2-55

STATE Kansas

COMPANY Empire Drlg

COUNTY Graham

FARM Knoll

WELL NO. 1

BLOCK

SURVEY

SEC. 16

T. 10

R. 25W

TOTAL DEPTH 4523

Ne-Ne-Ne

COMMENCED

COMPLETED

REMARKS

ALTITUDE 2486

PRODUCTION D&A

CASING RECORD

DST 3790-3812/40"; 15' mud BHP 1400#

DST 3740-64/50"; 5' mud BHP 820#

DST 3840-55/1hr"; 350' mdy sw BHP 1210#

DST 3895-25/40"; 10' mud

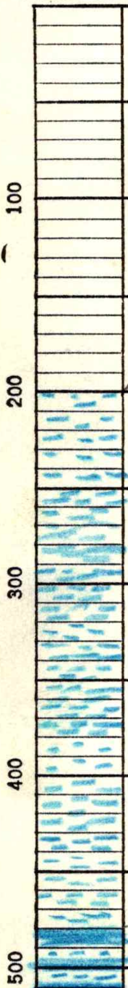
DST 3935-60/40"; 5' mud

SHOT QUARTS BETWEEN

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

DST 4263-29/1hr. 45' ocm BHP 980#

Lost circ @ 4517'



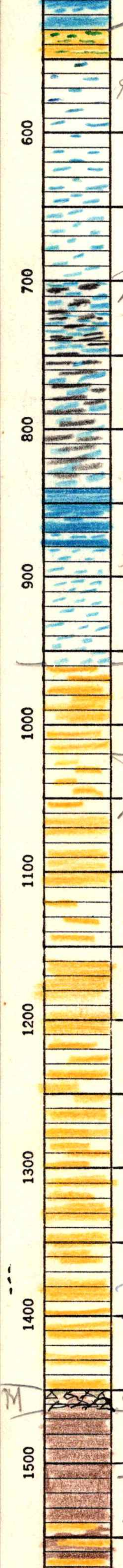
Samples Start @ 200'

gray mot. calc. fos sh

Ostrea beds in part

thin beds gbf

chalky impure lst



g, f.g, sub micac calc sst

g, mot calc, sh soft and subplastic

med to dk g, mottled calc fos sh

g-bt, shaley fos ls.

g, calc, fos sh

Dakota Group 960

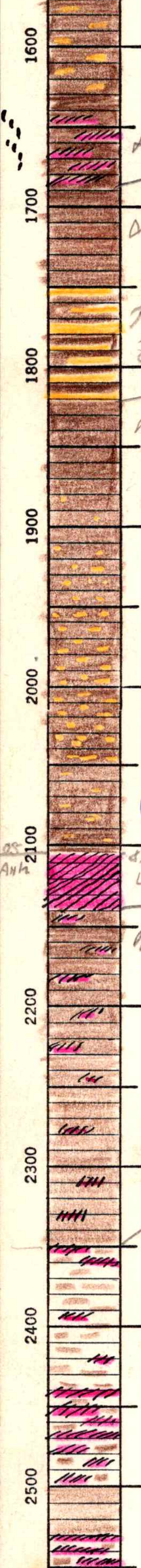
60 lt g, v.f.g. to f.g.
g, lt & frost calc
sst, interbedded
with shaley sand
& sandy sh, pyritic
& sideritic for
most part

Morrison Fmn 1450

Permian Red Beds 1465

50 green red & brn
clty sh with nodules
65 pink chalcedonic

reddish brn
maroon sh with
interbedded wht
red sub rd sst
in part.



Streaks anhydrite
+ selenite

bright reddish brn
& vermillion sh.

interbedded orange
pink, rounded &
polished, friable f. to
c. g. sst

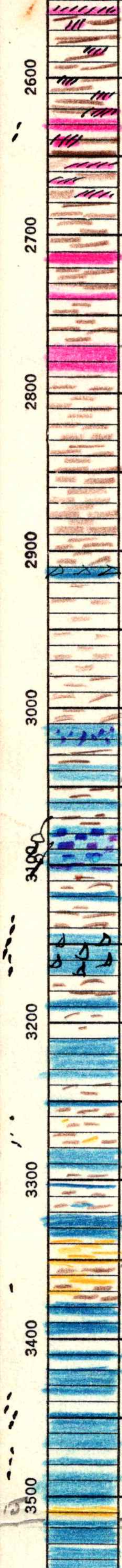
Reddish brn sh.
gritty & silty in
part

Cim Anhyd 2105

05
wh & gray massive anhyd.

