3	
	23	2	
	26	3	
	28	2	
90	30	2	
	31	1	
	32	1	
	35	3	
	36	1	
	38	2	
95	39	1	CONN
	45	2	
	47	2	RECEIVED
	48	1	STATE CORPORATION COMMISSION
	50	2	JUN 28 1989
	52	2	CONSERVATION DIVISION
245	54	2	Wichita, Kansas

COMPANY FOC FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell 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
2400 01	2:54 56	2	Hoppers open
	57	1	
	59	2	{
	3:00	1	{
05	02	1	
	05	3	
	08	3	
	11	3	
	13	2	
10	16	3	
	19	3	
	22	3	
	25	3	
	28	3	
15	30	2	
	33	3	
	36	3	
	38	2	
	40	2	
20	42	2	
	45	3	
	47	2	
	49	2	
	51	2	
25	52	1	CONN
	57 58	1	
	59	1	
	9:00	1	
	01	1	
30	02	1	
	03	1	
	04	1	
	05	1	
	06	1	
35	07	1	
	08 1/2	1/2	
	08	1	
	09	1	
	10	1	
40	11	1	
	12	1	
	13	1	
	14	1	
	17	3	
45	19	2	
	20	1	
	213	3	
	26	2	
	28	3	
50	31	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50 51	431 34	3	
	37	3	
	40	3	
	43	3	
55	46	3	
	49	3	
	52	3	CONN
	57 58	3	
	03	3	
60	05	2	
	10	5	
	15	5	
	18	3	
	21	3	
65	25	4	
	29	4	
	32	3	
	35	3	
	38	3	
70	42	4	
	47	5	
	51	4	
	53	2	
	55	2	
75	57	2	
	58	1	
	58 6:00	2	
	02	2	
	06	4	
80	09	3	
	12	3	
	14	2	
	17	3	
	19	2	
85	22	3	
	24	2	
	27	3	CONN
	32 34	2	
	35	1	
90	36	1	
	37	1	
	38	1	
	39	1	
	41	2	
95	43	2	
	44	1	
	47	3	
	50	3	
	53	3	
100	56	3	

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

RECEIVED
 STATE COMMISSION
 JUN 28 1989
 CONSERVATION DIVISION
 Wichita, Kansas

11.0 ST.

COMPANY Frontier Oil Co.

FARM Abbott

WELL NO. 4

SEC. TWP. RGE. LOC.

COUNTY Russell

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
2590 01	7:56 7:00	4	
	04	4	
	07	3	
	10	3	
05	13	3	
	17	4	
	20	3	
	23	3	
	26	3	
10	29	3	
	30	1	
	32	2	
	35	1	
	37	2	
15	39	2	
	41	2	
	43	2	CONN Rig
	7:55 45	3	Mixed stroke
20	57	2	
	8:00	3	
	05	5	
	09	4	
	13	4	
25	16	3	
	20	4	
	24	4	
	27	3	
	29	2	
30	31	2	
	34	3	
	39	5	
	41	5	
	47	3	
35	51	4	
	54	3	
	57	3	
	9:00	3	
	04	4	
40	09	4	
	11	3	
	12	1	
	15	3	
	20	5	
45	24	4	
	30	6	
	34	4	
	40	6	
	45	4	
50	49	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2550 51	9:58 9:58	2	
	10:01	3	
	05	4	
	08	3	
55	10	2	
	13	3	
	16	3	
	18	2	
	21	3	
60	23	2	
	25	2	
	26	1	
	27	1	
	29	2	
65	31	2	
	33	2	
	35	2	
	37	2	
	38	1	
70	40	2	
	44	4	
	51	7	
	57	6	
	11:01	4	
75	07	6	
	12	5	
	15	3	
	18	3	
	21	3	
80	26	5	CONN
	11:30 30	2	
	37	3	
	39	2	
	41	2	
85	44	3	
	47	3	
	51	4	
	53	2	
	56	3	
90	58	2	
	12:00	2	
	02	2	
	04	2	
	07	3	
95	09	2	
	12	3	
	16	4	
	17	1	
	19	2	
2600	21	2	

RECEIVED
STATE CONSERVATION COMMISSION
JUN 28 1989
CONSERVATION DIVISION
Wichita, Kansas

Russell Record Print, Russell, Kan.

