# AFFIDAVIT OF COMPLETION FORMFIDENTIA

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. Attach separate letter of request if the information is to be held confidential. X Attach separate letter of request Information on Side One will be of public 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. copy only wireline logs (i.e. electrical log, sonic log, gamma ray

$\frac{X}{X}$ Attach one copy only wireline logs (1.e neutron log, etc.). (Rules 82-2-105 & 82-2-	ION DATE
Frontier Oil Company	API NO. 15-165-20,976 COCC
1720 KSB Bldg.	
Wighita KS 67202	FIELD Reichel
** CONTACT PERSON Terry W. Piesker PHONE (913)-483-5348	PROD. FORMATION Lansing
PHONE (913)-483-5348	Hartman I'B!
	LENSE TRUE CHARLE
ADDRESS F.O. DOX 2230	CTILL CTILL NEVA
Wichita, KS 67201	330 Ft. from South Line and
DRILLING <u>Red Tiger Drilling Company</u>	
CONTRACTOR	990Ft. from East Line of the NE (Qtr.)SEC 33 TWP 16S RCE 16W.
ADDRESS 1720 KSB Bldg. Wichita, KS 67202	
PLUGGING n/a CONTRACTOR	I I I KCC ✓
ADDRESS	KGS
DUTD	SWD/REP
TOTAL DEPTH 3580' PBTD PBTD	33 PLG
SPUD DATE 2/15/82 DATE COMPLETED 4/	12/82
ELEV: GR 1964 DE 1207	9
DRILLED WITH (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	LS.
DOCKET NO. OF DISPOSAL OR REPRESSURING WELL USED TO DISPOSE OF WATER FROM THIS LEASE	11/CL
a set and cemented	238' DV Tool Used: yes
THIS AFFIDAVIT APPLIES TO: (Circle ONE) -	Oil) Gas, Shut-in Gas, Dry, Disposer,
THE STATUTES. RULES AT	ND REGULATIONS PROMULGRAPHICA TO THE TOTAL TO THE TOTAL TOTA
AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED	WEEH.
•	CONS
AFFID	AVIT
George A. Angle	, being of lawful age, hereby certifi
that:	
I am the Affiant, and I am familiar The statements and allegations contained	with the contents of the foregoing Affidavit therein are true and correct.
The statements and affegutions constants	Dema (h- Unal
	(Name)
SUBSCRIBED AND SWORN TO BEFORE ME th	nis 22nd day of April
27 Mar. LEAST COCKS	
19 82. Section of Kansas State of Kansas My Appt. Exp. 5 - 14 - 95	(1/= B.
IN APA CARS - / T - SS	(NOTARY PUBLIC)
MY COMMISSION EXPIRES: 5/14/85	V

\*\* The person who can be reached by phone regarding and Target Composition COMMISSION

JUL 1 5 1982 CONSERVATION DIVISION Wichita, Kansas

OPERATOR FILL IN WELL LOG AS REQUIRED: SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION. Show all important xones of perosity and contents thereof; cored intervals, and all drill-shoulding depth interval tested, cushion used, time tool open, flowing and shut-in pressures, an sity and contents thereof; cored intervals, and all drill-stam tests, in-FORMATION DESCRIPTION, CONTENTS, ETC. TOP HAME DEPTH Post Rock & Shale 0 190 Anhydrite 1054 916) Shale 190 530 Brownvill Im. 2604 (-634) Sand 530 700 Tarkio Lime 2706 (~ 736) Shale 700 1054 Howard 2894 924) Anhydrite 1054 1090 990) Topeka 2960 Shale 1090 1865 Heebner 3194 (-1224)Shale & Lime 1865 2100 Toronto (-1240)3210 Lime & Shale 2100 2802 (- 1278) Lansing-KC 3248 Lime 2802 2888 Base of KC 3481 (-1511)Lime & Shale 2888 2978 (- 1548) Cherty Congl 3518 Lime 2978 3580 Arbuckle 3530 (-1560)RTD 3580 RTD 3580 (- 1610) Copt aga Report of all strings set - surface, intermediate, production, etc. CASING RECORD (New) or (New) Sie ball anit a live cosing set C.

