

Geological Report

Dunne Equities, Inc.

Smith #8660'

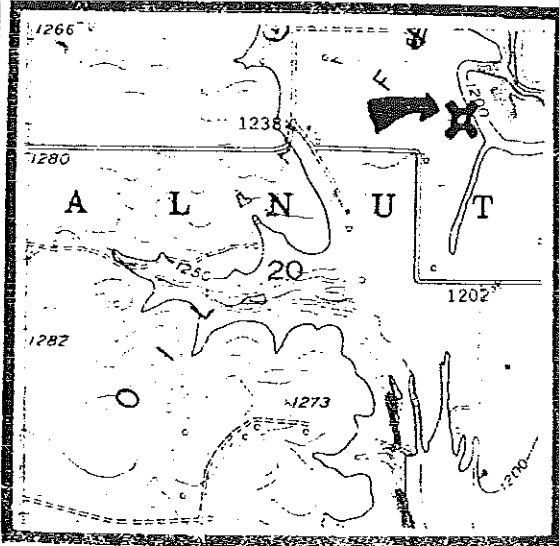
4620' - 4290' N, 990' W, FSE Section Corner
Section 20-T28S-R4E
Butler County, Kansas

COMMENCED: 6/4/85 STATUS: SWDW
COMPLETED: 6/12/85 API NO.: 15-015-22,719
CONTRACTOR: W & E Rig #3 OPER. LIC.: 6419 6049
SIZE HOLE: 7 7/8" FIELD: Augusta South
SURFACE PIPE: 8 5/8 @ 212' ELEVATION: Topo Map
CEMENTED WITH: 150 sx, 3% CC GL: 1205
LONG STRING: 5 1/2" @ 2490' KB: 1210
CEMENTED WITH: 75 sx LOGS RUN: None
MUD SYSTEM: Chemical/Gel
R.T.D.: 3057

OTHER: SW-NE-NE C NE NE

GEOLOGICAL CONSULTING

Rex R. Ashlock
Petroleum Geologist
1135 S. Summit
El Dorado, KS 67042
(316) 321-9520



DO NOT REMOVE FROM FILE

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Petroleum Geologist

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June 12, 1985

Dunne Equities, Inc.
8100 E. 22 St. N. #1100
Wichita, KS 67226-2311

Re: Smith #8
4290' N, 990' W, FSE Section Corner
Section 20-T28S-R4E
Butler County, Kansas

Dear Sirs:

The following report on the subject well is based on microscopic examination of rotary cuttings from 1700' to a rotary total depth of 3057'. All measurements were taken from the Kelly Bushing which was located 5' above ground level and estimated to be 1210'. The following tops were picked:

Lansing	1723	-513
Bonner Springs	1819	-609
Kansas City	1976	-766
"Base Kansas City"	2185	-975
Marmaton	2211	-1001
Cherokee	2353	-1143
"Misener"	2423	-1213
Arbuckle	2426	-1216
"Granite Wash"	3052	-1842
RTD	3057	-1847

MAJOR ZONES OF INTEREST

Lansing. 1723-1819. Limestone, intermittent shale, very poor to good crystalline and
unconformity no chert

MAJOR ZONES OF INTEREST

Lansing. 1723-1819. Limestone, intermittent shale, very poor to good crystalline and vugular porosity, no shows.

Kansas City. 2004-2012. Limestone, very light tan, very fine crystalline, good crystalline porosity, trace very fine vugular porosity, weak with trace fair show of free oil, weak to fair odor, fair patchy to uniform fluorescence, 30% of limestone in sample.

"Misener". 2423-2426. Sandstone, tan, medium grained, sub-angular, moderately sorted, well consolidated, friable to semi-firm, poor to fair intergranular porosity, weak to fair show of free oil, fair fluorescence, weak odor.

Arbuckle (Shows). 2426-2439. Dolomite, tan, fine to medium crystalline, poor crystalline porosity, very weak show of free oil, dull patchy fluorescence, very weak odor.

