

ORIGINAL

SIDE ONE

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. 15-159-22,250-0000 SEP 24 1990  
County Rice FROM CONFIDENTIAL  
C NW SE Sec 29 Twp 21 Rge 9W East  
..... West

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

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

Purchaser Koch Oil Company  
P.O. Box 2256, Wichita, KS 67201

Lease Name Wellman Well # 2

Operator Contact Person Jean Angle  
Phone 316-263-1201

Field Name Alden West

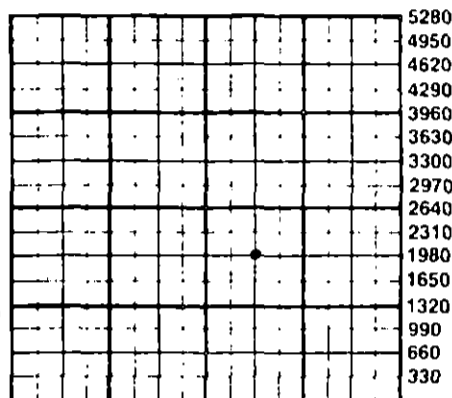
Producing Formation Simpson

Contractor: License # 5302  
Name Red Tiger Drilling Co

Elevation: Ground 1704 KB 1709

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

Section Plat



6-12-89

RECEIVED  
STATE CORPORATION COMMISSION

JUN 12 1989

CONSERVATION DIVISION  
Wichita, Kansas

JUN 13 1989

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

ALT I  
9-24-90

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  Gas  Dry  
 SWD  Inj  Other (Core, Water Supply etc.)  
 Temp Abd  Delayed Comp.

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

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:  
Division of Water Resources Permit # 89-193

Groundwater 1900 Ft North from Southeast Corner  
(Well) 2000 Ft West from Southeast Corner of  
Sec 29 Twp 21 Rge 9W  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. #)

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

5-2-89 ..... 5-7-89 ..... 6-5-89 .....  
Spud Date Date Reached TD Completion Date  
3538 N/A  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 236 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 #

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 6-9-89

Subscribed and sworn to before me this 9th day of June 1989  
Notary Public D'Ann Drennan

Date Completion 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)

JAN 1990

Operator Name Frontier Oil Company Lease Name Wellman Well # 2

Sec. 29 Twp. 21 Rge. 9W  East  West County Rice **RELEASED**

**CONFIDENTIAL**

SEP 24 1990

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.

FROM CONFIDENTIAL

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

Formation Description  
 Log  Sample

DST #1 (3514-3538) 60-45-60-45. Rec. 600' GIP, 210' fl. (30' HOCM, 60' CGO, 30' GHOCM, 90' SOCM) IF 44-78 FF 111-133 ISIP 871 FSIP 806

Name	Top	Bottom
Anhydrite	291	+1418
Heebner	2851	-1142
Toronto	2873	-1164
Brown Lime	2987	-1278
Lansing	3023	-1314
Base Kansas City	3311	-1602
Kinderhook Shale	3338	-1629
Kinderhook Sand	3354	-1645
Viola	3463	-1754
Simpson Shale	3522	-1813
Simpson Sand	3528	-1819
RTD	3538	-1829

**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# (new)	236	60-40 port	160	2% gel, 3% CC
Production	7-7/8"	4 1/2"	9 1/2# (used)	3530	Com	175	10% Salt

**PERFORATION RECORD**  Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Depth
4	3526-28	Op. Hole
		1000 gal mud acid
		1500 gal MCA 7 1/2% acid

**TUBING RECORD** Size 2-3/8" Set At 3524 Packer at N/A Liner Run  Yes  No

Date of First Production 6-5-89 Producing Method  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity
	20 BOPD	N/A	5BW		

**METHOD OF COMPLETION**  Dually Completed  Commingled

Disposition of gas:  Vented  Sold  Used on Lease  Open Hole  Perforation  Other (Specify) ..... 3526-38'

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

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

# ALLIED CEMENTING CO., INC. N° 982

NEW

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
5-8-89	29	21	9	4:00 P.M.	6:30 P.M.	9:00 P.M.	10:00 P.M.
Lease	Well No.	Location			County	State	
Williams	# 27	Alden, Star River Bridge, 1/25, 1/4 to Rice			Rice	KS	
Contractor				Owner			
Red Tiger Rig #5				Same			
Type Job				<b>ORIGINAL</b> 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.			
Production							
Hole Size	T.D.						
7 7/8"	3538'						
Csg.	Depth						
4 1/2"	3530'						
Tbg. Size	Depth						
Drill Pipe	Depth						
Tool	Depth						
Cement Left in Csg.	Shoe Joint						
22.71	22.71						
Press Max.	Minimum						
Meas Line	Displace						
	57 1/4 bbl.						
Perf.							

