

STATE OF KANSAS
STATE CORPORATION COMMISSION

15-163-19196-00-01

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to
Conservation Division
State Corporation Comm.
245 North Water
Wichita, KS 67202

Rooks _____ County. Sec. 11 Twp. 9S Rge. 16W E/W
Location as "NE/CNW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines _____
C N/2 NW NE

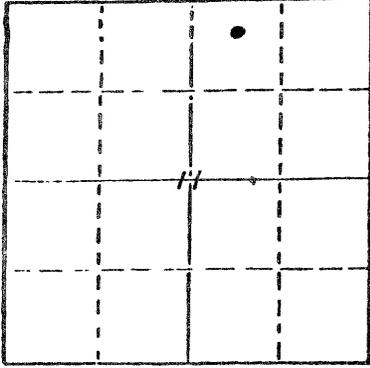
Lease Owner Murfin Drilling Co.
Lease Name Livingood "C" Well No. 4
Office Address 250 N. Water, Suite 300; Wichita, KS 67202
Character of Well (Completed as Oil, Gas or Dry Hole) _____
Oil, covered to inj. 12/15/67

Date Well completed September 13 1962
Application for plugging filed October 11 1982
Application for plugging approved October 14 1982
Plugging commenced June 7 1983
Plugging completed June 7 1983
Reason for abandonment of well or producing formation _____
Uneconomical

If a producing well is abandoned, date of last production _____
19 _____

Was permission obtained from the Conservation Division or
its agents before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well Marion Schmidt
Producing formation L/KC Depth to top 3222' Bottom 3417' Total Depth of Well 460'
Show depth and thickness of all water, oil and gas formations.



Locate well correctly on above
Section Plot

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
				8 5/8"	260'	
				4 1/2"	3459'	
				Squeeze at 900' w/125 sx.		

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hold. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Hooked to annulus space between 8 5/8" and 4 1/2" and pumped 75 sx. of Halliburton Light with 1/2" sx. hulls. Max. press. 375#, ISIP - 175#. Displaced with 1/4 BW. Hooked to 4 1/2" and pumped 275 sx. Halliburton Light with 25# Flocele and 1 sx. hulls. Calculated hole volume is 203 sx. Max. press. 700#, ISIP - 450#, hooked back to annulus and pumped 50 sx. Halliburton Light with 1/2 sx. hulls. Max. Press. 300#, ISIP - 75#. Bottom of cement in the annulus is calculated to be 811'.

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Murfin Drilling Company

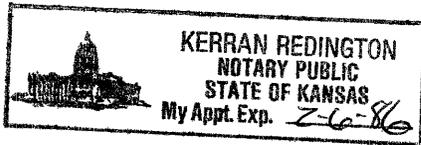
STATE OF KANSAS COUNTY OF SEDGWICK, ss.
P. T. Canaday, Jr. Engineer (employee of owner) or (owner or operator)
of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) By: P. T. Canaday, Jr.
250 N. Water, Suite 300; Wichita, KS 67202
(Address)

SUBSCRIBED AND SWORN TO before me this 5 day of July, 1983

My commission expires 2/6/86

Kerran Redington
Kerran Redington Notary Public.



RECEIVED
STATE CORPORATION COMMISSION

JUL 06 1983

7/6/83

JAMES I. DANIELS
PETROLEUM GEOLOGIST

PETROLEUM GEOLOGISTS

205 BROWN BUILDING
WICHITA, KANSAS

AMHERST 5-0614
August 17, 1962

JAMES R. DANIELS
GEOLOGICAL ENGINEER

RECEIVED
STATE CORPORATION COMMISSION

OCT 13 1962
CONSERVATION DIVISION
Wichita, Kansas

Broadview Oil Company
Broadview Hotel
Emporia, Kansas

15-163-19196-0-00

Re: Broadview Oil Company
Livingood No. 4-C
Cent. N/2 NW NE
Section 11-T9S-R16W
Rooks County, Kansas

Gentlemen:

Herewith is a report based on the examination of the cuttings from the well captioned above. I have examined all of the cuttings from 2800' to 3460' and was at the well from a depth of 3183' to 3460'.

