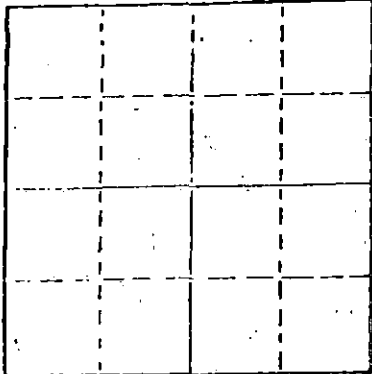


STATE OF KANSAS
STATE CORPORATION COMMISSION

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

Rice County, Sec. 4 Twp. 20 Rge. 7W E/W
Location as "NE/CNW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines
NE NE NE
Lease Owner Brougher Oil Co.
Lease Name England #1 Well No.
Office Address Great Bend, Kansas 67530
Character of Well (Completed as Oil, Gas or Dry Hole)



Locate well correctly on above
Section Plot

Date Well completed 19
Application for plugging filed 19
Application for plugging approved 19
Plugging commenced 2/25/80 19
Plugging completed 2/28/80 19
Reason for abandonment of well or producing formation
depleted.
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 Toman
Producing formation Depth to top Bottom Total Depth of Well 3285
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
				8-5/8	261	none
				4 1/2"	3316	2612'

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.

Sanded to 3200' and ran 3 sacks cement. Shot pipe at 2705', 2629', pulled 68 joints.
Set rock bridge from 300 to 275' and ran 4 1/2 yards ready mix.

PLUGGING COMPLETE.

3-3-80

RECEIVED
STATE CORPORATION COMMISSION

(If additional description is necessary, use BACK of this sheet) 1980

Name of Plugging Contractor KELSO CASING PULLING
CHASE, KANSAS

CONSERVATION DIVISION

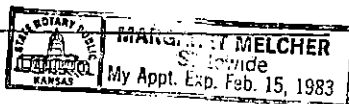
STATE OF KANSAS COUNTY OF RICE, ss.
R. DARRELL KELSO (employee of owner) on (owner or operator)
of the above-described well, being first duly sworn on oath, says: That I have knowledge of
the facts, statements, and matters herein contained and the log of the above-described well
as filed and that the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

(Signature) R. Darrell Kelso
CHASE KANSAS (Address)

SUBSCRIBED AND SWORN TO before me this 29th day of Feb., 19 80

Margaret Melcher
Notary Public.

My commission expires



CARL TODD
Petroleum Engineer

15.159.20647.0000

1117 WEST RIVER BOULEVARD
WICHITA, KANSAS 67203
Nov. 18, 1976

TELEPHONE AM 7-0144

George Ewonus & Bolyard Oil & Gas, Ltd., et al

England # 1

NE-NE-SE 1/4

Section 4-T 20 S- R 7 W

Rice County, Kansas

RECEIVED
STATE CORPORATION COMMISSION

FEB 27 1980

CONSERVATION DIVISION
Wichita, Kansas

Commenced: 11-9-76 Elev.: 1710 KB
Completed: 11-16-76 1708 DF
Contractor: Red Tiger Drlg. Co., Rig #3 1705 Gr.
Surface Casing: 8 5/8 @ 261 W/175 Sx. Production Csg.: 4 1/2 @ 3316 W/125 Sx.
T.D. 3285'

GENERAL

Captioned well is classed as a development well in the Centennial Pool.
Location was in a wheat field.

Samples were saved at ten (10) foot intervals from 1100 to 1240 and
1800 to 3320 Rotary Total Depth, except through critical zones, where
five (5) foot and circulating samples were caught.

Drilling time was recorded by Geolograph and plotted from 2400 to 3320
on the enclosed time and sample log.

All depths in this report are Drill Pipe measurements from Kelly Bushing
(Elevation 1710) unless otherwise noted. Drill Pipe & Electric Log
measurements checked within one (1) foot plus or minus on all reliable
tops.

GEOLOGICAL

Electric Log Tops

Howard Limestone	2314	(- 604)
Severy Shale	2377	(- 667)
Severy Sand	2400	(- 690)
Topeka	2422	(- 712)
Heebner Shale	2713	(-1003)
Douglas Shale	2745	(-1035)

Brown Lime	2958	(-1172)
LANSING-KANSAS CITY	2994	(-1184)
MARMATON	3191	(-1481)
MISSISSIPPIAN	3259	(-1519)
KINDERHOOK Shale	3286	(-1576)

Drill Stem Test #1

Covered the Herrington-Krieder and Towanda Zones from a depth of 1140-1240 with negative results. Details of this DST will be shown in Mr. Ewonus's report.

MARMATON

There were three zones in the Marmaton formation with saturated to spotted stain. From sample examination the best zone appears to be from 3224 to 31. It was described as fine sacrosic limestone with a trace of oolites and fossils. It did not appear to have good porosity. It should be perforated, acidized and tested before final abandonment.

MISSISSIPPIAN CHERT 3258-83

The top 6 to 8 feet of this zone appeared to be blocky, dense vitereous orange to pink chert and for the most part non-porous. The remainder of the zone was clean, white, vitereous to dull, semi-tripolitic with some fine vugular porosity and some evidence of fracture-solution porosity. Several gas bubbles were observed, but no gas odor was present.

DRILL STEM TEST NO. 2 3255-86

Date: 11-15-76 Tool open @ 1 PM.

Open 30' shut in 1 hour --Open 1 hour shut in 1½ hrs.

Weak blow increasing to fair blow.

Gas to surface in 45 min. (15 min. after 2nd opening)

Too small to measure.

Recovered 15 feet of thin gassy mud.

BHP 275/774PST- FP 45 & 57 PSI.

Comments and Recommendations

On the Lansing-Kansas City formation subject well is flat with Messman-Rinehart England No.1 (C S $\frac{1}{2}$ NE Sec. 4) and these two wells are the highest in the area. It is higher than all other wells in the area on the Mississippian with the exception of Pyramid's No. 1 Mathew.

Electric Log Calculations indicate this zone to have favorable porosity. However, DST data indicates poor permeability and possibly some formation damage. Fracture treatment will be necessary to establish commercial gas production.

Considering the wells structural position, Electric Log evaluation, sample study, Drill Stem Test data and the possibility of Marmaton Oil production, it was recommended that 4 $\frac{1}{2}$ " production casing be set at 3316 with 125 sacks. Completion to be made through perforations with suitable stimulation treatment.

Respectfully submitted,

Carl Todd

Carl Todd