CONFIDENTIAL 15-065-21586-0000

TYPE

AFFIDAVIT OF COMPLETION FORM ACO-1 WELL HISTORY

SIDE ONE

State Geological Survey
WICHITA, BRANCH

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.
✓ 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.
✓ 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. 15-065-21,586

ADDRESS 1720 KSB Building COUNTY Graham

Wichita, Ks. 67202 FIELD Law NW Ext

** CONTACT PERSON Terry Piesker PROD. FORMATION Lansing

PHONE (913) 483-5348

PURCHASER Not Determined LEASE Goddard

ADDRESS _____ WELL NO. 1 (Twin)

WELL LOCATION 50'W of C-SE4 SE4 NW4

DRILLING CONTRACTOR Red Tiger Drilling Company 330 Ft. from South Line and

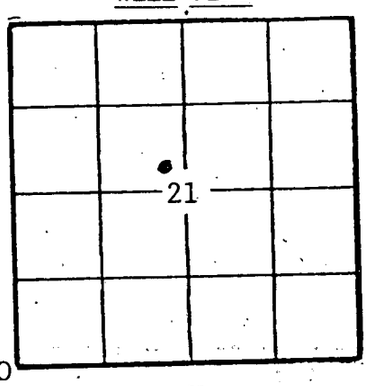
ADDRESS 1720 KSB Building, Wichita, Ks. 67202 380 Ft. from East Line of

the NW (Qtr.) SEC 21 TWP 9S RGE 23W.

PLUGGING CONTRACTOR N/A

ADDRESS _____

WELL PLAT (Office Use Only)



KCC ✓
KGS ✓
SWD/REP
PLG.

TOTAL DEPTH 3,925' PBTD n/a

SPUD DATE 2-18-82 DATE COMPLETED 4/8/82

ELEV: GR 2399 DF 2401 KB 2404

DRILLED WITH (~~CABLE~~) (ROTARY) (~~AIR~~) TOOLS.

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

FO

Amount of surface pipe set and cemented 217.31 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.

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)

SUBSCRIBED AND SWORN TO BEFORE ME this 18th day of April, 19 82.

Jean Stocks
(NOTARY PUBLIC)

MY COMMISSION EXPIRES: JEAN STOCKS State of Kansas My Appt. Exp. 5-14-85

RECEIVED
STATE CORPORATION COMMISSION
7-14-82
JUL 14 1982
CONSERVATION DIVISION
Wichita, Kansas

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

CONFIDENTIAL

SIDE TWO

OPERATOR Frontier Oil Company LEASE Goddard

ACO-1 WELL HISTORY

SEC. 21 TWP. 9S RGE. 23W

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
Sand & Shale	0	230	Anhydrite	1979 (+ 425)
Shale	230	240	Heebner	3688 (-1284)
Shale & Clay	240	1010	Toronto	3712 (-1308)
Sand & Shale	1010	1440	Lansing-KC	3728 (-1324)
Shale	1440	1530	RTD	3925 (-1521)
Sand	1530	1740		
Shale & Red Bed	1740	1979		
Anhydrite	1979	2035		
Shale	2035	2773		
Shale & Lime	2773	3128		
Lime	3128	3185		
Lime & Shale	3185	3385		
Lime	3385	3925		
RTD		3925		

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	Sacks	Type and percent additives
Surface	12¼"	8-5/8"	24#	224'	Common	165 sx	2% gel, 3% cc.
Production	7-7/8"	4½"	10.5#	3917'	Common	150 sx	10% salt
FO Tool	7-7/8"	4½"	——	1990	———	———	———

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
---	---	---

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
4	DPs	3805 - 3808'
4	DPs	3797 - 3800'
4	DPs	3782 - 3788'

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal, 15% reg. acid	3805 - 3808'
" " " " "	3797 - 3800'
500 " " " "	3782 - 3788'

Date of first production: Waiting on P.U.

