11-51

STATE: KANSAS
COMPANY: IMPERIAL
WELL NO.: 1
COUNTY: GOVE
FARM: HOWSER
BLOCK
SURVEY
SEC.: 14
TOTAL DEPTH: 4561
T.: 11
R.: 29W
NW-NW-NE
COMMENCED
COMPLETED
REMARKS: electrolog
ALTITUDE: 2818
PRODUCTION: D & A

CASING RECORD

DST. 3974-95/2HR, 95' W BHP
775 # DST 4070 -95/2HRS 83'
MDY W, BHP 925 # DST 4093-
4120/1HR 18' M BHP 25 #
DST 4116-41/1HR 15' M, BHP 20 #

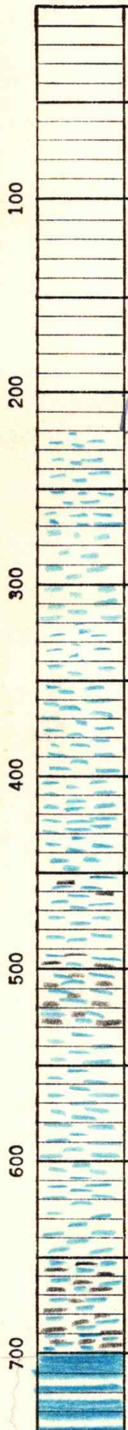
SHOT QUARTS BETWEEN

SEE BACK

FORM 186 - In stock and for sale by Ross-Martin Co., Tulsa

Elect on order

SAMPLES START @ 220

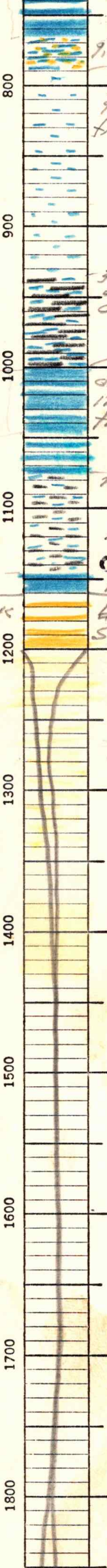


gy mot, calc, fos sh

med to dk gy mot calc fos sh

Ft Hays Lst 700

wht gray, broken chalk & impure chalky ls



g, sandy limey fos Sh

g, mot slightly calc soft fissile fos sh

35
dk g to blk, mottled calc fos sh

Greenhorn Lst 1000

dirty gray bf chalky, impure shaley, fos, thinbedded lst

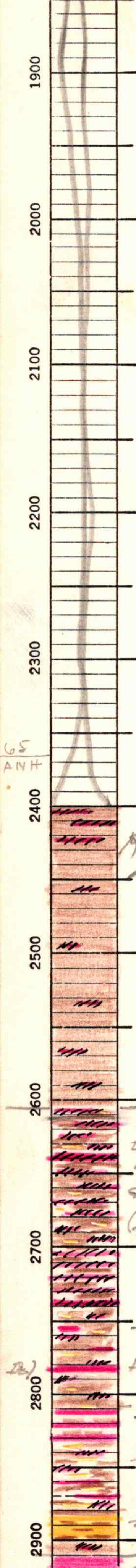
75
med to dk g mot, calc fos sh

Dakota Group 1160

gray granular profusely fos shaley lst

60
brown g, f to c. g. subL to subrd, pyritic, illsorted sst

Samples Skip 1200 - 2400



Reddish-brn, + maroon anhydritic Sh.

65 Thin streaks gray & red fig micac Sst and wht gray anhydrite interbedded with with dominantly red Sh. (Some of Sh is gray & greenish-gray)

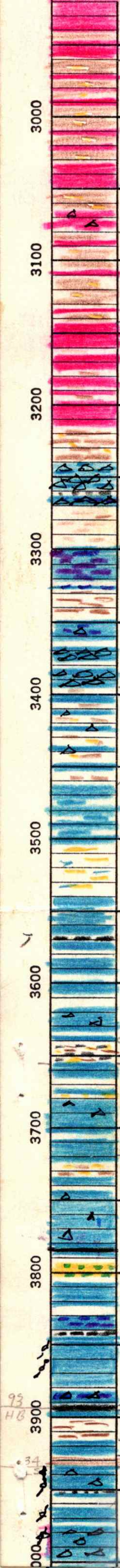
streaks tan dse dolo

tan dse to micro sucrose dol

streaks tan dse dolo as above

red sdy, anhydritic dolo Sh

red, shaly, micac Sst & v fig Sst



g, suc to f. xln. dolo

g bf, mot suc por, dolo

dominantly red sl. sdy sh
with interbedded gray suc
to f. xln dolo

gray suc to f. xln compact dolo

"

lt g, suc, shaley, sl. △y dolo

rdg sl. sdy dolo sh

c-g, suc to f. xln. lst

"