All depths were measured from the Kelly Bushing which was 3 feet above the derrick floor and 5 feet above ground level.

Elevation: 2057' Kelly Bushing.

2935 (-368) Top of Topeka Lime.

3098 to 3107 - Limestone with a trace of microscopic porosity and an oil stain. This zone in the Topeka probably carried water.

3159 (-1092) Top of Heebner black shale.

3179 (-1112) Top of Toronto Lime.

3199 (-1132) Top of Lansing-Kansas City Lime.

3209 to 3213- Limestone with a few minute vugs. Poor porosity. Oil stained. This zone should be tested.

3256 to 3262- Limestone, oolitic and somewhat oolitic with fair porosity and a fair oil stain and an oil odor. This zone should be tested.

3274 to 3279- Limestone, oolitic and somewhat oolitic with fair porosity and fair oil stain and an oil odor. This zone should be tested.

3282 to 3284- Limestone with a trace of poor porosity and a slight stain of "dead" oil.

3362 to 3368- Limestone, with microscopic porosity and an oil stain. This zone should be tested.

Broadview Oil Company
Livingood No. 4-C
August 17, 1962
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3414 to 3419 - Limestone, colitic with a little minute
porosity and fair to spotted oil stain.
This zone should be tested.

3456 (-1389) Base of Kansas City Lime.

3460 (-1393) Total Depth.

It was recommended that casing be set on bottom and that the zones be perforated as recommended in the above report.

Respectfully submitted,

James I. Daniels
James I. Daniels

Copies to:

Paul Hayes, Natoma, Kansas
Broadview Oil Company, Empora, Kansas

DRILLING TIME LOG

Broadview Oil Company
 Livingood No. 4-C
 Center N/2 NW NE
 Section 11-T9S-R16W
 Rooks County, Kansas

15-163-19196-00-00

Contractor: Shields Drilling Company

Depth	Time in Minutes	Remarks
2800-2810	2-2-1-2-2-2-1-2-3-2	
-2820	3-4-4-4-4-4-3-4-2-3	
-2830	4-3-3-2-2-1-1-2-4-4	
-2840	3-3-4-4-4-3-3-4-3-2	
-2850	2-2-3-2-3-2-1-1-1-1	
-2860	1-1-1-1-1-1-1-1-1-2	
-2870	4-4-4-4-3-2-2-3-2-2	
-2880	1-1-1-2-2-1-1-1-1-2	
-2890	3-3-2-2-1-1-1-1-1-1	
-2900	1-1-1-1-1-1-1-1-1-2	
2900-2910	2-1-1-2-2-2-2-2-2-2	
-2920	2-3-4-2-2-1-1-1-2-3	
-2930	2-2-2-2-1-1-2-1-2-2	
-2940	1-1-1-1-1-2-3-3-3-3	
-2950	4-4-4-4-3-3-2-3-3-4	
-2960	4-4-4-4-4-5-4-4-3-3	
-2970	3-4-4-3-3-3-3-4-4	Trip at 2970' (GW)
-2980	3-2-2-2-3-3-3-3-3-2	
-2990	3-3-2-2-3-3-2-3-3-3	
-3000	4-3-3-3-2-3-3-3-3-3	
3000-3010	2-2-3-4-3-3-4-3-3-4	
-3020	3-3-3-4-4-4-4-3-5-4	
-3030	3-4-4-5-5-5-3-3-2-4	
-3040	3-3-3-3-4-3-3-3-5-5	
-3050	4-3-2-2-1-1-2-2-1-2	
-3060	2-2-3-3-4-3-5-6-4-4	
-3070	6-6-6-5-5-5-4-3-3-3	
-3080	3-3-2-3-4-5-4-4-4-5	
-3090	3-2-2-3-2-3-2-5-3-3	
-3100	5-5-4-2-1-3-7-5-3-3	
3100-3110	3-2-3-2-2-2-2-4-4-6	
-3120	5-6-5-5-5-5-5-6-7-6	
-3130	6-8-3-3-3-5-2-2-2-3	
-3140	2-3-6-6-6-4-4-6-5-4	
-3150	6-4-5-4-6-5-4-5-6-6	
-3160	9-7-8-7-6-6-5-5-6-4	
-3170	2-3-9-7-10-10-5-4-4-4	
-3180	4-5-4-4-5-4-3-4-3-4	
-3190	6-10-20-8-5-5-6-4-4-5	
-3200	5-5-5-5-3-3-1-1-3-4	
3200-3210	4-3-3-5-5-5-5-5-5-4	
-3220	4-4-3-5-5-4-5-5-5-6	
-3230	5-5-4-5-6-6-6-6-5-6	
		Trip at 3183' (SV2)

