

Glaze Drilling Company

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CUSTOMER OSBORN ENERGY
LEASE NAME Stegeman
WELL NUMBER 1-10
SPUD DATE 3-30-06
SURFACE SIZE 10" HOLE SIZE 9 1/2"

WELL LOG

20	Surface	20	
5	Clay break	25	
	Rock	25	
56	Shale	81	
10	Lime	91	
30	Shale	121	
6	Lime	127	
45	Shale	172	
9	Lime	181	
14	Shale	195	
28	Lime	222	
2	Shale	225	
2	Block	227	0.900
2	Shale	229	

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②			
21	Lime	250	
3	Shale	253	
2	Blk Slate	255	
2	Lime	257	
5	Shale	262	
7	Lime	269	
28	Shale	297	
4	Shale (Sandy)	301	
8	Sandstone	309	sm amt gas
8	Shale (Sandy)	317	
141	Shale	458	
2	Blk Slate	460	↑ in gas still ↓ than
62	Shale	522	16,000
4	Sandy Lime	526	100 sm.
10	Shale	536	? to tes.
10	Sandy Lime	546	8,000
4	Lime	550	
6	Sandy Lime	556	
2	Blk Slate	558	test @ 560' 16,000
19	Shale	577	(WATER)
3	Lime	580	
1	Shale	581	
7	Blk Slate	588	* GAS 62,000 62,000
2	Shale	590	
45	Sandstone	635	
5	Shale (Sandy)	640	
9	Sandstone	649	
11	Shale	660	T.D 660. Test
			18,000
			CFM
			total

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Geological Report

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Stegeman #1-10

2310 FSL, 990 FWL
Section 10-T16S-R25E
Miami Co., Kansas
API# 15-121-28146
Elevation: 1069' GL
Drilling Contractor: Glaze Drilling (Lic. #5885)
Spud: 03-03-06
Production Bore Hole: 9 1/2"
Rotary Total Depth: 660' on 03-07-06
Drilling Fluid: air
Production Csg.: 7"
Geologist: Meredith Pearce & Jeff Taylor

Formation	Driller Log Tops	Datum
Stark Shale	225'	844'
Hushpuckney Shale	253'	816'
Base Kansas City	269'	800'
"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	458'	611'
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	No call	
Myrick Station	No call	
Anna Shale (Lexington Coal Zone)	Not developed	
Peru Sand	No call	
Summit Shale Zone	556'	513'
Mulky Coal/Shale Zone	581'	488'
Squirrel Sand	590'	479'
Rotary Total Depth	660'	

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Drilling at 200' in the Kansas City at 1pm on 03-06-06

200-210 LS: tan to gy
210-220 LS: tan, gy

STARK FORMATION driller called @225-227', no chromatograph readings

****GAS TEST @240', No Open Flow****

220-230 LS: tan to gy - SH: gy, blk, vv slight free gas
230-240 LS: tan
240-250 LS: tan

HUSHPUCKNEY SHALE driller called @253-255', no chromatograph readings

****GAS TEST @260', Too small to measure, maybe 2 MCF****

250-260 LS: gy - SH: gy, blk, vv slight free gas
260-270 LS: tan, brown
270-280 SH: gy, silty - LS: tan
280-290 SH: Lt. gy, silty
290-300 SH: gy, silty
300-310 SH: gy, sandy
310-320 SH: gy, sandy
320-330 SH: gy, sandy
330-340 SH: gy, silty
340-350 SH: gy
350-360 SH: gy
Chromatograph hooked up, Background Gas (BG) 35 units
360-370 SH: gy
370-380 SH: gy, silty
CG @380 140 units, 29 BG
380-390 SH: gy
390-400 SH: gy - SS: clear, gy
CG @400 170 units, 15 BG
400-410 SS: clear, white
410-420 SH: gy, sandy in places
CG @420 142 units, 12 BG
420-430 SH: gy
430-440 SH: gy
CG @440 123 units, 10 BG
440-450 SH: gy

SOUTH MOUND ZONE driller called @458-446', gas kick to 139 units, 114 over BG

****GAS TEST @460', Too small to measure, maybe 8 MCF, 10 Total****

450-460 SH: gy, blk, free gas
CG @460 824 units, 0 BG
460-470 SH: gy
470-480 SH: gy, TR LS: brown
CG @480 563 units, 47 BG
480-490 SH: gy

LEXINGTON COAL ZONE not called, gas kick to 86 units, 2 over BG

****GAS TEST @500', inc to 16 MCF Total****

490-500 SH: gy, TR coaly w/free gas
Stopped drilling @500' at 5:15pm

Resumed drilling at 9am on 03-07-06

****MORNING GAS TEST @500', too small to measure, maybe 8 MCF****

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CG @500 772 units, 25 BG
500-510 SH: greenish gy, TR clay, TR LS
510-520 SH: gy - clay, TR LS
CG @520 695 units, 180 BG
520-530 SH: gy, sandy - SS: clear, tan
530-540 SH: gy, sandy - SS: clear, tan

Geologist Jeff Taylor
CG @540 220 units, 180 BG
540-550 SS: gy, mica - LS: brown, hd

SUMMIT SHALE ZONE driller called @556-558', gas kick to 210 units, 10 over BG
****GAS TEST @560', inc maybe 8 MCF to 16 for the day, 24 Total****
550-560 SH: gy, blk w/slight gas bubbles
CG @560 716 units,
560-570 SH: brn, gy, hd - LS: brn - silty SH
570-580 SH: dark gy - LS - silty SH
CG @580 536 units, 220 BG

MULKY COAL/SHALE ZONE driller called @581-588', kick to 1788 units, 1544 over BG
****GAS TEST @600', inc 62 MCF, 78 for the day, 86 MCF Total****
580-590 SH: blk, hd, some silty w/gas bubbles along bedding plains

SQUIRREL SAND driller called @590'
590-600 SS: gy, frosted in cement, gas bubbles, oil stain, live oil on samples
CG @600 1408 units, 1200 BG
600-610 SS: gy, clear, brn, some mica, occ gas, occ oil stain
610-620 SS: gy, clear, frosted, brn, sub rounded, mica, occ gas bubble
620-630 SS: gy, clear, frosted, sub round, abundant mica, occ gas bubble, well cemented, some oil stain
630-640 SS: gy, clear, frosted, round to angular, abundant mica w/mica bedding plains, some oil stain, occ gas bubble
CG @640 1440, 1200 BG
640-650 SS: gy, clear, frosted, sub round, abundant mica, occ gas bubble, well cemented, some oil stain
650-660 SS: gy, clear, frosted, sub round, mica, occ pyrite, occ gas bubble, some oil stain - SH gy, silty
Final background, 1392 units
Total Rotary Depth, 660'
****GAS TEST @660', no inc, 78 MCF for the day, 86 MCF Total****

Brief Summary

Stark	No open flow
Hushpuckney	Too small to measure, estimating 2 MCF
South Mound	Too small to measure, estimating 8 MCF
Mulberry(s)	
Lexington	Estimating 6 MCF
Summit	Estimating 8 MCF
Mulky	62 MCF
Squirrel Sand	No increase
Total	86 MCF

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