David A. Barker

CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Bouziden #1-31
Well Id: 15-007-24361
Location: 31-T30S-R12W
License Number: 15-007-24361
Region: Barber County, Kansas
Spud Date: 10-17-2019
Drilling Completed: 10/25/2019
Surface Coordinates: 960' FNL & 1950' FWL, or NE-SW-NE-NW/4

Bottom Hole Coordinates:
Ground Elevation (ft): 1811
K.B. Elevation (ft): 1823
Logged Interval (ft): 2300 To: 4815
Total Depth (ft): 4815
Formation: Arbuckle
Type of Drilling Fluid: chemical

Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

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OPERATOR

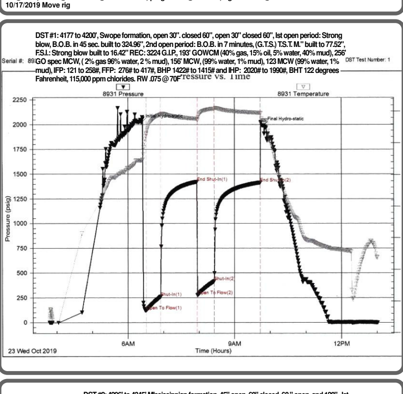
Company: Val Energy, INC
Address: 125 N. Market
Ste 1110
Wichita, Kansas 67202

Daily Status

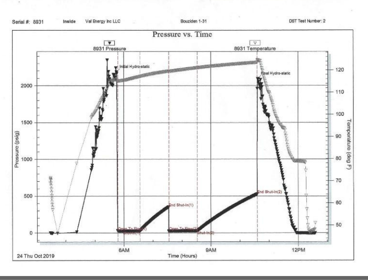
10/17/2019 Spud well at Spud @ 8:45 P.M. pm.

10/18/2019: 350', W.O.C.: Ran 8 jts new 8 5/8", set @ 348', cement with 225sx Common, 3% cc, 2% gel, plug down @ 5:30 am by Quality, cement did circulate, Survey 1/4 @ 350'
10/19/2019 morning depth: 1235', survey @999' 3/4 deg., 1 1/4 deg. @ 1506'
10/20/2019 morning depth: 2423', Drilling, 1 deg. @ 1507', Survey 1 deg @ 2013',
10/21/2019, morning depth: 3325', Drilling, Survey 3/4 deg. @ 2599', 1 1/4 deg. @ 3185
10/22/2019, morning depth: 3972', Drilling,
Survey 1 1/4 deg @ 3470/'
10/23/2019, morning depth: 4200', drilling, Survey 1 1/4 @ 3990' DST #1, Swope formation, test interval: 4177' to 4200',
10/24/2019, morning depth: 4356, DST #2, upper Mississippian, test interval: 4294-4356, Survey 1 1/4 deg. @ 4356.
10/25/2019, morning depth: 4755, Drilling, Run electric logs prepare
10/26/2019 well T.D. @ 4815, decision to plug and abandon Bouziden 1-31, Plug well with 50 sx @ 4756, 50 sx @ 650, 50 sx @ 390', 20 sx @ 60' 20 sx @ mouse hole, plug down @ 7:45am, rig released @ 9:45 am
10/17/2019 Move rig

DST #1: 4177 to 4200', Swope formation, open 30". closed 60", open 30" closed 60", Ist open period: Strong blow, B.O.B. in 45 sec. built to 324.96", 2nd open period: B.O.B. in 7 minutes, (G.T.S.) T.S.T.M." built to 77.52", F.S.I.: Strong blow built to 16.42" REC: 3224 G.I.P., 193' GOWCM (40% gas, 15% oil, 5% water, 40% mud), 256' GO spec MCW, (2% gas 96% water, 2 % mud), 156' MCW, (99% water, 1% mud), 123 MCW (99% water, 1% mud), IFP: 121 to 258#, FFP: 276# to 417#, BHP 1422# to 1415# and IHP: 2020# to 1990#, BHT 122 degrees Fahrenheit, 115,000 ppm chlorides. RW .075 @ 70F



DST #2: 4296' to 4345' MIssissippian formation, 45" open, 60" closed, 60 " open, and 120" , Ist open period: Strong blow, B.O.B. in 12 minutes, built to 29.87" 2nd open period: B.O.B. immediately, built to 39.57", REC: 667 G.I.P., 60 GMud, (3% gas, 97% mud) IFP 27.21 to 27.5#, FFP 26.43 to 28.32#, BHP 350.75# to 525.42#, IHP 2184.8 to 2092.11#, BHT 115 degrees, fahrenheit,



Contractor

Fossil Drilling Rig #3, Main, 100 S. Main,
Pratt, Kansas

Remarks

At the location of the 1-31 Bouziden drilling location one of the primary potentially productve zones was the MIssissippian Chert. This zone was penetrated at a drilling depth of 4244 and the upper Mississippian chert was drillstem tested by DST #2 from 4294 to 4356. This test recovered 667 GCM and 60' gassy mud, BHP of 350 to 525#. The Mississippian electric log calculations of this zone and the results of the drill stem test revealed that the Mississippian formation at this location was noncommercial.