COMPANY F.O.C. FARM Abbott WELL NO. 4
 SEC. TWP. .RGE. LOC. COUNTY Russell 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
2605	12:21		
	25	4	
	27	2	
	30	3	
	32	2	
05	34	2	
	36	2	
	38	2	
	40	2	
	42	2	
10	43	1	
	44	1	
	45	1	CONN
	51	1	
	52	1	
15	53	1	
	55	2	
	57	2	
	58	1	
	1:00	2	
20	01	1	
	02	1	
	03	1	
	05	2	
	07	2	
25	08	1	
	09	1	
	10	1	
	12	2	
	13	1	
30	14	1	
	16	2	
	17	1	
	18	1	
	19	1	
	22	3	
	24	2	
	26	2	
	28	2	
	30	2	
40	31	1	
	34	3	
	36	2	
	39	3	CONN
	1:46		
45	52	4	
	55	3	
	58	3	
	2:02	4	
	05	3	
2650	07	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2650	2:07		
	08	1	
	10	2	
	12	2	
	13	1	
55	17	4	VIS = 59
	22	5	WT. = 9.7
	31	9	U.C.M. = 1/2
	38	7	
	46	8	
60	53	7	
	59	6	
	3:05	6	
	09	4	
	13	4	
65	16	3	
	20	4	
	23	3	
	26	3	
	30	4	
70	34	4	
	38	4	
	42	4	
	45	3	
	49	4	CONN Rig ✓
75	5:57	3	
	06	4	
	10	4	
	14	4	
	18	4	
80	22	4	
	51:500	1	
	02	2	
	04	2	
	06	2	
85	07	1	
	09	2	
	10	1	
	13	3	
	17	4	
90	20	3	SR STATE
	23	3	SR
	25	2	
	29	4	
	32	3	
95	35	3	
	37	2	
	41	4	VIS 47
	45	4	WT 9.4
	50	5	
	55	5	

JUN 28 1989
 CONSERVATION DIVISION
 Wichita, Kansas

(over)

COMPANY F.O.C.

FARM Abbott

WELL NO. 4

SEC. TWP. RGE. LOC.

COUNTY Russell

STATE KS

CONTRACTOR Red Tiger Rig #7

SIZE HOLE 7 7/8

DRILL PIPE 5

REMARKS:

SIZE PUMP LINERS 672 LENGTH STROKE 14

Dick P. 483-2415 (Home)

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
27 01	5:55 59	4	UIS 47
	05	6	WT 9.4
	10	5	
	14	4	
05	19	5	
	24	5	CONN
	30 35	5	
	41	6	
	45	4	CFS
10	49	4	STOP 30" + 60"
	23 26	3	
	29	3	
	33	4	
	37	4	
15	41	4	
	46	5	
	52	6	
	57	5	
	8:01 01	4	
20	06	5	
	12	6	
	18	6	
	23	5	
	29	6	
25	35	6	
	39	4	
	43	4	
	47	4	
	51	4	
30	54	3	
	59	5	
	9:04	5	UIS 43
	09	5	WT 9.4
	15	6	
35	20	5	
	25	5	
	30	5	CONN
	35 03	7	Hopper OPEN
	49	6	
40	55	6	
	10:01	6	
	09	8	
	16	7	
	22	6	Shut Hopper
45	29	7	
	35	6	
	42	1	
	47	5	
	52	5	
50	58	6	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50 51	58 11:01	6	Vis = 50 W.T = 9.2
	10	6	
	16	5	
	22	7	
55	29	6	
	32	4	
	37	5	
	42	5	
	47	5	
60	54	7	
	59	6	
	12:04	5	
	09	5	
	14	5	
65	19	5	
	24	5	
	28	4	
	34	6	CONN
	44 30	6	
70	35	5	
	1:00	5	
	05	5	
	13	8	
	20	7	
75	26	6	
	29	7	
	33	4	
	38	5	
	46	8	
80	51	5	
	55	4	
	2:00	5	
	04	4	
	09	5	
85	16	6	
	21	5	
	28	7	
	36	8	
	45	9	
90	51	6	
	59	8	
	3:05	6	
	08	3	
	12	4	
95	15	3	
	22	7	
	29	7	
	36	7	
	42	6	
2:00	49	7	CONN

Russell Record Print, Russell, Kan.

