

Randall Kilian Corporation

Geologist



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GEOLOGIST'S WELL REPORT

COMPANY JAMES P WILLIAMS ENTERPRISES, INC. (35220)

WELL Wanker #1

FIELD Marcotte

LOCATION (legal) N $\frac{1}{2}$ SE SE NE
2200' FNL & 330' FEL
Section 8 TWP 10S RGE 20W

(Map) 3.4 mi S of Palco, Ks

COUNTY Rooks STATE Kansas

ELEVATION: 2242' K.B., 2250' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-163-24343

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Discovery Drilling (31548)

RIG #2 HYDRAULICS Emsco D-375 6x14x60
(Terry Wickham TP)

DRILL PIPE 4½" X-H COLLARS 6¼" x 2¼" (409')

CASING: SURFACE 8 5/8" @ 221' w/ 150 sx 80/20

PRODUCTION 5 ½" @ 3899' w/ 150 sx Common

DV @ 2196' w/ ~~3353x~~ QMD

DRILLING FLUID: COMPANY Andy's Mud & Chemical Co.
(Brandon Mendez)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.
(Spencer Staab)

NUMBER OF TESTS Two (2)

ELECTIC LOGS: COMPANY Gemeni Wireline Service

DETAIL (5") 3200' - RTD

TYPE Comp N-D, DI, Micro

DRILLING TIME FROM 3250' TO RTD

SAMPLE TIME FROM 3250' TO RTD

SUPERVISION FROM 3250' TO RTD

VERTICAL DEVIATION ¼° @ 222', 1° @ 3900'

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

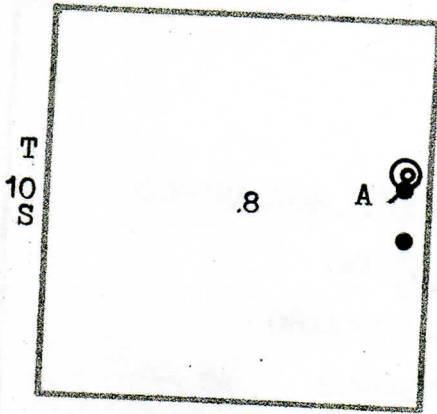
RESERVE PIT 600 bbls., Chl. 30,000 Ca 740

FORMATION TOPS & STRUCTURAL GEOLOGY

R 20 W

REFERRED TO:

- A: D.G. HANSEN
- #1 Oesterreich SE SE NE 8
- B: _____
- C: _____
- D: _____
- E: _____



STRATIGRAPHIC MARKERS	SUBJECT WELL		DATUM	STRUCTURAL POSITION				
	SAMPLE	E. LOG		A	B	C	D	E
Anhydrite	1750'	1750'	+ 500	+ 501				
Base	1784'	1783'	+ 467	+ 468				
Topeka	3281'	3283'	-1033	-1029				
Heeb Sh	3484'	3486'	-1236	-1232				
Toronto	3505'	3507'	-1257	-1254				
Lansing	3521'	3525'	-1275	-1271				
BKc.	3740'	3743'	-1493	-1489				
Smp. Sand	3799'	3795'	-1545	-1544				
Arbuckle	3813'	3821	-1571	-1561				
TD	3900'	3900'	-1650	-1579				

*Structural position of subject well as compared to referred well.

SUMMARY

The Wanker #1 well was drilled with Discovery Drilling tools rig #2 beginning July 6, 2017 and drilling was completed July 11, 2017.

The drilling location is located 110' north of the abandoned #1 Oesterreich well. This well produced 156,500 BO from 1954-2000.

The Wanker #1 well ran 4-10' lower structurally to the abandoned well. Oil shows were encountered in several zones. An 8' thick Simpson Sand developed with good oil shows which was not developed in the offset well. This zone was DST #2 but a packer failure caused an unsuccessful test. However, the oil recovery in the recovered fluid indicates permeability in the zones.

Based upon all data, casing was set and cemented to further test the well.

Recommended perfs; Smp Sd. 3796-3802', LKc K 3717-18', Topeka 30' zone 3309'.

At some point LKc C 3566'.