Broadview Oil Company
Livingood No. 4-C
Center N/2 NW NE
Section 11-T9S-R16W
Rooks County, Kansas

15-163-19196-00-00

Depth	Time in Minutes	Remarks
3230-3240	5-5-5-4-4-6-5-6-5-4	
-3250	4-4-4-4-3-3-5-6-6-6	
-3260	6-6-5-4-5-4-3-2-3-4	
-3270	3-4-5-5-5-6-6-5-6-5	Sl. Oil odor at 3265'
-3280	6-6-6-6-5-5-5-4-3-6	Oil odor at 3270'
-3290	5-6-3-3-4-5-7-6-6-5	Oil odor at 3280'
-3300	4-3-6-5-4-6-4-5-6-6	Oil odor at 3285'
3300-3310	5-5-6-6-5-4-5-5-6-5	Oil odor at 3290'
-3320	5-4-5-6-6-6-5-5-6-6	
-3330	6-7-6-6-6-6-7-6-5	
-3340	6-7-6-5-6-6-4-5-7-5	
-3350	5-4-4-4-4-7-6-6-5-6	
-3360	6-6-6-5-6-9-8-8-7-8	
-3370	9-7-6-5-4-4-3-3-7-8	
-3380	7-6-6-6-6-7-7-7-7-6	
-3390	5-6-6-8-10-4-4-5-4-4	
-3400	4-4-3-4-4-4-3-4-3-5	Trip at 3385' (Ys1)
3400-3410	4-4-6-5-5-4-3-3-4-5	
-3420	3-5-4-6-4-4-4-4-6	
-3430	6-4-5-6-5-4-6-4-6-6	
-3440	6-7-7-6-7-6-6-5-7-7	
-3450	6-7-7-6-6-7-7-7-6-7	
-3460	7-6-7-7-7-7-8-8-10-8	Total Depth 3460'

COMPLETION DATA SHEET

15-163-19194-00-00

PRODUCTION DEPARTMENT

Lease Livingood "C"
Well No. 4 Sec. 11 T. 9S R. 16W
Rooks Co., Kansas

CLINTON OIL COMPANY

DIVISION Northern FIELD Laton LOCATION C N/2 NW NE

WELL PROFILE

TD	DRILL PIPE 3460	LOG	ELEVATION	DATUM POINT (GRD-KB-DF) up 5.0' from GL DATUM POINT ELEVATION GL 2062'
PBTD	DRILL PIPE 3424	GAMMA-RAY		

CASING DESIGN

SIZE	WEIGHT	GRADE	THREAD	COUPLING	MAKE	NO JTS.	FOOTAGE	SACKS
8 5/8	28						@ 260	
4 1/2	9.5						@3459	
					sq csg @ 900			125
2 3/8			8rd	EUE	cmt-lined - r4c	101	@3109	

PERFORATED INTERVAL	FORMATION	REMARKS
3220-25	LKC "A" zn	
3236-43	"B"	
3253-59	"B"	
3292-98	"G"	
3305-10	"G"	
3364-67	"I"	
3391-96	"J"	
3413-17	"K"	

COMMENTS:

7/4/83
RECEIVED
STATE CORPORATION COMMISSION
JUL 06 1983
CONSERVATION DIVISION
Wichita, Kansas

SUBMITTED BY Merle J. Savage DATE 10-13-71 APPROVED BY [Signature] RECEIVED STATE CORPORATION COMMISSION JUL 06 1983