The Swope formation was drill stem tested from 4177 to 4200. This formation produced G.T.S during the I.S.I. period and Recovered 728' total feet of fluid, (193' GOWCM, 256' GO spec MCW, 156' MCW, 123' MCW) electric log calculations of this zone showed this zone at this location to be "Wet" and non commercial.

All potentially productive zones were reviewed on the open hole electrice log. After the review of the electric log, DST results and the drilling samples it was recommended that the 1-31 Bouziden be plugged and abandoned on 10-25-2019. David Barker

ACCESSORIES

INTERVALS: Core, Dst, Dst

EVENTS: Rft, Sidewall, Cfs, Conn

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

LITHOLOGY: Anhy, Cht, Congl, Shale, Shgy, Ss, Carb shale, Gray shale, Sandy lmst, Shale, Slt stn, Shaly slst, Slty shale, Blank, Gray lmst, Cream lmst, Red shale, Blue-green siltstn, D. green shale, Green shale, Brown lmst, Brown shale, Brown dol, Brown cream, D. green lmst, Light cream lmst, Gray cream lmst, Green dol, Gray dol

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomold

MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol, Sand, Slty

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg, Carbsh, Clystn, Dol, Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

OIL SHOWS: Even, Spotted, Ques, Dead, Gas show

ROCK TYPES

INTERVALS: Core, Dst, Dst

EVENTS: Rft, Sidewall, Cfs, Conn

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

LITHOLOGY: Anhy, Cht, Congl, Shale, Shgy, Ss, Carb shale, Gray shale, Sandy lmst, Shale, Slt stn, Shaly slst, Slty shale, Blank, Gray lmst, Cream lmst, Red shale, Blue-green siltstn, D. green shale, Green shale, Brown lmst, Brown shale, Brown dol, Brown cream, D. green lmst, Light cream lmst, Gray cream lmst, Green dol, Gray dol

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomold

MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol, Sand, Slty

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg, Carbsh, Clystn, Dol, Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

SORTING: Well, Moderate, Poor

OIL SHOWS: Even, Spotted, Ques, Dead, Gas show

OTHER SYMBOLS

INTERVALS: Core, Dst, Dst

EVENTS: Rft, Sidewall, Cfs, Conn

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

LITHOLOGY: Anhy, Cht, Congl, Shale, Shgy, Ss, Carb shale, Gray shale, Sandy lmst, Shale, Slt stn, Shaly slst, Slty shale, Blank, Gray lmst, Cream lmst, Red shale, Blue-green siltstn, D. green shale, Green shale, Brown lmst, Brown shale, Brown dol, Brown cream, D. green lmst, Light cream lmst, Gray cream lmst, Green dol, Gray dol

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomold

MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol, Sand, Slty

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg, Carbsh, Clystn, Dol, Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

SORTING: Well, Moderate, Poor

ROUNDING: Rounded, Subrnd, Subang, Angular

OIL SHOWS: Even, Spotted, Ques, Dead, Gas show

Log

Curve Track 1: ROP (min/ft) | MD | Porosity | Lithology | Oil Shows | Geological Descriptions | TG, C1-C5: TG, C1 (units), C2 (units), C3 (units), C4 (units), C5 (units)

LS: gray to buff, microxyln, no visable porosity, poor interxyln porosity, Shale: gray, LS: dirty gray, microxyln, A. A.

LS: gray, finexyln, LS: cream, fossiliferous packstone, No visable porosity, micro cement, Shale: gray/green

LS: gray to cream microxyln, dense, no visable porosity, dark gray peletoid streaks,

LS: cream, microxyln, slight visable porosity, dense, poor interxyln porosity, cryptoxyln streaks, Shale: gray

LS: cream finexyln, oolitic streaks, cryptoxyln streaks, Shale: white/green, LS: gray/brown, mottled, finexyln, no show from this interval.

LS: gray/cream, finexyln, dense, scattered random fossile fragments, Shale: gray blocky, LS: very dark brown, microxyln, dense,

LS: dark gray, microxyln, dense, Shale: gray, fossil fragments, lmy, LS: light gray, dense, mudstone.