Respectfully,

Randall K. Kilian

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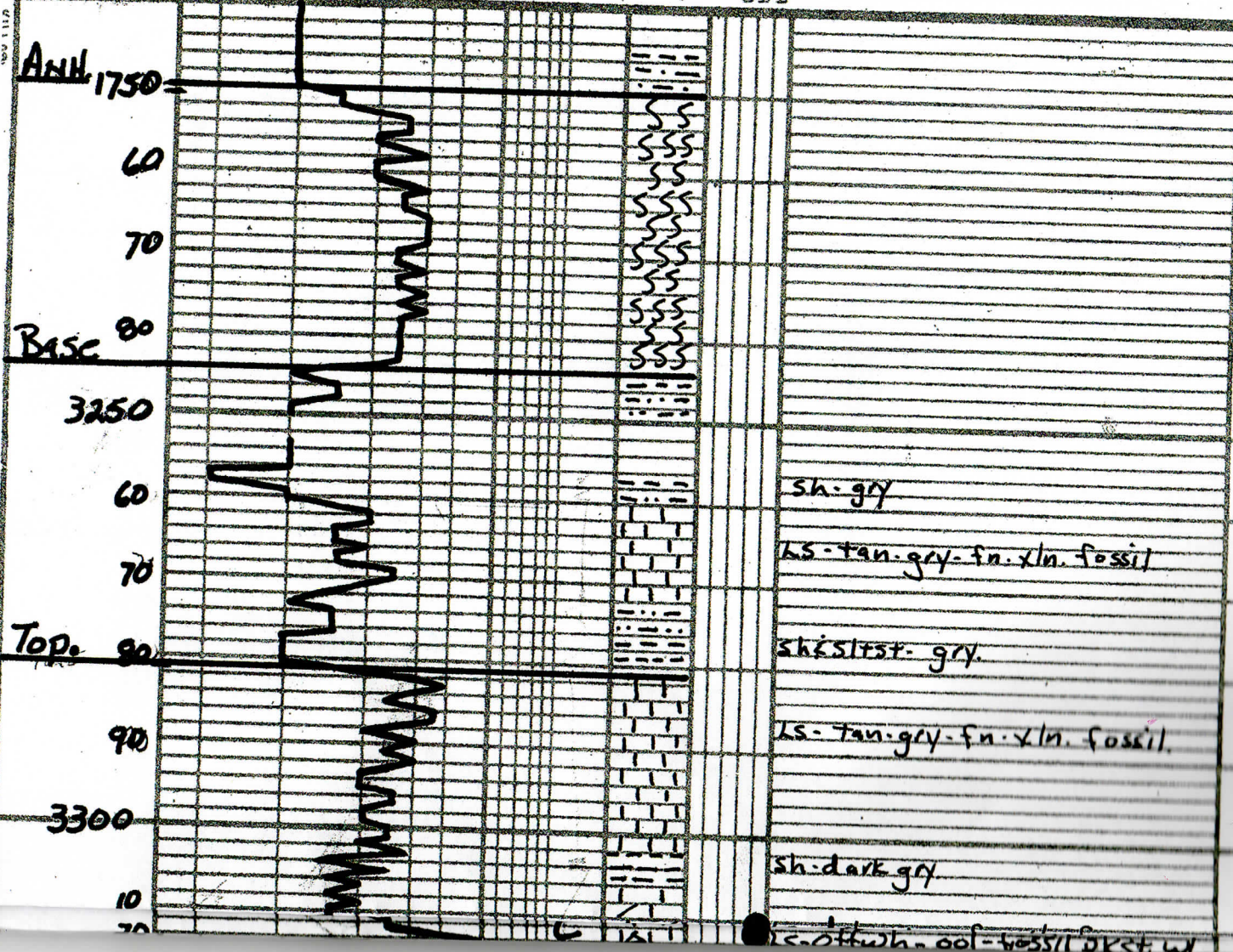
DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

SHOWS
POOR
FAIR
GOOD
DST

LITHOLOGY (LAGGED)

REMARKS



Displaced @ 3211'

3200' Mud test.
Vis. 60 Y.P. - 19
WT. - 8.6 chl. - 1.5K
WL. - 8.0 LCM. - 2.5"

sh. gry

ls. tan. gry. fn. xln. fossil

sh. siltst. gry.

ls. tan. gry. fn. xln. fossil.

sh. dark gry

ls. off wh. ool. fossil. dk. w



LS - 910 - Tan. fn. xln. fossil
xln. 0. air st. - set. S/SFB,
S/ador

sh - grey

sh's/stst - grey-brn.

LS - grey-fn. xln. fossil.

LS - Tan. grey-fn. xln. fossil.

sh - dark grey - blk.

sh's/stst - grey-brn.

