

Geological Well Report

on

Mack Oil Company

No. 1 Eubank Unit

C SW NE Sec. 20-21S-42W

Hamilton County, Kansas

by

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The following are electric log formation tops on the #1 Eubank Unit:

Base Cimarron Anhydrite	2354 (✓1414)
Top Krider	2706 (✓1062)
Winfield	2748 (✓1020)
Lower Ft. Riley	2844 (✓ 924)

Hycalog, Inc. gas unit # 114 was installed on the well from surface pipe depth to total depth. The only show of gas logged was in the Greenhorn limestone of Cretaceous age from a depth of 594 to 640 feet. Twenty-eight units of total gas increase and 15 units of methane was recorded. This zone is believed to be a shaley chalky limestone. No production to the knowledge of the writer has been established from this bed anywhere in Kansas. The show of gas logged by the gas unit is believed to be a legitimate indication of the presence of gas in the formation. Whether or not commercial production could be established would be dependent upon a number of factors. It is doubted at this time that enough gas could be produced from this zone to warrant the investment necessary to establish a gathering system and compressor facilities which would probably be necessitated to produce gas into a high pressure line. At some future time it maybe that a number of wells producing even a small amount of gas from this shallow depth could be operated economically. It is felt however, that if production is not established from any lower zones in the Eubank well the Greenhorn should be perforated and tested before the well is abandoned.

William R. Atkinson

Mack Oil Company #1 Eubank Unit

1st drilling time

2300-10	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
10-20	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
20-30	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
30-40	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $1\frac{1}{2}$ 3 3 $3\frac{1}{2}$ $4\frac{1}{2}$ $4\frac{1}{2}$
40-50	5 4 $4\frac{1}{2}$ 5 5 5 5 5 5 5
50-60	5 5 6 6 7 5 2 2 2 2
60-70	2 2 2 2 2 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 1 1
70-80	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 3 2 2 2 2 $2\frac{1}{2}$
80-90	$2\frac{1}{2}$ $2\frac{1}{2}$ 2 $2\frac{1}{2}$ 3 4 3 3 3 $3\frac{1}{2}$
90-2400	$3\frac{1}{2}$ 3 3 3 3 $2\frac{1}{2}$ 3 4 $3\frac{1}{2}$ $\frac{1}{2}$
2400-10	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $\frac{1}{2}$ $1\frac{1}{2}$ 2
10-20	2 $1\frac{1}{2}$ $1\frac{1}{2}$ 2 $1\frac{1}{2}$ $1\frac{1}{2}$ 1 1 1 1
20-30	1 1 1 1 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
30-40	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $1\frac{1}{2}$ 1 1 $2\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$
40-50	3 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ $3\frac{1}{2}$ 2 2 2 2 2
50-60	2 2 2 2 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
60-70	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1
70-80	1 1 $1\frac{1}{2}$ 2 $\frac{1}{2}$ 1 $1\frac{1}{2}$ $1\frac{1}{2}$ 1 1
80-90	1 1 1 2 2 $2\frac{1}{2}$ 2 2 $1\frac{1}{2}$ $1\frac{1}{2}$
90-2500	2 1 $\frac{1}{2}$ $\frac{1}{2}$ 1 2 2 2 2 $1\frac{1}{2}$
2500-10	2 2 $2\frac{1}{2}$ $\frac{1}{2}$ 1 $1\frac{1}{2}$ 1 $1\frac{1}{2}$ 2 $1\frac{1}{2}$
10-20	$1\frac{1}{2}$ $1\frac{1}{2}$ 1 1 $\frac{1}{2}$ 1 2 2 $1\frac{1}{2}$ 1
20-30	1 1 2 $1\frac{1}{2}$ $1\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 3
30-40	2 2 $1\frac{1}{2}$ $1\frac{1}{2}$ 2 2 $2\frac{1}{2}$ $2\frac{1}{2}$ 3 $2\frac{1}{2}$
40-50	3 2 2 2 2 2 2 2 1 $1\frac{1}{2}$
50-60	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 2 2 3 $2\frac{1}{2}$ 3 3
60-70	$2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 3 2 3 4 4 $3\frac{1}{2}$ 4
70-80	3 3 $4\frac{1}{2}$ $3\frac{1}{2}$ 3 $3\frac{1}{2}$ 5 3 $3\frac{1}{2}$ 3
80-90	$3\frac{1}{2}$ 3 3 $2\frac{1}{2}$ $3\frac{1}{2}$ 3 3 $3\frac{1}{2}$ 3 $2\frac{1}{2}$
90-2600	3 4 $3\frac{1}{2}$ $3\frac{1}{2}$ 3 $3\frac{1}{2}$ $3\frac{1}{2}$ 3 3 $3\frac{1}{2}$
2600-10	3 3 $3\frac{1}{2}$ $4\frac{1}{2}$ $2\frac{1}{2}$ 3 $3\frac{1}{2}$ 3 3 2
10-20	$2\frac{1}{2}$ 2 2 2 2 2 2 2 $2\frac{1}{2}$ 2
20-30	2 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 2 2 2 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$
30-40	$2\frac{1}{2}$ $2\frac{1}{2}$ 2 3 4 $3\frac{1}{2}$ 3 3 3 $2\frac{1}{2}$
40-50	1 $2\frac{1}{2}$ 3 $2\frac{1}{2}$ 3 $3\frac{1}{2}$ $3\frac{1}{2}$ 3 $3\frac{1}{2}$ 3
50-60	3 3 3 $3\frac{1}{2}$ 4 $-$ $-$ $-$ 2 $3\frac{1}{2}$
60-70	4 $3\frac{1}{2}$ $3\frac{1}{2}$ 4 4 4 4 4 4 4
70-80	3 3 4 $4\frac{1}{2}$ $3\frac{1}{2}$ 3 4 3 $2\frac{1}{2}$ $2\frac{1}{2}$
80-90	$2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 4 $3\frac{1}{2}$ 4 4 $3\frac{1}{2}$ $3\frac{1}{2}$
90-2700	$4\frac{1}{2}$ 4 $3\frac{1}{2}$ $4\frac{1}{2}$ $4\frac{1}{2}$ $3\frac{1}{2}$ 4 $3\frac{1}{2}$ 3 3
2700-10	4 $3\frac{1}{2}$ 3 $2\frac{1}{2}$ 3 3 3 4 4 4
10-20	$3\frac{1}{2}$ $3\frac{1}{2}$ 4 $3\frac{1}{2}$ 4 4 5 5 4 5
20-30	4 3 4 3 3 4 3 $2\frac{1}{2}$ $3\frac{1}{2}$ 5
30-40	3 $2\frac{1}{2}$ $2\frac{1}{2}$ 1 $2\frac{1}{2}$ 3 $2\frac{1}{2}$ 3 2 $2\frac{1}{2}$
40-50	3 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 3 $3\frac{1}{2}$ $2\frac{1}{2}$ 3 3
50-60	$2\frac{1}{2}$ 3 3 $2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{1}{2}$ 3 $2\frac{1}{2}$ $2\frac{1}{2}$ 5
60-70	2 2 $2\frac{1}{2}$ 2 2 3 3 3 3 $2\frac{1}{2}$
70-80	$3\frac{1}{2}$ 3 3 $3\frac{1}{2}$ $3\frac{1}{2}$ 3 3 $2\frac{1}{2}$ 2 $3\frac{1}{2}$
80-90	2 3 $2\frac{1}{2}$ 2 2 3 $3\frac{1}{2}$ $3\frac{1}{2}$ $4\frac{1}{2}$ $4\frac{1}{2}$
90-2800	$4\frac{1}{2}$ 5 $4\frac{1}{2}$ 3 2 2 2 $2\frac{1}{2}$ 2 2