**EQUIPMENT**

#	No	Cementer	Tim
		Helper	Mike
Pumptrk	181	Cementer	
		Helper	
#	No	Driver	Jack S.
		Driver	
Bulktrk	101		

**DEPTH of Job**

Reference:	Pumptrk Charge	838.00
	Pumptrk Mileage	40.00
	4 1/2" Rubber Plug	31.00
	Sup Total	
	Tax	
	Total	909.00

Remarks: Ran 3530' of 4 1/2 csg. Mixed  
 175 SKS COMMON 10% Salt Pumped  
 Plug to 3515' with fresh water.  
 Float did Hold. *Handy*

Charge To	Frontier Oil Co.		
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.			
X.	<i>[Signature]</i>		
<b>CEMENT</b>			
Amount Ordered	175 SKS COMMON, 10% Salt,		
Consisting of			
Common	175	5.00	875.
Poz. Mix			
Gel.			
Chloride			
Quickset			
	Salt 17	4.75	80.
		Sales Tax	
Handling	175	.90	157.
Mileage	40		210.
		Sub Total	
		Total	1323

Floating Equipment

**TOTAL # 2232.25**  
 Less Disc - 446.45  
 # 1785.80

RECEIVED  
 STATE BOARD OF REGISTRATION 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

# ALLIED CEMENTING CO., INC. N<sup>o</sup> 979

New

Home Office P. O. Box 31

Russell Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
5-2-89	29	21	9	9:30 A.M.	11:30 A.M.	1:45 P.M.	2:15 P.M.
Lease Wellman		Well No. #2		Location Alden, 5 <sup>00</sup> ft. River Bridge, 1/2 S, 1/2 W		County Rice	State KS

Contractor Red Tiger #5	
Type Job Surface	
Hole Size 12 1/4"	T.D. 240'
Csg. 8 5/8"	Depth 240'
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. 15'	Shoe Joint
Press Max.	Minimum
Meas Line	Displace 14.6 bbl
Perf.	

Owner Same
<b>ORIGINAL</b>
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 KS 67665
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
x Walter J. Edwards
<b>CEMENT</b>

EQUIPMENT		
# No	Cementer	Tim
Pumptrk 120	Helper	Brad
# No	Cementer	
Pumptrk	Helper	
# No	Driver	Jack S.
Bulktrk 68	Driver	

Amount Ordered	1160 SKS 60/40 3% CC, 270 Gel.	
Consisting of		
Common	96	5.00 480.00
Poz. Mix	64	2.25 144.00
Gel.	3	6.75 20.25
Chloride	5	20.00 100.00
Quickset		
Sales Tax		
Handling	160	.90 144.00
Mileage	40	192.00
Sub Total		
Total 1080.00		

DEPTH of Job	
Reference:	
Pumptrk Charge	360.00
Pumptrk Mileage	40.00
1 8 5/8" Wooded Plug	40.00
Sub Total	
Tax	
Total	440.00

Floating Equipment	
TOTAL \$ 1520.25	
Less Disc - 304.05	
RECEIVED 12/16/20	
SEPT 21 1990	

Remarks: Ran 240' of 8 5/8" csg. Mixed 1160 SKS 60/40 3% CC. Pumped Plug to 225 with fresh water. Cement did circulate. Cement in cellar when landed plug.

CONSERVATION DIVISION  
Wichita, Kansas

**CONFIDENTIAL**

**RELEASED**

**SEP 24 1990**

FRONTIER OIL COMPANY

**FROM CONFIDENTIAL**

NO. 2 WELLMAN

C NW SE Sec. 29-21S-9W

RICE COUNTY, KANSAS

**RECEIVED**  
STATE CORPORATION COMMISSION

**JUN 12 1989**

CONSERVATION DIVISION  
Wichita, Kansas

DATE COMMENCED MAY 2, 1989

DATE OF RTD May 7, 1989

GEOLOGIST

RICHARD D. PARKER

**JUN 13 1989**

**KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH**

Frontier Oil Company  
125 N. Market, Ste. 1720  
Wichita, Kansas 67202

Frontier Oil Company  
No. 2 Wellman  
C NW SE Sec. 29-21-9W  
Rice County, Kansas

Dear Sir:

The following is a Geological Report. with a Time Log attached, on the above captioned well.

Drilling was supervised from 2500' to 3538, rotary total depth. Samples were examined from 2800' to rotary total depth.

All formation tops, zones of porosity and staining are based on rotary bushing measurements. Any corrections in measurements during the drilling of the well have been incorporated into this report.

