

Geological Report

15-121-28125-0000

ORIGINAL

Someday #11-13

330 FNL, 330 FWL

NW NW NW

Section 13-T16S-R24E

Miami Co., Kansas

API#15-121-~~27680~~ 28125-00-00 KCC with 3/6/06

Elevation:

Drilling Contractor: Glaze Drilling (Lic. #5885)

Spud: 11/30/05

Surface: 11 1/4" bore hole, set 20' of 10 1/4" csg cmt'd w/ 5 sx

Production Bore Hole: 9 1/2"

Drilling Fluid: air

Rotary Total Depth: 580' on 12/01/05

E-Log Total Depth: No Open Hole Run

Production Csg.: 7"

Geologists: Jeff Taylor, Meredith Pearce

13-16-243

Formation	Driller Log Tops	Datum
Stark Shale	170'	
Hushpuckney Shale	197'	
Base Kansas City	215'	
"Upper" Knobtown Sand	No call	
"Middle" Knobtown Sand	No call	
"Lower" Knobtown Sand	No call	
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	No call	
South Mound Zone	390'	
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	No call	
Myrick Station	442'	
Anna Shale (Lexington Coal Zone)	444'	
Peru Sand	No call	
Summit Shale Zone	490'	
Mulky Coal/Shale Zone	514'	
Squirrel Sand	536'	
Bevier Zone	No call	
Rotary Total Depth	580'	

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Drilling at 140' in the Kansas City at 1:09pm on 11/30/05 (Jeff Taylor)

No gas kicks prior to this

Background Gas 8.3 units

140-150 LS; gray hard calcite in fractures

150-160 LS; tan lt brown, hard calcite in fractures

BG 8.4 68 unit kick in black shale at 175'

160-170 LS; white, gray, tan hard, sand in places

170-172; Shale black sandy firm 60 unit gas kick above bg

172-180; LS gray-tan, sandy some SS gy no gas in the samples

Cg @180 230tga

Bg @ 184 64 @194 60tga

ORIGINAL

STARK SHALE driller called at 198' 77units only 16 over bg tga.

Driller reports water increase at Stark as noticeable.

180-190 LS; gy hard

190-198 LS gray, brown hard

198-200 Shale, black STARK 16 unit kick over bg on tga

CG @200 303 units bg 61 units tga

210 bg 60 units

220 bg 56

200-210 Sh gy

210-220 LS, gy - SH, blk

HUSHPUCKNEY SHALE driller called at 215'

Driller reports slight water inc. at Hushpuckney

220-230 SH, gy

230-244 aa

240-250 aa

250-260 aa

260-270 aa

280-290 aa

290-300 aa

300 sh dg gy

Resume drilling 12/01/05 at 9:15am (Meredith Pearce)

CG @300 70 units, 28 BG

300-310 SH: gy

310-320 SH: gy

CG @320 46 units, 10 BG

320-330 SH: gy, silty

330-340 SH: gy, silty

CG @340 46 units, 10 BG

340-350 SH: gy, silty

350-360 SH: gy, silty

CG @360 36 units, 10 BG

360-370 SH: gy, silty

370-380 SH: gy, silty

CG @380 39 units, 7 BG

380-390 SH: gy, silty

390-400 SH: blk

SOUTH MOUND ZONE driller called @390-392'

Driller reports slight water inc. at South Mound

****GAS TEST @400', 8 MCF****

CG @400 214 units, 10 BG

400-410 SH: gy

410-420 SH: gy, TR LS, gy

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CG @420 464 units, 260 BG
420-430 LS: gy, tan
430-440 LS: gy - SH: blk
CG @440 940 units, 240 BG
440-450 LS: gy, Lt. tan - SH: blk

LEXINGTON COAL ZONE driller called @444-446', kick 376 units (136 over BG)
Driller reports slight water inc. at Lexington

450-460 LS: gy, TR SH, gy

****GAS TEST @460', inc. 8 MCF, Total 16 MCF****

CG @460 1212 units, 468 BG

460-470 SH: gy - LS: gy

470-480 SH: gy - LS: tan, gy

CG @480 1092 units, 376 BG

480-490 SH: blk, gy

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SUMMIT SHALE ZONE driller called @490-492', kick 560 units (44 over BG)

****GAS TEST @490', inc 6 MCF, Total 22 MCF****

490-500 SH: blk

CG @500 1844 units, 536 BG

500-510 SH: blk, gy

510-520 SH: blk, slight gas pops

MULKY COAL/SHALE ZONE driller called @514-530', kick 1488 units (528 over BG)

****GAS TEST @520', no inc., Total 22 MCF****

520-530 SH: blk

530-540 SS: gy, white, slight gas pops - SH: blk

SQUIRL SAND driller called @536'

540-550 SS: gy, white

550-560 SS: gy, white

560-570 SS: gy, v. slight gas pops

570-580 SS: gy - SH: blk, TR LS, gy

TD @580' at 2:30pm

Final BG 336 units

Brief Summary

Stark	No open flow
Hushpuckney	No open flow
South Mound	8 MCF
Mulberry(s)	No increase
Lexington	8 MCF
Summit	6 MCF
Mulkey	No increase
<u>Total</u>	<u>22 MCF</u>

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