31-31-15E

GEOLOGICAL

WELL REPORT

ON

SAM A. MURPHY

#3 SMITH

SW - SE - SE

SECTION 31, TOWNSHIP 31 SOUTH,

RANGE 15 EAST,

MONTGOMERY COUNTY,

KANSAS

PREPARED FOR

S. A. MURPHY

WICHITA, KANSAS

BY

H. A. PEARCE

CONSULTING PROFESSIONAL

GEOLOGIST

SEDAN, KANSAS

DATED

MAY 5, 1972

INTRODUCTION: The S. A. Murphy #3 Smith test well is located in the SW - SE - SE, Section 31, township 31 South, Range 15 East, Montgomery county, Kansas.

This test well was contracted as an offset test to the Bartlesville Sandstone which produces gas in the #2 Smith located in the SE - SE - SE of Section 31.

B & N Drilling Company was awarded the drilling contract and Rotary drilling operations commenced on April 28, 1972. The first surface hole was lost due to fractured lime and crevices. The rig was subsequently moved 30 feet to the South and on April 30, 1972 at a depth of 177 feet, the contractor ran 8 5/8" O.D. surface pipe to 176 feet and cemented same to surface. Whem the cement had set, drilling operations commenced, cutting a 7 7/8" O.D. hole from 177 feet to 1381 total depth which was into the Mississippian limestone.

No significant shows of oil and or gas were observed in the samples. At total depth a Gamma-Neutron log was run in the open hole by Cornish Well Logging Service of Chanute, Kansas. This log reveals no sand present in the Bartlesville Sandstone section and in addition the zone appears to be approximately 21 feet lower than the #2 Smith gas well which is East one location. After careful analysis, the decision was reached by the operator to plug and abandon this test well.

There follows herewith a brief analysis and lithology of samples as observed on this well. This report is respectfully submitted for your files.

T. A. Pearce

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Smith #3

DATA SHEET

Operator: S. A. Murphy, 712 Brown Bldg, Wichita, Kansas, 67202

Lease Name:Well No: #3 Smith

Location: Sw - SE - SE, 31, 31 South, 15 East
Montgomery County, Kansas

Elevation: Approx. 935 Ground Level

Operations: Commenced 4-28-72, ceased 5-3-72

Drilling Contractor: B & N Drilling Co., Independence, Kansas

Rig Type: Rotary - Gardner - Denver 1500 Hold-down

Surface pipe: 176' of 8 5/8" O.D. cemented to surface

Hole size: 7 7/8" O.D. from 176' to 1381'

Total Depth: 1381', with hole bottomed in the Mississippi limestone

Cores: none

DST: none

Samples: 600 feet to 1381' total depth
(see lithology)

Condition of well: Dry hole

Surveys: Gamma - Neutron Log, by Cornish Well Log, Chanute, Ks.

Geologist: Harry Pearce, Consulting professional Geologist,
Sedan, Kansas

Date of Report: May 5, 1972

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Smith #3

Sam A. Murphy #3 Smith

Lithology

Samples start @ 600'

600 - 10 Shale, dark gray
20 " " "
30 " " "
40 " " "
50 Black shale
60 " "
70 " "
80 Limestone, white to tan, gray, medium crystalline, tight, no show
90 As above with black shale
690 -700 Limestone, white to gray, medium crystalline, tight, no show
10 Gray lime, fine crystalline, tight, no show with gray shale
20 " " " " " " " " " "
30 Gray to green gray shale and slightly sandy shale
40 " " " " " " " " "
50 Gray shale with lime cavings from above
60 Gray shale
70 " " " " " " "
80 " " " " " " "
90 White to gray sand, very fine grain, no show, water sand
790 -800 " " " " " " " " " " "
10 Sand, gray, fine grain, soft, mushy, water, no show
20 Gray shale - gray sandy shale
30 " " " " "
40 " " " " "
50 " " " " "
60 " " " " "
70 " " " " "

