

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 # 5140

Name: Frontier Oil Company

Address 125 N. Market

Suite 1720

City/State/Zip Wichita, KS 67202

Purchaser: N/A

Operator Contact Person: George A. Angle

Phone (316), 263-1201

Contractor: Name: Red Tiger Drilling

License: 5302

Wellsite Geologist: Richard D. Parker

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

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

12-5-89 12-13-89 12-14-89
Spud Date Date Reached TD Completion Date

API NO. 15- 165-21,499-0000

County Rush

N/2 NE SE Sec. 14 Twp. 17 Rge. 19W East West

2310 Ft. North from Southeast Corner of Section

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

Lease Name Adkinson Well # 1

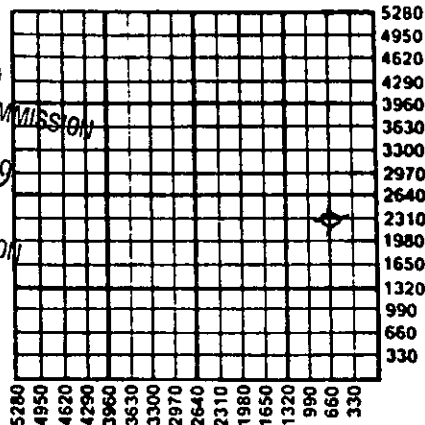
Field Name Schwindt

Producing Formation N/A

Elevation: Ground 2176 KB 2181

Total Depth 3888' P8TD N/A

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STATE CORPORATION COMMISSION
DEC 26 1989
12-26-89
CONSERVATION DIVISION
Wichita, Kansas



API 010

Amount of Surface Pipe Set and Cemented at 610 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 George A. Angle
Title Agent Date 12-22-89

Subscribed and sworn to before me this 22nd day of December, 19 89.

Notary Public D. Ann Drennan

Date Commission Expires DIANN DRENNAN-90
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. _____

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

P1 X

SIDE TWO

Operator Name Frontier Oil Company Lease Name Adkinson Well # 1
 Sec. 14 Twp. 17 Rge. 19W East County Rush
 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. **No Log Run**

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.)
 DST #1 (3862-3880) 60-30-30-30. Rec. 5' M
 IF 22-22, FF33-33, ISIP 44, FSIP 33.
 DST #2 (3864-3888) 45-30-45-30. 180'
 SO&GCM, 1680' SO&GCW, IF 544-863,
 FF854-885, ISIP & FSIP 885.

Name	Formation Description	
	Top	Bottom
Anhydrite	1356	+825
Topeka	3178	-997
Heebner	3487	-1306
Toronto	3506	-1325
Lansing- KS City	3531	-1350
Base of KS City	3797	-1616
Base of Pawnee	3872	-1691
Conglomerate Sand	3876	-1695
RTD	3888	-1707

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4	8 5/8	23#	610	60/40 poz	280	2%gel, 3%cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
N/A							
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio		Gravity

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

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

15-165-21499-0000

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

ALLIED CEMENTING CO., INC. No. 7859

Home Office P. O. Box 91

Russell, Kansas 67665

New

Date	12-5-89	Sec.	14	Twp.	17	Range	19	Called Out	8:00 P.M.	On Location	9:30 P.M.	Job Start	12:10 A.M.	Finish	12:45 A.M.
Lease	Adkinson	Well No.	1	Location	LaCross 4W-25N			County	Rush	State	Ks.				
Contractor	Red Tiger			Owner	Same										
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.	612'										
Csg.	8 3/8" (24 th)			Depth	610'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum											
Meas Line	595'			Displace	38.8881.										
Perf.															

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. *[Signature]*

CEMENT

EQUIPMENT

No.	Cementer	Mike Gary
Pumptrk 46	Helper	
No.	Cementer	Brian
Pumptrk	Helper	
	Driver	
Bulktrk 199	Driver	

Amount Ordered	280 60/40 2 1/2		
Consisting of			
Common	168	5.00	840.00
Poz. Mix	112	2.25	252.00
Gel.	6	6.75	40.50
Chloride	8	20.00	160.00
Quickset			
Sales Tax			

DEPTH of Job

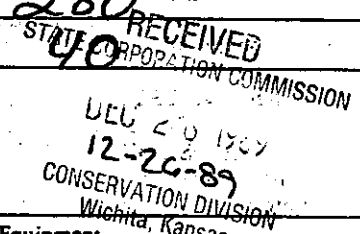
Reference:	Pump Job Chg	360.00
	Pump Job Mileage	40.00
	TWP	40.00
	310' at .39¢	120.90
	Total	560.90

Handling	280	.90	252.00
Mileage	40		336.00
Sub Total			
Total			1880.50

Remarks: Cement Drill Circulator
 7 DBI Cement
 Thank you

Floating Equipment

TOTAL \$ 2441.40
Disc - 366.21
\$ 2075.19



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

15-165-21499-0000

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

ALLIED CEMENTING CO., INC. No. 10326

Home Office P. O. Box 31

Russell, Kansas 67665

New

12-13-89

12-14-89

Date	12-13-89	Sec.	14	Twp.	17	Range	19	Called Out	7:30 P.M.	On Location	10:00 P.M.	Job Start	12:15 A.M.	Finish	1:45 A.M.
Lease	Adkinson	Well No. #	1	Location	LaCrosse, 4W, 2 1/2 N, W/S			County	Rush	State	KS				
Contractor	Red Tiger Rig #4											Owner	Same		
Type Job	Rotary 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 7/8'		T.D. 3888'												
Csg.												Charge To	Frontier Oil Co.		
Tbg. Size												Street	1437 N. Franklin		
Drill Pipe	4 1/2"		Depth 1390'												
Tool												City	Russell State Ks 67665		
Cement Left in Csg.												The above was done to satisfaction and supervision of owner agent or contractor.			
Press Max.												Purchase Order No.	1 Honor S E ngs		
Meas Line												CEMENT			
Perf.												Amount Ordered	155 sks 60/40 62 Gel,		