Producing method (flowing, pumping, gas lift, etc.):

Gravity:

RATE OF PRODUCTION PER 24 HOURS — Oil: RELEASED bbls. — Gas: -0- MCF — Water: % n/a bbls. — Gas-oil ratio: n/a CFPB

Disposition of gas (vented, used on lease or sold): n/a

Perforations

JUN 1 1983

FROM CONFIDENTIA CONFIDENTIAL

CONFIDENTIAL 15-065-21586-0000

State Geological Survey
WICHITA, BRANCH

GEOLOGICAL REPORT

FRONTIER OIL COMPANY

NO. 1 GODDARD "TWIN"

50' W of SE SE NW, Sec. 21-9S-23W

GRAHAM COUNTY, KANSAS

RECEIVED
STATE CORPORATION COMMISSION
JUL 14 1982
CONSERVATION DIVISION
Wichita, Kansas

Commenced: February 18, 1982

Date of RTD: February 27, 1982

RELEASED

JUN 1 1983

FROM CONFIDENTIAL

Joel A. Alberts

CONFIDENTIAL

CONFIDENTIAL

Frontier Oil Company
1720 Kansas State Bank Building
Wichita, Kansas 67202

Re: Frontier Oil Company
No. 1 Goddard "Twin"
50' W of SE SE NW, 21-9S-23W
Graham County, Kansas

Dear Sir:

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

Drilling was supervised from 3400' to 3925', rotary total depth. Samples were examined from 3400' to rotary total depth.

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

Elevation (L&S)	2401 DF -- 2404 KB	
Anhydrite	1979	(+ 425)
Heebner	3688	(-1284)
Toronto	3712	(-1308)
Lansing-Kansas City	3728	(-1324)
RTD	3925	(-1521)
4½" at	3917	(-1513)

Structurally on top of the Lansing-Kansas City, the No. 1 Goddard "Twin" ran 3' high to the Heathman-Seelingson's No. 1 Edwards Est., a dry hole located 50' East.

ZONES OF INTEREST

LANSING-KANSAS CITY (Top 3728 (-1324))

3796 to 3799 — White poorly developed oolitic limestone. Trace of light stain. No odor. Slight show of free oil.

DRILL STEM TEST No. 1 (FOC Test)

3782 to 3798 — 60-30-60-30 First opening no blow-hose plugged. Second opening weak steady blow (1-1/2"). Recovered 125' of very heavy oil cut mud. Initial flow of 31 to 41. Final flow of 52 to 64. Initial shut in pressure 228. Final shut in pressure 249. (Pressures still climbing).

State Geological Survey
WICHITA, BRANCH

CONFIDENTIAL

3804 to 3810	White oolitic limestone. Scattered staining. No odor. Slight show of free oil.

DRILL STEM TEST No. 2 (FOC Test)

3798 to 3806	60-60-60-60 Weak blow both openings. Recovered 75' oil cut mud. Initial flow of 31 to 41. Final flow of 41 to 41. Initial shut in pressure 683. Final shut in pressure 632.

4-1/2" casing was set at 3917', 189' in the Lansing and 8' off bottom with 150 sacks of cement, 10% salt. The shoe joint is 36.46' long. Zero point is 5' A.G.L.

Sincerely,

Joel A. Alberts

Joel A. Alberts Sr

State Geological Survey
WICHITA, BRANCH

DRILLING INFORMATION ON THE NO. 1 GODDARD "TWIN"

Drilling Contractor: Red Tiger Drilling Co.

Drillers: Tom Koehler
Kenneth Lyle
Pat Waggoner

Tool Pusher: Kenneth Lyle

Spud Date: February 18, 1982

Date of RTD: February 27, 1982

Surface Casing: 8-5/8" @ 224' w/165 sx

Production casing: 4-1/2" @ 3917' w/150 sx, 10% salt

TOTAL FOOTAGE DRILLED PER DAY

Under surface at 10:30 P.M. on February 18, 1982

1010	Feet	At	7:00 A.M.	On	2-19-82
1950	"	"	" "	"	2-20-82
2505	"	"	" "	"	2-21-82
2830	"	"	" "	"	2-22-82
3185	"	"	" "	"	2-23-82
3463	"	"	" "	"	2-24-82
3719	"	"	" "	"	2-25-82
3798	"	"	" "	"	2-26-82
3838	"	"	" "	"	2-27-82
3925	"	"	10:00 P.M.	"	2-27-82

BIT RECORD

Bits	Type	Footage
#1	S-35 Security	230' to 1102'
#2	S-86 Security	1102' to 2773'
#3	J-22 Hughes	2773' to 3925'