Purpose of string	Sixe hole drilled	lize cosing sat	Weight ibs/ft.	Satting depth	Type cement	Sacks	Type and percent additives
Surface	12½"	8-5/8''	24#	245'	Common	160 sx	2% Gel., 3% C.
Production	7-7/8''	4211	9.5#	3577'	Common		10% Salt
DV Tool	7-7/8"	4½"		1070'	50-50 Pozm		
	LINER RECOR	to .			PERFO	RATION RECOR	D
Top, ff.	Bettom, ft.	Sacks co	·ment	Shots 4		ixe & type P's	Depth interval 3443'-47'
· 0	TUBING RECO	RDA .					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3532	Wyeker:	et af				
	1	CID, FRACTI	URE, SHOT,	CEMENT SQL	JEEZE RECORD		
<u> </u>	Åmó.,	nt and kind of	material used			Dep	th Interval treated
1000 Gal.,	15% Reg. A	\cid_	-			31.3443	3' 147,5 %;
					line was	0 - 3 12 <b>- 4</b>	MITTER
¢.							
Date of first production 4/12/	′82	Producing	Pumping	ing, pumping, so	ns (ift, etc.)	Gravity	y 36
RATE OF PRODUCTION PER 24 HOURS	Oil	7	Gos		Water 0%		-oil retio
Disposition of gas (vented	, used on lease or a	RELEAS	SED O	<u> </u>	(CF)	O bbis.	О скри

Perforations

# CONFIDENTIAL

GEOLOGICAL REPORT

FRONTIER OIL COMPANY

NO. 1 HARTMAN "B"

SW SE NE, 33-16S-16W

RUSH COUNTY, KANSAS

STATE CORPORATION TOMMISSION

JUL 1 5 1000

CONSERVATION OFFISION
Wichita, Kansas

Commenced: February 15, 1982

Date of RTD: February 25, 1982

RELEASED

JUN 1 1983

FROM CONFIDENTIAL

RECEIVED STATE CORPORATION COMMISSION

Richard D. Parker

JUL 1 5 1982

CONSERVATION DIVISION Wichita, Kansas Frontier Oil Company 1720 Kansas State Bank Bldg. Wichita, Kansas 67202 Re: Frontier Oil Company
No. 1 Hartman 'B'
SW SE NE, 33-16S-16W
Rush County, Kansas

#### Dear Sir:

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

Drilling was supervised from 2600' to 3580', rotary total depth. Samples were examined from 2600' to rotary total depth.

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

Elevation	1967 DF	1970 KB
Anhydrite	1054	(+ 916)
Brownville Lime	2604	(- 634)
Tarkio Lime	2706	(- 736)
Howard	2894	(- 924)
Topeka	2960	(- 990)
Heebner	3194	(-1224)
Toronto	3210	(-1240)
Lansing-Kansas City	3248	(-1278)
Base of Kansas City	3481	(-1511)
Cherty Conglomerate	3518	(-1548)
Arbuckle	3530	(-1560)
RTD -	3580	(-1610)
4½" at	3577	(-1607)

Structurally on top of the Topeka, the No. 1 Hartman "B" ran flat with the Garcia No. 1, a dry hole, located approximately one half mile Northeast. On top of the Lansing-Kansas City the No. 1 Hartman "B" ran 4' higher than the Garcia No. 1. On top of the Arbuckle the No. 1 Hartman "B" ran 36' higher than the Garcia No. 1.

#### ZONES OF INTEREST

BROWNVILLE LIME (Top 2604) 2650-2654

Tan fine crystalline to slightly vuggy lime with some pin point porosity. Trace of oil stain. (Included in DST #1)

TARKIO LIME (Top 2706) 2720 to 2726

DRILL STEM TEST No. 1 (FOC Test) 2612 to 2802

HOWARD (Top 2894) 2894 to 2902

TOPEKA (Top 2960) 2960 to 2970

DRILL STEM TEST No. 2 (FOC Test) 2870 to 2978

3152 to 3164

DRILL STEM TEST No. 3 (FOC Test) 3118 to 3170

TORONTO (Top 3210) 3210 to 3222

LANSING-KANSAS CITY (Top 3248) 3248 to 3254

3273 to 3276

3384 to 3390

Light grey, silty, micaceous sand with no show of oil.

