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CONSERVATION DIVISION
WICHITA, KS

GEOLOGICAL REPORT

KCC

MAR 9 1994

Earl M. Murphy

Perrier #1

API#15-111-20393

350'FEL, 4950'FSL

Section 25-T21S-R10E

Lyon County, Kansas

COMMENCED: 8/3/93

COMPLETED: 8/17/93

CONTRACTOR: Tri-Star

SIZE HOLE: 7 7/8"

SURFACE PIPE: 8 5/8" @ 101'

CEMENTED WITH: N/A

LONG STRING: 5 1/2" @ 2534'

CEMENTED WITH: 85 sx, 2% Gel,
1% CaCl₂, 4 lb./sx Gilsontite

OTHER: DST 2524-2534

STATUS: Testing Open Hole

API NO.: 15-111-20,393

OPER. LIC.: 30223

FIELD: Bradfield

ELEVATION: Topo

GL: 1211

KB: ----

RTD: 2534

LOGS RUN:

MUD SYSTEM: Chemical/Gel

GEOLOGICAL CONSULTING

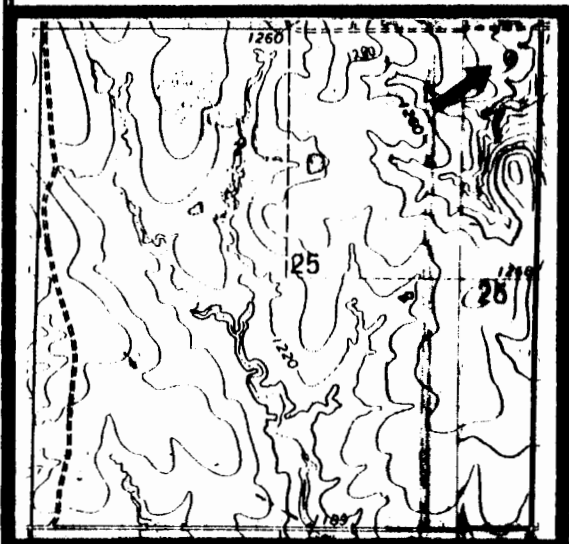
Rex R. Ashlock

Petroleum Geologist

1135 S. Summit

El Dorado, KS 67042

(316) 321-9520



GEOLOGICAL CONSULTING

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El Dorado, KS 67042

Rex R. Ashlock
Petroleum Geologist

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August 22, 1993

Earl Murphy
R.R. #1
Madison, KS 66860

Re: Perrier #1
NE-NE-NE
350' FEL, 4950' FSL
Section 25-T21S-R10E
Lyon County, Kansas

Dear Mr. Murphy:

The following report on the subject well is based on microscopic examination of rotary cuttings from 1150' to a rotary total depth of 2534' and the results obtained from an Open Hole Drill Stem Test. All measurements were taken from ground level which was estimated at 1211'. The following sample tops were picked:

Kansas City	1211	0
Base Kansas City	1489	-279
Marmaton Group	1608	-397
Cherokee Group	1769	-558
Ardmore	1951	-640
Bartlesville Zone	1851	-740
Mississippi	2085	-874
Osage "Chat"	2250	-1039
Kinderhook	2450	-1239
Viola	2533	-1322
RTD	2534	-1323

MAJOR ZONES OF INTEREST

Kansas City. 1370 - 1382. Limestone, very light tan, cream, trace with grayish tint, fine to medium crystalline, poor to fair crystalline porosity, 5-10% of sample showing poor to fair fluorescence, no odor, fair stain, few pieces showing speckled shows of free oil, does not merit further testing.

1434 - 1446. Limestone, light to medium tan, fine to medium crystalline, fair to very good crystalline and oolitic porosity, fair with traces of good fluorescence, fair to good odor, fair to good shows of free oil and "dead" oil. NOTE: Good odor of gas reported from driller.

Bartlesville Sand Zone. 1951 - 1958. Sandstone/Siltstone, light green, white, silt sized to fine grained, with scattered medium loose grains, trace fine grained sized calcareous nodules, trace shaley, trace pyrite, no shows.

Mississippi. (Areas with show)

2104 - 2107. Limestone, light to medium tan, yellow-tan, very fine to medium crystalline, "mealy" texture in part, trace dolomitic, fair to good crystalline porosity where dolomitic, weak odor, weak show of free oil, no fluorescence.

2117 - 2119. Limestone, mottled light to medium grey, dark grey, tan, trace vugular with very weak scattered shows of free oil in vugs.