State Geological Survey
WICHITA, BRANCH

MUD RECORD

Surface:	30 sx aquagel, 5 sx lime, 4 sx hulls
2081	5 sx hulls
2650	2 sx hulls
2830	3 sx hulls
3100	28 sx starch, 25 sx zeogel, 1 sx preservative
3128	7 sx starch, 20 sx zeogel, 1 sx preservative, 5 sx hulls
3185	5 sx impermix
3385	12 sx zeogel, 2 sx hulls
3463	20 sx zeogel, 10 sx starch, 2 sx hulls
3719	15 sx zeogel, 15 sx starch
3798	8 sx zeogel, 8 sx starch, 5 sx hulls
3838	8 sx zeogel, 8 sx starch, 2 sx aquagel, 2 sx hulls

State Geological Survey
WICHITA, BRANCH

DRILLERS TIME LOG

FRONTIER OIL COMPANY
No. 1 Goddard "Twin"

50' W of SE SE NW
21-9S-23W
Graham County, Kansas

Elevation: 2401 DF
2404 KB

DEPTH	MINUTES	REMARKS
	1 foot drilling time	
3400 to 3410	5-7-8-7-8-8-8-8-7-8	
3420	5-8-9-9-8-7-6-7-5-5	
3430	4-3-4-4-2-5-7-7-8-8	
3440	9-9-9-9-8-6-5-6-9-10	
3450	9-9-8-9-8-9-7-3-4-5	
3460	4-5-5-5-5-4-2-3-3-3	
3470	2-4-6-5-6-6-4-5-5-5	
3480	6-6-5-4-6-5-5-8-8-6	
3490	3-3-7-7-7-7-6-8-7-7	
3500	7-6-6-6-6-7-7-5-7-8	
3500 to 3510	5-3-5-3-3-4-3-3-3-5	
3520	6-7-6-8-6-6-4-3-4-5	
3530	5-6-2-1-3-4-4-4-5-6	
3540	4-6-4-4-1-5-6-7-6-5	
3550	5-6-8-6-7-8-7-7-3-4	
3560	3-2-2-2-5-5-5-3-2-2	
3570	3-3-3-4-4-7-7-7-8-8	
3580	8-9-5-5-6-7-5-4-5-4	
3590	4-4-3-3-4-3-4-4-4-6	
3600	5-5-6-5-3-3-3-4-5-6	
3600 to 3610	4-5-4-4-3-3-4-9-9-7	
3620	10-6-6-6-6-7-6-6-5-8	
3630	7-6-7-9-8-8-5-5-5-7	
3640	8-5-4-4-4-2-2-3-3-4	
3650	4-3-3-3-4-9-8-6-6-6	
3660	5-4-4-5-5-4-4-3-3-4	
3670	5-4-4-4-4-5-4-6-5-4	
3680	5-5-4-2-4-4-4-6-5-6	
3690	5-5-4-4-3-3-5-6-4-4	
3700	6-8-8-9-10-9-7-7-8-8	

State Geological Survey
WICHITA, BRANCH

3700 to 3710	8-7-8-9-8-7-7-7-7-7	
3720	6-6-7-11-9-8-10-10-8-5	
3730	6-6-6-7-8-7-4-5-6-8	
3740	7-4-5-6-8-10-9-7-9-7	
3750	9-8-6-7-7-8-7-8-9-8	
3760	8-6-5-5-5-5-6-5-6-6	
3770	8-7-6-5-3-5-5-8-7-9	
3780	9-10-12-10-10-9-8-8-8-9	
3790	10-10-9-8-8-7-8-10-9-6	
3800	8-11-12-7-11-10-6-6-6-6	DST #1 (3782-3798)
3800 to 3810	6-6-5-4-4-7-5-5-5-5	DST #2 (3798-3806)
3820	4-7-9-9-8-9-7-9-10-9	
3830	8-7-8-9-9-9-7-6-5-4	
3840	7-6-6-7-7-6-7-6-7-6	
3850	8-8-9-8-4-8-7-8-7-4	
3860	3-4-6-7-6-8-6-7-9-8	
3870	7-7-7-8-7-8-7-7-8-9	
3880	9-8-7-7-6-6-5-5-5-5	
3890	7-7-5-6-8-6-5-8-9-9	
3900	7-5-6-9-7-6-9-10-9-8	
3900 to 3910	11-9-10-11-10-11-8-9-10-9	
3920	7-6-6-8-10-8-9-8-9-11	
3925	11-10-10-9-11-x-x-x-x-x	

State Geological Survey
WICHITA, BRANCH