Reddish-brn & maroon sh
streaks anhydrite

R & g anhydritic sh



c-tan f. suc, gypsif, dolo
sh as above

lt. tan f. suc. dolo.
r+g sh
tan f. suc. dolo.

gbf, mottled, suc. por. dolo.

r+g sh.

g, d-f, Δy
r+g sh.

lt gy f, gran dolo. lst
sh
g, d-f
''
'' bf, suc por ooc dolo lst

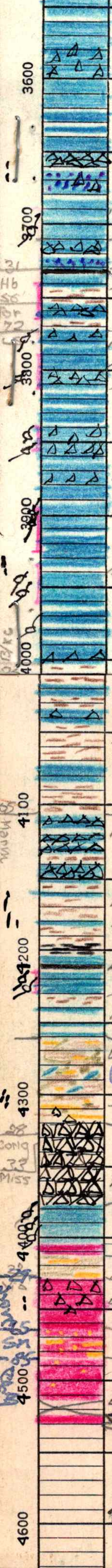
g-bf, d-f, Δy lst
r+g sh
lt, dse shaley lst
''

g-bf, d-f, fos
r+g sh
r+g micac sh, sdy sh.
r+g limey sh.

g, d-f
lt g, f. g. tight, shaley micac. sst
r+g sdy sh
g, d-f
g, sl-lt, por fos lst.

g, dse
lt. g. d-f

c, d-f, fos
Tp 3515
g, dse
gbf, f. fos shaley lst
lt g, f. g. micac. sst
3515
wh, d-f
gray, fusulinid. lst



rp por,
lt-g, por. fos. lst.
Δy in part,

lt-g, por, fos (crinoidal) lst.
lt-g, d-f.
g, f, fos
g, f, dse
Hbnr Sh 3731
wh, d-f, Δy
g, f, grain, dolo. lst,
g, sli Δy f
LS 3772
lt-g, d-f.
g, por, ooc lst.

lt-g, d-f, fos. Δy
st suc dolo. lst,
blk sh in g, d-f, dse lst
rd-g sh
wh to c, d-f, fos Δy por lst
3772 d-f Δy. Scat ooc. por & spotty oil stn
lt-g, dse
g, d-f, Δy, Scat ooc. por & spots dk. oil stn
lt-g, dse
wh, d-f, sli spotty oilstn
c-g, d-f, Δy, ooc por, & spots dk oil ~~stn~~
lt-g, d-f, Δy in part
g, d-f, d-f. Scat ooc por & spots dk oil stn.
lt-g, d-f.

lt-g, por, ooc. lst. Spotty oil stn
lt-g, d-f, fos/lst.
g, por, dse
lt rust-f Δy at base
red g sh.
wh, d-f, sh
lt-g, d-f, Δy lst
rd-g sh
g, d-f, fos

05 sh ... in g, f, grain
pink thin-bedded lst.

rd-g sh.
g, dse
PBC 4260
lt-g, d-f, sh
vari colored sh
Miss 4320
vari g sh
g, dse lst
blk sh
g, por, ooc, oil st, lst,
oil stn is very heavy but stn is probably made by dead oil!
g, dse
c-g, d-f.
60
vg, sdy sh. lime pebbles in ooze
Gilmore City 4378
stringers wh. f. g. glassy non-micac. sst. sli Δy
20 ft ...
Kdk Shd Sst 4412
wh op to sub op fos
residual Δ with some infiltrated sand ish
wh. dse. co. ool. lst
Viola 4429
g-d, suc to f. xln, dolo
12
green and brown sh, with stringers
29 wh. f. g. glassy, non-micac
wh. sm. sub op Δy
Sn 4465
pinkish & yellowish cast in sst
lt-g, f-med. xln, Δy dolo.
slightly por, in part
45
g, b-f, lt-brn, f to co. xln, sandy, sli-shaley dolo.
85
Arb 4485
g-b, f, xln. dolo
skip 15-25

Total Depth @ 4529'