RECEIVED
STATE COS
JUN 28 1989
CONSERVATION
- Wichita, Kansas

COMPANY F.O.C. FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell 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
25:00 01	6:59 4:06	4	vis=47 D.F.=9.4
	09	5	
	16	6	
05	21	6	
	28	7	
	36	8	
	43	9	
	49	6	
10	53	4	
	59	6	
	5:06	7	
	11	5	
	18	7	
15	27	9	
	35	8	
	43	10	
	50	5	
	53	3	
20	57	4	
	6:00	3	
	05	5	
	08	3	
	14	6	
25	20	6	
	26	6	
	32	6	
	37	5	
	41	4	
30	47	6	conn Rig ✓
	6:54 6:01	4	
	01	3	
	07	3	
	13	5	
35	20	7	
	27	7	
	32	5	
	37	5	
	42	5	
40	47	5	
	53	6	
	8:00	7	
	02	2	
	05	3	
45	07	2	
	10	3	
	14	4	
	18	4	
	23	5	
50	28	5	

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50 51	8:26 35	7	
	40	5	
	45	5	
	50	5	
55	55	5	
	59	4	
	9:03	4	
	08	5	
	13	5	
60	17	4	
	22	5	CONN
	9:29 33	4	
	38	5	
	43	5	
65	47	4	
	51	4	
	54	3	
	58	4	
	10:01	3	
25:00	04	3	
	07	3	
	11	4	
	14	3	
	16	2	
75	18	2	
	21	3	
	23	2	
	26	3	
	29	3	
80	32	3	conn Dick
	35	3	483-2415
	37	2	
	39	2	
	41	2	
85	44	3	
	46	2	
	49	3	
	52	3	
	56	4	
25:00	11:00	4	-Stop - 30" - 60"
	12:33 36	3	
	39	3	CONN
	12:46 48	2	
	51	3	
95	54	3	
	57	3	
	59	2	
	1:02	3	
	05	3	
25:00	08	3	

RECORDED
STATE GEOLOGICAL SURVEY
JUN 28 1989
CONSERVATION DIVISION
Wichita, Kansas

COMPANY F.O.C.

FARM Abbott

WELL NO. 4

SEC. TWP. RGE. LOC.

COUNTY Russell

STATE K.S.

CONTRACTOR Red Tiger Rig #7

SIZE HOLE 7 7/8

DRILL PIPE 5

REMARKS:

SIZE PUMP LINERS 6 1/2 LENGTH STROKE 41

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800	1:08		
	11	3	
	13	2	
	17	4	
	19	2	
05	22	3	
	25	3	
	29	4	
	31	2	
	33	2	
10	35	2	
	36	1	
	39	3	
	43	4	
	46	3	
15	50	4	
	52	2	
	54	2	
	56	2	
	58	2	
20	2:01	3	
	04	3	
	07	3	
	10	3	
	12	2	CONN
25	2:18	2	
	20	2	
	22	2	
	24	2	
	27	3	
	30	3	
30	34	4	vis 49
	38	4	wt 9.5
	43	5	
	47	4	
	52	5	
35	56	4	
	3:01	5	
	06	5	
	10	4	
	15	5	
40	22	7	
	29	7	
	35	6	
	40	5	
	44	7	
45	48	4	
	51	3	
	53	2	
	56	3	
	58	2	
2950	4:00	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800	4:00		
	01	1	
	03	2	
	05	2	
	07	2	
55	09	2	CONN
	19	1	
	20	1	
	22	2	
	24	2	
	26	2	2800
60	29	3	
	34	5	
	38	4	
	43	5	
	47	4	
65	51	4	← TIME
	55	4	SR
	5:00	5	
	03	3	
	07	4	
70	12	5	call Dick P.
	17	5	483-2415
	22	5	Russell
	27	5	
	32	5	
75	36	4	
	42	6	
	47	5	
	51	4	
	55	4	
2850	58	3	stop.
	51	5	
	56	5	
	7:01	5	
	05	4	
	09	4	
85	13	4	
	17	4	CONN
	23	3	
	26	3	
	32	6	
	38	6	
90	43	5	
	49	6	
	55	6	
	6:02	7	
	08	6	
95	15	7	
	22	7	
	29	7	
	35	6	
	41	6	
300	46	5	