60-30 Open 60 minutes with a weak blow throughout. Recovered 30' mud. Initial flows 136 to 165#. Shut in pressure 787#.

White to light tan fine crystalline lime with no show of oil. (Included in DST #2)

Tan chalky to sucrosic lime with no show of oil.

120-30 Open 120 minutes with strong blow. Recovered gas to surface in 75 minutes (TSTM), 330' watery mud. Initial flows 104 to 136#. Shut in pressure 330#.

White chalky to slightly oolicastic with no show of oil.

60-30 Open 60 minutes with a weak blow for 2 minutes. Recovered 50' watery mud. Initial flows 41 to 62. Shut in pressure 1000#.

White fine crystalline lime with no show of oil. (Included in DST #4)

Tan chalky to fine crystalline lime with no show of oil. (Included in DST #4)

White oolitic lime with a trace of oil stain, trace of free oil and no odor. (Included in DST #4)

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

DRILL STEM TEST No. 4 (FOC Test) 3190 to 3306
:
3316 to 3320
3330 to 3336
3342 to 3350
3370 to 3376
3388 to 3396
DRILL STEM TEST No. 5 (FOC Test) 3300 to 3400
3404 to 3412
3422 to 3426
3440 to 3445

60-30-60-30 First open fair blow. Second open fair blow. Recovered 400' muddy salt water. Initial flows 104 to 207#. Final flows 207 to 311#. Initial shut in pressure 1024#. Final shut in pressure 994#.

White oolitic lime with scattered show of free oil, very spotted light stain and a faint odor. (Included in DST #5)

Tan oolitic lime with scattered show of free oil, spotted dark stain and a fair odor. (Included in DST #5)

White oolicastic to oolitic lime with a trace of free oil and a faint odor. (Included in DST #5)

White chalky to tam cherty lime with no show of oil. (Included in DST #5)

Tan fine crystalline to dense, slightly fossiliferous lime with traces of free oil, trace of light stain and a fair odor.

60-30-60-30 First open fair blow. Second open fair blow. Recovered 240' mud with a few specks of oil on top of tool. Initial flows 83 to 145. Final flows 145 to 166. Initial shut in pressure 1117#. Final shut in pressure 1076#.

White oolitic lime with a trace of free oil, trace of dark stain and no odor. (Included in DST #6)

Tan fine crystalline lime with a trace of oil stain. (Inleuded in DST#6)

Tan oolicastic lime with scattered show of free oil, spotted dark stain and no odor. DRILL STEM TEST No. 6 (FOC Test) 3396 to 3444

3454 to 3460

DRILL STEM TEST No. 7 (FOC Test) 3436 to 3460

3464 to 3472

DRILL STEM TEST No. 8 (FOC Test) 3452 to 3490

ARBUCKLE (Top 3530) 3530 to 3535

DRILL STEM TEST No. 9 (FOC Test) 3452 to 3535

60-30-60-30 First open strong blow. Second open strong blow. Recovered 1480' gas in pipe, 470' heavy oil and gas cut mud. Initial flows 51 to 134. Final flows 145 to 186. Initial shut in pressure 1086#. Final shut in pressure 1076#.

Tan, dense lime with no show of oil.

60-30-60-30 First open strong blow. Second open strong blow. Recovered 1420' gas in pipe, 20' heavily oil and gas cut mud, 250' heavy oil. Initial flows 41 to 83. Final flows 145 to 166. Initial shut in pressure 994#. Final shut in pressure 1034#.

White chalky lime with no show of oil.

60-30-60-30 First open weak blow. Second open weak blow to no blow in 20 minutes. Recovered 60' mud. Initial flows 41 to 62. Final flows 62 to 83. Initial and final shut in pressure 104#.

White medium to coarse crystalline dolomite some slightly sandy with a scattered show of free oil faint odor and spotted light stain. Along with the dolomite was well rounded to sub rounded sand grain that were clear to frosted. No visible oil on the loose sand grains.

60-30 Open 60 minutes with a weak blow for 30 minutes. Recovered 10' mud. Initial flows 62 to 83. Shut in pressure 1044#.

