

COUNTY Wilson

STATE KS-

LOCATION 18-27s 15E

TYPE SAMPLE Air

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Porosity	Fluor	Stain	Odor
70	80		SHALE: med-gry v/sdy, v/slt, mic. firm				
80	90		DO				
90	100		DO sli less sdy.				
100	110		SHALE MED GRAY sdy v/slt mic v/soft.				
	20		DO				
	30		DO				
	40		SHALE; MED GRAY v/sdy, v/slt, mic w/carb stk, soft Tr Coal				
140	150		SHALE; Lt-med gray - v/slt, sdy, mic w/carb -stk, soft-				
150	60		SHALE; med gray - sly, sdy, mic, firm.				
	70		DO				
	80		DO				
	90		SHALE; Lt. gray - sly, mic, med firm.				
190	200		" " sli sly " "				
200	210		DO -				
	20		shale lt-med gray sly med firm.				
	30		LIMESTONE H gray fn-med xln sly - grad. i to Ben Crse xln v/less Clinoidal, v/foss. indy.				
	40		LIMESTONE; TAN-BRN - fn - med xln.				
240	250		LIMESTONE, Cream - med - Crse xln - tr DAS - lenth - 10% NO FLUOR - sli Col & Fluor w/ ECLY				
250	60		LIMESTONE HH - NO STN. NO FLUOR.				
	70		DO				
	80		SHALE med gray sly, mic, firm.				
	90		DO				
290	300		DO				
300	10		DO				
	20		DO				
	30		DO				
	40		DO				
	350		DO + 2' of LIMESTONE gray fn-med xln sly grad. i to LS Ben med Crse xln.				
550	60		LIMESTONE - H TAN-CREAM med - Crse xln - w/ some fn gray xln dolostone? scattered				
	70		DO				
	80		shale - med gray sly, mic. firm.				

COMPANY

FARM

Donohue

WELL NO. 1

1027±
ELEV. 1420

PAGE NO 2

COUNTY Wilson

STATE KS

LOCATION 18 - 27 1/2 15E

TYPE SAMPLE

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Porosity	Fluor	Stain	Od
380	390		shale - H. greenish gray to gray - shly, shly. mic w/ carb specks -				
390	400		do.				
400	10		do				
	20		do				
	30		do				
	40		do grading into LS - fine fxl shly w/ coarse xln fossil debris calcids				
	450		do & sh. silt - med gray				
450	60		shale - dk. med gray - shly - shelly				
	70		LIMESTONE, BRN med coarse xln. v/foss calcids Tr chert blue - brn mott, foss. Tr blk sh.				
	80		LIMESTONE white - coarse - med xln.				
	90		do.				
490	500		do				
500	10		Sandstone - gray v/fine - silt shly, mic hard, carb material along bed plane - NO STN NO FLUOR				
	20		SANDSTONE gray v/fine - fine - hard, mic - carb material - scattered along bed NO STN NO FLUOR -				
	30		SHALE - greenish gray - mic shly shly - firm				
	40		do - Tr coal - Tr red sh. - Tr LS - conc?				
510	550		SHALE - med - dk gray shly, mic w/ blk carb lam.				
	60		DO				
	70		SHALE - H - med gray v/shly mic - firm				
	80		DO - 4' of LIMESTONE, BRN dense - f - xln cherty - Benmott				
	90		LIMESTONE GR w/shale med gray calcid shly -				
590	600		LIMESTONE - TAN - dense - fine xln NO STN -				
600	10		" " fine - med fine xln NO FLUOR NO STN				
	20		DO.				
	30		DO w/ sm blk carb laminae				
	40		LIMESTONE - BRN dense - fine xln. spotty Benmott & calcids? NO Porosity - < 5%				
640	650		LIMESTONE - BRN, fine - med xln. poor por. some foss BRN oil. ! DEMO oil. Gold Fluor - good cont w/ CCL4				