2439-2446. Dolomite, tan, dark tan, fine to medium crystalline, poor to fair crystalline porosity, fair vugular porosity, very weak show of free oil, dull patchy to uniform fluorescence.

2446-2450. Dolomite, grey-tan, tan, very fine to fine crystalline, very poor porosity, no show, trace chert, milky, semi-translucent.

2450-2459. Dolomite, as above, trace spotty show of free oil.

2459-2467. Dolomite, dark tan, very light brown, fine to medium crystalline, poor crystalline porosity, trace with fair vugular porosity, very weak spotty show of free oil, very weak odor.

✓ 2529-2533. Dolomite, very light grey-cream, fine crystalline, fair to good crystalline and vugular porosity, with abundant very fine to fine size oolities, very weak spotty show of free oil, very weak questionable odor, fair fluorescence, 10% of dolomite in sample.

✓ 2533-2539. Dolomite, tan, light tan, fine to medium crystalline, fair to good crystalline and vugular porosity, very weak show of free oil, very weak odor, fair patchy fluorescence, 20% dolomite in sample.

Arbuckle (Major Zones of Porosity). 2490-2499
2520-2539
2559-2566
2595-2604
2632-2665
2672-2680
2711-2724
2733-2794
2833-2946
2957-2977
2987-2998
3001-3009
3040-3044

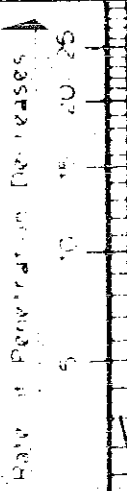
SUMMARY

The hydrocarbon shows found in the Kansas City and Arbuckle do not merit further testing. This well was drilled to the "Granite Wash" to open up all the porosity zones found in the Arbuckle for the purpose of disposing saltwater.

Sincerely yours,



Rex R. Ashlock
Petroleum Geologist

Lithology	DEPTH	DESCRIPTIONS	OIL SHOWS	REMARKS
Rate of Penetration Decreases 	1700	SH, GY, GP, GRN, V-SLTY, TR FOSS		

