

Updated March 85.

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
Wichita
City/State/Zip Ks. 67202

Purchaser: K N. Energy, Inc.
Box 15625, Lakewood, Co.

Operator Contact Person Jean Angle
Phone 316-263-1201

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist Richard 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 OWNO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
05-07-82 05-20-82 1-26-85
Spud Date Date Reached TD Completion Date
3493' 2134'
Total Depth PBTD
Amount of Surface Pipe Set and Cemented at 1113 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2489' feet
If alternate 2 completion, cement circulated from...feet depth to...w/...SX cmt

API NO. 15-165-20,994-00-01
County Rush
NE SW NW Sec 29 Twp 16S Rge 17W East West

3630 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

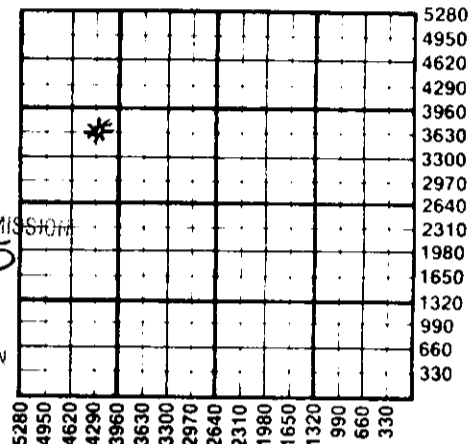
Lease Name Hoffman Well #3

Field Name Reichel

Producing Formation Chase

Elevation: Ground 2022' KB 2027'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
03-21-1985
MAR 21 1985
CONSERVATION DIVISION
Wichita, Kansas

N/A WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

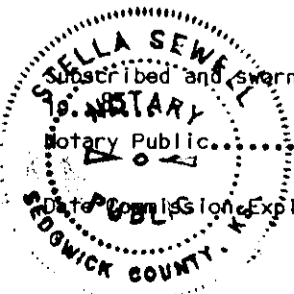
Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #
 Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge 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 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. Rule 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 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 3-19-85



Subscribed and sworn to before me this 19th day of March
Stella Sewell
Notary Public
Date Commission Expires June 24, 1988

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

Sec 29 Twp 16S Rge 17W

SIDE TWO

Operator Name Frontier Oil Company Lease Name Hoffman Well # 3

Sec. 29 Twp. 16S Rge. 17W East West County Rush

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

Formation Description
 Log Sample

DST 1 (1900-1986) 60-60-60-60 GTS 30' Stab @ 253,000
 Rec 558' GMSW IF 71-211 FF 176-229 ISIP & FSIP 564

DST 2 (2344-2448) 60-60-60-60 strg blo both ops
 Rec 806' Gsy Wty Mud IF 88-528 FF 335-352
 ISIP 722 FSIP 687

DST 3 (2440-2570) 60-60-30-30 1st op good blo
 2nd op wk blo Rec 153'M IF 88-352 FF 405-581
 ISIP 776 FSIP 758

DST 4 (2646-2820) 60-30-30-30 fr blo both ops
 Rec 320'M No press. (Severe plugging action)
 Plugged tools.

RTD 3493'

Name	Top	Section
Anhydrite	1113	(+ 914)
Herrington	1913	(+ 114)
Winfield	1950	(+ 77)
Ft Riley	2120	(- 93)
Wreford	2248	(- 221)
Crouse	2297	(- 270)
Bader	2326	(- 299)
Cottonwood	2367	(- 340)
Neva	2432	(- 405)
Red Eagle	2489	(- 462)
Brownville	2639	(- 612)
Tarkio	2743	(- 716)
Howard	2922	(- 895)
Topeka	2979	(- 952)
Heebner	3207	(-1180)
Toronto	3224	(-1197)
Lansing-KC	3253	(-1226)
Quartz	3458	(-1431)
RTD	3493	(-1466)

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"	18#	1121'	Common	425	2% gel 3% cc
Production	7-7/8"	4-1/2"	10.5#	3492'	Common	225	10% salt
D.V.	"	"	"	2489'	Common	225	10% salt

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
Completion 4	3460-3475'	N/A	
Workover 4	1999-2002'	500 gal. 15% Regular	1999-2002'

TUBING RECORD Size N/A Set At Packer at Liner Run Yes No

Date of First Production	Producing Method				
7-8-82	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....				
Workover 1-26-85	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	N/A bbls	160 MCF	-0- bbls	N/A CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 1999-2002'
 Used on Lease Dually Completed
 Commingled

TYPE

AFFIDAVIT OF COMPLETION FORM

ACO-1 WELL HISTORY

SIDE ONE

Two (2) copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within thirty (30) days after the completion of a well, regardless of how the well was completed.

X Attach separate letter of request if the information is to be held confidential. If confidential, only file one copy. Information on Side One will be of public record and Side Two will then be held confidential.

Applications must be made on dual completion, commingling, salt water disposal, injection and temporarily abandoned wells.

