SIDE ONE

Ind

9/7/84 KCC

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, Ks. 67202

Operator Contact Person Jean Angle
Phone 316-263-1201

Contractor: license # 5302
name Red Tiger Drilling Company

Wellsite Geologist Steven D. Angle
Phone (913) 628-2586

Designate **Type of Completion**
☒ New Well ☐ Re-Entry ☐ Workover

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

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

API NO. 15 - 009-23,646

County Barton

Apx C NW NE Sec 23 Twp 19S Rge 15W ☐ East ☐ West
(location)

4620' Ft North from Southeast Corner of Section
1980' Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

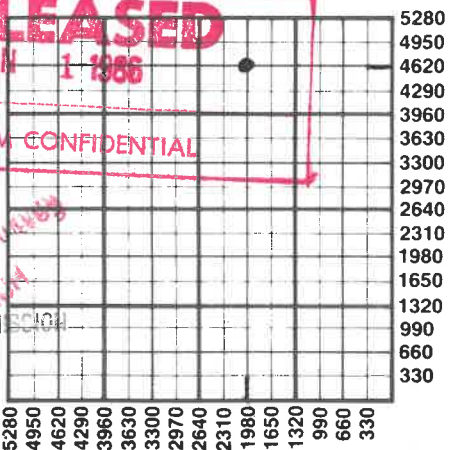
Lease Name Button "A" Well# 2

Field Name Breeden East

Producing Formation Lansing-KC

Elevation: Ground 1916' KB 1921'

Section Plat



RELEASED
JAN 1 1986
Date:
FROM CONFIDENTIAL

JAN 21 1986
RECEIVED
STATE CORPORATION COMMISSION
NOV 26 1984
CONSERVATION DIVISION
Wichita, Kansas

WELL HISTORY

Drilling Method: ☒ Mud Rotary ☐ Air Rotary ☐ Cable

8-6-84 Spud Date | 8-18-84 Date Reached TD | 9-7-84 Completion Date

0' Total Depth | PBTD

Amount of Surface Pipe Set and Cemented at 856.57' feet

Multiple Stage Cementing Collar Used? ☒ Yes ☐ No

If Yes, Show Depth Set 2465.13' feet

If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

WATER SUPPLY INFORMATION

Source of Water: Robert Leroy, Great Bend, Ks.

Division of Water Resources Permit #

☐ Groundwater Ft North From Southeast Corner and
(Well) Ft. West From Southeast Corner of
Sec Twp Rge ☐ East ☐ West

☒ Surface Water 1900 Ft North From Southeast Corner and
(Stream, Pond etc.) 4000 Ft West From Southeast Corner
Sec 20 Twp 19S Rge 14 ☐ East ☒ West

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

Disposition of Produced Water: Trace of water.
Docket # D-21,544.
☐ Disposal
☐ Repressuring

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 and 82-3-107 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 temporarily abandoned wells.

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SIDE TWO

Operator Name Frontier Oil Company Lease Name Button "A" Well# 2 SEC 23 TWP 19S RGE 15W ☐ East ☐ West

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.

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

DST1 (2184-2250) 60-30-60-30 GTS 35" 1st op 22,800
2nd op 33,200CF Rec 96' GMW IF 78-98 FF 98-108
ISI 740 FSI 730

DST 2 (2492-2630) 30-30-10-30 1st op wk blo fl tool 18"
2nd op no blo fl tool Rec 15'MW IF 112-112 FF 125-125
ISI 262 FSI 250

DST 3 (2866-2930) 30-30-15-30 wk blo Rec 30' SGWM
IF 7 FF plugging action ISI 1088 FSI 1048

DST 4 (3218-3240) 60-30-60-30 wk to strg blo
Rec 1052' GIP, 125' frothy O. IF 52-62 FF 75-87
ISI 1115 FSI 1152

DST 5 (3244-3279) 30-30-15-30 wk blo 18" Rec 15'M w/
few spks O. IF 50-62 FF 62-62 ISI 87 FSI 75

DST 6 (3275-3297) 60-30-60-30 Rec 186' GIP, 382' GMW,
682' GW IF 108-324 FF 393-511 ISI 1198 FSI 1188

DST 7 (3339-3360) 60-30-60-30 gd blo both ops
Rec 371' SGW w/few spks O. IF 98-167 FF 196-236
ISI 492 FSI 462

DST 8 (3360-3381) 30-30-15-30 Rec 15'M IF 37-37
FF 50-50 ISI 150 FSI 100

DST 9 (3374-3430) 20-30-15-30 1st op wk blo
15" fl tool no help 2nd op no blo fl tool no help
Rec 10'M IF 37-37 FF 50-50 ISI 1128 FSI 1064

/continued ...