At. OG

VIS 32
WT 9.2
LCM 1/2 1/4

JET
HOPPER OPEN

HOPPER CLOSED

VIS 34
WT 9.3
LCM 1 1/4

JET

VIS 33
WT 9.2
LCM 1/2

HOPPER OPEN

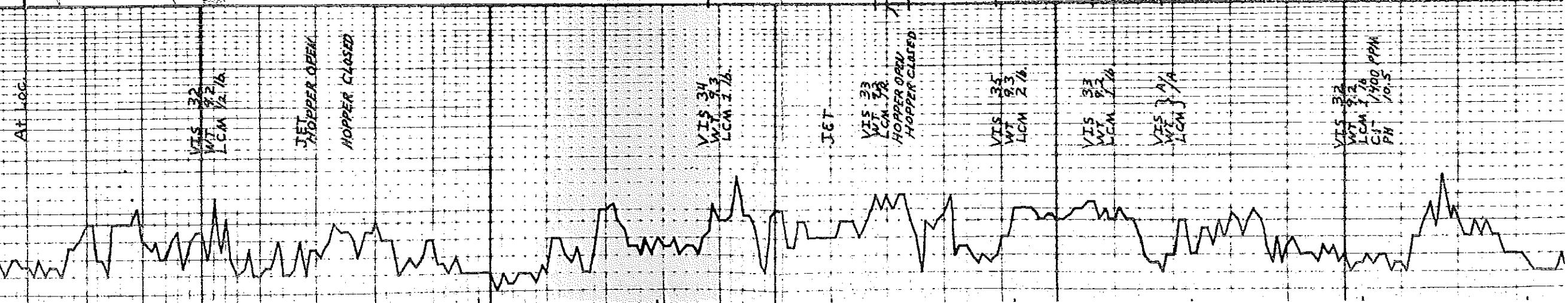
HOPPER CLOSED

VIS 35
WT 9.3
LCM 2 1/4

VIS 33
WT 9.2
LCM 1 1/4

VIS 34
WT 9.3
LCM 1 1/4

VIS 32
WT 9.2
LCM 1 1/4
CJT 1/400 PPM
PH 10.5



2000

2100

2200

SH, A/A

LS, GYISH LT. TAN, FU-XLN, VP. POR

SH, PALE GRN

LS, V-LT-TAN, FU-XLN, P-F. XLN, POR
LESS 1% SPL, PCH FLOUR, V. WHK(?)
ODOR, N. STO

LS, TAN, V. PELD & GOLIATIC, N.S

LS, V-LT-TAN, V-FU-FU-XLN, G-XLN POR
TR V-FU-VUG POR, WK, W/ TR F.
SFO, WA-F. ODOR, F. PCH TO
UNIFORM FLOUR, 30% SPL

LS, A/A, N.S

LS, GY-TAN, FU-M-XLN, P. XLN POR

LS, L-TAN, F. POR, N.S

LS, CRM, M-XLV, G-XLN POR, N.S

LS, MOTT. LT. TAN, TAN, M-XLN, P. POR
TR. CHERT

LS, CRM, V-FU-FU-XLN, F-G. POR

LS, L-TAN, TAN, TR. CHERT

SH, BLK, V-CARB

LS, CRM, V-FU-XLV, P-F. POR, TR FLOUR
N-ODOR, N-SFO

SH

LS, MOTT. TAN, EN-M-XLV, VP. POR

SH, BLK, CARB

LS, V-LT-TAN, CRM, N.S

SH, GY, ABOUT LT. TAN LS

LS, V-LT-TAN, FU-M-XLV, P. POR, TR. CHERT

-G. KC

SH, DK GY, BLK

LS, MOTT. TAN, V-D-TAN, BRU, FU-CRS
XLN, ARG, INTERMITTEN SH
GRKS

SH, BLK, CARB, PY

SH, A/A, V-CARB

LS, V-LT-TAN, CRM, FU-XLN, P. XLN POR

SH, DULL GRN, GY-GRN

Kansas City
1976 (-766)

Base K. C.
2185 (-975)

Marmaton
2211 (-1001)

VIS 34
WT 9.3
LCM
HOPPER OPEN

HOPPER CLOSED

VIS 35
WT 9.3
LCM 4/16

VIS 35
WT 9.3
LCM 4/16

2000 CALL POINT

SEP
VIS 35
WT 9.3
LCM 4/16
HOPPER OPEN

HOPPER CLOSED

VIS 36
WT 9.3
LCM 4/16

5' SPL'S
VIS 33
WT 9.3
LCM 4/16

VIS 33
WT 9.3
LCM 4/16

10' SPL'S

VIS 32
WT 9.3
LCM 4/16
HOPPER OPEN

HOPPER CLOSED

2300

2400

2500

LS, TAN, DK TAN, TR OFF WH, VFN-M, XLN
P-XLN, POR, FOSS FRAG, ZU PART

SH, BLK

LS, OFF WH, VFN: XLN, P-XLN, POR
SH, GY, GRN

SH, GY, SLTY

LS, LT GYISH TAN, LT-TAN, FD-M, XLN
P-F, POR, TR FOSS ZU PART, w/
SH, BRKS

SH, GY, GRN, DR GY

SH, BLK, CARB

LS, TAN, TR TAN w/ GY, FN-M, XLN, T
SH

SH, BLK, V-CARB

SH, A/A

SH, GY, GRN, GY

SH, PALE GRN, V-SLTY-ZO, SARY

SH, DK GY, V-DK GY, BLK, PUMGENT, ODOR

LS, LT TAN, EN-CBS, XLN, V-P, POR, W/
SH, OLIVE GRN, BLK, TR DK MAROON

SH, BLK, V-DR GY, TR A/A

LT TAN, M-GN, S-ANG, M-SORT, W-COBS
SS, FRT, SEMI-FRM, F-GU, POR, WK-F-SFO
DOL, TAN, FN-M, XLN, P-XLN, POR,
VWK, SFO, DULL "PCH" FLOUR, VWK
ODOR

