

Geological Report

Mazza #4-16
SE SE NW

2310 FNL, 2310 FWL
 Section 16-T16S-R25E
 Miami Co., Kansas
 API# 15-121-28188
 Elevation: 1041' GL
 Drilling Contractor: Glaze Drilling (Lic. #5885)
 Spud: 04-14-06
 Production Bore Hole: 9 3/4"
 Rotary Total Depth: 580' on 04-17-06
 Drilling Fluid: air
 Production Csg.: 7"
 Geologist: Meredith Pearce

16-16-25-E

| <u>Formation</u> | <u>Driller Log Tops</u> | <u>Datum</u> |
|----------------------------------|-------------------------|--------------|
| Stark Shale | 176' | 865' |
| Hushpuckney Shale | 205' | 836' |
| Base Kansas City | 221' | 820' |
| Knobtown Sand | 248' | 793' |
| Carbonaceous Zone in Tacket Fm. | No call | |
| "Big Lake" Sand | No call | |
| South Mound Zone | 378' | 663' |
| Hepler (Wayside) Sand | No call | |
| "Upper" Mulberry Zone | No call | |
| Mulberry Zone | No call | |
| Weiser Sand | No call | |
| Myrick Station | 455' | 586' |
| Anna Shale (Lexington Coal Zone) | 459' | 582' |
| Peru Sand | No call | |
| Summit Shale Zone | 499' | 542' |
| Mulky Coal/Shale Zone | 524' | 517' |
| Squirrel Sand | 529' | 512' |
| Rotary Total Depth | 580' | |

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Drilling at 160' in the Kansas City on 04-14-06
Background Gas (BG) 11 units
160-170 LS: tan, gy, brn, calcite in fractures

STARK FORMATION driller called @176-178', no gas kick with this

****GAS TEST @180', No Open Flow****

170-180 SH: dark gy, blk w/free gas, gy, TR LS: tan, gy
CG @180 12 units
180-190 SH: gy, silty - LS: tan, brn, calcite in fractures
190-200 LS: tan, brn, calcite in fractures, occ oil
CG @200 12 units

HUSHPUCKNEY SHALE driller called @205-206', kick to 13 units, 2 over BG

****GAS TEST @220', No Open Flow****

200-210 LS: tan, calcite in fracs - SH: dark gy, gy, blk w/free gas
210-220 LS: tan, gy, calcite in fracs, fossiliferous in part - SH: gy
CG @220 12 units
220-230 SH: gy, Lt gy, silty, TR pyritic - LS: tan, gy, calcite in fracs
230-240 SH: gy, silty, TR pyritic
CG @240 12 units

KNOBTOWN SAND driller called @248-252', no gas kick with this

240-250 SH: gy, sandy - SS: clear, brn, angular
250-260 SH: gy, sandy - SS: clear, brn, angular
CG @260 12 units
260-270 SH: gy, sandy in places
270-280 SH: gy
CG @280 12 units
280-290 SH: gy
290-300 SH: gy
CG @300 12 units
300-310 SH: gy
310-320 SH: gy
CG @320 12 units

"BIG LAKE" SAND driller not called, gas kick to 13 units, 1 over BG

320-330 SH: gy, sandy, TR SS: clear, gy, angular
330-340 SH: gy, sandy in places
CG @340 12 units
340-350 SH: gy, sandy in places, TR LS: brn
350-360 SH: gy
CG @360 12 units
360-370 SH: gy

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SOUTH MOUND ZONE driller called @378-379', gas kick to 14 units, 2 over BG

****GAS TEST @380', 22 MCF****

370-380 SH: gy, dark gy, blk, slight free gas
Drilling stopped @380' at 5:30pm

Resumed drilling on 04-17-06 at 9am

****MORNING GAS TEST @380', No Open Flow****

CG @380 226 units, 60 BG
Gas kick to 86 units, 2 over BG
380-390 SH: gy, sandy in places, TR LS: tan, calcite in fractures
390-400 SH: gy, sandy in places
CG @400 298 units, 64 BG

400-410 SH: gy
Gas kick to 132 units, 70 over BG
410-420 LS: brn, tan, calcite in fractures - SH: gy
****GAS TEST @420', Too Small to Measure****
CG @420 674 units, 137 BG
420-430 LS: brn, tan, calcite in fractures - SH: gy, dark gy
Gas kick to 232 units, 63 over BG
430-440 LS: brn, tan, calcite in fractures - SH: gy, sandy
CG @440 576 units, 192 BG
440-450 SH: gy, sandy in places