2119 - 2125. Dolomite, dark cream, grayish cast in part, fine crystalline, good to very good crystalline porosity, weak odor, dull uniform fluorescence, fair with trace scattered shows of free oil, zone appears watery with top 1'-3' carrying the above shows of free oil.

2135 - 2139. Limestone, "mottled" light cream to light tans, fine to coarse crystalline, poor to very poor crystalline porosity, trace dolomitic, very weak scattered shows of tarry/heavy free oil between leached out crystal faces and vugs, faint odor.

Viola. 2533 - 2534. Chert, white, off-white, trace tan, tripolitic for the most part, fair with trace good leached and fractured porosity, weak odor, dull fluorescence, few pieces showing fair fluorescence, weak to fair show of free oil in 10-15% of sample, fair to good stain in 20-25% of sample. (After sample was dried.) NOTE: From 2533' there was about 4"-6" of Misener Sandstone laying on top of the Viola which was light brown to light tan, fine to coarse grained, sub-rounded to sub-angular, moderately to well sorted, well consolidated, friable, fair intergranular porosity, fair fluorescence, weak shows of free oil.

Drill Stem Test #1. 2524 - 2534. Open 45 minutes, closed 45 minutes, open 60 minutes, closed 60 minutes. Recovered: 20' very slightly water cut drilling mud with 1" to 3" of free oil on top.

Initial Hydrostatic Pressure	1265	PSI
Initial Flow Pressure	10-10	PSI
Initial Close In Pressure	855	PSI
Final Flow Pressure	30-30	PSI
Final Close In Pressure	865	PSI
Final Hydrostatic Pressure	1255	PSI

Chlorides - 5,000 PPM-DST Fluid, 4,000 PPM-Drilling Pits, 42,000 PPM-Offset lease well.

SUMMARY

The decision was made to run 5 1/2" production casing to further test the Viola and possible Simpson Sand through open hole completion methods. It is recommended prior to plugging and abandoning the well that the Mississippi be tested from 2117' to

2125' and the Kansas City tested from 1434' to 1446'. It may be necessary to adjust these footages to the Cased Hole Gamma-Ray Neutron Log.

Sincerely,

A handwritten signature in cursive script, reading "R. R. Ashlock". The signature is written in dark ink and is positioned above the typed name.

Rex R. Ashlock
Petroleum Geologist

DRILLING TIME in Minutes Per Foot

Rate of Penetration Decreases

5 10 15 20 25

DEPTH

1100

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL
SHOWS

REMARKS

LS, "MOTT", CRMS, LT. TAN'S
TA N/V-LT. GY TINT, VEN-
MED. XLN, P-TR F-POR

LS, LT-MED. GY, V. OOLITIC

SH, GP, SLTP

SH, GP, GY-GRN

1200

LS, "MOTT" GY-TAN, TAN, GP
ARG IN PART, FOSS, P.
POR

LS, 1/4, L/ LT. GY's, FU-MED
XLN, P-VP. POR

LS, TAN, V-LT. BRN, ME-V. CRS
XLN, P. POR

LS, V-LT-LT. GY, VEN-FU.
XLN, TA SH

LS, V-LT "GY" CRMS,
ME-NO-VEN. XLN, P-VP.
XLN POR

LS, ORF WN, WN, VEN-MED
XLN, G-VG. XLN POR, NS
2

Ks. City
1211 ("0")

1300

LS, "MATT" CRM, LT TAN, & DULL
OFF WH, FN-MED XLN

LS, LS A/A, W/ CRS XLN LS, TR
FBS

SH, LT GRN-GY, GY, W/ WH,
LT GY, S-RDD-S-ANG-MOD-
W-SRT, SS, P-F, GN POR, NS

SILTST, PALE GRN

LS, GYISH-CRM, FN-XLN

SS/SILTST, PALE-DULL GRN, TR
SLIP CN

LS, V-LT TAN, CRM, TR W/GYISH
TINT, FN-MED XLN, P-F POR
S-107, SHOWING P-F FLNR
NO ODBR, F-STAN, FEN SPED
FBS

LS, DR TAN, GY-TAN, TR, DR-
MED GY SH

LS, LT-MED TAN, V-OLYTIC
TR FBS

1400

LS, A/A, TR OLYTIC

LS, CRM, FN-CRS XLN, F-G POR
NS

LS, OFF WH, TR V-LT GY, "DENSE"

