TYPE

SIDE ONE

AFFIDAVIT OF COMPLETION FORM
CORRECTED COPY

ACO-1 WELL HISTORY

Compt.

23-19-15W

(Rules 82-3-130 and 82-3-107)
This form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ninety (90) days after the completion of a well, regardless of how the well was completed.

FOR INFORMATION REGARDING THE NUMBER OF COPIES TO BE FILED AND APPLICATIONS REQUIRING COPIES OF ACO-1 FORMS SEE PAGE TWO (2), SIDE TWO (2) OF THIS FORM.

F ____ Letter requesting confidentiality attached.

C X Attach ONE COPY of EACH wireline log run (i.e. electrical log, sonic log, gamma ray neutron log etc.)***Check here if NO logs were run____.

PLEASE FILL IN ALL INFORMATION. IF NOT AVAILABLE, INDICATE. IF INFORMATION LATER BECOMES AVAILABLE, SUBMIT BY LETTER.

LICENSE # 5140 EXPIRATION DATE 6-30-83

OPERATOR Frontier Oil Company API NO. 15-009-23,090

ADDRESS 1720 KSB Building COUNTY Barton

Wichita, Ks. 67202 FIELD Breeden East

** CONTACT PERSON Jean Angle PROD. FORMATION Arbuckle

PHONE (316)263-1201.

PURCHASER Northern Gas Products Company LEASE Button "A"

ADDRESS 2223 Dodge Street WELL NO. 1

Omaha, Nebraska 68102 WELL LOCATION 150' W of NE¼ NE¼ NW¼

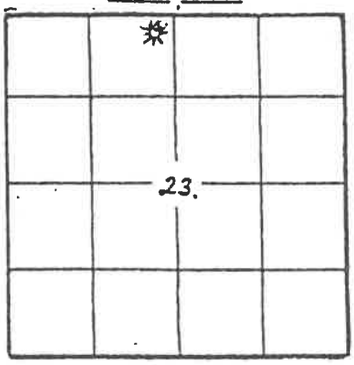
DRILLING CONTRACTOR Red Tiger Drilling 330 Ft. from North Line and

ADDRESS 1720 KSB Building 2160 Ft. from West Line of

Wichita, Kansas 67202 the NW (Qtr.) SEC 23 TWP 19S RGE 15 (E

PLUGGING CONTRACTOR ADDRESS N/A

WELL PLAT



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

TOTAL DEPTH 3665' PBTD N/A

SPUD DATE 4/12/83 DATE COMPLETED 07-13-84

ELEV: GR 1915 DF 1917 KB 1920

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

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

Amount of surface pipe set and cemented 884' DV Tool Used? no.

TYPE OF COMPLETION THIS AFFIDAVIT APPLIES TO: (Circle ONE) - Oil, ~~Shut-in Gas~~, Gas, Dry, Disposal, Injection, Temporarily Abandoned. If OWWO, indicate type of re-completion ____. Other completion ____. NGPA filing ____

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

Jean 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.

~~CONFIDENTIAL~~

SIDE TWO

ACO-1 WELL HISTORY

OPERATOR Frontier Oil Company LEASE Button "A" SEC. 23 TWP. 19S RGE. 15 (E) (W)

FILL IN WELL INFORMATION AS REQUIRED: WELL NO. 1

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
_____Check if no Drill Stem Tests Run.				
_____Check if samples sent to Geological	Survey			
Sand & Shale	0	847	Anhydrite	847 (+1073)
Anhydrite	847	879	Herrington-Krider	1768 (+ 152)
Shale	879	1665	Winfield	1821 (+ 99)
Shale & Lime	1665	1870	Fort Riley	1921 (- 1)
Shale	1870	2430	Council Grove	2082 (- 162)
Shale & Lime	2430	2695	Neva	2278 (- 358)
Shale	2695	2703	Red Eagle	2334 (- 414)
Shale & Lime	2703	3130	Brownville Lm	2496 (- 576)
Lime	3130	3150	Tarkio	2610 (- 690)
Lime & Shale	3150	3235	Topeka	2891 (- 971)
Lime	3235	3260	Heebner	3148 (-1228)
Lime & Shale	3260	3342	Lansing-KC	3238 (-1318)
Lime	3342	3467	Base KC	3455 (-1535)
Shale & Lime	3467	3515	Conglomerate	3471 (-1551)
Lime & Shale	3515	3540	Arbuckle	3567 (-1647)
Shale & Lime	3540	3575	Quartz	3593 (-1673)
Quartz	3575	3665	RTD	3665 (-1745)
RTD		3665		
DST 1. 60-30-60-30. GD blo TO. Rec 180' WM. IF 63-105. FF 116-148. ISI 391 FSI 391.	1716	1870		
DST 2. 60-30-60-30. Strg blo TO. Rec 1470' SW. IF 150-561. FF 572-594. ISI 604. FSI 604.	1912	2080		
DST 3. 60-30-60-30. 1st op strg blo GTS 58". 6270 CFPD @ 60". 2nd op 19,500 CFGPD @ 5", 17,200 @ 10", 14,100 @ 20", 30" & 60". Rec. 310' GCM. IF 73-105, FF 105-158, ISI 668, FSI 668,	2082	2260		
If additional space is needed use Page 2,				