DOL, TAN, DK TAN, FN-M, XLN, P-F, XLN
POR, P-F, VUG, POR, VWK-WK, SFO
DULL "PCH"-TO-UNIFORM FLOUR

DOL, GY-TAN, TAN, VFN-FN, XLN, VP, POR
ALS TR CHERT, A-A, TR "SPTY" SFO

DOL, A/A, TR "SPTY" SFO

DOL, DK TAN, V-LT BRN, FN-M, XLN, P, XLN
POR, TR W-F, VUG, POR, VWK, SPTY, SFO
VWK, ODOR

DOL, V-LT GY, LT TAN, VFN-FN, XLN, VP,
POR "DENSE" NS

DOL, LT TAN, TAN, VFN-FN, XLN, P-F
XLN, POR, TR VUG, POR, N-SFO, N
ODOR, TR FLOUR

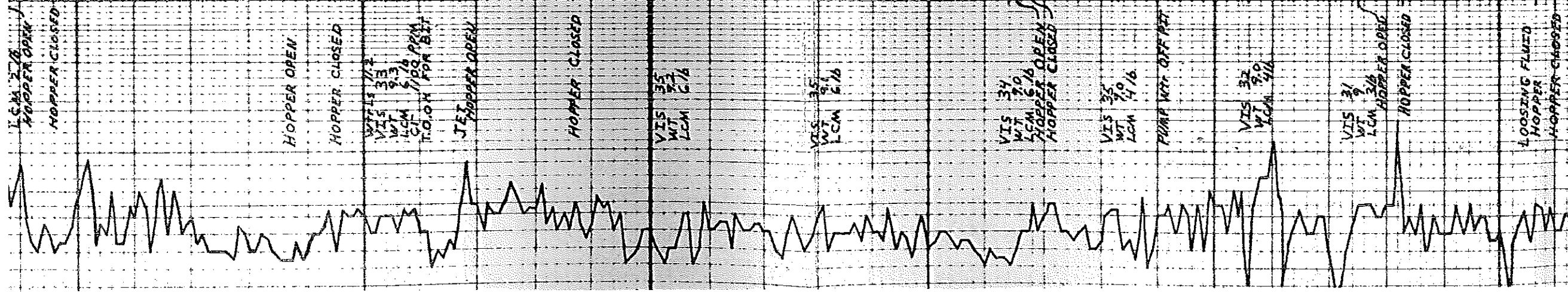
DOL, V-LT GY, "DENSE"

DOL, V-LT GYISH TAN, FN, XLN, F-G, XLN
POR, POR, TR OOLITIC, CHERT

DOL, TAN, GY-TAN, VP-F, XLN, POR,
TR MELKY, SEMI TRANSL, CHERT

Cherokee
2353 (-1143)

"MISENER"
2423 (-1213)
Arbuckle
2426 (-1216)



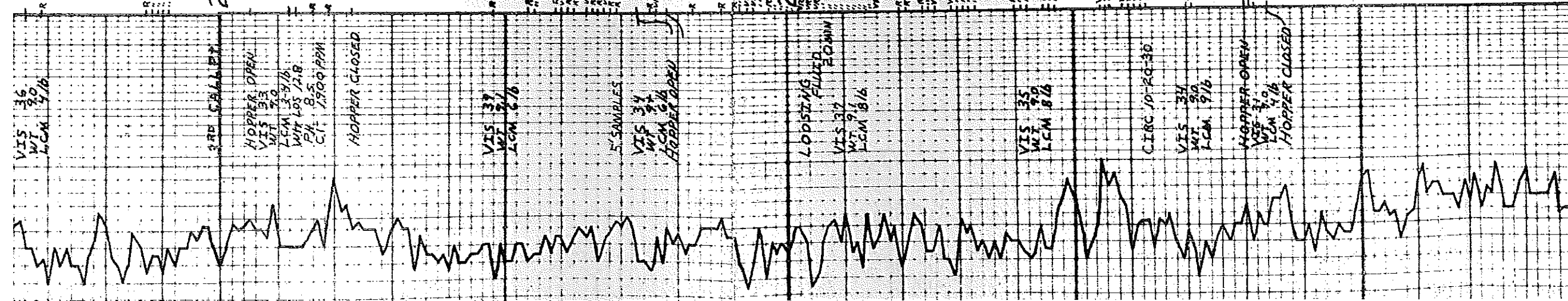
2500

2600

2700

2529-39 (~1319)