COMPANY

FARM Donohue

WELL NO. 1

ELEV

PAGE NO 3

COUNTY WILSON

STATE Ks

LOCATION 18-27S 15E

TYPE SAMPLE

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Poro	Fluor	Stain	Odo
650	60		LIMESTONE BRN - fm - med xln Calcite xls - scattered per. NO STN NO FLUOR -				
	70		Limestone BRN fm - med fm xln. Tr Blk sh. NO STN - NO FLUOR -				
	80		Shale - SILTSTN - GRY hard mic w/silt sh & shly silt sh				
	90		TR COAL C690? LIMESTONE BRN DNSE NO POR NO STN				
690	700		LS AN 2' of? SHALE - DK GRY SHT w/occ shell debris.				
700	10		LIMESTONE - TAN-BRN DNSE - NO STN NO POR.				
	20		SHALE: Blk hard fissle occ calcite xls.				
	30		" DK-med GRY SHT, mic - firm				
	40		LIMESTONE - TAN and GRY dense FeS ₂ NO POR NO STN				
710	750		DO -				
750	60		SHALE - DK GRY - SHT - w/limy STKS -				
	70		LIMESTONE GRY SHT & LIMESTONE - BRN - dense - w/fossilifer				
	80		LIMESTONE - DK GRY BLK fac shly w/abd shell & fossil debris, scattered conc xls - calcite				
	90		SHALE: MED GRY w/DK GRY BLK - SHT - few CaPO ₄ xls -				
790	800		SHALE - med GRY sli sht, mic, firm				
800	10		" " " sli mic - firm.				
	20		SHALE: med GRY sht mic, abd carb stks - TR COAL -				
	30		DO				
	40		DO				
840	850		LIMESTONE BRN DNSE - TR COAL & underlying white -				
850	55	FINA 1807	LS AN 1' of? SHALE - med GRY sht firm				
	60	SHAS	SH AN 2' of? LIMESTONE BRN - med - cse xln.				
	65		SHALE - lt-med grayish GRY mic firm				
	70		do				
	75		LIMESTONE BRN - fm xln - sdy calcite				
	80		LIMESTONE BRN fm - dense				
	85		DO				
	90		DO & SHALE - lt grayish GRY - sli sht firm				

COMPANY

FARM Donohue

WELL NO. 1

ELEV

PAGE NO 4

COUNTY Wilson

STATE KS

LOCATION 18.27-15E

TYPE SAMPLE

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Poro	Fluor	Stain	Od
870	95		SANDSTONE lt grey v/fine-fn hard-tile NO STN NO FLUOR				
895	900		DO				
910	05		SILTSTONE lt grey mic, shly w/blk carb specks				
	10		Shale - med grey v/fine mic w/carb specks				
	15		DO				
	20		SILTSTONE lt grey v/fine - shaly. good to SS v/fine - shaly w/blk carb specks				
	25		SANDSTONE grey v/fine-fn shaly w/carb specks + Laminar				
	30		DO				
	35		DO sli calc				
	40		SILTSTONE lt grey shly mic much blk carb specks				
	45		DO				
945	950		SANDSTONE lt grey v/fine-fn - hard tile w/carb specks NO STN NO FLUOR				
950	55		DO				
	60		DO				
	65		SS - grey - white fine med fn clean. occ carb specks				
	70		DO fn - med - clean - R&F				
	75		SANDSTONE grey fn - med - well com hard - mic NO STN NO FLUOR				
	80		SANDSTONE grey med - fine loose - much blk carb material. shaly coaly				
	85		Coal blk & underlying white soft grading - to SHALE lt grey soft slick				
	90		LIMESTONE dk choc brn. fn xln - dense dirt				
	95		LIMESTONE tan - H brn dense - fn xln				
105	1000		DO				
1000	05		DO				
	10		DO 2.5' of & - SHALE med grey slick firm				
	15		LIMESTONE tan - brn. fn - dense - oil color spotted gold fluor. NO visible stn				
CO. 1019	1019		w/ sh cut w/ specks				
	20		Shale - med grey slick firm				
1025			Coal. P 1010 - Underlay of shale lt grey slick soft				