X Attach one copy only wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.). (Rules 82-2-105 & 82-2-125) KCC# (316) 263-3238.

LICENSE # _____ EXPIRATION DATE _____

OPERATOR Frontier Oil Company API NO. 15-165-20,994-00-00

ADDRESS 1720 KSB Bldg. COUNTY Rush

Wichita, KS 67202 FIELD Reichel

** CONTACT PERSON Terry W. Piesker PROD. FORMATION Quartz

PHONE (913) 483-5348

PURCHASER Frontier Oil Company LEASE Hoffman

ADDRESS 1720 KSB Bldg. WELL NO. 3

Wichita, KS 67202 WELL LOCATION NE/4 SW/4 NW/4

DRILLING Red Tiger Drilling Company 990 Ft. from South Line and

CONTRACTOR 1720 KSB Bldg. 990 Ft. from West Line of

ADDRESS Wichita, KS 67202 the NW (Qtr.) SEC 29 TWP 16S RGE 17W.

PLUGGING n/a

CONTRACTOR _____

ADDRESS _____

WELL PLAT

(Office Use Only)

	29		

KCC
KGS
SWD/REP _____
PLG. _____

TOTAL DEPTH 3493' PBTD

SPUD DATE 5/10/82 DATE COMPLETED 7/14/82

ELEV: GR 2022' DF 2024' KB 2027'

DRILLED WITH (XXXX) (ROTARY) (XXXX) TOOLS.

DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING USED TO DISPOSE OF WATER FROM THIS LEASE _____

Amount of surface pipe set and cemented 1113.79 DV Tool Used? Yes

THIS AFFIDAVIT APPLIES TO: (Circle ONE) - Oil, Gas, Shut-in Gas, Dry, Disposal, Injection, Temporarily Abandoned, OWWO. Other _____

ALL REQUIREMENTS OF THE STATUTES, RULES AND REGULATIONS PROMULGATED TO REGULATE THE OIL AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED WITH.

STATE RECEIVED
CORPORATION COMMISSION
08-09-1982
AUG 0 1982
CONSERVATION DIVISION
Wichita, Kansas

A F F I D A V I T

George A. Angle, being of lawful age, hereby certifies that:

I am the Affiant, and I am familiar with the contents of the foregoing Affidavit. The statements and allegations contained therein are true and correct.

George A. Angle
(Name)
6th day of August 1982

SUBSCRIBED AND SWORN TO BEFORE ME this 6th day of August 1982.



Jean Stocks
(NOTARY PUBLIC)

MY COMMISSION EXPIRES: 5/14/85

** The person who can be reached by phone regarding any questions concerning this information.

CONFIDENTIAL

SIDE TWO

OPERATOR Frontier Oil Company LEASE Hoffman #3

ACO-1 WELL HISTORY
SEC. 29 TWP. 16S RGE. 17W

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 LOGGED RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Surface Soil & Rock	0	42	Anhydrite	1113 (+ 914)
Shale & Sand Streaks	42	669	Herrington	1913 (+ 114)
Sand	669	776	Winfield	1950 (+ 77)
Shale	776	1113	Fort Riley	2120 (- 93)
Anhydrite	1113	1153	Wreford	2248 (- 221)
Shale	1153	2448	Crouse	2297 (- 270)
Shale & Lime Streaks	2448	2486	Bader	2326 (- 299)
Shale & Lime	2486	2990	Cottonwood	2367 (- 340)
Lime	2990	3098	Neva	2432 (- 405)
Lime & Shale	3098	3216	Red Eagle	2489 (- 462)
Lime	3216	3493	Brownville	2639 (- 612)
RTD		3493	Tarkio	2743 (- 716)
			Howard	2922 (- 895)
			Topeka	2979 (- 952)
			Heebner	3207 (- 1180)
			Toronto	3224 (- 1197)
			Lansing KC	3253 (- 1226)
			Quartz	3458 (- 1431)
			RTD	3493 (- 1466)

RELEASED
AUG 01 1981
FROM CONFIDENTIAL

Report of all strings set— surface, intermediate, production, etc. CASING RECORD (New) or (Used)

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Socks	Type and percent additives
Surface	12 1/4"	8-5/8"	18#	1121.14'	Common	425	2% Gel., 3% C.C.
Production	7-7/8"	4 1/2"	10.5#	3492'	Common	225	10% Salt
D.V. Tool	7-7/8"	4 1/2"	—	2489'	Common	225	10% Salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Socks cement	Shots per ft.	Size & type DP's	Depth interval
			4		3460' - 3475'

TUBING RECORD

Size	Setting depth	Packer set at
8-1/2"	1121'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
n/a	

Date of first production 7-14-82		Producing method (flowing, pumping, gas lift, etc.) Gas Lift		Gravity n/a	
RATE OF PRODUCTION PER 24 HOURS	OH 0	Gas 77,750 bbls.	Water 0 %	Gas-oil ratio 0	CFPB
Disposition of gas (vented, used on lease or sold) Sold			Perforations 3460-75		