

TYPE

AFFIDAVIT OF COMPLETION FORM

ACO-1 WELL HISTORY

SIDE ONE

CORRECTED 8-6-82

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.

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 # 5140 EXPIRATION DATE 6/30/83
OPERATOR Frontier Oil Company API NO. 15-165-20,991
ADDRESS 1720 KSB Bldg. COUNTY Rush
Wichita, KS 67202 FIELD Reichel
** CONTACT PERSON Terry W. Piesker, PHONE (913) 483-5348 PROD. FORMATION Cottonwood (Council Grove)
PURCHASER Kansas-Nebraska Natural Gas Co. LEASE Lippert
ADDRESS Box 15265 WELL NO. 3
Lake wood, CO. 80215 WELL LOCATION NW/4 NE/4 SE/4
330 Ft. from North Line and
DRILLING Red Tiger Drilling Company 990 Ft. from East Line of
CONTRACTOR ADDRESS 1720 KSB Bldg. the SE (Qtr.) SEC 19 TWP 16S RGE 17W.
Wichita, KS 67202

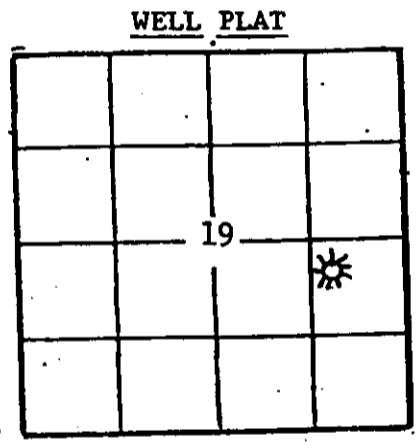
PLUGGING n/a
CONTRACTOR ADDRESS

TOTAL DEPTH 3200' PBTD 2458
SPUD DATE 4/16/82 DATE COMPLETED 6/17/82
ELEV: GR 2012 DF 2015 KB 2017

DRILLED WITH (ROTARY) TOOLS.
DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING USED TO DISPOSE OF WATER FROM THIS LEASE 107,818-C
Amount of surface pipe set and cemented 1100.03 DV Tool Used? no

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.



(Office Use Only)
KCC
KGS
SWD/REP
PLG.

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 (Signature)
(Name)

SUBSCRIBED AND SWORN TO BEFORE ME this 9th day of July 19 82.



Jean Stocks (Signature)
(NOTARY PUBLIC)
STATE CORPORATION COMMISSION

MY COMMISSION EXPIRES: 5/14/85

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

AUG 26 1982
CONSERVATION DIVISION
Wichita, Kansas

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; core 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
Shale & Post Rock	0	205	Anhydrite	1104 (+ 913)
Shale	205	535	Herrington	1903 (+ 114)
Sand	535	752	Winfield	1938 (+ 79)
Shale	752	1104	Fort Riley	2110 (- 93)
Anhydrite	1104	1141	Wreford	2234 (- 217)
Shale	1141	1840	Crouse	2279 (- 262)
Shale & Lime	1840	1976	Bader	2304 (- 287)
Shale	1976	1997	Cottonwood	2347 (- 330)
Shale & Lime	1997	2188	Neva	2414 (- 397)
Lime & Shale	2188	2220	Red Eagle	2483 (- 466)
Shale & Lime	2220	2390	Wabanusee	2577 (- 560)
Lime & Shale	2390	2749	Brownville	2612 (- 595)
Shale & Lime	2749	2774	Dover	2655 (- 638)
Lime	2774	2872	Tarkio	2715 (- 698)
Shale & Lime	2872	2905	Bern	2841 (- 824)
Lime	2905	2944	Howard	2901 (- 884)
Lime & Shale	2944	2968	Topeka	2948 (- 931)
Lime	2968	3200	Deercreed	3042 (- 1025)
RTD		3200	Ecompton	3056 (- 1039)
Herrington-White fine crystalline dolomite (Included in DST #1) (Top 1903)	1903-1910	w/no show oil	Plattsmouth	3098 (- 1081)
Winfield (top 1938) Tan sucrosic dolomite porosity. No show Oil. (included in DST #1)	1938-1946	w/some pin-point	Heebner	3180 (- 1163)
1964-1974 - Light gray to tan fine crystalline to junky dolomite w/no show Oil			Toronto	3193 (- 1176)
DST #1 - 1888-1976 Op30/SI30/Op30/SI30 GTS. Well gauged 131.4 MCF in 45"/117.7 in 55"/103.6 MCF in 60". Rec 630' MGSW. ISIP 567#. FSIP 547#	1st Op GB/2nd Op SB		RTD	3200 (- 1183)
DST #2 1972-2020 Op30/SI30/Op30/SI30 Rec 92' MW/IF41-61, FF 61-81, ISIP 101#, FSIP 223#	1st Op WB/ 2nd Op WB			