Trip at 2445

2645-48 time not recorded

Trip at 2697

2800-10 2-2-2-2-2 $\frac{1}{2}$ -3-3 $\frac{1}{2}$ -3 $\frac{1}{2}$ -3-4
 10-20 4-3 $\frac{1}{2}$ -3-3-2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -2-2-2-2
 20-30 2-2-2-2-2-2-2-2-2-2 $\frac{1}{2}$
 30-40 3 $\frac{1}{2}$ -2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -2-2-2-2 $\frac{1}{2}$ -2-2-2
 40-50 3 $\frac{1}{2}$ -3-2 $\frac{1}{2}$ -3-2-2 $\frac{1}{2}$ -3-3-2 $\frac{1}{2}$ -2 $\frac{1}{2}$
 50-60 2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -5 $\frac{1}{2}$ -2-4 $\frac{1}{2}$ -3 $\frac{1}{2}$ -4-3-5 $\frac{1}{2}$ -5
 60-70 5-3 $\frac{1}{2}$ -7-4-4 $\frac{1}{2}$ -3 $\frac{1}{2}$ -4 $\frac{1}{2}$ -4 $\frac{1}{2}$ -4-4
 70-80 5 $\frac{1}{2}$ -4-3 $\frac{1}{2}$ -4 $\frac{1}{2}$ -6-4-4-5-4-4
 80-90 3-3-3 $\frac{1}{2}$ -4-4-4-3 $\frac{1}{2}$ -3-3-4 $\frac{1}{2}$
 90-2900 4 $\frac{1}{2}$ -4 $\frac{1}{2}$ -5-3 $\frac{1}{2}$ -5-4-3-3-3 $\frac{1}{2}$ -3 $\frac{1}{2}$
 2900-10 4-3-3 $\frac{1}{2}$ -4-3 $\frac{1}{2}$ -3-3-4-4-3 $\frac{1}{2}$
 10-20 4-3 $\frac{1}{2}$ -3 $\frac{1}{2}$ -4-2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -3 $\frac{1}{2}$ -3-3 $\frac{1}{2}$
 20-30 4-2-2-2-1-2-2-2-3-2
 30-40 3-2-2-3-4-4-4-2-2-1
 40-50 3-3-2-2-4-4-3-3-2-1
 50-60 2-1-3-4-4-4-4-3-4-4
 60-70 4-6-16-4-2-3-4-6-5-5
 70-80 5-4-4-4-4-8-4-3-4-4
 80-90 3-2-2-4-4-5-5-5-3-5
 90-3000 4-4-4-3-5-6-4-3-3-5
 3000-10 6-4-5-5-4-4-6-5-4-3

Trip at 2850

Total Depth 3010