SH, BLN

LS, LT-MED TAN, FN-MED
XLN, F-VG XLN & OLYTIC-
ASTIC POR, F-FR G FLNR
F-G "DEAD" OSL ODBR, F-G
SPR & "DEAD" OSL, G ODBR
OF GAS REPORTED, TR SLTY
ON G-DR

LS, DR TAN, LT BRN, P-UP POR

LS, LT TAN, DR CRM, FN-
MED XLN, P POR

SH, BLN

LS, LT-MED GY-TAN, MICRO-
FN XLN, VP POR "DENSE"

LS, V-LT GY, CRM, FN-MED XLN
P-F POR, TR DR GY BRN, LS
@ BASE

SH, GY GRN, GRN-GY, TR SLTY
TR VDR-BLN SH

SH, GRN-GY, SLTY

1500

Base Ks. City
1489(-278)

Base Ms. City
1489(-278)

1500

SH, GR GRN, GRN-GY, TR SLTY
TR V-DK-BLK SH

SH, GRN-GY, SLTY

SH, MED-DK GY

SH, GY, V. SLTY-SNDY

SS, V. LT. GY, WH, VFN-FN GN
S. ANG-ANG, MOD W. SORT
W. CONS. P-F. POR, TR SLTY.
SNG. NS

SH, GY, SLTY-SNDY

SH, GY, TR SLTY

SH, GY

1600

SH, DK-V. DK GY, TR BLK

LS "DULL" OFF WH, V. LT-MED
TAN, FN-XLN, P. POR

SH, GRN-GY, TR SLTY

SH, A, W/GY-GRN, TR SLTST

LS "DULL" OFF WH, MICRO-FN-XLN
TR LS POR, FN-XLN

SH, BLK

SH, GY, LT. GY-GRN, TR SLTY

Lignite "COAL"

SH, MED GY, SLTY-SNDY

SH, GY, SLTY, TR SS LENS, NS

SH, DK GY

1700

LS, V. LT. GY-GRN, VFN-FN
XLN

Marmaton
1608(-397)

1700

SH, DR GY

LS, V-LT. GY-CRM, DEN-FU
XLA

SH, MED-DR GY

LS, TAN'S, FU-MED-XLA
DENSE

SH, BLK

SH, GRN-GY, GY, DR GY, TR
LS, TR SLTY

LS, MED-TO-LT. GY-TAN'S, FU-XLA
UP-POR

SH, BLK

LS, "MOTT" DULL TAN-GY
P-UP-POR

SH, BLK, FR "LIG."

SH, GRN, GRN-GY

SH, 1/4, TR SLTY

Cherokee
1769(-558)

1800

SH, 1/4, TR SLTY-SUDY, MICA SH
MED GY

SH, MED-DR GY TR SLTY

SH, DR-V-DR GY

LS, "MOTT" TAN'S, LT. GY-TAN'S
ARG & BRNEN

SH, BLK, TR "COAL" "GROWER"

SH, GY, GRN GY, SLTY

SH, LT. GY, TR SLTY

POR
SPLS

SH, BLK

SH, LT. GY'S, GRN'S, GRN-GY'S

Ardmore
1851(-640)

1900

1900

FLS
SH, BLK
SH, LT. GYs, GRN's, GRN-GYs

SS, WH, SPECKLED W/ DK GY, SH
FN. GN, S. ANG-ANG, W. SORT,
W. CONS, FRZ, P-F. GN POR
NS
SH, V-DK GP-BLK

SH, V-DK GY, BLK

SS/SLT, LT. GRN, WH, VEN-FN. GN
W/ FN "CALC" NODULES, TR
MED GN (LOOSE) TR PY, TR SHL
SH, MED-TO- V-DK GY, BLK
TR

SH, V-DK GY, BLK

SH, GYs - DK GYs, GRN-GY, 4
GY-GRN, TR SLTY, FR SS
GN's, W/ "MOTT" TAN-V-DK
TAN, LS FRAGS, ARG IN
PART, TR TAN CALC NODULES
"CALC"

2000

SH, DK-V-DK GY, BLK, TR
DK GY-GRN, TR PY, TR
SLTY

SH, A/A, TR, "Limy" Frag

SH, A/A, TR V-CARB SH & COAL
FRAG

COL, VARIOUS COLORED SH, TR
LIMY FRAG, TR SAND GYs

CHT, OPAL, V-LT. GY, SEAME TRANS
SHARP, TR, BLK

DOL, DK GRN, V-LT. GY, SH GRN-TAN,
VEN-FN. XLN, F-G. POR, DULL
FLUR, WH-ODOR, N-SEO

LS, LT. - MED TAN, VEL-TAN, VED-
MED GRN, WH, TR, V-DK GY
IN PART, P-V. TAN POR DULL
SCAT FLUR FASIT V-DK, N-
S, A/A, DOL'ic IN PART, WH-ODOR
WH. SPO, FO. - NO FLUR, F-G. POR
WH, TR, BLK