(See Side Two, Page Two attached)

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 1/2"	8-5/8"	24#	1107'	Common	425 sx	2% Gel., 3% C.C.
Production	7-7/8"	4 1/2"		3199'	Common	350 sx	10% Salt, 4% Gel.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Socks cement	Shots per ft.	Size & type DP's	Depth interval
			4	DP's	2392-97
			4	DP's	2345-52

TUBING RECORD

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used

Amount and kind of material used	Depth interval treated
500 Gal., 15% Reg.	2392-97
500 Gal., 15% Reg.	2345-52

Date of first production	Producing method (flowing, pumping, gas lift, etc.)	Gravity
6/17/82	OP Flow	
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas
	0 bbls.	889 MCF
Disposition of gas (vented, used on lease or sold)	Water %	Corrosion rate
Sold	0 %	0 cfb

Perforations

OPERATOR Frontier Oil Company LEASE NAME Lippert # SEC. 19 TWP. 16S RGE. 17W

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FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<u>Ft. Riley</u> (top 2110) 2110-2118 Tan sucrosic dolomite w/no show Oil. (Included in DST #3)				
2130-2140 Tan to gray fine crystalline dolomite w/good pin-point to slightly vuggy porosity. No show Oil. (Included in DST #3)				
2116-2170 Tan sucrosic dolomite w/no show Oil.				
DST #3 2024-2188 Op30/SI30/Op30/SI30 1st Op WB/2nd Op FB Rec. 134'M. IF 101-122. FF 142-182. ISIP 243#. FSIP 344#.				
<u>Wreford</u> (top 2234) 2234-2238 Tan to gray sharp fresh chert w/ no show Oil. (Included in DST #4)				
<u>Crouse</u> (top 2279) 2279-2292 Bony white sharp chert w/no show Oil. (Included in DST #4)				
<u>Bader</u> (top 2304) 2304-2312 White chalky dolomite. No Show oil.				
DST #4 2174-2330 Op30/SI30/Op30/SI30 1st Op WB/2nd Op WB, dead in 10". Rec 45'M. IF 91-101. FF 101-111. ISIP 142#. FSIP 122#.				
<u>Cottonwood</u> (top 2347) 2347-2363 Tan fine crystalline dolomite w/good pin-point to vuggy porosity. No show Oil. (Included in DST #5)				
<u>Neva</u> (top 2414) 2414-2420 White to light gray dense to cherty dolomite w/no show Oil.				
DST #5 2320-2424 Op65/SI30/Op50/SI30 1st Op GTS 14", Stabilized @1,764MCFPD. 2nd Op 50", stabilized @1,770 MCFPD. Rec 65' GMW. IF 142-324, FF 324-314. ISIP 738#. FSIP 718#.				
<u>Red Eagle</u> (top 2483) 2483-2494 tan to light gray, some salt and peppered fine crystalline dolomite w/no show Oil. (Included in DST #6)				
DST #6 2426-2550 Op60/SI30/Op92/SI30 1st Op FSB. 2nd Op GTS 8", stabilized @17 MCF in 90". Rec 825' GSW. IF 81-354, ISIP 627#. FSIP 627#.				
2559-2564 - Gran to tan fine crystalline dolomite. No show.				
<u>Wabaunsee</u> (top 2577 -560) 2590-2604 tan fine crystalline partially dolomitized limestone. Fair inter-crystalline porosity.				
<u>Brownville</u> (top 2612 -595) 2612-2620 White, chalky limestone. No Show Oil.				
DST #7 2552-2638 Op30/SI30/Op30/SI30 WB, both ops. Rec 20'M. IF & FF 21-21 ISIP 42#. FSIP 53#.				
2638-2645 - tan fine crystalline to chalky limestone. No show Oil. Slight Fluorescence.				
<u>Dover</u> (top 2655 -638) 2655-2663 Gray, junky limestone. No show. 2675-2686 white to gray quartz sand clusters w/mica flakes. No Odor. No Show.				
DST #8 2615-2680 Op60/SI30/Op60/SI30 1st Op FB, 2nd Op blow off bottom. Rec 188' WM, IF 41-101, FF 122-142, ISIP 243#, FSIP 304#.				
<u>Tarkio</u> (top 2715 -698) 2720-2730 tan to gray fine crystalline slightly sandy limestone. No show. 2740-2748 Gray micaceous shale. No Show.				
DST #9 2677-2749 Op60/SI30/Op90/SI30 1st OP Fair, increasing to blow off bottom in 45" 2nd Op GTS 45", stabilized @11.6' MCFPD. Rec 211' WM. IF 21-95, FF 105-137, ISIP 316#, FSIP 390#.				
2742-2752 Gray micaceous silty shale. No show.				
DST #10 2722-2774 Op30/SI30/Op30/SI30 WB both Ops. Rec 15'WM. IF & FF 41-41 ISIP & FSIP 61#.				
2811-2818 Gray fine crystalline limestone. Scattered tan junky limestone. No show.				
<u>Bern</u> (top 2841 -824) 2841-2846 gray fine crystalline limestone. No Show.				
2866-2871 white to gray fine crystalline limestone. no show.				
DST #11 2775-2872 Op60/SI30/Op60/SI30 1st Op WB lto Blow off bottom. 2nd Op blow off bottom. Rec 350' M. IF60-182, FF 223-243, ISIP 303#, FSIP 324#.				
<u>Howard</u> (top 2901 -884) 2901-2906 tan to gray fine crystalline limestone. No Show.				
DST #12 2871-2944 Op30/SI30/Op60/SI30 1st Op WB, 2nd Op FDTWB Rec 180'M IF41-81, FF 81-142, ISIP 506#, FSIP 223#.				