LEXINGTON COAL ZONE driller called @459-461', kick to 1572 units, 1388 over BG
****GAS TEST @460', inc. to 150 MCF Total****
450-460 LS: brn, calcite in fractures - SH: dark gy, blk w/lots of free gas, gy
CG @460 1104 units, 120 BG
Gas kick to 1254 units, 150 over BG
460-470 SH: dark gy, gy, sandy, blk, coaly w/lots of free gas, pyritic in part
470-480 SH: gy - LS: gy, tan
****GAS TEST @480', inc. 51 MCF to 201 MCF Total****
CG @480 875 units, 60 BG
480-490 LS: tan, calcite in fractures - SH: gy

SUMMIT SHALE ZONE driller called @499-500', kick to 945 units, 87 over BG
****GAS TEST @500', No increase****
490-500 SH: dark gy, gy, blk, TR pyrite
CG @500 1364 units, 334 BG
500-510 LS: tan, gy, brn, calcite in fractures - SH: gy
510-520 SH: gy, dark gy, TR pyrite - LS: tan, brn, calcite in fractures

MULKY COAL/SHALE ZONE driller called @524-529', kick to 1180 units, 138 over BG
****GAS TEST @540', No Increase**** driller reports making water
520-530 SH: blk, coaly, free gas, dark gy
530-540 SH: gy, sandy, blk, coaly w/free gas, TR pyrite
CG @540 1378 units, 936 BG

SQUIRREL SAND driller called @529-533, and @544'+, no kick with this
540-550 SH: gy, sandy - SS: clear, gy, angular, mica
550-560 SS: clear, brn, gy, angular, mica
CG @560 924 units, 896 BG
560-570 SS: clear, brn, angular, mica
570-580 SS: clear, brn, angular, mica

Total Rotary Depth, 580' at 1:30pm
****GAS TEST @580', No Increase****

Brief Summary

| | |
|---------------|--------------|
| Stark | No open flow |
| Hushpuckney | No open flow |
| South Mound | 22 MCF |
| Lexington | 201 MCF |
| Summit | No increase |
| Mulky | No increase |
| Squirrel Sand | No increase |
| Total | 223 MCF |

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Glaze Drilling Company

22139 S. Victoria Rd.
Spring Hill K.S. 66083
Phone (913) 592-2033
Fax (913) 592-2448
glazedrilling@aol.com

CUSTOMER OSBORN ENERGY
LEASE NAME Marza
WELL NUMBER 4-1
SPUD DATE 4-14-06
SURFACE SIZE 10" HOLE SIZE 9 3/4"

WELL LOG

| | | | |
|----|-----------|-----|-------------|
| 20 | Surface | 20 | |
| 16 | Shale | 36 | |
| 11 | Lime | 47 | |
| 27 | Shale | 74 | |
| 8 | Lime | 82 | |
| 41 | Shale | 123 | |
| 8 | Lime | 131 | |
| 13 | Shale | 144 | |
| 30 | Lime | 174 | |
| 2 | Shale | 176 | RECEIVED |
| 2 | Red Shale | 178 | JUN 14 2006 |
| 3 | Shale | 181 | KCC WICHITA |
| 22 | Lime | 203 | |
| 2 | Shale | 205 | |

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|----|---------------|------|--------------------------------|
| | | 205 | |
| 1 | Blk Slate | 206 | |
| 3 | Lime | 209 | |
| 5 | Shale | 214 | |
| 7 | Lime | 221 | Hertha |
| 23 | Shale | 244 | |
| 4 | Shale (Sandy) | 248 | |
| 4 | Sandy Shale | 252 | |
| 6 | Sandy Shale | 258 | |
| 62 | Shale | 324 | |
| 13 | Sandy Shale | 337 | |
| 41 | Shale (Sandy) | 378 | |
| 1 | Blk Slate | 379 | 22,000 CFM |
| 29 | Shale | 408 | |
| 14 | Lime | 422 | |
| 5 | Shale | 427 | |
| 10 | Lime | 437 | |
| 18 | Shale | 455 | |
| 4 | Lime | 459 | |
| 2 | Blk Slate | 461 | 201,000 201,000 CFM |
| 21 | Shale | 482 | |
| 8 | Lime | 490 | |
| 9 | Shale | 499 | |
| 1 | Blk Slate | 500 | 0.940 |
| 19 | Shale | 519 | |
| 5 | Dark Shale | 524 | |
| 5 | Blk Slate | 529 | |
| 4 | Sand | 533 | |
| 11 | Sandy Shale | 544 | |
| 36 | Sandstone | 580' | T.D. 500' |

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total @ T.D.
201,000 CFM