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	12 1/4"	8 5/8"	24#	891'	60/40 poz.	425	2% gel/3% cc
production	7 7/8"	4 1/2"	10½#	3,652.10'	common	175	10% salt

LINER RECORD N/A

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at
2-3/8"	3535'	3550'

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
4	DPs.	3570-3572'

~~CONFIDENTIAL~~

PAGE TWO (Side One) ACO-1 WELL HISTORY

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

FILL IN WELL LOG AS REQUIRED: WELL NO. 1

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 RU OR OTHER DESCRIPTIVE INFORMATIO

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST 4. 60-30-60-30. Strg blo TO. Rec. 180 HGCM, 360'GCMW. IF 169-190, FF 211-286, ISI 700, FSI 679.	2260	2430		
DST 5. 60-30-60-30. Wk bl to vy wk blo 1st op. No blo 2nd op. Rec70'M. IF 51-51, FF 71-71, ISI 659, FSI 559.	2506	2703		
DST 6. 60-30-60-30. Wk blo TO 1st op. Vy wk blo TO 2nd op. Rec 195' WM. IF 61-102, FF 122-163, ISI 978, FSI 948.	2878	2590		
DST 7. 60-30-60-30. Strg blo TO both ops Rec 1250' MSW. IF 71-448, FF 469-639. ISI 1216, FSI 1206.	3042	3150		
DST 8. 60-30-60-30. 1st op wk to fr blo. 2nd op Fr blo TO. Rec. 500' SW. IF71-163 FF 204-275, ISI 1007, FSI 968.	3142	3235		
DST 9. 60-30-60-30. Wk blo TO both ops. Rec. 140' thin M. IF51-71, FF 102-112, ISI 768, FSI 699.	3235	3310		
DST 10. 60-30-60-30. Strg blo incr to vy str TO both ops.. Rec 2340' SW. IF 153-938 FF968-1126, ISI 1186, FSI 1196.	3310	3373		
DST 11. 60-30-30-30. Vy wk blo 30". Fl tool. Vy wk blo 2". 2nd op No blo. Rec 10'M IF 40-40, FF 40-40. ISI 778, FSI 689.	3373	3410		
DST 12. 60-30-30-30. Vy wk bl 50". 2nd op No blo. Fl tool wk bl 5". Rec 20'M, IF 51-51, FF 61-61. ISI 255 FSI 224.	3357	3467		
DST 13. 60-30-60-30. Strg blo GTS in 25" 3,710 CFPD @ 27", 47", 57". 2nd op 121,000 CFPD @ 2", 4,120 @ 12", 3,710 @ 22", 32". 42", 52". Rec. 90'GCM. IF 71-71, FF 61-71. ISI 1047, FSI 988.	3454	3505		
DST 14. 60-30-60-30. Str blo GTS 38" TSTM 2nd op GTS-TSTM. Rec. 80' GCM. IF 61-71, FF 71-71, ISI 659, FSI 689.	3452	3540		
DST 15. 60-30-60-30. GTS 29". 26,600 CFPD @ 30", 77,500 @40", 81,600 @50", 89,600 @ 60". 2nd op, 63,300 CFPD @ 1", 197,000 @10" 139,000 @20", & 30", 156,000 @ 40", 50" & 60". Rec. 1170' fluid. 30' SlO&GCM, 180' O&GCM, 660' MCGsy O, 180' sl/MC GsyO, 115' sl/M&WC Gsy O, 5' SW. IF 96-332, FF 343-429, ISI 1017. FSI 1038.	3452	3570		

RTD 3665'. SIGW 5.12.83.
Production 07-13-84