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Sm, Hk #3

80 Limestone gray to buff to tan, fine to medium crystalline, tight, no show, Top Pawnee Limestone 870

880 -890 Same as above

890 -900 Same as above, occasionally with white opaque chert

900 -10 Gray to slightly gray sandy shale and limestone from above

20 " " " " " "

30 Gray sand, very fine to fine grain, slightly porous to porous, water sand, no show

40 Same as above

50 Same as above

60 Gray shale to gray sandy shale

70 Tan, buff, fine to medium crystalline, tight limestone no show, Top Fort Scott Ls. @ 965

80 Same as above

90 Gray to tan to buff, fine crystalline, tight limestone, N.S.

990 -1000 " " " " " " " " " " " "

10 " " " " " " " " " " " "

20 Limestone, white, gray, tan, to buff, fine crystalline, tight, no show with black shale

30 Black shale with traces limestone, white, gray, tan, fine crystalline, tight, no show

40 Black shale with limestone, dark gray to brown, fine to medium crystalline, tight, no show. 1033 -Base of Fort Scott limestone and Top Cherodee Group

50 Black shale with traces limestone as above

60 " " " " " " "

70 Black shale with light gray to tan to white, medium crystalline, tight limestome, no show; Top Ardmore Ls. 1066

80 Black to gray shale and gray sandy shale

90 Gray shale with traces white, gray, very fine grain hard tight glassy sand, no show; Mud 31 viscosity; 9.2 wgt.

1090-1100 Gray shale with traces sand as above

10 Gray shale and light gray, very fine grain shaley sand, tight, no show

20 Gray shale and sand tan to brown, very fine grain, tight shaley, possible slight oil stain, very poor fluorescence

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Smith #3

30 Gray shale and sand as above, tight with possible oil stain, very poor fluorescence

40 Brown to dark brown, medium crystalline, limestone and gray sandy shale

50 gray, dark gray to brown, very fine grain, shaley, tight sand with spotted oil stain, slight odor and fluorescence very slight reaction in 10% HCL

60 Sand as above with very slight show, very faint fluorescence

70 Gray to dark gray shale

80 " " " " "

90 " " " " " and gray to light gray sandy shale

1190-1200 Gray to light gray sandy shale

1200- 10 Black to dark gray shale; Approximate top of Bartlesville Sand Zone

20 Black shale, traces brown coarse crystalline limestone, abundant pyrite

Circulate @ 1220 for 15 minutes:

Traces limestone as above and sand white, gray, brown, very fine to fine grain, very tight, shaley, possible very slight spotted oil stain, no odor, no fluorescence

1220 -30 White, gray to brown, limy, very fine grain, tight sand and brown noduler lime with gray shale

Circulate @ 1230 for 15 minutes:

Sand as above, no shows with trace lime as above and gray shale

1230- 40 Shale with traces brown medium crystalline limestone and sand, white to brown, very fine grain, tight, limy, N.S.

Circulate @ 1245

Gray shale with traces limestone and sand as above, N.S.

1240- 50 Gray shale

60 Gray shale with brown medium crystalline limestone fragments, no show

70 Gray shale, Medium crystalline

80 " " " "

90 " " " "

1290-1300 Black shale

1300- 10 " "

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20 Light gray siltstone

30 " " "

40 " " "

50 " " "

60 Black shale with brown medium crystalline, tight limestone; Top Mississippi 1368

70 Black shale, same as above

75 Limestone, dark gray to dark brown, medium crystalline, siliceous, very tight, no shows, very slight trace white opaque fresh chert

1380 Limestone, white, coarse crystalline, tight, no porosity, no show, with white, fresh, opaque chert, no porosity, no shows: Few very large quartz, sand grains, sub-round to round, slightly frosted.

Circulated @ 1381 for 30 minutes:

Limestone, white, coarse crystalline, tight, no shows with white, opaque, fresh chert with few large quartz sand grains as above

Total Depth 1381 - Prepare to run Gamma-Neutron Log

Ran log - prepare to plug and abandon well, May 3, 1972