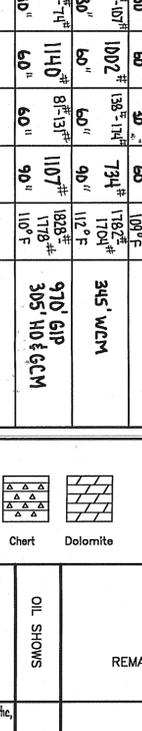


CHARLES SCHMALTZ

CONSULTING GEOLOGIST
WICHITA, KANSAS

REPORT
LOG

COMPANY: MUREIN DRILLING CO.
WELL: # 1-34 POUND
MUREIN METER
LOCATION: 330' FSL 330' FEL



PRODUCTION:
ELEVATION: 1212'
WELL: 225
FIELD: MUREIN METER
LOCATION: 330' FSL 330' FEL

APR # 15-185-23678
MUREIN DRILLING CO.
WICHITA, KANSAS
DATE: 7 AUG 2014

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	TOP	POSITION
ANHYDRITE - TOP	608	-2
ANHYDRITE - BASE	631	+1
TOPEKA	2801	-1
OREAD	3075	-2
HEEBNER	3177	-2
TORONTO	3194	+1
DOUGLAS	3212	0
LANSING	3313	+2
STARK	3531	+1
BKC	3583	-1
VIOLA	3610	+1
ARBUCKLE	3821	+8
TOTAL DEPTH	3910	+18

DRILLING TIME PER FOOT
Rate of Penetration Decreases

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Anhydrite Salt Sandstone Shale Carb sh Limestone Ool. Lime Chert Dolomite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

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REMARKS

3561-3698
VIOLA
30' 30' 60' 90' 110' 110' F

REMARKS

TOPEKA
2801 (-959)

REMARKS

OREAD
3075 (-1233)

REMARKS

HEEBNER
3177 (-1355)

REMARKS

TORONTO
3194 (-1352)

REMARKS

DOUGLAS
3212 (-1370)

REMARKS

LANSING
3313 (-1471)

REMARKS

STARK
3531 (-1689)

REMARKS

BKC
3583 (-1741)

REMARKS

VIOLA
3610 (-1768)

REMARKS

DST #3
3561-3698
30'-60'-60'-90'
HSP: 1002-1107
BHT: 110' F

REMARKS

RECOVERED:
910' GIP
305' HD & GCM
HSP: 1828-1778
FP: 33'-74' 81'-131'
SIP: 1140'-1107'
BHT: 110' F

REMARKS

RECOVERED:
345' WCM
HSP: 1782-1704
FP: 22'-107' 136'-174'
SIP: 1002'-734'
BHT: 112' F

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