Elevation (American Elevations)	1706 DF	-- 1709 KB
Anhydrite	291	+1418
Heebner	2851	-1142
Toronto	2873	-1164
Brown Lime	2987	-1278
Lansing	3023	-1314
Base of Kansas City	3311	-1602
Kinderhook Shale	3338	-1629
Kinderhook Sand	3354	-1645
Viola	3463	-1754
Simpson Shale	3522	-1813
Simpson Sand	3528	-1819
RTD	3538	-1829

Structurally on top of the Lansing the No. 2 Wellman ran 2' high to the No. 1 Wellman, a Simpson producer located in the SE SE SE Sec. 29-21-9W. On top of the Simpson Sand the No. 2 Wellman ran 15' high to the No. 1 Wellman.

ZONES ON INTEREST

LANSING (Top 3023)  
3023 to 3030

Tan fine crystalline to dense lime with no show of oil.

3062 to 3068

Tan fine crystalline to fossiliferous lime with fair vuggy porosity, fair odor, fair show of free oil, spotted dark stain.

3098 to 3104

Tan chalky to oolitic fossiliferous lime with a faint odor, traces of free oil trace of black stain.

KINDERHOOK SAND 3354  
3354 to 3360

Clear to light green fine well rounded sand in clusters. No show of free oil no odor.

SIMPSON SAND (Top 3528)  
3528 to 3538

Clear Medium grained angular sand in clusters. Fair odor, fair show of free oil fair light stain.

DRILL STEM TEST NO. 1  
3514 to 3538

60-45-60-45. Rec, 600' GIP, 210' Fl.  
(30' GHOCM, 60' CGO, 30' GHOCM, 90' GSOC  
IF 44-78 FF 111-133 ISIP 871 FSIP 806

4½" used 9½# casing was set at 3530', 2' in the Simpson Sand and 8' off bottom with 175 sx common cement, 10% salt. Zero point is 5' AGL and the shoe joint is 22-71' long.

Sincerely,

*Richard D. Parker*  
Richard D. Parker *RP*

DRILLING INFORMATION ON THE WELLMAN NO. 2

Drilling Contractor: Red Tiger Drilling

Drillers: Burlison  
Oden  
Arnold

Tool Pusher: Walter, Oden, Jr.

Spud date: May 2, 1989

Date of RTD: May 7, 1989

Surface Pipe: 8 5/8" @ 236'/160 sx

Casing: 4 1/2" @ 3530/175 sx

TOTAL FOOTAGE DRILLED PER DAY  
Under Surface At 10:15 PM on May 2, 1989

645	Feet	At	7:00 AM	On	5-03-89
1688	"	"	" "	"	5-04-89
2389	"	"	" "	"	5-05-89
2959	"	"	" "	"	5-06-89
3538	"	"	11:50 PM	"	5-07-89

BIT RECORD

<u>Bit</u>	<u>Type</u>	<u>Footage</u>
#1	CP-EH 517A	236' to 3538'

MUD RECORD

Surface: 25 sx gel, 1 sk lime

2200' - (Pre-mix) 102 sx gel, 8 sx caustic, 8 sx lignite, 5 sx soda ash

2830 - 35 sx gel, 3 sx caustic, 3 sx lignite, 2 sk soda ash, 3 sx drispac

3432 - 40 sx gel, 3 sx caustic, 3 sx lignite



DRILLERS TIME LOG

Frontier Oil Company  
#2 Wellman

C NW SE  
Sec. 29-21-9W  
Rice County, Kansas

Elev.: 1704 GR  
1709 KB

DEPTH	MINUTES	REMARKS
-------	---------	---------

1 Foot Drilling Time

2500 to 2510	3-2-3-2-3-2-2-3-2-3	
2520	2-3-2-3-2-2-2-1-1-2	
2530	2-2-2-2-2-2- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-2	
2540	2-2-2-2-2-2-2-2-3-2	
2550	2-2-1-2-2-2-1-2-1-2	
2560	2-1-2-1-1-1-2-2-2-2	
2570	2-2-2-2-3-3-3-2-3-2	
2580	2-3-3-3-3-3-2-2-3-3	
2590	2-3-2-3-3-3-3-3-2-1	
2600	1-1-2-2-1-1-2-1-1-1	
2600 to 2610	1-1-2-2-3-3-3-3-2-1	
2620	1-3-4-4-3-3-4-3-4-3	
2630	4-2-1-3-3-2-2-2-3-2	
2640	2-2-1-2-2-3-3-2-2-2	
2650	3-3-3-3-3-3-3-4-2-2	
2660	3-2-1-1-1-2-2-2-3-1	
2670	1-2-3-2-2-2-2-3-2-2	
2680	2-2-2-2-2-2-2-3-3-2	
2690	2-2-3-2-2-1-1-2-1-1	
2700	2-1-2-2-3-3-1-1-2-2	
2700 to 2710	1-1-1-1-1-1-1-1-1-1	
2720	1-1-1-1-1-1-1-1-1-1	
2730	1-2-2-1-1-2-3-3-2-2	
2740	2-3-3-3-3-3-3-2-1-1	
2750	2-3-3-3-3-2-2-3-2-1	
2760	2-1-1-1-1-1-2-3-3-2	
2770	1-1-1-1-1-1-1-1-1-1	
2780	1-1-1-1-1-1-1-2-2-3	
2790	3-2-3-2-4-4-4-1-1-1	
2800	3-2-2-1-1-2-2-3-4-4	

