

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mulle Drilling Company, Inc.
 LEASE Squire "A" #1-18
 FIELD Wilcat
 LOCATION 1116' ENCL 1235' FEL
 SEC 18 TMSP 165 RCE 22W
 COUNTY Neosho STATE Kansas
 CONTRACTOR W.W. Drilling Rig #10
 SPUD 6/28/10 COMP 7/5/10
 RTD 4520' LTD 4530'
 MUD UP 3700' TYPE MUD Chemical-Mud-to

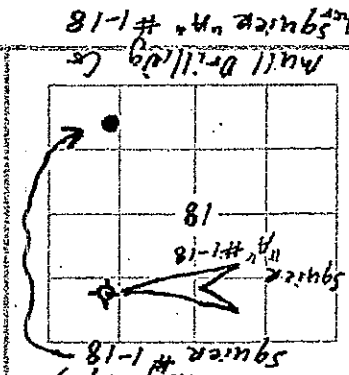
ELEVATIONS
 KB 2455'
 DF 2453'
 GL 2450'
 Measurements Are All From KB

CASING SURFACE 8 5/8" @ 219' w/ 150555
 PRODUCTION ELECTRICAL SURVEYS
Squire well services, PSI
Chemical-Mud-to cat/col, oil, fuzzy, sonic

SAMPLES SAVED FROM 3600' TO RTD
 DRILLING TIME KEPT FROM 1700'-1900', 3600' TO RTD
 SAMPLES EXAMINED FROM 3600' TO RTD
 GEOLOGICAL SUPERVISION FROM 3760' TO RTD
 GEOLOGIST ON WELL Phil Askey, P.G.

FORMATION TOPS	LOG	SAMPLES
1796	+659	1795
1795	+659	1795
3835	-1380	3827
3873	-1418	3866
4148	-1693	4146
4195	-1740	4186
4244	-1789	4235
4338	-1883	4328
4356	-1901	4347
4410	-1955	4400
4433	-1978	4424
4457	-2002	4448
4530	-2076	4520

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REMARKS

The Mull Drilling Co. Squire "A" #1-18 ran structurally low to the Mull Drilling, Squire #1-18, except for the northern margin. The main target pay Brandon, Denver Sand did not develop with low permeability and low sample show. The Squire Warsaw was very high structurally to the reference well but did not show priority as oil show in the samples. After review of all samples, PIT results, and E-log evaluation, it was decided to plug and abandon this well.

Phil Askey, P.G.

Well API # 15135-25081

LEGEND

Amphibole	
Salt	
Sandstone	
Shale	
Carb sh	
Limestone	
Oil/Lime	
Chert	
Dolomite	

SCALE " = 100'

DEPTH	DRILLING TIME IN MINUTES PER FOOT	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
0				
5'				
10'				
15'				
20'				
25'				
...				
1750'				

Anhydrite 1795 (+1660)

E-log 1796 (+659)

B/Anhyd 1834 (+621)

E-log 1836 (+619)

1800

50

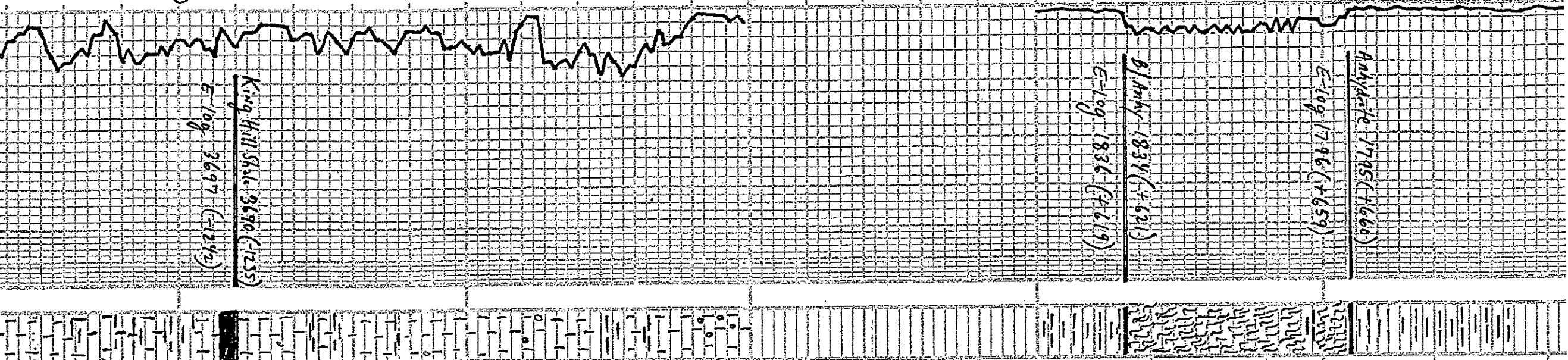
3600

50

3700

King Hill S&S 3690 (+255)

E-log 3697 (+242)



Mud-co data @ 3471'
WT 8.6 US 57 WL 9.6
PH 11.0 CL 2,911 ppm CLM 2#

Samples: 10' wet & dry
3600' - 27D good sample

Rig data:
WOB 38 K PP 930-1000 #
SPN 60 RPM 75-85

Bit data:
Smith 77½ F 271Y
219'-R7D 106 3/4 hrs

Dev Surveys

Pipe Stage - none (howiey)

DST's: 2 by TMM
Diamond Testing Inc

LS, thin to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS
fine sh., calc. sh., med. sh., calc. sh., NS
fine sh., calc. sh., med. sh., calc. sh., NS