Formation Description ☐ Log ☒ Sample

Name	Top	Bottom
Anhydrite	853	(+1068)
Herrington	1765	(+ 156)
Winfield	1815	(+ 106)
Fort Riley	1916	(+ 5)
Council Grove	2098	(- 177)
Cottonwood	2201	(- 280)
Red Eagle	2320	(- 399)
Brownville	2484	(- 563)
Tarkio	2604	(- 683)
Topeka	2879	(- 958)
Heebner	3130	(-1209)
Toronto	3142	(-1221)
Brown Lime	3210	(-1289)
Lansing	3222	(-1301)
Base-Kansas City	3436	(-1515)
Quartz	3485	(-1564)
Granite Wash	3515	(-1594)
RTD	3530	(-1609)

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	12-1/4"	8-5/8"	24#	863.77'	60-40 Poz	400	2% gel 3% cc
Production	7-7/8"	4-1/2"	10-1/2#	3529'	Common	200	10% salt
DV	-	-	-	2465.13'	Common	150	10% salt

PERFORATION RECORD

shots per foot	specify footage of each interval perforated	Acid, Fracture, Shot, Cement Squeeze Record (amount and kind of material used)	Depth
4	3218' to 3224'	500 gal 15% Regular	3218-3224'
4	3232' to 3238'	500 gal 15% Regular	3232-3238'
4	3484' to 3496'	-	

SIDE TWO (Page Two)

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ACO-1 WELL HISTORY

OPERATOR Frontier Oil Company LEASE NAME Button "A" #2 SEC. 23 TWP. 19S RGE. 15W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST 10 (3429-3480) 60-30-15-30 blo dead 45" Rec 10'M IF 78-68 FF 78-78 ISI 78 FSI 78				
DST 11 (3429-3500) 60-30-60-30 GTS 15" 1st op 20" 175,000, 30" 194,000, 50" & 60" 202,000. 2nd op 15" 219,000, 30" 211,000, 45" & 60" 219,000 Rec 200'GM IF 216-226 FF 167-187. ISI 1108 FSI 1108.				
DST 12 (3429-3530) 60-30-60-30 GTS 22" 1st op 25" 86,300, 30" 97,800, 40" 94,500, 50" 86,000, 60" 81,800. 2nd op 15" 134,000, 30" 153,000 45" 141,000, 60" 147,000. Rec 317' GM IF sever plug act. FF 226-226 ISI 1108 FSI 1108.				
RTD 3530'.				

TUBING RECORD size 2-3/8" set at 3387' packer at N/A Liner Run ☐ Yes ☒ No

Date of First Production 09-07-84

Producing method ☐ flowing ☒ pumping ☐ gas lift ☐ Other (explain) .....

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	27 Bbls	-0- MCF	Trace. Bbls	-0- CFPB	37.5°

Disposition of gas: ☐ vented ☐ sold ☐ used on lease

METHOD OF COMPLETION ☐ open hole ☒ perforation ☐ other (specify) .....

PRODUCTION INTERVAL 3218' to 3224'

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State Geological WICHITA BRANCH

Button A #2 API # 15-009-23,646

C-NW-NE 23-19S-15W

Barton Co. 23-19-15W

Completion Date: 8-29-84

Elevation 1921 KB

Anhy 853 Quartz 3485

8 5/8" @ 863 / 400sx

4 1/2 @ 3529 / 200sx

RTD @ 3530'

Perfs 3484 to 3496 (squeezed), 3232 to 3238, 3218 to 3224

(open hole) (Quartz & KC)

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STATE CORPORATION COMMISSION

APR 27 1988

CONSERVATION DIVISION
Wichita, Kansas