

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

MURFIN DRILLING CO., INC.

WELL: FREIDA #1-13

LOC.: 2050' FSL & 2310' FWL
SEC. 13-12-20W
ELLIS COUNTY, KANSAS
API: 15-051-26080-00-00

DRILLING CONTR.: MURFIN RIG #8
SPUD: 01-18-11 COMP: 01-29-11
MUD UP: 2771' TYPE MUD: CHEM.
FIVE FT. DRILL TIME: BSP-3200'
ONE FT. DRILL TIME: 3200-RTD
RTD: 4025' LTD: 4028'
SAMPLES SAVED: 3150'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION
KB: 2265'
GL: 2260'
LOG MEASURED
FROM: KB

SURFACE CASING

8 5/8" CASING SET
@ 214' W/190SX

PRODUCTION CASING

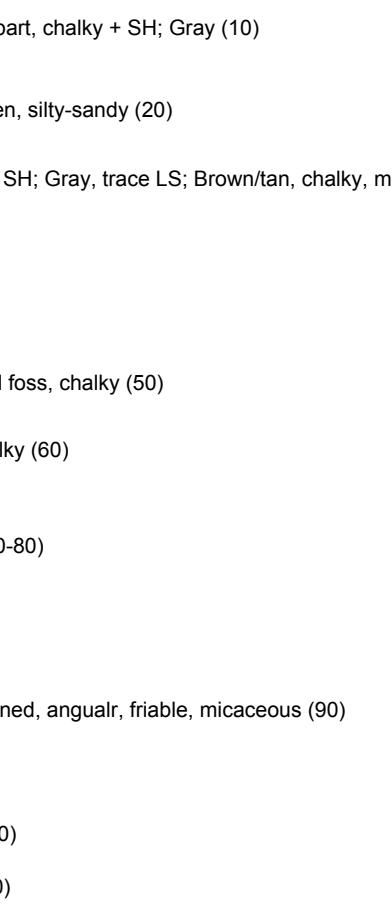
Plugged & Abandoned

WELL LOG SURVEYS

CDL/DIL/SONIC/MICRO

ELECTRIC LOG TOPS

Formation	Depth	Datum	Pos. A	Pos. B
Anh	1635	+630	+1	+3
BA	1684	+581	-2	-6
Topeka	3307	-1042	+2	+2
Heebner	3536	-1271	+1	+2
Toronto	3560	-1295	+1	+2
LKC	3580	-1315	+2	FLAT
BKC	3818	-1553	+10	+10
Marm	3831	-1566	+12	+12
Arbuckle	3955	-1690	N/A	-54



REFERENCE WELL:

Murfin Drilling Co.
Hagen #1-13
SW NE SW
13-12-20W
2217 KB

Murfin Drilling Co.
Hornburg #1-18
1150' FSL/700' FWL
18-12-19W
2231 KB

REMARKS AND RECOMMENDATIONS

Due to the negative drill stem results this well was plugged and abandoned by the operator.

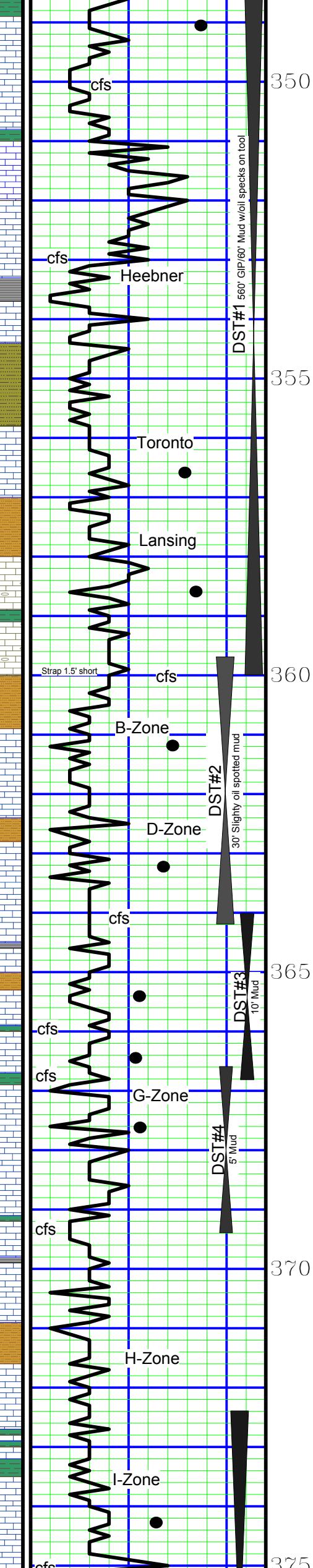
Respectfully Submitted,

Robert J. Petersen
Robert Petersen 1-31-11

DAILY REPORT

@ 7:00 A.M.