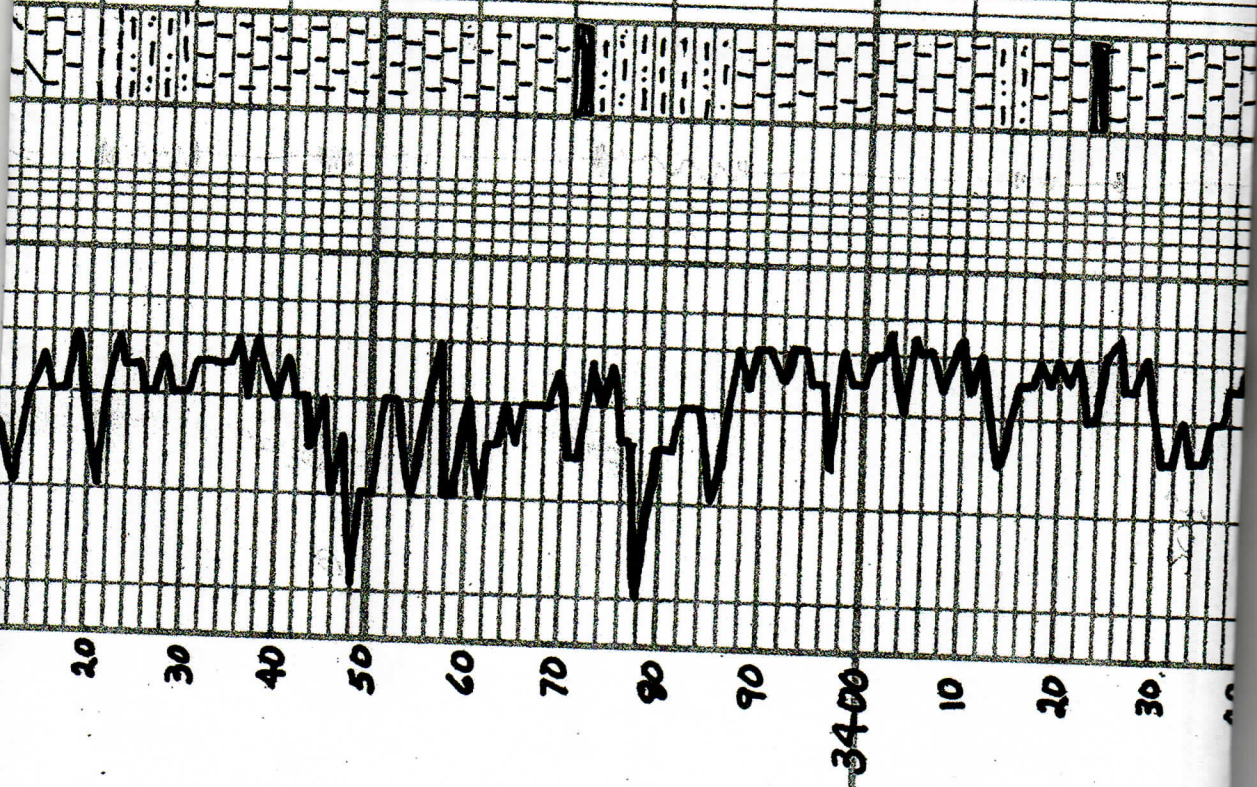
LS - 1st grey - grey-fn. xln. fossil
S/SFB

LS - a/e.