100/Δ	DOL, V-LT GYISH TAN, FN-XLN, F-G-XLN POR, TR OBLIQUIC CHERT
100/Δ	DOL, TAN, GY-TAN, VP-F-XLN POR, TR MELKY SEMI TRANSL CHERT
100/Δ	DOL, V-LT GY-CRM, FN-XLN, F-G-XLN, VUG POR, TR V-LT GY CHERT
100/Δ	DOL, A, w/ ABUNT, VFA-FN, DOLITGS IN PART, VWK-SPTY SFO, VWK (?) ODR, F-FLOUR, 10% SPL
100/Δ	DOL, TAN, LT-TAN, FN-M-XLN, F-G-XLN, VUG POR, VWK-SFO, VWK ODR, F-PCH FLOUR, 20% SPL
100/Δ	DOL, LT-GY-TAN, LT-TAN, F-M-XLN, VP-P-XLN POR
100/Δ	DOL, V-LT-TAN, M-XLN, G-POR
100/Δ	DOL, TAN, FN-M-XLN, VP-P-POR
100/Δ	DOL, GY-TAN, FN-M-XLN, P-F-POR
100/Δ	DOL, LT-TAN, M-XLN, G-XLN POR
100/Δ	DOL, LT-TAN, TAN, P-F-POR
100/Δ	DOL, DK-TAN, M-XLN, P-F-XLN, VUG POR
100/Δ	DOL, V-DK-TAN, F-XLU POR
100/Δ	DOL, CRM, OFF WH, M-CRS-XLN, G-XLN, VUG POR, TR CHERT
100/Δ	DOL, LT-GYISH TAN, VEN-M-XLN, P-POR
100/Δ	DOL, A w/TAN, F-XLN, VUG POR
100/Δ	DOL, DK-TAN, P-G-XLN, VUG POR
100/Δ	DOL, LT-TAN, TAN, TR w/GY CAST, P-F-XLN, VUG POR
100/Δ	DOL, GY, VFN-XLN, VP-XLN POR
100/Δ	DOL, V-LT GY-TO-OK GY, VFN-VCRS-XLN, VG-P-XLN POR, VG-G-VUG POR
100/Δ	DOL, A w/TR LT-TAN, P-POR
100/Δ	DOL, LT-GY, V-VUGY
100/Δ	DOL, A, w/ LT-TAN, M-CRS-XLN