4-1/2" pipe was set at 3577', 47' in the Arbuckle and 3' off bottom with 275 sacks of common cement 10% added salt. A Halliburton DV tool was set at 1070', with 550 sacks of 50-50 pozmix cement. Zero point is 5' AGL and the shoe joint is 38-60' long.

Sincerely,

Richard D. Parker

Richard D. Parker

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# DRILLING INFORMATION ON THE HARTMAN "B" NO. 1

Drilling Contractor: Red Tiger Drilling Co.

Drillers: Ochs

Tool Pusher: W. C. Ogle

Ogle Bates

Spud Date: February 15, 1982

Date of RTD: February 25, 1982

Surface Pipe: 8-5/8" at 245'/160 sx

Casing: 4-1/2" at 3577'/275 sx DV at 1070'/550 sx

# TOTAL FOOTAGE DRILLED PER DAY Under surface at 2:15 AM on February 16, 1982

1025	Feet	At	7:00 A.M.	0n	2 16 02
2100	* 11	11	11 11	011	2-16-82
2665	11	11	11 11		2-17-82
2888	11	11	tt 1t	11	2-18-82
3098	17	11	11 11	<b>7</b> 1	2-19-82
3265	11	11	11 11	11	2-20-82
3400	11	11	11: 11	11	2-21-82 2-22-82
3444		11	\$1 EF	11	
3490	11	FI	11 11	11	2-23-82 2-24-82
3580	*1	n	6:20 A.M.	11	2-25-82

### BIT RECORD

Bits	Type	Footage
#1	Smith - DTJ	246 to 1766
#2	HIC - J22	1766 to 3170
#3	HIC - J22 (ReRun)	3170 to 3580

# MUD RECORD

Surface:		20	sx	aquagel	, 3	SX	lime, 4	S	x hulls			
2665		40	SX	zeogel,	30	sx	starch,	5	sx hulls.	2	sx	aldacide
2978	-	15	sx	zeogel,	10	sx	starch,	2	sx hulls			
3170				zeogel,								
3326		30	sx	zeogel,	25	sx	starch,	2	sx hulls			
3490		25	sx	zeogel,	15	sx	starch,	2	sx hulls			
3500		15	SX	zeogel,	10	SX	starch,	2	sx hulls			

# DRILLERS TIME LOG

FRONTIER OIL COMPANY No. 1 Hartman "B"

SW SE NE 33-16S-16W Rush County, Kansas

Elevation: 1967 DF 1970 KB

DEPTH	MINUTES	REMARKS
	l foot drilling time	
2600 to 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900	3-3-2-2-3-4-4-5-4-4 4-4-5-5-4-4-3-3-3-3 2-3-5-4-5-4-3-2-4-3 2-3-4-3-4-4-5-3-4-4 5-4-5-6-5-6-3-2-3-3 6-4-7-5-5-5-4-5-3-3 4-3-3-3-4-4-3-3-3-2 3-2-3-2-3-2-2-2-2-2 2-2-2-2-2-2	ST #1