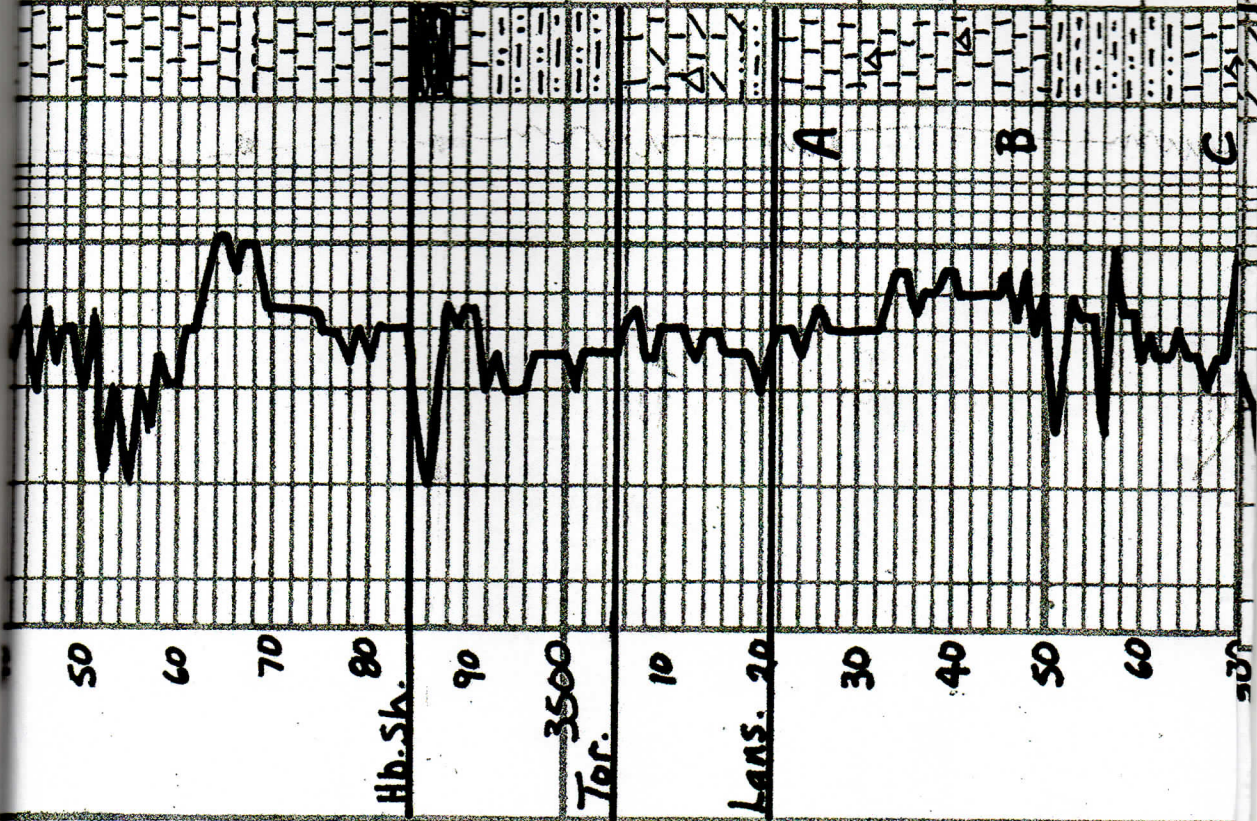
sh's/stst - grey - grey

sh - blk.

offish - fn. xln. fossil



3400



LS a la.

sh-gry

LS-wh-tan-fn.xln. fossil

Sh-bik, Carb. fissile

LS-tan-fn.xln.

sh sltst-gry brn, grn.

LS-sltdlo offwh wh-tan-
ltgry, fn.xln. sl. Δ,
sl chalky

sh sltst-gry-brn-grn.

LS-offwh-wh-fn.xln.ool
w/ poor intercal. sl. ool
sl in φ sl. Δ.

