



ELEVATION: KB 3112  
 GR. 3107  
 MEASURED FROM KB

OPERATOR: Russell Oil, Inc. LOCATION: 2310FS & 1358FE  
 LEASE: Edwards Trust "E" Well No: #26-1 SEC: 26 TWP: 15S RNG: 35W  
 API: 15-109-21497 FIELD: Wildcat COUNTY: Logan STATE: Kansas

WELL NO: 26-1 SURFACE: 8.5/8' set at 338 W/250.0 sk  
 LOCATION: 2310FS & 1358FE PRODUCTION: 4 1/2' set at 4722' W/200.0 sk  
 SEC: 26 TWP: 15S RNG: 35W DR TOOL: 2445 W/412.5X

CONTRACTOR: WV Drilling Bar #10  
 ANHYDRITE 2426 (+686) COMD: 4-25-2017 COLLR: 5-10-2017  
 B/ANHYDRITE 2446 (+666) LTD: 4736 COLP: 4736  
 Heebner 3922 (-790) SHAPLESS SAVED FROM: 3400 TO TD  
 TORONTO 3972 (-810) SHAPLESS SAVED FROM: 3400 TO TD  
 LANSING 3982 (-840) SHAPLESS SAVED FROM: 3400 TO TD  
 STARK 4210 (-1098) GEOLOGICAL SUPERVISION FROM: 3850 TO TD  
 B/KC 4298 (-1186) MUD UP: 3427 MUD TYPE: CRITICAL  
 Marmaton 4345 (-1233) MUDCO - REID AKERS  
 Pawnee 4438 (-1326) DRILL STEM TESTS TAKEN: 3  
 Cherokee 4515 (-1403) TRIBOITE - JAMES WINNER  
 MISSISSIPPIAN 4678 (-1566) SURVERS: Geonni Wittnebe, LLC  
 R/D 4736 (-1624) COMPENSATED DENSITY NEUTRON  
 TD 4736 (-1624) MICRORESISTIVITY