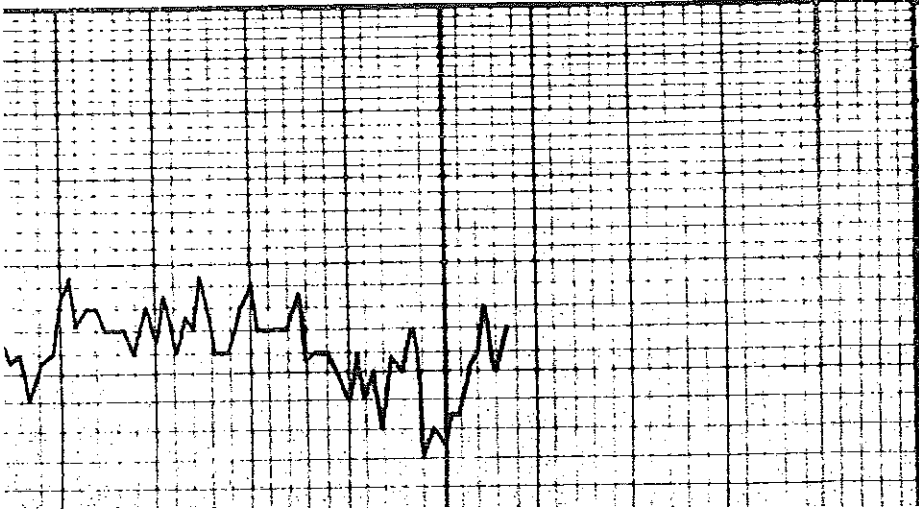


DOL, V-LT TAN, CRM, SOME w/ V-LT GY TINT, FW-CRS XLN, G-XLN, POR F-VUG POR	DOL, V-LT GY, M-CRS XLN, P-POR	DOL, V-LT GYISH CRM, V-LT TAN, M-CRS XLN, V-VUGY, TR LG RPD SHD GNS IN PART	DOL, V-LT GY, M-XLN	DOL, DFF WH, FW-XLN, P-POR	DOL, LT GY, VFW-M-XLN, F-XLN, FRAC VUG, POR	DOL, TA	DOL, TA, w/ TR GYISH CRM, FW-CRS XLN, F-G XLN POR, V-VUG, TR CHERT & PY	DOL, GY, DKG, VEN-FW-XLN, V-DENSE TR SHD, TR AGUA SH, TR GLAUC	DOL, LT GY, GY, VEN-M-XLN, V-DENSE, WUG TR, DFF WH, CHERT, w/ VV LT PINKISH CAST IN PART (TRIP)	DOL, LT GY, VFW-CRS XLN, F-G XLN VUG POR, TR WH, SEMI TRANSL CHERT	DOL, VV, LT GY, GY, CRM "MOTT" FW-V-CRS XLN, V-POR, TR, CHERT	DOL, GY, DKG, FW-CRS XLN, VP XLN POR DOL, V-LT TAN, M-CRS XLN, F-XLN, VUG POR TR, LT GYISH CRM (V-VUGY) TR LG DOG TOOTH CALCITE XLN, TR SH, TA	DOL, TAN, FW-M-XLN, F-G XLN VUG POR	DOL, V-LT GY, TR TA, FW-CRS XLN P-POR	DOL, CRM-GY, F-POR	DOL, DK TAN, M-CRS XLN, P-F-POR (VUGG)	DOL, DK TAN, TAN, V-SNDY, FW-CRS S-ANG-ANG GNS	DOL, LT TAN, FW-M-XLN, VP XLN POR, F-VUG POR	DOL, V-LT CRM, M-XLN, P-POR, TR w/ V-LT GRN TINT, SILTY
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2800

2900

3000



5 10 15 20 25
 DRILLING TIME - In Minutes Per Foot
 Rate of Penetration Decreases

LITHOLOGY		DEPTH	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
/ / / / /	DOL, DK TAN, TAN, V. SNDY, FN-CRS S-ANG-ANG GN'S				"Granite Wash" 3052 (-1842) RTD 3057 (-1847)
/ / / / /	DOL, LT TAN, FN-M-XLN, VP-XLN POR, F-VMB POR				
/ / / / /	DOL, V-LT GRM, M-XLN, P-POR, TR W/ V-LT GRN Y-INT, SLTY				
/ / / / /					
/ / / / /					
/ / / / /					
/ / / / /	EGL LTGY TAN DOL, SMOY IN PART, TR SLTY SH, TR LOOSE FRAC, CL, XLN				
X X X X	GRANITE, BRT REDISH ORANGE, BLK, CL, w/ BIOTITE, FELDSPAR (Orthoclase), TR, QUARTZ				

OPERATOR Dunne Equities, Inc. LOCATION 3166 N, 2130w, From SE Sect Corner
 LEASE Smith No 8 IP SWDW SEC 20 TWP 28 S RNG 4 E
 ELEVATION 1205.6 1210 KBRTD 3057 COUNTY Butler STATE Kansas
 Tape Map