

Ind

Geologist Report
Rosehill 2-6

2310 FSL & 330 FEL
Section 6, T16S, R24E
Miami County, Kansas
API# 15-121-28470-0000
Elevation: 999' GL
Driller: Osborn Energy, LLC
Spud: July 13, 2007
Production Bore Hole: 9 7/8"
Rotary Drill Depth: 616' July 18, 2007
Geologist: Jeff Taylor

Formation	Driller Top	Datum	Log Top
Stark Shale	251	748	247
Hushpuckney Shale	281	718	275
Base Kansas City	301	698	284
Upper Knobtown	311	688	298
Carbonaceous Zone in Tacket	405 approx	594	
South Mound	452	547	444
Mulberry			481
Lexington (Anna Shale)	526	473	528
Summit Shale	578	421	
Mulky Shale/Coal	594	405	
Rotary Drill Depth	616	383	

Drilling at 9AM July 16, 2007 start samples at 201' Background gas at 201' 11.6 units

201-211: LS, white, tan, occ gray, fossiliferous BG 9 units

211-221; Sh, gray gummy w/ snd, slt, & LS inclusions BG 7 units

221-231: LS gy, dk gy, fossiliferous Shale: gy gummy, foss, occ sndy

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231-241: LS; wh tan marley LS; gy shaley, SH dk gy, firm BG 5 units

241-251: LS; wh tan, hard, Sh; dk gy, firm SH; black fissil w/ very slight gas Top Stark Formation at 251. Gas Kick 6 units above background.

251-261: SH, Black, carbonaceous, fissil, silty, SH; gy, lt gy w/ blk sh, lime and ss inclusions, sme gy LS some slight bubbling gas from samples

GAS TEST @ 266' SLIGHT BLOW, TOO SMALL TO MEASURE

261-271: LS; gy, tn, white, foss BG gas 27 units

271-281: LS; wh, tn, gy, foss, sme mica, sme pyrite

281-291: SH, blk, carb, fissil to blocky, slty, very sligh gas bubbles, no gas kick BG @ 27 units LS, wh, tn gy, foss, mica pyrite Top Hushpuckney @ 281'

GAS TEST @ 291' SLIGHT BLOW, TOO SMALL TO MEASURE

291-301: LS; wh, tn, hard multiple inclusions Reset BG Gas to 20 units

301-311: SH; light gy, sh conglomerate w/ foss, snd, ls Top BKC 301 BG 15 units

311-321: LS; gy, sandstone gy, mica, pyrite some very slight free oil on samples

321-331: SH, gy, abund inclusions of ls & snd almost conglomerate

331-341: SS, gy, w/ mica & mica laminations, sme occ carb layers. SHUT DOWN Rig for overheating @ 12:40. BG 8 units.

7/18/07 Back to bottome start drilling at 6:15 BG Gas at 22 units

341-351: SS; gy, mica, very slight oil stn, LS; gy, tn

351-361: SS; gy, dk gy, mica, abund pyrite grading to gy laminated sltst BG 22

361-371: SS a/a

371-381: SS; lt gy-clean, abund mica BG 22 units

381-391: SH; gy, gummy

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391-401: SH, gy SS gy, lam, mica BG 22

401-411 SH; blk COAL; blocky gassy probably less than 1 foot thick; SH gy w/ Ss and sltst, no gas kick BG 21 units

GAS TEST @ 416' 0 UNITS

411-421: SS; gy, lt gy, mica, nsfoc, well cemented, firm BG 20 units

421-431: SS; gy, lt gy, mica, SS brn, occ slight Oil stain, LS; brn, hard BG 20 units

431-441: SS; by, brn, sltst gy, LS sndy, brn, LS hard brn, SH; gy BG 20 units

441-451: SH, gy slty, carb laminations, mica BG 20 units

451-461 SH, black slty carb w/ slight to moderate gas breaking out of samples, fissil, LS gy, tn, foss TOTAL GAS Kick 7 units over background to 27 units.

GAS TEST @ 458' Slight blow, too small to measure

461-471: SH, LS, fossiliferous

471-481: SH; red, SH, gy; SS, wh, lt gy BG 23 units

481-491: LS wh, tan, foss

491-501: LS, tn, brn, foss, occ Dol Rhomb, occ carb BG 25 units

501-511: SH; gy, lt gy, marly, LS inc, LS gy, tn foss

511-521: LS, gy, tn hard BG 25 units

521-531: LS; gy, tn, SS gy, mica

531-541: SH, black, carbonaceous, slight gas in samples, slty LS gy, tan Top Lexington 536'

GAS TEST @ 541' 16,000 SCF

541-551: LS, gy, tan Conn Gas @ 541' 80 units over BG BG 33 units

551-561: LS, gy, tan, brn BG 33 units

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561-571: LS gy, tn, lt brn, SH gy slty w/ black car layers CG 54 units @ 566' BG 33

571-581: LS; gy tan TOP SUMMIT at 578' Black, fissil, slity sh w/ mod to slight gas bubbles from samples, slight kick on TGA. Increase to 45 BG 37

581-591: SH Black a/a sh gy w/ ls and carb inclusions LS wh-gy hard BG 36 units

GAS TEST @ 591' 22,000 AND INCREASE OF 6000

591-601: SH, black carb, fissil, slight gas in samples no coal, LS gy Gas kick to 55 units 17 over BG.

601-611; LS gy, sh gy and black BG 50 units

611-616: LS, gy, brn, Sh gy, dk gy BG 39 units

GAS TEST @ 616' TEST STEADY AT 32,000 SURGING TO 41,000

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