Red eagle

LS: gray, finexyln, dense mudstone, Shale: gray to redish gray, soft in part, LS: buff to gray/buff, finexyln to microxyln, poor interxyln porosity, LS: light brown speckled, mott, no show, poor interxyln porosity

LS: medium gray, finexyln, mott, poor interxyln porosity, Shale: gray, massive, LS: gray/buff, finexyln, poor interxyln porosity, dense, mott

LS: gray/buff, finexyln, poor interxyln porosity, trace fossiles, no visable porosity, dark gray silte in part, scattered fusilinids, Shale: dark gray, massive

LS: light gray/buff with dark gray specks, LS: brown, microxln, dense, LS: dirty gray, silty, finexyln, poor interxyln porosity, Shale: gray to dark gray with fossile fragments

Onega Shale @ 2774-951

Siltstone: dirty gray, micaceous, friable in part, no show, Sand Stone: gray to light gray, fine grain, micaceous, no fluorescence, no show, friable, Shale: gray, micaceous, fossiliferous, Shale: light green

Siltstone: dirty gray, micaceous, friable in part, no show, Sand Stone: gray to light gray, fine grain, micaceous, no fluorescence, no show, friable, Shale: gray, micaceous, fossiliferous, Shale: light green, scattered loose pyrite

Wabaunsee @2828-1005

LS: gray to very dark gray in part, microxyln, dense, pyritic

LS: buff, finexyln, cyrptoxyln, no vsiable porosity, dense. Shale: green, pyritic, Shale: gray, LS: dirty gray, microxyln, dense, LS: gray/cream, finexyln, mott, Shale: gry

Shale: very dark gray, lmy, fossiliferous fragments, dense. Shale: gray/green to dirty gray, dense, blocky,

LS: buff, finexyln, oolitic packstone, Siltstone: gray clusters, no show, fine grain, Shale: gray

Shale: gray, soft, with dark gray in part, LS: dark gray/brown, microxyln, dense.

Tarkio LS @ 2966-1143

SD. STN: light gray to gray, fine grain, dull pin point fluorescence, oily luster, fair odor when chrushed, micaceous, friable, Shale: gray LS: cream, fossiliferous packstone, Shale: green

no odor from sample, decrease in Sand Stone: fine grain, friable, no to slow cut questionable fleeting cut, no odor,

LS: cream, finexyln, poor interxyln porosity, Shale: gray, calcareous, fossiliferous, Siltstone: A. A.

Emporia

LS: cream, microxyln, dense, blocky, slight visable porosity, questionable stain, no fluorescence, no odor, shale: gray LS: very dark brown, microxyln, in part

LS: cream, microyln, dense, blocky, poor interxyln porosity, Shale: gray LS: brown, microxyln, dense

LS: cream to tan to gray/tan, microxyln, no visable porosity, pyrite, LS: buff, friable, bright fluorescence, broke lazey show of free oil,

Bern LS

LS: cream, fossiferous, poor fluorescence, slight visable fossile moldic porosity, broke lazey show of free oil

LS: gray/brown, finexyln, fossiliferous, fair visable moldic posoity, poor interxyln porosity, no fluorescence, no show, mott, Shale: gray, no show from the tray, mostly LS: crem, microxyln mudstone.

LS: cream, fossiliferous, poor interxyln porosity, rainbow show of oil, slight visable moldic porosity, dull to medium fluorescence, poor interxyln porosity, slight pinpoint stain, milky cut, sample mostly varied colored shale, Shale: light brown, fossiliferous fragments

Howard LS

LS: light brown/cream, spotted, mott, fair interxyln porosity, Shale: gray

flood of: LS: Cream to cream/white, microxln, no visable porosity, poor interxyln porosity, no show, no visable porosity

LS: dark gray/brown, microxyln, dense mudstone, Shale: gray to gray/green

Shale: gray, silty, massive. LS: gray, microxyln, dense, micaceous, shaley, siltstone

Severy Shale

Shale: dirty gray micaceous, silty, Shale: gray, blocky

Shale: dirty gray micaceous, silty, Shale: gray, blocky

Topeka

LS: cream, friable, finexyln, no show

LS: brown, microxyln, dense, LS: cream, finexyln mudstone, LS: dark gray, dense, mudstone, Shale: dark gray, Shale: brown

LS: cream, friable, fine xyln, no show

LS: brown, microxyln, dense, LS: cream, finexyln mudstone, LS: dark gray, dense mudstone, Shale: dark gray to brown

LS: gray/brown, microxyln, very blocky, dense, cryptoxyln streaks, Chert: redish brown, LS: gray/buff, microxyln, very dense, Shale: dark gray

Dear Creek

LS: gray to dark gray mudstone, dense, no visable porosity, LS: cream/buff, finexyln, poor interxyln porosity, Shale: black

no odor from the sample, LS: white, chky LS: buff, random and rare vuggular porosity, scattered xyln porosity with calcite, LS: gray, microxyln, dense, LS: buff, finexyln, poor interxyln porosity, Shale: black

Tecumseh Shale

LS: gray, dense, microxyln, Shale: silty gray, Siltstone: gray, laminar streaks.