RECEIVED
STATE CORPORATION COMMISSION
JUN 28 1989
CONSERVATION
Wichita, Kansas

COMPANY F.O.C. FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell STATE KS
 CONTRACTOR Red Tiger Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 1/4

46
9.6

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	35 01	46 51	5	
		55	4	
		59	4	
		9:04	5	
	05	10	6	
		17	7	vis. - 46 Hopper
		23	6	wt. - 9.7 open
		31	8	
		39	8	
	10	47	8	
		55	8	
		10:02	7	
		09	7	Hopper shut
		17	8	
	15	23	6	
		27	4	
		35	8	CONN
		41 47	6	
		48	8	
	20	11:02	7	
		08	6	vis = 48 wt = 9.8
		14	6	
		22	8	
		29	7	
	25	33	4	
		41	8	
		48	7	
		55	7	
		12:00	5	
	30	06	6	
		13	7	
		17	4	
		21	4	
		26	5	
	35	34	8	
		41	7	
		50	9	
		59	9	
		1:05	6	
	40	12	7	Coll. 1/2 1/2
		18	6	2/23-24/5
		27	9	
		35	8	
		39	4	
		3	4	
		7		
		5		ER
		4		CONN Rig
		1 1/2		
		1 1/2		

DEPTH	TIME O'CLOCK	MIN.	REMARKS	
	50 51	2:15 15	2	
		19	4	
		24	3	
		30	6	
	55	37	7	
		41	4	R
		44	3	R
		48	4	vis 48
		53	3	wt 49
	60	57	4	stop & wait
		45 47	2	CFS 30"
		50	3	
		54	4	
		59	5	
	65	5:05	6	
		11	6	
		17	6	
		24	7	
		30	6	
	70	36	6	
		43	7	
		50	7	
		56	6	
		6:02	6	
	75	09	7	
		15	6	
		22	7	
		28	6	
		33	5	CONN
	80	44 51	7	
		7:00	9	vis. - 44 Hopper open
		08	8	wt. - 9.7
		17	9	
		25	8	
	85	32	7	
		39	7	
		45	6	
		52	7	
		58	6	
	90	8:04	7	
		08	4	
		15	7	
		22	7	
		27	5	
	95	34	7	
		40	6	
		47 52	5	pump
		57	5	
		9:00	3	
	100	04	4	

STATE OF KANSAS
 JUN 28 1989
 CONSERVATION DIVISION
 Wichita, Kansas

COMPANY F.O.C. FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell STATE KS
 CONTRACTOR Red Tgy Rig #7 SIZE HOLE 7 7/8 DRILL PIPE 5
 REMARKS: SIZE PUMP LINERS 6 1/2 LENGTH STROKE 4

DATE:

DEPTH	TIME O'CLOCK	MIN.	REMARKS
310	7:04		
01	01	5	
	15	6	
	22	7	
	29	7	vis. = 50
05	35	6	wt. = 9.6
	42	7	
	48	6	
	55	7	
	10:02	7	
10	08	6	CONN
	14	19	5
	25	6	
	32	7	
	36	4	
15	40	4	W.T. = 9.6 Vis = 53
	45	5	
	51	6	
	57	6	
	11:03	6	
20	11	8	
	18	7	
	24	6	
	31	7	
	38	7	
25	44	6	
	52	8	
	12:00	8	
	08	8	
	15	7	
30	22	7	
	26	4	
	30	4	
	34	4	
	38	4	
35	45	7	
	50	5	
	56	6	
	1:02	6	
	09	7	
40	16	7	
	22	6	CONN
	34	37	3
	43	6	
	49	6	
45	54	5	
	261	7	
	07	6	
	14	7	
	21	7	
	26	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	2:26		
51	32	6	
	38	6	
	41	8	
	53	7	vis 50
55	3:00	7	wt 9.7
	07	7	
	15	8	
	22	7	
	30	8	
1-0	37	7	
	44	7	
	47	3	
	53	8	
	4:02	7	
65	09	7	
	14	5	
	20	6	
	26	6	
	30	4	
70	35	5	
	39	4	
	44	5	
	49	5	CONN
	55	38	3
75	5:01	3	
	05	4	
	11	6	
	16	5	
	22	6	
80	29	7	vis = 50
	34	5	wt = 9.6
	41	7	
	48	7	
	54	6	
85	6:01	7	
	09	8	
	15	6	
	22	7	
	29	7	
90	33	4	Call Dick (called)
	37	4	Rig #17
	42	8	625-7997
	47	5	
	53	6	
95	57	4	
	7:02	5	
	09	7	
	14	5	
	20	6	
	26	6	