LS-offwh-1-fgry-fn.xln.ool

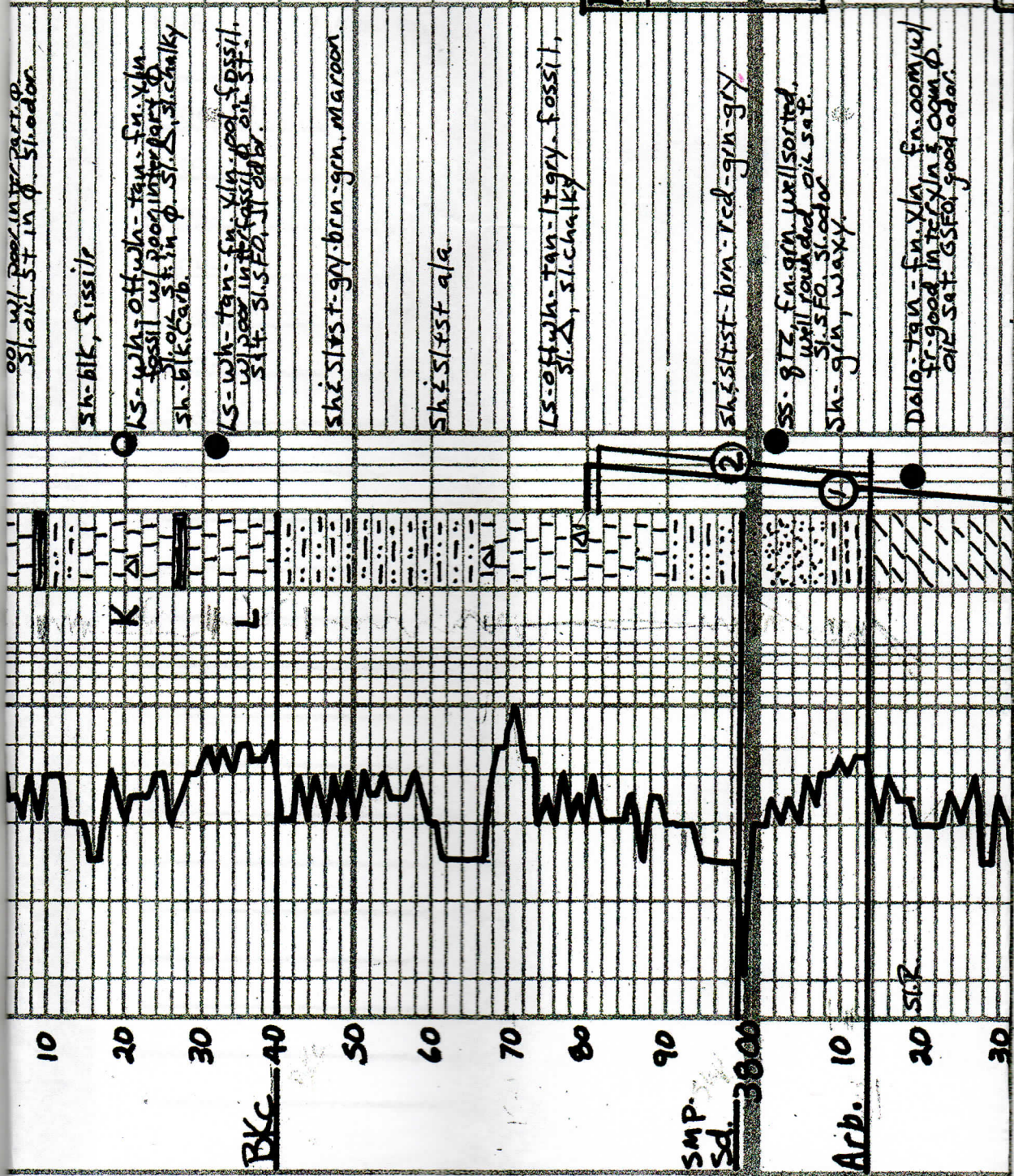
sh sltst-gry-brn-grn.

LS-offwh-ool-fossil ool w/

Mud
US-53
wt. 8.8

Mud
US-83
wt. 8.8

1957



DST #1 SMP-ARB
 3780' - 3842'
 5" 60' 15" 30'
 1385' M.W.T.R.
 F.P. 460-629, CATAC
 S.I.P. - 9174
 H.P. 1830-1781 #

Mud
 Vis: 60
 wt: 90
 LCM: 4 #

001 w/ poor impurity in part of sl. oil st in of sh. odor.

sh. blk, fissile

ls. wh. off wh. tan. fn. xln. fossil w/ poor impurity sh. blk. carb.

ls. wh. tan. fn. xln. pool fossil. w/ poor impurity sh. blk. carb.

sh. sst. f. gy. brn. grn. maroon.

sh. sst. a/a.

ls. off wh. tan. f. gray. fossil. sh. sst. cherty

sh. sst. brn. red. grn. gray.

ss. gtz. fn. grn. well sorted. well rounded oil sat. sh. sst. carb. sh. grn. waxy.

Dolo. tan. fn. xln. fn. oom. w/ fr. good in f. xln. & oom. carb. sat. GSE. good odor.

BKC

SMP. sd. 3000

Arb.

INSTA 9 C. CA

DST # 2 Snp St
 3781-3814
 Backer failure
 after 3 ft
 50' OC M 25' 60
 200' OC W M 10' 20
 500' W TR
 FP-36# - - -
 SIP - - -
 MP. 1842-1806#



dev 1°

Dato a/a

Dato - tan. gray fn. Xln. w/ poor fr. interstrat. & barren - on st. - also good color

Dato - tan. gray - fn. Xln. - poor color w/ poor interstrat. & barren. Mostly barren. Δ

Dato - tan. gray - fn. Xln. - mostly barren. Δ. sh. cherty

Dato a/a

