

Frem Oil Company - Max Fries No. 21 - Federal

May 21, 1965.

Test No. 4 .

By; Arrow Testers, Inc.

Interval tested: 10,782 to 10,844'.
Formation tested: Atoka
Packer set: 2 Hrs. 39 Mins.
Tool open before ISI - 4 Mins. - ISI - 15 Mins.
Flow period: 1 Hrs. 00 Mins.
Final shut-in: 0 " 50 "
Bottom hole choke: 5/8"; surface: 0-1 Adj.; Temp. 98;
Surface Action: Opened tool with strong flow prior to ISI. with
strong blow; Gas to surface in 27 Mins. with volume
too small to measure and continued the same Thru-out test;
Recovery: 360 ft. of gas cut drilling fluid;
1180 ft. of salt water. Ch. 2,200 PPM.
Remarks: Ch. On drilling fluids -500 PPM
Pressures: A. - IHP - 5321 ; B. - FFP - 996 ;
B. - ISIP - 4494 ; D. - PSIP - 4494 ;
C. - IFP - 932 ; F. - FMP - 5321 .

May 27, 1965.

Test No. 5 .

By: Foster Testers, Inc.

Interval tested: 11,100 to 11,319'.
Formation tested: Morrow
Packer set: 3 Hrs. 20 Mins.
Time tool open: 20 Minutes:
Initial shut-in: 1 " 30 "
Final shut-in: 1 " 30 "
Choke size - Top 1" Bottom: 5/8";
Surface Actions: Strong gas in 3 Mins.; Mud in 7 Mins.; flowed well
20 minutes. 700# surface pressure on 1" choke;
estimated 18,000,000 CFPD; pressure still climbing;
Recovery: 370' distillate; 180' oil and gas cut mud;
Remarks: 4 minutes pre flow; - 750' total drill collar length.
Pressures: A. - IHP - 5502 ; D. - FFP - 3799 ;
B. - ISIP - 5060 ; E. - PSIP - 5037 ;
C. - IFP - 3601 ; F. - FMP - 5492 .

June 9, 1965 .

Test No. 6 .

By: Johnston Testers, Inc.

Type test: M.F.E. (straddle)
Interval tested: 6954' to 7080'.
Formation tested: Abo
Packer set: 6948' - 7080';
Time Tool open: 1 Hrs. 01 Mins.
Initial shut-in: 2056#;
Final shut-in: 1 Hrs. 01 mins.; finished shut-in: 1 Hrs. 47 Mins.;
Choke size: Top 1" - Bottom 5/8"; too small to measure;
Surface Action: Mud blow; gas to surface in 8 mins.; losing fluid in
annulus/ slowly when tool opened; blow decreased to a
fair blow at end of test;
Recovery: reversed out heavily gas and sulphur water cut mud; 6180' (61.11 bbls.)
90' of water cut mud; well temp. 128;
Pressure data: A. - IEMD - 3460 ; D. - FF - 2001 ;
B. - IBI - --- ; E. - PSI - 2056 ;
C. - IF - 949 ; F. - FHMUD - 3463 .

June 13, 1965.

TEST No. 7

By: Johnston Testers, Inc.

Interval tested: 12,275' to 12,299'.
Formation tested: Devonian
Packer set: 12,197' .

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For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or email at mhwang@uiowa.edu.

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19. The following are the names of the members of the
Committee appointed by the State Government to
enquire into the circumstances of the
murder of Mr. J. P. Clark.

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1. *Chlorophytum comosum* L. (Liliaceae) - *Clorofitum*

1. *Leucosia* *leucostoma* *leucostoma* *leucostoma* *leucostoma*

10. *Leucosia* *leucostoma* *leucostoma* *leucostoma* *leucostoma* *leucostoma*

1. The first step in the process of creating a new product is to identify a market need or opportunity.

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