

walters drilling co.

WICHITA 2, KANSAS

AMherst 5-6683

January 4th, 1962

1963

G E O L O G I C A L R E P O R T

WALTERS DRILLING CO. & BEARDMORE DRILLING CO.
ELMORE #1
C NE/4 SW/4 Section 17-17S-24W
Ness County, Kansas

CONTRACTOR: Walters Drilling Co. ELEVATION: 2426 KB
2424 DF
2421 GL

COMMENCED: December 15th, 1962

COMPLETED: December 29th, 1962

CASING RECORD: 8-5/8" @ 115' w/80 sacks cement
5-1/2" @ 4390 1/2' w/125 sacks cement
2 stage tool @ 1516' w/325 sacks cement

CORES: #1 4282-4294 Fort Scott (Core Analysis by Ivan Stuber
#2 4297-4310 Fort Scott of Kansas Cores.)
#3 4380-4395 Mississippian

DRILL STEM TESTS: #1 4266-4294 Fort Scott
#2 4390-4395 Mississippian

ELECTRICAL SURVEYS: None

SAMPLES: Samples were examined and 1 foot drilling time was
logged from 3700' to 4395', rotary total depth. Also,
5' drilling time was logged from 115' to 3700'. Ten foot
samples were saved from 2400' to 4200' and 5 foot samples
from 4200' to 4395'.

MEASUREMENTS: All datums below are with reference to kelly bushing
elevation. A pipe strap taken at 3862' found a 9'
discrepancy in driller's measurements. This error was
located near 1500', therefore all tops and depths from
1500' to 3862' were corrected upward 9 feet. A casing
tally at total depth tied within two inches of rotary TD.

Structural comparison is made on Page 2 with the subject well and it's nearest
offset, the Dickman #3, located a 40 acre location north, in the C SE/4 NW/4
of Section 17-17S-24W.

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510 ORPHEUM BLDG.

WICHITA 2, KANSAS

AMherst 5-6683

December 27, 1963

TO: OWNERS OF THE DICKMAN,
TILLEY AND ELMORE LEASES

RE: PRODUCTION TESTS
Dickman Field
Ness County, Kansas

Gentlemen:

On December 20, fluid level tests were taken on all wells on the above leases.

WELL	STROKES PER MINUTE	LENGTH STROKE	MEASURED PUMPING	FLUID LEVELS: FEET OB		LATEST BBL. TEST	
				DOWN 4 HRS	DOWN 8 HRS	BOPD	BWPD
Tilley No. 1	14	48"	2980	3300	3330	27	153
Tilley No. 2	10	48"	2860	3200	3370	33.5	87.5
Dickman No. 1	12	48"	3230	3340	3400	109	51
Dickman No. 2	12	48"	1720	1940	2200	66.5	44.5
Dickman No. 3	12	54"	?	64	160	26	59
Elmore No. 1	10	54"	43	93	124	14	43

COMMENTS:

Tilley No. 1: The fluid level test indicates this well to be pumping far below its capacity. Water percentage (85%) is high, but has been relatively stable since March, 1963, and an increase in the pumping rate in July did not noticeably increase the water percentage. This well can be pumped faster to recover more total fluid and therefore more oil per day.

Tilley No. 2: The fluid level test in this well is very similar to that in the Tilley No. 1. Water percentage is presently 72%, and still increasing by about 1 percent per month or slightly less, recently showing a levelling off. If the water percentage does not continue to increase in the next few months, an increase in pump rate or longer stroke will recover more fluid and oil per day.

Dickman No. 1: This well has an unusually large capacity as evidenced by the fact that the fluid level while pumping at the rate of 160 BFPD was found to be only 170 feet lower than when the well was shut down eight hours. Water production has been level at 32% for the past three months. Performance is very satisfactory.

Dickman No. 2: Fluid level test shows adequate capacity. Present production is well over the 44 BOPD allowable and water percentage has shown moderate increase of about 1 percent per month for the past nine months. Performance satisfactory.

Dickman No. 3: Two attempts to record a pumping fluid level test in this well were inconclusive, however, fillup rates were quite small, and the pump is pounding. Total fluid production is 85 BFPD, and showing a slight decline from month to month, but water percentage (69%) has been level for the past seven months. At the present rate of oil production, we recommend no action, as the well is pumping at maximum capacity, and further acid treatment would probably increase water cut.

Elmore No. 1: The fluid level in this well is very low, pump pounding, and full capacity being produced. Total fluid shows a monthly decline, and water cut is increasing about 3 percent per month. When this well reaches its economic limit, a very large acid job may be necessary to increase total fluid production.

State Tests were taken recently in all wells in the Dickman Pool:

Dickman No. 1	12-18-63	104 BOPD plus 32% water	allowable 44 BOPD
Dickman No. 2	12-18-63	68 BOPD plus 40% water	allowable 44 BOPD
Dickman No. 3	12-12-63	28 BOPD plus 69% water	allowable 28 BOPD
Tilley No. 1	12-16-63	33 BOPD plus 85% water	allowable 33 BOPD
Tilley No. 2	12-18-63	54 BOPD plus 72% water	allowable 44 BOPD
Elmore No. 1	12-18-63	17 BOPD plus 75% water	allowable 17 BOPD

Very truly yours,

WALTERS DRILLING CO.

Alfred James III

Alfred James III, Partner

AJIII:jg