Russell Record Print, Russell, Kan.

STATE OF KANSAS
 JUN 28 1989
 CONSERVATION DIVISION
 Wichita, Kansas
 5' x 22" x 30" x 60" CS

COMPANY FOC FARM Abbott WELL NO. 4
 SEC. TWP. RGE. LOC. COUNTY Russell STATE Ks
 CONTRACTOR Red Tiger Rig #1 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	
32:00	44	50	6	cond hole 1 hr
	56	6		Drlog Ahead
	6:01	5		get mud in shape
	05	4		CONN Before you drill
05	19	21	7	
	28	7		
	36	8		
	45	9		
	53	8		
10	7:01	8		
	07	6		
	15	8		
	22	7		
	32	10		
15	43	11		
	54	11		
	8:02	8		
	07	5		UIS. - 59
	12	5		WT. - 9.5
20	16	4		
	19	3		
	23	4		
	27	4		
	32	5		
25	41	9		
	47	6		
	55	8		
	9:02	7		
	10	8		
30	17	7		call Dick
	26	7		Phone 483-2415
	32	6		
	37	5		
	41	4		
35	45	4		CONN
	51	54	3	
	57	3		
	10:00	3		
	03	3		UIS-50
40	06	3		WT.-9.6
	11	5		
	19	8		SR
	26	7		
	33	7		
45	39	6		STOP C.F.S 30"
	11:10	13	3	
	16	3		
	19	3		
	22	3		
50	25	3		

DEPTH	TIME O'CLOCK	MIN.	REMARKS	
51	11:25	29	4	
	33	4		
	37	4		
	41	4		
55	46	3		
	52	6		
	58	6		
	12:03	5		
	06	3		
60	09	3		vsR - stop - C.F.S 30"
	44	47	3	vsR
	50	3		
	57 1/2	7 1/2		
	1:04	6 1/2		
65	09	3		-stop - C.F.S 30"
	15	6		CONN
	58	2:01	3	
	04	3		
	08	4		
70	12	4		vsR - stop C.F.S 30"
	48	51	3	
	54	3		
	58	4		
	3:03	3		
75	08	3		stop C.F.S 30"
	4:08	38	2	
	12	4		R
	17	3		stop DST #3
	31	41	4	
80	45	4		SR
	49	4		
	53	4		
	57	4		R stop C.F.S. DST #4
	3:01	04	3	
85	08	4		
	12	4		
	15	3		vsR
	18	3		vsR
	5:53	53	3	stop C.F.S call
	58	5		Dick After 1/2 cond Tim
				- 483-2415 or Noble 625-2997
	4:01	6		SR
	09	5		
	13	4		UIS 50 WT 9.6
	17	4		-stop-
95				

RUSSELL RECORD PRINT, RUSSELL, KAN.
 401 AKI DRILLING TIME SHEETS

STATE OF KANSAS
 CONSERVATION DIVISION
 JUN 2-8 1989
 Wichita, Kansas

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

ORIGINAL

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

ALLIED CEMENTING CO., INC. No. 7901

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	6-3-89	Sec.	34	Twp.	11s	Range	15w	Called Out	2:00 AM	On Location	4:00 AM	Job Start	7:30 AM	Finish	11:15	
Lease	ABBOTT	Well No.	#4	Location				Center 1 E S. To Paradise	County	Russell	State	Kansas				
Contractor	Red Tiger Drilling Rig #7															
Type Job	Rotary Plug															
Hole Size	7 7/8	T.D.	3294													
Csg.	8 5/8 Surface	Depth	209													
Tbg. Size		Depth														
Drill Pipe	5 1/2 X-H	Depth	3273													
Tool		Depth														
Cement Left in Csg.		Shoe Joint														
Press Max.		Minimum														
Meas Line		Displace														
Perf.																

