

## GEOLOGICAL REPORT

ORIGINAL

H. McDaniel #2  
406'N/2914'E Sec 33-T31S-R15E  
Montgomery County, Kansas  
API#15-125-30142-0000

Operator: Jones Gas Corporation #32654  
Contractor: Well Reined Drilling Co, Inc. (Air Rig) #32871  
Commenced: 8/12/02  
Completed: 8/13/02  
Surface Casing: 8 5/8 @ 20'  
Production Casing: 4 1/2 @ 1293  
Ground level elevation: 855

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### Formation Log Tops

Pawnee	737	(+118)
Lexington	756	(+ 99)
Oswego	828	(+ 27)
Summit	860	(- 5)
Mulky	884	(- 29)
Bevier	908	(- 53)
Crowebury	933	(- 78)
Mineral	971	(- 116)
Weir	absent	
Rowe	absent	
Riverton	1238	(- 383)
Mississippi	1253	(- 398)
RTD	1293	(- 438)

### Major Zones of Interest

Mulberry 730 - 732

Coal black, slight gas bubbles

Test @ 743 1/44" choke no blow

Pawnee 737 - 756

Limestone, tan, very fine crystalline, dense tight, faint odor @ 746 in spotty pin-point porosity with weak show of oil.

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Lexington

757 - 760

Shale, black, carbonaceous, gas odor, slight bubbles  
Test @ 763 very slight blow TSTM

Peru

775 - 804

Sandstone, gray, fine-grained, micaceous, poor friability, poor porosity with weak show of free oil, no fluorescence.

Test @ 803 very slight blow TSTM

Oswego

838 - 860

Limestone, medium tan, some sublithographic, some coarse crystalline with slight vugular porosity, faint odor.

Summit

860 - 863

Shale, black, carbonaceous with some coal, popping gas in both  
Test @ 863 ¼" choke TSTM

Mulky

884 - 888

Shale, black, carbonaceous

888 - 890

Coal, black, sizzling gas

Test @ 893 ¾" choke 7 ½ oz 40,000 CFGPD

Bevier

908 - 910

Coal, black, cleats filled with calcite, show gas bubbles

Test @ 923 ¾" choke 6 oz 6,000 decrease

Crowebury

933 - 938

Coal, black, light show of gas bubbles

Test @ 943 ¾" choke 5 oz 31,600 @ 2400 decrease

Mineral

971 - 973

Shale, black, carbonaceous and coal, black, fair show of gas bubbles

Test @ 983 ¾" choke 4 oz 28,300 CFPD decrease of 3300

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Upper Bartlesville

1001 - 1012

Sandstone, buff-brown, fine-grained, micaceous, poor porosity light odor and stain, slight gas bubbles

Test @ 1010 3/4" choke 4 oz no increase

1020 - 1032

Sandstone, dark brown, fine-grained, poor porosity, good gas odor

Test @ 1043 3/4" choke 4 oz no increase

Unnamed Coal

1048 - 1050

Coal, black, no show, some sandstone, tan-white, fine-grained sideritic, light odor and staine.

Test @ 1063 3/4" choke 5 oz 31,600 CFGPD 3300 increase

Weir Zone

1069 - 1072

Shale, dark, grey, no coal development.

Unnamed Zone

1088 - 1089

Trace of coal, black, pyritic, no show

Test @ 1103 3/4" choke 4 oz 28,300 CFGPD no increase

Test @ 1123 no increase

Tucker?

1184 - 1216

Sandstone, off-white, fine to medium grained, poor to fair porosity, picked up lots of water.

Test @ 1203 no increase

Riverton

1238 - 1241

Shale, black, carbonaceous with some coal, black, pyritic, popping gas.

Test @ 1243 3/4" choke 3 oz 24,500 CFGPD 3800 decrease

Mississippi

1253 - 1260

Chat, white, tan-white, large vugular porosity with black heavy oil and some light brown oil stain, bright blue fluorescence, weak gas odor.

Test @ 1263 3/4" choke 5 oz 31,600 CFGPD 7,000 increase

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1260 - 1270

Chat, as above 50% fluorescence

1270 - 1280

Chat, as above 10% fluorescence  
Test @ 1283 3/4" choke 4 oz

1280 - 1293

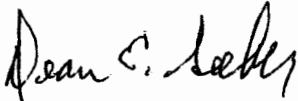
Dolomite, cream-tan, very-fine crystalline, chalky, poor porosity, no shows.

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Summary

Due to the good shows of gas in the Mulky and Mississippi, 4 1/2" casing was run and cemented.

Sincerely,



Dean E. Seeber  
Petroleum Geologist