COUNTY

STATE

LOCATION

TYPE SAMPLE

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Poro	Fluor	Stain	Od
1025	1030		Siltstone lt. gray v/slightly dirty mic. Tr Limestone Ben dense.				
	35		Shale lt. gray soft slick				
	40		100 2' of thin Coal. Blk Underlay & LIMESTONE Ben-tan dense earthy				
	45		LIMESTONE TAN fn-dense - oil odor NO STN - NO FLUOR - NO CUT w/ECID OR HCL.				
	50		LIMESTONE DK Blk dense to lithographic NO POR				
	55		LIMESTONE - DK Blk - DGRY fn - earthy grading to shale. dk gray.				
	60		Shale - Blk smoky hard.				
	65		LIMESTONE - Blk fn - med-fn. earthy				sdly-
	70		" " " " dense-fn earthy less.				
	75		LIMESTONE DK gray fn. thin. less earthy to shly grad. to shale TR COAL-				
	80		shale lt. gray (underlay?) & sh med-blk gray				
	85		sh - AA - Limestone Ben dense & SS - gray v/fn fn dirty much carb material spotted w/old fluor. less than 5%				
	90		SANDSTONE Ben v/fn-med fn. dirt, consid Blk carb material. DK Ben oil stain. NO Fluor - good cut w/ECID Tr DK Ben free oil - fair odor				
	95		SS MH 2' grading to v/fn fn v/dirty shly SS. & shale lt. grayish green.				
1045	1100		shale. dk gray v/sdly shly mic. much carb material. grad. into SS - v/fn - med. v/dirty, shaly. DO S - NO FLUOR.				
1100	1105		shale dk gray v/sdly v/mic. much Blk Carbonaceous material, esp glau - bedding planes - few SS laminae				
1105	1110		shale AA				
	15		do				

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Poro	Fluor	Stain	Oc
1115	1120		SANDSTONE & SHALE laminated. ss dk grey v/fn-med-v/dirty shly-w/ much blk carb mat. Sh. DK grey v/sdy w/mic much carb mat. NO STN - NO FLUOR.				
	25		SHALE - dk grey v/shty, sdy-mic. w/ carb spts firm				
	30		SHALE dk med grey v/shty - sdy - mic. firm				
	35		SHALE AA w/ occ thin ss lam.				
	40		SHALE DK grey shty mic fishb firm.				
	1145		DO 2' of LIMESTONE blk v/fss - shly dirt, Tr coal-				
1145	1150		shale - H-med grey soft slick Underlay?				
1150	55		shale med grey slick firm				
	60		shale AA w/ LS sht. - Brn base 2 1/2' of?				
	65		LS Brn base 2' of? Coal 12' blk & Underlay white- soft + blk shale hard fiss				
	70		shale lt grey soft slick 2 1/2' of Limestone a br tan - fn - matrn.				
	75		SILTSTONE H grey v/hard - shly - w/ siderite shat				
	80		SHALE med - lt grey v/shty - fishb firm.				
	85		" med - dk grey shty mic firm.				
	90		DO				
	95		DO & COAL blk puritic. Tr Underlay lt gen.				
1195	1200		SHALE lt greenish grey slick firm				
1200	05		DO w/ TR COAL & white Underlay -				
	10		DO TR COAL (from above)? sh becoming sdy				
	15		SHALE lt-med greenish grey shty mic firm.				
	20		" med - dk grey slick firm.				
	25		DO				
	30		DO becoming darker Tr LS & Brn foss, fossils.				
	35		COAL blk puritic & 2' of				
			SHALE dk grey v/shty v/mic & carb				
	40		SHALE AA gradin to SANDSTONE v/fn - fn shly dirty v/carb. NO STN NO FLUOR				
	45		SHALE dk grey v/shty, mic firm.				
1245	1250		" " " - blk slick hard fishb.				