1-18-11	MIRT
1-19-11	450' DRILLING
1-20-11	2010' DRILLING
1-21-11	2570' DRILLING
1-22-11	3040' DRILLING
1-23-11	3510' CFS
1-24-11	3600' DST#1
1-25-11	3668' DST#3
1-26-11	3694' TIH
1-27-11	3800' Drilling
1-28-11	3919' Drilling
1-29-11	4025' TOH for Log



SAMPLE DESCRIPTION

LS; Tan/cream, fine crystalline to dense + LS; Gray, dense, arg. + SH; Dark gray (3200)

LS; Gray/tan, dense, foss, subgranular in part, chalky + SH; Gray (10)

LS; Tan/gray, dense, foss + SH; Gray/green, silty-sandy (20)

LS; Cream/gray/tan, dense, foss, chalky + SH; Gray, trace LS; Brown/tan, chalky, mealy w/traced dead stain (30)

Decrease SH (40)

SH; Gray, silty (50)

LS; Tan/cream, fine crystalline to dense, sl foss, chalky (50)

LS; Cream/gray, dense, foss, mottled, chalky (60)

SH; Gray, silty, sandy (60)

LS; Lt gray, dense, foss, chalky, blocky (70-80)

SH; Dark gray, silty-sandy (80)

SH; Gray, silty-sandy + SS; Gray, fine grained, angular, friable, micaceous (90)

SH; Gray/dark gray, silty (3300)

SH; Brown/gray, silty, sandy, gummy (3310)

LS; Cream/gray, dense, foss, chalky (3310)

SH; Black + SH; Red/gray, silty (20)

LS; Gray w/cream fossil mottle, very foss, dense (20)

LS; Cream/tan/gray, fine crystalline to dense, sl foss, chalky, trace stain (30-40)

SH; Dark gray + SH; Gray, silty (45/20")

LS; Cream, fine crystalline, foss, chalky, trace poor fossil-cast por + LS; Tan/gray, dense (45/20")

LS; Tan, fine crystalline, foss, chalky, slightly dolomitic, trace poor fossil-cast por (45/40")

LS; Tan/gray, dense, foss (45/60")

SH; Black (60)

LS; Gray/cream, fine crystalline, foss, chalky, sl dolo + SH; Gray, silty (60)

LS; Tan, fine crystalline, foss, chalky, dolo, poor vug por, trace min stain (70)

LS; Cream/gray, fine crystalline to dense, foss w/poor vug por, sl dolo, chalky, mealy, cherty, tr dead stain + SH; Gray, sandy (80-90)

LS; Cream, fine crystalline, very chalky, mealy + SH; Dark gray (3400)

LS; Tan, fine crystalline to dense, foss, chalky (10)

LS; Gray/cream, fine crystalline, foss, chalky, trace dead stain + SH; Dark gray (20-30)

LS; Tan/cream, fine crystalline to dense, foss, chalky, dolo + SH; Black/SH; Gray, sandy (40)

LS; Gray/cream/tan, fine crystalline to dense, foss, chalky (50)

SH; Gray (60)

LS; Cream/gray, fine crystalline, foss, chalky, sl dolo, cherty (60)

LS; Tan/cream, fine crystalline, chalky, sl cherty (70)

SH; Black; Red/gray, silty (80)

LS; Cream, fine crystalline, foss, chalky, sl dolo, cherty, trace poor vug por, ssfo (45/20")

LS; Tan/cream, fine crystalline, foss, chalky, sl dolo, cherty, trace poor vug por, ssfo (45/20")

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LS; Tan/