EQUIPMENT

#	No.	Cementer	Tim
Pumptrk	181	Helper	Mike M.
#	No.	Cementer	
Pumptrk		Helper	
#	No.	Driver	Jacks
Bulktrk	68	Driver	

DEPTH of Job

Reference:	Pumptrk Charge	360.00
	Pumptrk Mileage	40.00
1	8 3/8 Dryhole Plug	20.00
	Sub Total	
	Tax	
	Total	420.00

Remarks: Mixed - 50sks at 1390'
 80sks at 650'
 10sks at 40'
 15sks at Rathole,

Thank

Consisting of			
Common	93	5.00	465.00
Poz. Mix	62	2.25	139.50
Gel.	9	6.75	60.75
Chloride			
Quickset			

Handling	155	STATE CORPORATION COMMISSION	90	139.50
Mileage	40	DEC 20 1989		186.00
			12-26-89	Sub Total
			CONSERVATION DIVISION	
			Wichita, Kansas	
				Total
				990.75

Floating Equipment
 Total \$ 1410.75
 Disc - 211.62

\$ 1199.13

GEOLOGICAL REPORT

*FRONTIER OIL COMPANY
NO. 1 ADKINSON
N/2. NE-SE. 14-17S-19W
RUSH COUNTY, KANSAS*

*STATE COMMENTS: DECEMBER 5, 1989
DATE OF AFD: DECEMBER 13, 1989*

RECEIVED
STATE CORPORATION COMMISSION
DEC 26 1989
12-26-89
CONSERVATION DIVISION
Wichita, Kansas

GEOLOGIST

Richard D. Parker

Frontier Oil Company
1720 HSBYT Bldg
Wichita, Kansas 67202

Re: Frontier Oil Company
No. 1 Adkinson
N12-NE-SE 14-19S-19W
Push County, Kansas

Dear Sir:

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

Drilling was supervised from 3000' to 3888',
rotary total depth. Samples were examined from
3000' to rotary total depth.

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

Elevation American Elevations

2179 DF - 2181 HB

Anhydrite	1356	+825
Topok	3178	-997
Hebner	3487	-1306
Taranto	3506	-1325
Lansing - Kansas City	3531	-1350
Base of Kansas City	3797	-1616
Base of Pounce	3872	-1691
Complacent Sand	3876	-1695
RTP	3888	-1707

LANSING - KANSAS CITY (Top 3531)

3531 to 3536

Tan fine crystalline
to sucrose like with
a trace of free oil,
faint odor and trace
of light stain.

3560 to 3566

Tan well developed
colored lime with a
scattered show of free oil,
fair odor, spotted stain.

3609 to 3614

White fossiliferous lime
with no show of oil.

3616 to 3624

Tan to white cherty
to cherty slightly
fossiliferous lime
with no show of oil.

3636 to 3644

White fossiliferous
to calc. lime with
no show of oil.

3701 to 3704

White fine crystalline
to cherty lime with
no show of oil.

3729 to 3736

Tan oolitic to
oolitic lime with
no show of oil.

3752 to 3756

White well developed
oolitic lime with
no show.

CONGLOMERATE SAND (Top 3876)

3876 to 3880

White to slightly
colored very fine
grained well rounded
sand. No show of
oil no odor.

DALL STERN TEST NO. 1 (TRILOBITE TESTING)

3862 to 3880

60-30-30-30

First open with blow
According to very weak blow.

Second open no blow.

Recovered 5' mud.

Initial flows 22 to 22

Final flows 33 to 33.

Initial shut in pressure 44.

Final shut in pressure 33.

3881 to 3888

Clear to orange quartz
with fractured porosity
along with medium
grained also rounded
to sub rounded sand
some in clusters.

Traces of free oil in
quartz and sand,
No odor

DRIIL STEAM TEST NO. 2 (TRILOBITE TESTING)

~~3860~~ to 3888

45-30-45-30

3864

First open string blow

Second open good blow

Recovered 180' slightly

oil & gas cut mud, 1680'

slightly oil and gas cut

water, Initial flows 544 to 863

Final flows 854 to 885.

Initial shut in pressure 885

Final shut in pressure 885

Due to low structural position and negative drill stem test results the No. 1 Adkins was plugged and abandoned, a dry hole.

Sincerely,

Richard D. Parker

Richard D. Parker

BIT RECORD

Bits	Type	Footage
No. 1	HTC-52 New	612 to 1585
No. 2	HTC-AT 5-22 ReRun	1585 to 2860
No. 3	HTC-AT 5-22 New	2860 to 3888

MUD RECORD

Mud Company: M.S.I.

Mud Type: Starch

Surf. Tee: 20 sx gal., 4 sx hulls, 2 sx lime

3085 - 40 sx salt gal., 6 sx hulls

3515 - 45 sx salt gal., 55 sx starch, 12 sx hulls, 3 sx dry oxide

3750 - 55 sx salt gal., 10 sx starch

3880 - 20 sx salt gal., 7 sx starch