

33-31-15E

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JUN 29 2005
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Geologist Report

H. McDaniel A #2
SW NE SW Sec. 33-T31S-R15E
Montgomery County, Kansas
API# 15-125-30724

Operator: Jones Gas Corporation #32654

Contractor: Well Refined Drilling Co., Inc (Air Rig) #33072

Commenced: 04-29-05

Completed: 05-03-05

Surface Casing: 8 5/8"

Production Casing: 4 1/2"

Ground Level Elevation: 835

Formation Log Tops
(Open Hole)

Lenapah	534 +301
Altamont	576 +259
Pawnee	713 +122
Lexington Shale	733 +102
Oswego	803 +32
Summit Shale	835 0
Mulky Shale	861 -26
Croweburg	908 -73
Weir Coal	1031 -196
Rowe Coal	Absemt
Riverton Coal	1216 -381
Mississippian	1223 -388
R.T.D.	1280 -445

33-31-15E McDaniel A #2

04/29/05

Depths

Sample Descriptions

Lexington 733' (+102)

Oswego 803' (+32)

Shut down over night @ 834'.

05/02/05

Summit Shale 835' (0)

835 – 842 Shale – dark gray, black, some carbonaceous, popping gas.

Test @ 855' no blow.

842 – 861 Limestone – brown, gray, fine crystalline, fossiliferous, dense, some with fair odor, dark stain, show free oil - brown, scattered fluorescence, poor porosity.

Mulky Shale 861' (-26)

861 - 863 Shale - dark gray, dark gray.

863 – 866 Shale – black, some carbonaceous, popping gas.

866 – 867 Coal – good popping gas.

Test @ 880' 12" on 3/8" choke. 12.4 mcfg.

867 – 875 Limestone – gray, fine crystalline, dense, fossiliferous, argillaceous, no show, no visible porosity.

875 - 886 Shale – gray, dark gray, pyrite.

Bevier Coal 886' (-51)

886 - 887 Coal – popping gas.

887 – 906 Shale – light gray, gray, dark gray, some pyrite.

906 – 908 Limestone – dark brown, fine crystalline, fossiliferous, dense, no show, no visible porosity.

Croweburg Shale 908' (-73)

908 – 911 Shale – black, some carbonaceous, trace coal, popping gas.

Test @ 930' 12" on 3/8" choke. 12.4 mcfg (no increase)

911 – 925 Shale – gray, light gray, sandy, some calcareous, no show.

925 – 945 Shale – dark gray, black, some sandy.

Mineral Coal 945' (-110)

945 – 947 Coal – popping gas.

947 – 973 Shale – gray, green, medium gray, sandy.

973 – 976 Sandstone – brown, fine grain, micaceous, argillaceous, faint odor, slight show free oil, brown stain, popping gas, poor fluorescence, poor porosity.

Test @ 980' 14" on 3/8" choke 13.4 mcfg (1 mcfg increase).

976 – 990 Shale – dark gray, fossiliferous.

990 – 1008 Sandstone – light gray, light brown, fine grain, micaceous, argillaceous, faint odor, scattered stain, show free oil, with gas bubbles, no fluorescence, poor porosity.

1008 – 1031 Shale – dark gray, sandy, with carbonaceous material.

1031 – 1036 Coal – good popping gas.

Weir Coal 1031' (-196)

05/02/05

Test @ 1055' 8" on 1/2" choke. 17.2 mcfg (3.8 mcfg increase).

1036 - 1076 Shale - gray, dark gray, light gray, very sandy in part.
1076 - 1080 Sandstone - brown, fine grain, argillaceous, micaceous, very scattered stain, popping gas, on show free oil, poor porosity.

Test @ 1180' 17" on 1/2" choke. 25.8 mcfg (8.6 mcfg increase).

1080 - 1092 Shale - dark gray, sandy, popping gas.
1092 - 1100 Sandstone - brown, fine grain, micaceous, hard, faint odor, even brown stain, show free oil, with gas bubbles, weak fluorescence, poor to fair porosity. Drilling with no returns. Possibly sandstone.

Test @ 1005' 11" on 3/4" choke. 47.2 mcfg (21.4 mcfg increase).

1100 - 1112 Shale - dark gray, sandy.

Shut down over night. Hammer problems.

05/03/05

1112 - 1114 Shale - dark gray, sandy.
1114 - 1141 Sandstone - brown, light brown, fine grain, micaceous, glauconitic, faint odor, light stain, slight show free oil, with gas bubbles, no fluorescence, poor to fair porosity.

Test @ 1130' 11" on 1 1/2" choke. 231 mcfg. (183.8 mcfg increase).

1141 - 1179 Shale - gray, dark gray, laminated with sandstone, light gray, fine grain, micaceous, argillaceous, some carbonaceous, material, no show, poor porosity.
1179 - 1199 Sandstone - light gray, gray, fine grain, micaceous, carbonaceous material, no show, poor porosity.
1199 - 1201 Coal - popping gas.

Test @ 1205' 2" on 1 1/2" choke. 98.5 mcfg (132.5 mcfg decrease).

1201 - 1216 Shale - gray, dark gray.

Riverton Coal 1216' (-381)

1216 - 1218 Coal - popping gas.
1218 - 1223 Shale - dark gray.

Mississippian 1223' (-388)

1223 - 1230 Limestone - light brown, fine crystalline, dense, cherty, scattered dark stain, some popping gas, no show free oil, poor porosity.

Test @ 1230' 6.5" on 1 1/2" choke. 177 mcfg. (78.5 mcfg increase)

1230 - 1255 Chert - white, gray, blue, translucent to opaque, slight odor, dark stain, slight show free oil, few gas bubbles, no fluorescence, scattered vugular porosity.
1255 - 1280 Dolomite - brown, fine crystalline, dense, some green specks, no odor, dark stain, few gas bubbles, no fluorescence, poor porosity, with chert, as above.

R.T.D. 1280 (-445)

The decision was made to run casing to further evaluate the gas shows.

Respectfully Submitted,



William M. Stout
Geologist