RECEIVED
 STATE CORPORATION COMMISSION
 AUG 26 1982
 CONSERVATION DIVISION
 WICHITA, KANSAS

OPERATOR Frontier Oil Company LEASE NAME Lippert * SEC. 19 TWP. 16S RGE. 17W

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<p><u>Topeka</u> (top 2948 -931) 2950-2956 tan sucrosic limestone. No show.</p>				
<p>DST #13 2942-2968 Op60/SI30/Op60/SI 30 GTS 14" 1st Op, G 101 MCFPD. 2nd Op G 116 MCFPD. Rec 20' GMW. IF 41-61, FF 41-41, ISIP 930#, FSIP 910#.</p>				
<p>2970-2976 Tan fine crystalline limestone. No show.</p>				
<p>1984-2988 Tan fine crystalline limestone. No show.</p>				
<p>3020-3030 Tan fine crystalline to fossiliferous limestone. No show.</p>				
<p><u>Deercreek</u> (top 3042 -1025) 3042-3046 white dense to cherty limestone. No show.</p>				
<p>DST #14 2958-3054 Op60/SI30/Op60/SI30 1st Op WITFB, 2nd Op FB. Rec 350'M IF 11-84, FF 126-211, ISIP 305#, FSIP 324#.</p>				
<p><u>Lecompton</u> (top 3056 -1039) 3056-3060 tan limestone. no show.</p>				
<p><u>Plattsmouth</u> (top 3098 -1081) 3110-3116 tan fine crystalline to poorly developed oolitic limestone. No show. No odor.</p>				
<p>3122-3126 Tan fine crystalline limestone. No show.</p>				
<p>DST #15 3045-3126 Op60/SI30/Op60/SI30 SB, both Ops. GTS 2nd Op. Stabilized @4.2 MCFPD. Rec 320'M, 200' GM. IF 41-263, FF 142-263. ISIP 506#, FSIP 506#.</p>				
<p>3140-3160 White chalky to slightly oolitic limestone. No show.</p>				
<p><u>Toronto</u> (top 3193 -1176) 3134-3197 tan fine crystalline to dense limestone. Fair Odor. Scattered show of free oil. Trace of light stain.</p>				
<p>DST #16 3134-3195 Op60/SI30/Op90/SI30 1st Op FTSB, 2nd Op GTS 45", stabilized @3,920 CFGPD. Rec. 253' GM. F 68-142, FF 101-162, ISIP 405, FSIP 486</p>				
<p>4½" csg set @3199, 6' in Toronto and 1' off bottom w/350 sx 10% Salt, 4% Gel.</p>				