2900 to 2910 2920 4-3-2-3-4-3-3-2-2-3 2930 3-2-4-5-4-2-4-4-5-4 2940 5-4-4-3-4-4-4-5-4 2950 5-6-6-4-4-4-5-2-2-2 2950 2950 5-6-6-4-4-4-5-2-2-2 2960 2-2-2-1-1-1-2-1-2 2970 2-3-2-4-5-4-3-2-2 2980 4-4-5-5-3-4-4-3-2-2 2990 3-2-3-3-4-5-5-3-4 2990 3-2-3-3-4-5-5-3-4 3000 3-4-3-5-6-4-4-4-4-3 3020 5-6-5-6-7-5-4-5-5-5 3030 4-5-5-6-5-5-5-3-3-3 3040 4-3-3-3-2-3-3-4-4-5 3050 3060 4-6-2-5-4-3-4-4-4 3050 4-3-4-5-5-3-4-4-4-6 3050 3070 3-5-5-5-6-4-5-5-5-5 3080 3-2-3-3-4-3-5-6-5-4 3090 5-5-5-5-6-4-5-5-5-5 3100 3100 5-5-5-5-6-4-5-5-5-5 31100 3-4-3-3-3-3-4-4-6-6 3120 3-4-3-3-3-3-4-4-6-6 3130 3-4-3-3-3-3-4-4-6-6 3150 3100 3-4-5-5-5-5-5-4-4-3-3-4 3120 3-4-5-5-5-6-5-5-5-5 3160 4-6-5-5-5-6-5-5-5-5 3160 4-6-5-4-4-5-4-3-4 3120 3-4-3-3-3-3-4-4-4-6 3150 3100 3-4-3-3-3-3-4-4-4-6 3150 3100 3-4-3-3-3-3-4-4-4-6 3150 3100 3-4-5-5-5-6-5-5-5-5 3160 4-4-4-4-5-5-5-5-5 3160 4-6-5-4-4-5-4-3-3-4 3190 6-6-7-7-6-5-5-5-5-6 3200 3200 3200 3-4-3-5-6-6-3-5-3-3-5 3200 3200 3200 3-4-3-5-6-6-3-5-3-3-5 3200 3200 3-4-3-5-6-6-3-5-3-3-5 3200 3200 3-4-3-5-6-6-3-5-3-3-5 3200 3200 3200 3-4-3-5-5-6-6-5-5-5-5-6 3200 3200 3200 3200 3-4-3-5-5-6-6-5-5-5-5-6 3200 3200 3200 3200 3200 3200 3200 320			
3000 to 3010 3-4-3-3-2-3-3-4-4-4 3020 5-6-5-6-7-5-4-5-5-5 3030 4-5-5-6-5-5-5-3-3-3 3040 4-3-5-4-5-4-3-4-4-4 3050 4-3-5-4-5-4-3-4-4-4 3050 4-3-5-4-5-4-4-4-5 3060 4-6-2-5-4-3-4-4-6 3070 3080 3-2-3-3-4-3-5-6-5-4 3090 5-5-5-6-4-5-5-5 3100 5-5-5-6-4-5-5-5 3100 5-5-5-6-4-5-5-5 3100 5-5-5-4-4-4-6-6 3110 6-6-5-5-5-6-2-4-2-4 3120 3-4-3-3-3-4-4-4-6 3140 4-3-4-3-3-5-5-4-5-6 3150 3160 4-6-5-4-4-5-4-3-4 3170 4-4-4-4-4-5-5-5-5-5 3160 4-6-5-4-4-5-4-3-4 3170 4-4-4-4-4-5-5-5-5-5 3180 3190 6-6-7-7-4-2-5-6-8 3200 3200 5-6-6-6-5-3-5-4 3220 3240 4-3-5-6-6-3-3-3-5 3240 3250 3260 5-6-6-6-6-6-6-6-6-6-6 3270 3280 4-4-4-3-2-2-4-6-7-8 3290 3200 3310 380 380 4-4-4-3-2-2-4-6-7-8 3290 7-6-5-6-5-6-5-6-5-5 3300 7-4-7-7-5-8-8-7-8-7 3300 3310 380 380 380 380 380 380 380 380 380 38	2920 2930 2940 2950 2960 2970 2980 2990	4-3-2-3-4-3-3-2-2-3 3-2-4-5-4-2-4-4-5-4 5-4-4-4-3-4-4-5-4 5-6-6-4-4-4-5-2-2-2 2-2-2-2-1-2-1-2-1-2 2-3-2-4-5-4-4-3-2-2 4-4-5-5-3-4-4-5-3-4 3-2-3-3-4-4-5-5-5-5	DST #2
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3300 to 3310	3200 to 3210 3220 3230 3240 3250 3260 3270 3280 3290	4-3-5-5-6-6-5-3-5-4 3-4-5-6-6-3-5-3-3-5 3-6-5-6-7-5-7-6-5-5 4-4-4-3-5-3-4-3-2-4 2-3-4-3-4-3-3-3-4-7 5-6-6-6-6-6-6-6-6-7 6-4-6-5-6-5-4-4-5-4 4-4-3-2-2-4-6-7-8 7-6-5-6-5-6-5-6-5-5	
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3540 3550 3560 3570 3580	3-5-4-4-4-4-4-5-4-6 5-5-4-6-6-4-6-5-6-5 4-5-6-4-3-4-5-4-4-4 4-4-3-4-4-5-5-4-4-4 4-4-4-5-5-5-4-5-5-6-5	DST #9		