2800 to 2810	3-4-4-3-4-3-3-3-3-2
2820	3-2-2-3-3-2-3-3-3-3
2830	3-3-4-2-2-2-3-2-2-3
2840	3-5-5-5-3-1-2-2-2-3
2850	2-2-3-4-4-4-5-4-6-5
2860	3-3-2-2-3-6-6-5-5-4
2870	3-3-3-3-3-3-3-3-3-3
2880	3-3-3-4-3-3-4-3-4-3
2890	2-2-3-3-3-3-4-3-2-2
2900	2-2-3-3-3-4-4-3-3-3
2900 to 2910	4-3-3-3-4-3-4-3-4-3
2920	3-4-3-4-3-3-4-4-3-3
2930	2-3-2-2-1-1-2-2-2-3
2940	3-3-3-2-3-2-3-3-2-2
2950	3-3-3-2-3-2-2-3-3-2
2960	3-2-3-3-2-2-2-1-2-2
2970	2-1-2-2-2-2-1-2-2-2
2980	2-2-2-2-2-2-2-2-2-2
2990	2-1-2-2-1-2-2-4-3-4
3000	4-3-3-3-2-2-3-5-2-2
3000 to 3010	3-3-3-3-2-5-3-3-2-3
3020	3-3-2-3-2-3-3-2-2-3
3030	2-3-2-3-4-4-4-4-4-4
3040	3-4-4-4-4-4-4-4-4-4
3050	3-4-4-4-4-4-4-4-4-4
3060	4-3-4-4-4-4-3-4-4-3
3070	3-4-3-3-2-3-2-2-4-3
3080	4-3-4-4-4-4-4-4-4-4
3090	4-5-4-4-4-4-4-3-3-4
3100	3-4-3-3-4-5-5-4-4-3
3100 to 3110	2-2-3-3-4-4-5-5-4-4
3120	3-4-3-4-4-3-2-2-2-2
3130	2-2-3-2-2-2-2-2-3-3
3140	2-3-2-3-2-3-3-3-2-3
3150	3-3-3-2-3-4-4-4-4-4
3160	4-5-3-3-4-4-4-4-4-4
3170	4-5-4-4-4-4-4-4-5-4
3180	5-5-5-4-4-4-4-4-5-4
3190	5-5-4-2-4-4-5-5-4-4
3200	6-5-6-6-6-7-5-5-5-3

3200 to 3210	4-5-4-5-3-2-4-4-5-5
3220	5-5-5-5-5-6-6-6-5-5
3230	5-5-4-6-5-5-5-6-5-5
3240	5-4-4-5-5-6-5-6-5-3
3250	3-3-4-5-3-4-3-5-4-4
3260	5-5-4-5-5-4-5-5-5-5
3270	6-6-6-5-6-5-7-6-5-4
3280	4-5-4-5-4-6-6-5-5-4
3290	6-5-6-6-5-6-6-5-5-5
3300	5-5-5-6-4-5-4-5-6-6
3300 to 3310	6-5-5-5-4-4-6-5-5-5
3320	5-4-3-2-2-2-2-1-2-2
3330	2-2-4-4-4-3-5-5-5-5
3340	5-5-4-4-4-4-4-5-4-4
3350	4-3-4-4-3-3-4-4-4-4
3360	3-4-5-4-4-3-3-5-5-3
3370	5-3-4-3-3-4-4-4-4-5
3380	4-4-4-4-3-4-3-3-4-3
3390	3-3-4-4-2-2-2-2-2-3
3400	3-3-2-3-3-3-2-3-3-2
3400 to 3410	3-3-3-3-4-3-3-3-3-3
3420	3-2-3-3-3-2-3-3-3-4
3430	4-4-4-4-4-5-4-4-3-4
3440	4-4-5-4-3-4-4-4-4-4
3450	4-4-4-4-5-4-4-4-4-5
3460	4-4-4-5-5-4-4-4-4-3
3470	3-4-4-5-5-6-6-6-6-5
3480	5-6-6-5-6-6-5-5-5-5
3490	4-4-4-4-3-5-5-5-5-5
3500	4-4-5-6-5-6-5-5-5-5
3500 to 3510	4-5-5-5-5-5-5-5-5-5
3520	5-6-5-6-7-3-6-5-5-6
3530	4-5-6-5-6-5-5-5-3-2
3540	1-2-1-2-2-2-2-3-x-x

DST #1 (3514-38)