

WALSH 1 (15-153-05252) T: 1S R: 32W S: 15
Latitude: 39.9641287 Longitude: -100.8949634 Elevation (KB): 2956.0 Depth: 4525.0

Depth	Stratigraphic Units						Rock	Lithology	Grainsize	Results	Porosity	Remarks
	Members	Formations	Subgroup	Stage	Subsystem	Era	Color	Rock Column	Very Fine Fine Medium Coarse Very Coarse Congl.	Summary	Porosity	
2170		Dakota			Cretaceous							2170 Dakota 2185 2200 white & gray fine to coarse grain angular to 2200 2255 white & gray fine to coarse grain angular to sub-round & frosted friable pyritic sideritic sst broken & shaly
2270												2255 2296 white & gray fine to coarse grain angular to sub-round & frosted friable pyritic sideritic sst 2296 2370 pastel varicolored partly sandy clay & shale
2370		Morrison			Mesozoic							2370 2400 pastel varicolored partly sandy clay & shale with streaks light gray lithographic lst 2400 2420 pastel varicolored partly sandy clay & shale 2420 2495 pastel varicolored partly sandy clay & shale with nodules pink & light gray chalcedony
2470												2495 Permian Red Beds
2570												2570 2746 bright reddish brown silty sh
2670												
2770		Cimarron Anhydrite										2746 Cimarron Anhydrite
2870												2883 2895 reddish-brown & maroon sh w/ interbedded reddish brown siltstone with streaks anhydrite
2970												2895 2905 reddish brown 2905 2928 reddish-brown & maroon sh w/ interbedded reddish brown siltstone 2928 2945 reddish brown siltstone & light gray very fine grain sub-angular 2945 2959 reddish-brown & siltstone & light gray very fine grain sub-angular 2959 2982 reddish brown & maroon sh w/ interbedded reddish brown siltstone 2982 2990 reddish-brown & maroon sh w/ interbedded reddish brown siltstone 2990 3000 reddish brown 3000 3010 reddish brown 3010 3015 reddish-brown & maroon sh w/ interbedded reddish brown siltstone 3015 3032 reddish-brown & maroon sh w/ interbedded reddish brown siltstone 3032 3040 reddish-brown & maroon sh w/ interbedded reddish brown siltstone 3040 3045 reddish brown 3045 3050 reddish brown 3050 3055 reddish brown 3055 3062 reddish brown 3062 3075 reddish brown 3075 3080 reddish brown 3080 3085 reddish brown
3070												3123 3132 reddish brown 3132 3138 reddish brown & maroon slightly silty sh
3170												3190 3200 reddish brown 3200 3238 reddish brown & maroon sh
3270												3238 3262 reddish brown siltstone & light gray very fine grain sub-angular 3262 3321 reddish brown & maroon slightly silty sh
3370												3321 3333 white-gray dense to silty 3333 3360 reddish brown slightly sandy sh 3360 3390 reddish brown siltstone & fine grain shaly sub-angular sst 3390 3403 red sandy sh 3403 3413 white-gray fine 3420 3443 reddish brown sh
3470												3443 3495 light gray to buff dense to fine granular shaly impure thin bedded dolomitic lst 3495 3510 varicolored sh 3510 3532 gray & reddish-brown fine grain sub-angular micaceous friable sst 3532 3546 light gray to buff 3546 3560 varicolored sh 3567 3609 varicolored sandy limy sh
3570												3609 3611 gray dense lst 3625 3633 varicolored partly sandy sh 3633 3635 thin bed white to buff 3642 3648 thin bed white to buff 3658 3662 thin bed white to buff 3673 3677 thin bed white to buff 3690 3705 varicolored partly sandy sh 3705 3717 thin bed white to buff 3717 3725 varicolored partly sandy sh 3725 3727 thin bed white to buff
3770		Topeka Limestone										3750 3762 white-gray dense to silty 3762 3770 varicolored sandy sh 3770 3775 light gray to pink
3870		Hebner Shale										3798 3812 white dense to fine 3812 3830 white-gray dense to fine granular dolomitic lst 3830 3844 dark gray micaceous 3844 3858 spotty very dark or buff 3858 3861 varicolored sh 3878 3881 gray-buff very fine 3896 Lansing 3910 3913 varicolored slightly silty
3970												3947 3959 light gray dense to silty 3959 3963 varicolored sh 3980 3983 varicolored sh 3995 4005 varicolored limy sh 4005 4030 varicolored sh
4070												4030 4040 white-buff dense to silty 4040 4042 varicolored sh 4048 4070 varicolored sh 4070 4078 gray-buff fine 4078 4083 varicolored sh 4087 4095 varicolored limy sh 4095 4122 varicolored sh sandy in streaks 4122 4132 white dense to fine 4132 4136 varicolored sh 4157 4162 light gray dense to silty
4170												4190 4205 varicolored sh with brown lst nodules 4205 4210 light gray-buff 4227 4232 cream-buff dense 4248 4252 white dense to fine 4270 4272 white dense to fine 4278 4283 cream-gray dense lst 4310 4333 varicolored sh 4333 4337 light gray dense 4355 4358 lithographic lst
4370		Penn. Basal Congl										4380 Penn. Basal Congl 4395 4425 variegated sandy sh & clay hematite pyrite & specular 4425 4450 white-buff fine to very coarse grains angular to sub-rounded & frosted 4450 4470 variegated sandy sh & clay hematite pyrite & specular 4470 4480 white-buff fine to buff 4480 Arbuckle
4470												4510 4560 gray-buff to buff dense to coarse w/ sandy glauconitic
		Bonnetate Dolomite										

Primary Rock Lithology

Clay, Claystone

Shale

Silt, Siltstone

Sand, Sandstone

Limestone

Dolomite

Anhydrite

Secondary Rock Lithology

Clayey, Argillaceous, clayShaly, shaleSilty, SiltMicaceousSandy, sandCherty, chertGlauconite, GlauconiticPyritic, pyriteHematitic, hematiteooliticfossiliferousCalcareousDolomiticAnhydritic, anhydrite

Fossils

Fresh WaterBrackish WaterMarineMacrofossilsFewManyBroken

Sedimentary Structure Symbols

Depositional Structures

Bedding BaseAbrupt or sharp, planar base of bedStratification

Horizontal bedding

Deformational Structures

NodulesNodules - Carbonates

Porosity Type

IntergranularIntercrystallineVuggy

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Shale

Silt, Siltstone

Sand, Sandstone

Limestone

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