## LEGEND

DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of penetration increases 5" 10" 15" 20"	SAMPLE DESCRIPTIONS	REMARKS
2450		<b>Anhydrite</b>	EL 2426 (+686)
		<b>B/Anhydrite</b>	EL 2446 (+666)
3600		Sh, gry, green, maroon LS, crm fn xln v. fossil gd fossilcast poro barren NSNO LS, AA Sh, gry & green LS, crm fn xln sli fossil pr visible poro dense NSNO LS, AA; dense Sh, gry & green <b>Topeka</b> LS, crm fn xln fossil pr, fr interpart poro; subchaly NSNO Sh, lt gry & green LS, crm-tan fn xln fossil mealy; pr interpart poro NSNO LS, crm-gry fn xln sli fossil pr interpart poro NSNO LS, crm fn xln sli fossil pr interpart poro; mealy; subchaly NSNO Sh, dk gry & maroon Sh, gry & green LS, tan fn xln v. fossil pr interpart poro; dense NSNO LS, crm-tan fn xln fossil pr interpart poro NSNO Sh, dk gry LS, crm fn xln fossil pr interpart poro barren NSNO; sc wht angular chert Sh, blk carbonaceous LS, crm-tan fn xln fossil pr visible poro; blocky NSNO LS, AA w/ wht fossil chert Sh, dk gry, blk, maroon LS, crm fn xln v. oolitic w/dk inclusions pr-fr interpart poro NSNO LS, crm fn xln sli fossil; col pieces quest edge stn; NSFO ho odor Sh, maroon & dk gry; smpls washing red <b>Mudco Mud Check @3870</b> Vis 68 Wt 8.8 WL 6.8 LCM 1.5# Chlor: 3,000	
3700		Sh, gry & maroon LS, crm-wht fn xln sli fossil pr interpart poro; few pieces; lt brwn saty edge stn; NSFO -- rare hvy tarfy bds oil; no odor Sh, gry, green & maroon LS, crm-gry fn xln fossil w/dk inclusions pr interpart poro subchaly NSNO sc pieces gry chert LS, crm-wht fn xln sli fossil pr interpart poro NSNO sc tan chert	
3900		<b>Heebner</b>	EL 3902 (-790)
		Sh, blk carbonaceous Sh, gry, green & maroon	
		<b>Toronto</b>	EL 3922 (-810)
		LS, crm fn xln fossil; dolomitic pr-fr pinpoint poro; few pieces lt med brwn edge to subsat stn; S-FSO -- pinpoint bds FO on brk; fr gassy odor; sli yellow flur LS, crm fn xln fossil pr vis poro; dense NSNO	
		<b>Lansing</b>	EL 3952 (-840)
		Sh, gry, green, maroon LS, crm fn xln sli fossil pr interpart poro NSNO sc pieces wht angular chert LS, crm fn xln v. fossil pr-fr interpart poro barren NSNO LS, AA Sh, gry, green, maroon <b>"C"</b> LS, crm-tan fn xln fossil pr interpart poro barren NSNO abun pieces mushy wht chalk LS, crm fn xln fossil dense pr interpart poro; NSNO abun pieces mushy wht chalk <b>"D"</b> LS, crm fn xln pr visible poro dense NSNO sc pieces wht & gry chert LS, crm AA LS, crm fn xln pr visible poro NSNO sc pieces wht chert <b>"E"</b> Sh, blk carbonaceous LS, crm-tan-brwn fn xln v. fossil sli oolastic; pr-fr interpart poro few pieces; med brwn edge stn; VSSFO on brk; sli odor <b>"F"</b> LS, crm fn xln fossil & ool; pr interpart poro; barren NSNO abun pieces gry angular chert <b>"G"</b> Sh, dk gry, green, maroon LS, crm fn xln v. oolastic pr interpart poro; barren NSNO LS, crm fn xln fossil pr interpart poro; barren NSNO LS, crm fn xln pr visible poro; dense NSNO sc wht & gry chert LS, crm fn xln lg vugular poro; dense NSNO sc wht chert	
4100		<b>Muncie Crk</b>	EL 4123 (-1011)
		Sh, dk gry, green, maroon Sh, blk carbonaceous <b>"H"</b> LS, crm fn xln v. fossil & ool pr-fr interpart poro barren subchaly NSNO LS, crm-tan fn xln fossil pr interpart poro barren sm pieces wht chalk NSNO Sh, blk carbonaceous Sh, gry, green, maroon LS, crm-tan fn xln sli fossil mostly dense; pr interpart poro; NSFO; no odor LS, crm-wht fn xln sli fossil pr visible poro dense NSNO Sh, dk gry, green, maroon <b>"I"</b> LS, crm-wht fn xln fossil; v oolitic; fr vugular poro; gd amt med brwn subsat-sat stn HLS; no odor; sm bds twy FO; S-F; odor; gd yellow fluid; milky cut Sh, blk carbonaceous <b>"K"</b> Sh, gry, green, maroon LS, crm fn xln v. fossil w/dk inclusions pr interpart poro dense NSNO LS, crm fn xln fossil & ool pr interpart poro NSNO sc pieces wht chalk LS, crm fn xln fossil & ool pr interpart poro subchaly NSNO LS, crm fn xln sli fossil pr interpart poro dense NSNO	