LS, fine to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

LS, thin to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

LS, med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

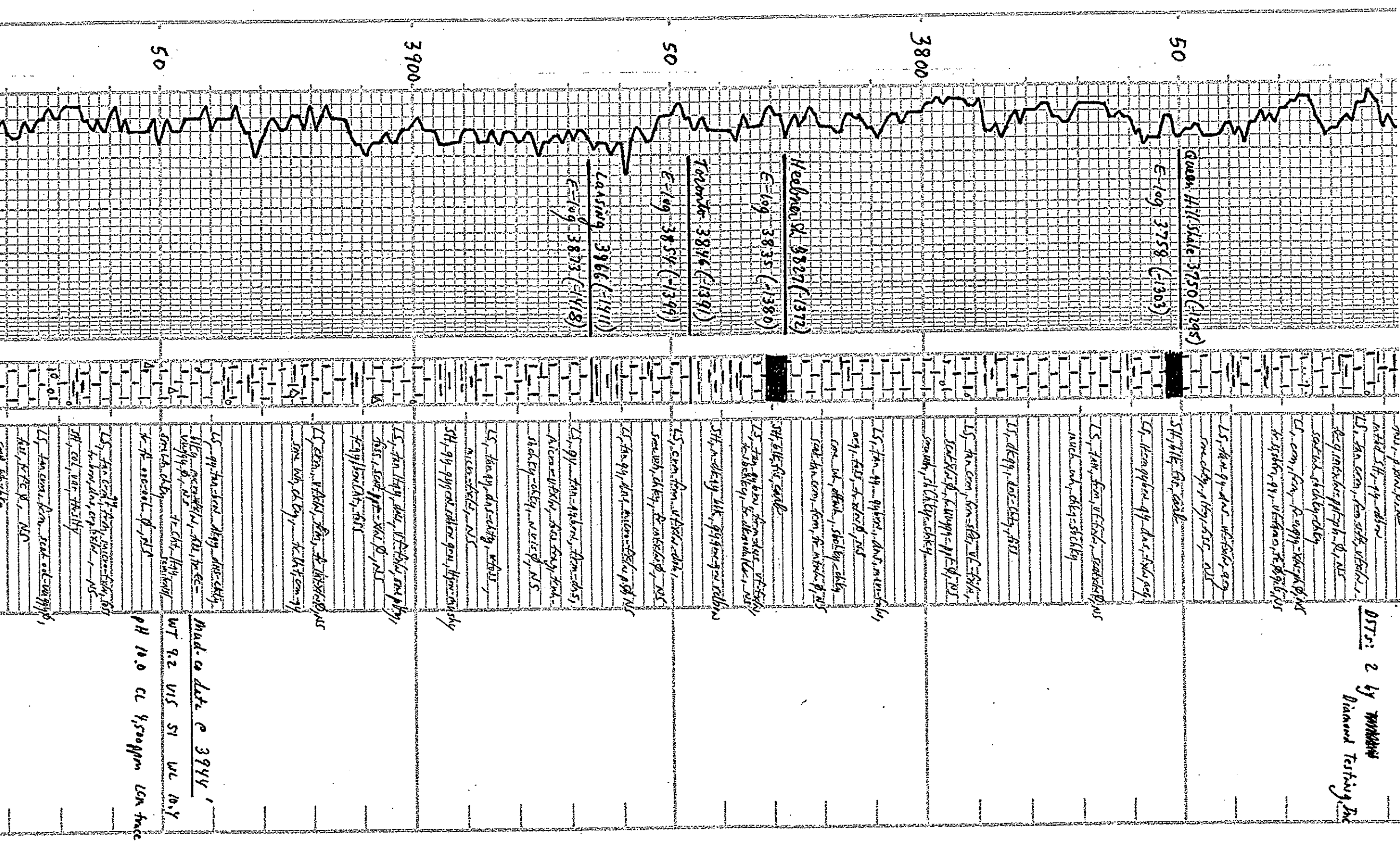
LS, thin to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

LS, thin to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

LS, thin to med. sh., calc. sh.,
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LS, thin to med. sh., calc. sh.,
v. calc. sh., med. sh., calc. sh., NS

DTS: 2 by **THORNTON**
Diamond Testing Inc



50

3800

50

3900

50

Queen Hill 3750 (1985)
E-log 3758 (1983)

Heebner St. 3827 (1972)
E-log 3835 (-1380)

Towhns 3896 (-1391)
E-log 3854 (-1399)

Lansing 3966 (1971)
E-log 3873 (1978)

SH, silty, silty shale
LS, tan, med. WE-SW, sandstone, NS
clay matrix, silty ph. sh. NS
silty shale, clayey

LS, tan, silty shale, clayey
SH, silty shale, clayey
LS, tan, med. WE-SW, sandstone, NS
much sh., clay-silty

LS, dk gray, med. clay, silty
LS, tan, tan-silty WE-SW
silty shale, silty clayey
shale, silty clayey

LS, tan, silty shale, silty
med. sh. con, tan, WE-SW, silty shale, clayey

SH, silty shale
LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

LS, silty shale, clayey
LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

LS, tan, tan-silty WE-SW
silty shale, silty shale, silty
shale, tan con, tan, WE-SW, silty shale, clayey

Mudstone @ 3944'
WT 9.2 VLS SI WL 10.Y
PH 10.0 CL 4500ppm LCN trace