Lecompton

LS: brown, fossile hash, slight visable fossile moldic porosity, no show, Shale: black, very dense laminar in part dense. Shale: gray, Shale: black, pyritic

Shale: black, LS: cream to cream/dark brown, soft friable, cryptoxyln, very dense in part

LS: cream, with sct coarse calcite crystals, LS; white, chky, LS: dark brown, microyln, cryptoxyln, poor interxyln porosity

Oread LS

LS: white,chky, no odor from the sample, no fluorescence,

LS: cream/gray, finexyln, friable, mott, LS: tan, microxyln mudstone, dense, Shale: dark gray

Queen Hill Shale

Shale: black to gray, LS: gray, microxyln, dense, LS: cream, finexyln, friable, no show

LS: gray finexyln, silty, LS: cream/brown/gray, finexln, mott, Shale: black, carb

Heebner Shale @ 3713-1890

flood of black carboniferous Shale, LS: dark gray, microxyln, dense mudstone.

Shale: black, Shale: gray/green, LS: dark brown, microxyln, dense LS: gray to light gray/buff, microxyln, very dense, Shale: gray

Shale: gray sample mostly shale

Shale: gray, LS: dirty gray, dense, no visable porosity, Siltstone: dirty gray, no show, fine grain, Shale: gray,

Shale: gray, LS: dark gray, microxyln, dense, oolitic streaks in part

Shale: gray, Siltstone: dirty gray, very dense

Shale: gray, Siltstone: dark gray, laminar, very dense

Haskel@ 3872-2049

Siltstone: light gray, friable in part, no show, LS: dark gray, microxyln, dense, sluff? sample mostly shale

Lansing

LS: dirty brown, finexyln, poor interxyln porosity, LS: dark gray/brown, microxyln, no visable porosity, Shale: green

LS: brown to light brown, microxyln, very dense. Shale: dark brown,

slight show of dead oil stain

LS: cream, very small pin point dead oil stain, slight fluorescence, scattered edge stain with edge fluorescence, LS: odor, show of free oil, LS: cream, finexyln, friable, no show

LS: cream, finexyln, slight visable pinpoint porosity, friable, no show LS: dark brown, very dense, blocky, Shale: gray

LS: cream.tan, finexyln, poor interxyln porosity mudstone, Chert: brown, sharp,LS: white, chky,

LS: dirty cream/brown/gray, finexyln, friable, in part with Shale: brown, LS: brown, dense,

LS: white, chky, LS: tan/brown, finexyln, friable in part sct dark brown cryptoxyln pieces, no show

LSD: white chky, LS: dirty brown, finexyln oolmoldic-oolitic packstone, no show

LS: cream, friable, chlky in part, no show, Shale: gray

LS: white, chky, LS: gray to gray/tan, microxyln, very dense, no visable porosity, blocky, packstone to oolitic packstone, no visable porosity

very slight odor from the sample, LS: white chky, LS: light brown, fair visable oolcastic porosity, fair interxyln porosity, no fluorescence from the sample.

LS white, chky no odor, LS: cream, fine xyln, with edge stain with bright edge fluorescence. LS: cream, finexyln, fossiliferous pack stone, with slight visable porosity, slight stain, no cut, fractured, stained sutures scattered edge fluorescence, mostly LS: cream, friable, chky in part

LS: cream, oolitic pack stone, LS: cream, finexyln, friable mudstone, Chert: smoky gray, Shale: gray, no show from sample

LS: dirty gray/cream, finexyln, mudstone, Shale: gray,

LS: white, chky, LS: cream, finexyln, friable, LS: dirty cream, oolitic, no oolitic porosity, no odor or no show from sample, Shale: gray

DST #1: 4177 to 4200

slight odor from the sample, LS: cream, fair to good oolcastic porosity, slight stain,