4200		<b>Stark</b>	EL 4210 (-1098)
		Sh, blk carbonaceous <b>"L"</b> Sh, blk carbonaceous <b>"M"</b> LS, crm-tan fn xln fossil mottled ool pr-fr interpart poro; barren NSNO sc pieces wht chalk LS, crm-gry fn xln oolitic pr interpart poro NSNO LS, crm-gry fn xln oolitic pr interpart poro chaly NSNO <b>B/KC</b> Sh, dk gry & green	
4300		<b>Pleasanton</b>	EL 4261 (-1149)
		LS, crm-gry fn xln fossil & ool pr interpart poro; v. chaly NSNO Sh, dk gry & maroon Sh, dk gry & maroon; many pieces soy LS LS, AA	
4400		<b>Marmaton</b>	EL 4298 (-1186)
		LS, tan fn xln v. ool v. dense pr visible poro; NSNO LS, crm fn xln ool v. dense pr visible poro; NSNO LS, crm fn xln fossil; v. ool pelletoid; sm oolastic poro; fr interpart poro; predom barren; 2-3 pieces lt quest stn; NSFO -- no odor; sli yellow flur; no cut Sh, dk gry & maroon LS, crm fn xln dolomitic; v. oolitic; fr vugular poro; pr FR interpart poro; gd med brwn sat stn; S-FSO -- sm bds FO; sli odor; gd yellow fluid; milky cut	
		<b>Alt "A"</b>	EL 4345 (-1233)
		Sh, dk gry & green <b>Alt "B"</b> Sh, dk gry & maroon <b>Alt "C"</b> Sh, dk gry & green LS, crm-gry fn xln oolitic pr interpart poro NSNO abun pieces wht chalk LS, crm fn xln pr interpart poro NSNO suchaly; dense Sh, blk carbonaceous Sh, dk gry, green, maroon	
		<b>Pawnee</b>	EL 4438 (-1326)
		LS, crm-tan fn xln ool-subool rare pelletoid; sm frac poro; 2-3 pieces oolitic prwn subsat stn pr trav; VSSFO; no odor sli yellow fluid; milky cut LS, crm fn xln oolitic; dense; pr interpart poro; NSNO	
		<b>Myrick Sta</b>	EL 4367 (-1355)
		Sh, blk carbonaceous LS, crm-tan-brwn fn xln fossil pr-fr interpart NSNO Sh, blk carbonaceous	
		<b>Fort Scott</b>	EL 4488 (-1376)
		LS, crm-tan fn xln dolomitic; oolitic; fr vugular poro; fr pinpoint poro; gd med brwn sat stn; S-FSO -- sm bds FO; sli odor; sli yellow fluid; milky cut LS, crm-gry fn xln fossil pr visible poro NSNO Sh, blk carbonaceous Sh, crm-gry xln v. oolitic pelletoid; fr interpart poro NSFO; no odor LS, crm-tan fn xln oolitic pr-fr interpart poro; mealy NSNO Sh, blk carbonaceous Sh, gry, green, maroon Sh, blk carbonaceous Sh, gry, green, maroon LS, crm fn xln sli fossil mostly pr visible poro; dense NSNO	
4500		<b>Cherokee</b>	EL 4515 (-1403)
		Sh, gry & maroon LS, crm-tan-brwn fn xln sli dolomitic; fr vugular poro; sm secondary crystalline growth; rare pieces lt brwn spty stn; VSSFO -- few pinpoint bds FO on brk; ho odor Sh, gry, green, maroon LS, tan-crm fn xln sli fossil pr interpart poro NSNO LS, crm-tan fn xln sli fossil pr interpart poro blocky NSNO LS, crm-tan fn xln fossil pr interpart poro blocky NSNO sc tan chert Sh, gry, green, maroon LS, tan fn xln fossil pr interpart poro NSNO LS, AA	
		<b>Morrow Sh</b>	EL 4624 (-1512)
		Sh, gry, green, maroon Sh, dk gry & bright green; silty Sh, gry, green, red, maroon; pyritic; silty Sh, gry & green; flood kelly gr	
		<b>Mississippian</b>	EL 4678 (-1566)
		LS, wht fn xln dense pr visible poro; v. sandy NSNO LS, wht fn xln sandy; sm fn-med embedded clusters barren NSNO LS, wht fn xln sandy dense pr visible poro NSNO LS, wht fn xln sandy matrix dense pr visible poro; NSNO LS, AA LS, tan fn xln pr visible poro; sandy; NSNO	
4700			
4800			