"

" g, suc to f. xln. lst

rdg sl. sdy sh

med to dk. g opq to subopq fos △
in gty, f. xln shaley dolo lst
dk g, sh

rdg sh.

lt. g f. xln dolo. lst

"

rdg sh.

g bf, f. fos dolo lst. sl △y
g bf, shaley △y f. xln lst. dk g,
f. xln lap △
g f. fos △y lst g, opq to subopq fos △
g, mot f. fos, lst interbedded with rdg sh, sdy sh
lst is △y in part

lt g to bf, f. fos shaley lst

g, sdy micac, calc. sh.

g bf, f. fos shaley lst
mottled in part
dk. g to blk sh
lt. g, d.f. fos
c, d-f,
g, f. fos.
g, soft por fos. shaley lst
39, f. fos
med to dk. g red micac sh
sl. sdy
54 lt g, d.f. fos
g, bf, fos, sl. △y micac sh
wh. to g, d.f. fos sl. △y. streaks pp por

wh to c, d.f. fos
rdg sl. sdy f. fos sh
lt. g, f. fos.
pp por in lt g soft
sl. △y fusulinid lst
lm, shy, fos
g bf, f. micac, friable calc. sst

lt. g, d-f, fos.
wh, f. gran por, fos, dolo. lst
dk. g to blk sh
c-g d.f, fos. por, d finely
occ in streaks
g-bf, f. gran, mottled △y dolo lst
91 g bf, f.
94 blk sh

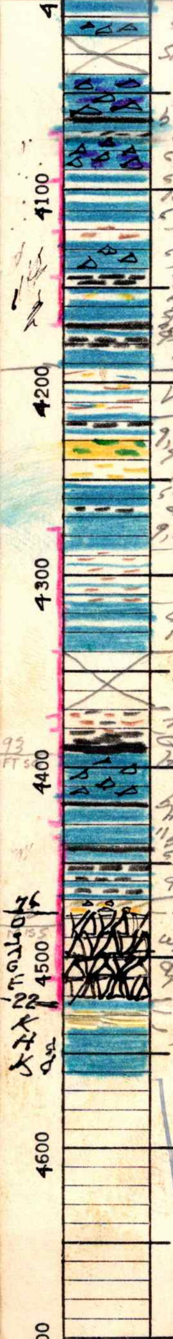
Hbnr Sh 3891

16 lt. g, f. fos lst. streaks pp por
27 red sh

Ls 3934

34 wh to g, por, ool. occ sl. △y lst
95
wh to c, d.f. scat ooc, por.

wh to s, d.f. △y. ool. & ooc
in part



s, dse
s, d-f, Δy

SKIP 20-40

s, d-f, g gran Δy dolo lst
blk sh
[illegible]
[illegible]
s-g, d-f, gran Δy dolo. lst
s-g, dse

s-g, ff sh
ff g sh

s, dse Δy blk sh
dk g to blk sh
g, silty, micac sh
g, silty, fos
[illegible]
g to blk sh
s-g, ff
93

v calc sh, silty limey sh
v silty g to blk sh
g, dse
g, f-g, micac, calc, soft shaley sst
g, silty micac sh
s-g, dse, soft por. fos. lst
dk g, sh.
g, soft por fos shaley lst.
v. calc, limey sh.

s-g, dse shaley lst
11

SKIP 40-70

red g sh
dk g to blk sh
s, ff, Δy

blk sh
s, g, dse
blk sh
s-g, ff
dk g sh & g, dse lst interbedded
40
dk g, silty sh. Fr. v. calc Δ
76
wh to gray, sp, subang fos, tp
residual [illegible]
dk [illegible]
weathered
22 wh. lithographic lst
28 thin beds lt g, f-g, tight glassy
sh sst in green & [illegible] sh
wh dse to co xln lst.
Faintly co. ool. in part

PBC 4470
Miss 4476

Gilmore City 4522

TOTAL DEPTH 4561

DST 4139-70/1HR, 15'M
BHP 30# DST 4276-4340/
1HR, 25'M, BHP 455#
DST 4378-4430/1HR, 30'M,
F Spks O, BHP 55#
DST 4438-4510/1HR 30'M
SSO, BHP 455#
DST 4510-24/2HR, 100'
M, SSO, BHP 840#

PERF 16/4497-4501:
16/4501-05! 60/4505-20!
ACID 300 BL 1 GOPH
ACID 12000: SWB 20
BWPH/40HR TR OIL.