2100

Bart. Zone
1951(-740)

Mississippi
2085(-874)

2104(-893)

Mississippi
2085(-874)

2100

CHT, OPAL V. LT. CY, SEMI TRANSL
DOL, BR GRN V. LT. CY, SEMI TRANSL
VFN - FN. XLN, F-G. POR, DULL
FLUOR, WK-ODOR, N-SEC
LS, LT-MED TAN, VEL-TAN, VFN-
IN PART, P-VP. POR, DULL
SCAT PLUM FACET DOL, NS
S, A/A, DOL'ic IN PART, WK-ODOR
WK-SPD, F-G. FLUOR, F-G. POR
LS, 'MOTT', LT-MED CY, DH CY-TAN
P-VP. POR, V. PELT. NS
LS, A/A TR VRE W/ VFN JES
DOL, BR GRN, V. CY, SEMI TRANSL
PART, FN. XLN, G-V. XLN, POR, WK
ODOR, DULL BLT GRN FLUOR, F-G.
G-SEC. ZONE APP W/APP, TOP 1-3
CANAL, DEL
LS, 'MOTT', LT-MED CY, DH CY-TAN, FN-
CRS. XLN, P-VP. POR, TR DOL'ic
TR PELT. NS
S, A/A, V. WK-SCAT SE "TARRY"
"NOY" OIL, BETWEEN LEECHES
VFN XLN, F-G. FLUOR, F-G. POR
ODOR, 'MOTT' VEL-TAN, TAN
LT. BRN, FN-V. CRS XLN
P-VP. POR, TR DOL'ic
TRANSL, NS
DOL, LT-TAN, TAN, FN. XLN, F-G.
XLN, POR, DULL FLUOR, N-ODOR
SCAT, PLUM, NS
DOL'ic/LS, 'MOTT', LT-MED CY, DH CY-TAN
TAN, FN-V. CRS XLN, P. XLN
POR, TR VUG

2104 (-893)

2117 (-906)
2119 (-908)

2135 (-924)

2200

LS, FN-MED XLN, P-VP. POR
TR GLAUC., OFF WH, CRM
DOL, LT-TAN, V. FN-FN. XLN,
P-F. POR, NS, TR. PALE
GRN-CY & BLK SN

DOL, A/A, TR CHT
DOL, LT-TO-DK TAN, LT. BRN
VFN-MED XLN, TR CHT

DOL'ic/LS, 'MOTT', LT-TAN, FN-
DH TAN, BRN, TR
W/VP. POR, FN-EXS. XLN,
VP. POR, TR CHT & PALE
GRN SN

CHT, OFF WH "BONE" W/ TR
V. LT. CY, TR SEMI TRANSL
G-FRAC. POR, TR DOL, NS
CHT, V. LT. CY, TR LT-TAN,
CRM, P-F. FRAC POR, TR
DOL

"Osage" ø
2250(-1039)

2300

CHT, OFF WH W/ CY TINT, TR
LT. CY, W/ DK TAN, FN.
XLN DOL, F-G. FRAC &
XLN, POR

XLN DOL, P-G-TRAC &
XLN, POR

2300

CHT, "MELKY" WH, W/ CHT A/A,
TR LT. TAN-TAN DOL, W/F.
XLN POR

DOL, LT. GYISH TAN, LT. TAN, W/
CHT, SEME TRANSL, SCAT
DULL FLOR, NS

CHT, LT. GY'S, LT. GY-TAN'S, TR
SEMI-TO-TRANSL, TR
TAN DOL

POOR SPL'S, ABOUT PALE GRN,
GRN-GY & MED GY SN
TR LS

LS, DK GRN, GYISH TAN,
MZERO - FU-XLN, P-UP.
XLN POR, TR CHT

2400

LS A/A, DK GR TAN COLOR

POOR SPL'S

LS, LT-MED TAN'S, VFN-MED
XLN, P-UP. POR

LS, "MOTT" DULL GYISH OFF WH,
LT-MED TAN'S, FU-MED
XLN, TR GRN-GY, GR-GY &
BLX SN

SH, MED-DK GY, DK GRN-GY
TR BLX, TR PY

SH, A/A, TR PALE GRN

2500

Kinderhook
2450 (-1239)