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-GOOD	
From	To			Poro	Fluor	Stain	OC
1250	1235		SHALE DK grey-BLK w/ blk of LIMESTONE DK Bm v/fine carb				
	60		SHALE BLK hard fissle sli mic				
	65		COAL - 1' of w/ H grey underlay thin - SILTSTONE - H. grey v/dirty - shly -				
	70		SILTSTONE H. grey shly - mic hard				
	75		SHALE - med-DK grey sli shly - mic firm				
	80		DO w/ coal stka -				
	85		SHALE med-DK grey v/sly v/mic				
	90		DO & COAL near 85' w/ underlay white H grey soft - shly				
			SHALE - med grey slick firm				
	95		SHALE: med grey sly mic firm				
1295	1300		DO				
	1300		DO abundant coal - Carb plant remains				
	10		DO				
	15		DO				
	20		SHALE: H - med variegated slick soft abd plant remains				
	25		SHALE DK grey slick firm fissle				
	30		DO				
	35		SHALE DK grey-BLK sli shly				
	40		DO - tr LS tan-dine and tr sils v/fine clay - probably on thin laminae				
	45		SHALE - DK grey-BLK sly mic, Fe ₂ tr Coal				
1345	1350		DO w/ stka Bm v/sly sh				
	55		DO: stks blk v/sly sh & COAL				
	60		COAL - 1 soft slick. greyish Tan underlay				
	65		SH underlay AA sli sdy				
	70		SHALE - CLAY H grey & blk variegated soft slick				
	75		SHALE - DK grey sly mic firm fissle				
	80		DO & SHALE - CLAYSTONE H. greyish grey soft slick -				
	85		SHALE - DK grey sli shly firm -				
	90		DO				
	95		DO & SANDSTONE v/fine-fine v/dirty shly v/med blk carb med med - NO STK NO FLUOR				
1375	1380		SHALE - CLAYSTONE H. grey soft slick w/ blk SH, sh stka -				

DEPTH		Lithology	Description	TR-Trace F-Fair		P-Poor G-Good	
From	To			Poro	Fluor	Stain	Occ
1400	1405		SH BK hard fissile				
	10		SH AA 1' of ss - 1/4 tan v. fine 2' of chert white				
			SPOR of P. louse Pipe trace spec. on pit -				
			CO @ 1220 hrs - 1412' 10 min				
1410	1412		Claystone tan, white chert & TR Limestone - BRN. med. xln.				
			TOP MISSISSIPPIAN 1411 (-384)				
1412	1413		Limestone BRN-tan fine med. xln.				
1413	1415		" " " NO STAIN - NO FLUOR				
			CO @ 1235 hrs - @ 1415' 10 min				
1415	1420		Limestone tan-cream dense to fine xln w/ chert 10% white.				
			CO @ 12 45 hrs - 10 min				
	1420		Limestone tan-cream dense to fine xln oolitic NO STAIN NO FLUOR NO CHERT				
1420	25		Limestone tan-cream dense - fine xln NO STAIN NO FLUOR - chert 5% white				
	30		Dolomite BRN. fine xln. non cherty NO SKIN				
	35		Small Sol. nodules - Por Sp. BK Sh. Crystalline Sclerites				
	40		" " " Cavities? MA TR Dolomite				
	45		TR Dol. Limestone tan-dense - fine xln. NO SKIN cherty 50% white Sm & Br to xln.				
	50		Limestone tan - fine med. xln. NO SKIN				
	55		" " " Dense - fine xln - chert 20% white NO SKIN				
	60		" " " fine xln - chert 15% NO SKIN				
	65		Limestone tan, dense; chert 90% white smooth				
	70		Sandstone white v. fine - hard tile almost a Quartzite. NO SKIN				
	75		Limestone - BRN med. oolitic glauc. NO SKIN				
	80		LS MA w/ free oolites -				
	85		Limestone BRN. med. med. xln glauc. chert 10% white NO SKIN				
	90		LS MA to LS BRN Dense.				
	95		LS BRN Dense. chert 50% white NO SKIN				
1495	CO		LS BRN Dense chert 40% white smooth				