Stark SH 4184-2361

Swope @ 4187-2364

LS: cream, oolitic with scattered fair visable oolcastic porosity, slight stain in wet samples good even stain in dry samples, slight odor from sample, poor cut, no show of free oil in wet samples, scattered fair to good fluorescence, fair interxyln porosity,

Shale: dark gray, dense, LS: cream/gray, microxyln dense,

Hertha

LS: dark tan/brown, microxyln, dense, LS: dark gray, dense, mudstone, poor interxyln porosity, mott. LS: cream/gray, microxyln, dense, mudstone, no show from sample

Chert: smoky semi trans, sharp, LS: gray/cream, finexyln, poor interxyln porosity, no visable porosity, Shale: gray, LS: cream/gray, finexyln to microxyln, poor interxyln porosity, scattered friable pieces, no vsiable porosity, Shale: gray/green blocky. Shale: black, LS: black, dense, fossile hash, Shale: gray with crinoid fossile fragments

LS: brown, micoxyln, very dense mudstone, LS: cream/gray, finexyln, friable, LS: cream to gray/cream, finexyln in part, with scattered black shale suture lines. LS: tan, microxyln, very dense, sharp glassey

no odor, Shale: black, dense, LS: tan, microxyln,very dense, questionable dead oil stain-spotty in part, no fluorescence, two rocks very bright fluorescence, LS: tan/gray microxyln mudstone.

LS: cream, scatttered brown, stain, and or dead oil stain, poor fluorescence, no odor

DST #2

Mississippian @4340 -2517

Chert: white to off white, dark brown stain, dull yellow fluorescence, scattered fair tripolitic porosity, rare show of free oil, no odor, Chert: white, fresh, sharp, no fluorescence, no show, Shale: gray

Chert: white, sharp scattered black stained, with tripolitic edges with slight visable porosity, with fair to strong heavy cut,

LS: gray/brown, mediumxyln, no visable porosity, poor interxyln porosity,

Chert: semi clear, sharp, fractured, scattered orfin tripolitic porosity with heary black stain, staining on fracture faces, poor fluorescence from sample tray, no show of free oil in tray and no odor from sample

LS: tan/gray/brown, microxyln, dense no visable porosity, no show to fracture face dark black dead oil stain-one piece.

Kinderhook Shale@ 4432-2609

Shale: dirty gray to green/gray

Shale: gray, silty

Siltstone: gray, silty, massive, calcareous streaks

Shale: silty, calcareous, gray dense, laminar, Chert: white, semi clear, sharp sluff:

Shale: gray with dark brown fluorescence spores. Shale: gray lmy silty, A.A.

Shale: gray, lmy silty, 1 piece of dirty dark brown shaley sand stone with dead oil stain

Viola @ 4527-2704

LS: dirty gray, coarsexyln, spotty fluorescence, fair interxyln porosity, friable, no odor.

LS: white, coarsexyln, sct bright fluorescence, friable, questionable show of free oil under black light, most of sample barren no show.

no odor from sample, LS: white to off white, coarsexyln, Chert: smoky brown, semi clear, with dark brown flecks, sharp.

Chert: A.A.. LS: dark brown, finexln with fine grain quartz grains, LS: cream/brown, microxln, dense

LS: dark brown, microxyln, dense, Chert: dark smokey brown, sharp, semi translucent, scattered healed fractures LS: cream/brown, finexyln, friable,

Chert: brown to dark brown, scattered edge fluorescence, LS: cream/brown to bronw, finexyln to microxyln with fine grain quartz grains.

LS: off white, mottled, coarsexyln, friable, LS: brown to dark brown, microxyln, very dense, LS: A.A.

Base Viola@ 4640-2817

Simpson Sand @ 4644-2821

SD.STN: light gray, fine grain, clusters, no show, friable, shalely in part, no fluorescence. SD. STN: light green gray, fine grain, poor intergranular porosity, Shale: green, SD. STN: fine grain, poorly sorted, subangular, friable, no show, slightly frosted grains.

SD.STN: Whiteish green to brownish/white, dark brown in part, fine grain, small amount of chlorite, dolomitic in part, subangular, no show

Shale: green, waxey, scattered pyrite

Shale: emerald green, waxey, scattered included sand stone grains, SD. STN: fine grain, subrounded, friable, chlorite, no show, clear grains in part

Arbuckle @ 4744-2921

Dolomite: tan, fine granular, poor intergranular porosity, no visable porosity, no show

Dolomite: tan/gray, very fine granular, dense no visable porosity.

Dolomite: tan, very fine granular, no visable porosity, no show. poor intergranular porosity

Dolomite: tan to cream/tan, very fine granular, dense, no visable porosity

RTD @ 4815