Owner
 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
 Frontier Oil Company
 Street 1437 N. Franklin
 City Russell State Kan 67666

The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No.
 X *Wm J. Hayes*

EQUIPMENT

Pumptrk #177	No.	Cementer	<i>W. J. Hayes</i>
		Helper	
Pumptrk #160	No.	Cementer	<i>Ed</i>
		Helper	
Bulktrk #160		Driver	
		Driver	

1 SK Flo-Seal
 Amount Ordered 205 SK ⁶⁰/₄₀ 6% gel 2% C.C.

Consisting of

Common	123	SKs @ 5.00	615.00
Poz. Mix	82	SKs @ 2.25	184.50
Gel.	10	SKs @ 6.75	67.50
Chloride	4	SKs @ 20.00	80.00
Quickset			
Flo-Seal	1 SK	@ 40.00	40.00

Handling	.90 per SK	184.50	
Mileage	.03 per Ton Mile	116.55	
	19 mile		
		Sub Total	
		Total	1,208

DEPTH of Job

Reference:	Pump TRUCK CHRG.	360.00
	1- 8 5/8 Dry Hole Plug	20.00
	1.00 per mile	19.00
	Sub Total	
	Tax	
	Total	399.00

Remarks:
 25 SK @ 3293
 25 SK @ 900
 90 SK @ 650
 40 SK @ 250
 10 SK @ 40 ct wiper Plug
 15 SK @ Rathole

Shank
 RECEIVED
 STATE CONSERVATION COMMISSION
 SEP 21 1990
 CONSERVATION DIVISION
 Wichita, Kansas

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 5511

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

Date	5-25-89	Sec.	34	Twp.	11	Range	15 W	Called Out		On Location		Job Start	2:20 PM	Finish	2:45 PM
Lease	Abbott	Well No.	4	Location				Cochran 1E 12 N NE 2N		County	Russell	State	Ks		
Contractor	Red Tiger														
Type Job	Surface														
Hole Size	12 1/4		T.D.	212											
Csg.	8 1/2		Depth	209											
Tbg. Size															
Drill Pipe															
Tool															
Cement Left in Csg.	10 1/2		Shoe Joint												
Press Max.															
Meas Line															
Perf.															

Owner *IE 6.5*
 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 *Frontier Oil Co*
 Street *1437 N Franklin*
 City *Russell* State *Kan 67664*

The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No.
 X *Wm L Ayres*

Amount Ordered *130 60*
~~130 60~~ *3 1/2 CC 2 1/2 gal*

Consisting of			
Common	<i>78</i>	<i>500</i>	<i>390.00</i>
Poz. Mix	<i>52</i>	<i>225</i>	<i>117.00</i>
Gel.	<i>3</i>	<i>6.75</i>	<i>20.25</i>
Chloride	<i>4</i>	<i>20.00</i>	<i>80.00</i>
Quickset			

EQUIPMENT

No.	Cementor	<i>Dave</i>
Pumptrk <i>153</i>	Helper	
No.	Cementor	<i>Beard</i>
Pumptrk	Helper	
	Driver	<i>Ed</i>
Bulktrk <i>160</i>	Driver	

DEPTH of Job

Reference:	<i>Pump tick chg</i>	<i>360.00</i>
	<i>100 per mile</i>	<i>19.00</i>
	<i>8 1/2 wooden plug</i>	<i>40.00</i>
	Sub Total	<i>419.00</i>
	Tax	
	Total	

Remarks: *Cement Cir*

Handling	<i>90</i>	<i>117.00</i>
Mileage <i>19 mi</i>	<i>03</i>	<i>74.10</i>
	Sub Total	<i>798.30</i>
	Total	

Floating Equipment

RECEIVED
 STATE CORPORATION COMMISSION
 SEP 21 1989
 CONSERVATION DIVISION
 Wichita, Kansas