

JAMES C. MUSGROVE

Petroleum Geologist
2021 Forest
P.O. Box 1162
Great Bend, KS 67530

DEC 04 1998

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CONSERVATION DIVISION
WICHITA, KS

Office (316) 792-7716

Res. Claflin (316) 587-3444

PETRO-X Oil & Gas Company
Pollock #3
NW-SE-NE; Section 7-27s-12w
Pratt County, Kansas
Page No. 1

AP 15-151-22167-00-00

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5 1/2" Production Casing Set

Contractor: Allen Drilling Co. (rig #1)

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Commenced: August 6, 1998

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Completed: August 13, 1998

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Elevation: 1892' K.B.; 1890' D.F.; 1882' G. L.

Casing Program: Surface; 8 5/8" @ 366'
Production; 5 1/2" @ 4345'

Samples: Samples saved and examined 1900' to the Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 1900' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Formation Testing: None.

Electric Log: By Log Tech; Dual Induction Log, Dual Compensated Porosity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	660	+1232
Base Anhydrite	677	+1215
Chase Group	1926	-34
Council Grove	2268	-376
Red Eagle	2538	-646
Admire	2654	-762
Indian Cave	2694	-802
Wabaunsee	2728	-836
Langdon Shale	2752	-860
1 st Langdon Sand	2761	-869
2 nd Langdon Sand	2788	-896
3 rd Langdon Sand	2797	-905
Stotier	2854	-962
Tarkio	2917	-1025
Howard	3069	-1177
Severy	3131	-1239
Topeka	3172	-1280
Heebner	3505	-1613
Toronto	3519	-1627
Douglas	3540	-1648
Douglas Sand	3588	-1696
Brown Lime	3682	-1790
Lansing	3700	-1808
Base Kansas City	4040	-2148
Marmaton	4054	-2162

7-27-12w

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Mississippian	4133	-2241
Viola	4175	-2283
Simpson Shale	4221	-2329
Simpson Dolomite	4240	-2348
Arbuckle	4336	-2444
Rotary Total Depth	4345	-2453
Log Total Depth	4343	-2451

(All tops and zones are corrected to Electric Log measurements.)

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SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

CHASE SECTION

1926-1950' Dolomite; gray, finely crystalline, sucrosic, gray dolomitic limestone, no shows.

WINFIELD SECTION

1984-2000' Limestone; gray to tan, finely crystalline, sucrosic, dolomitic, fair porosity, no shows.

2010-2022' Limestone; gray to tan, fossiliferous, fair to good porosity, no shows.

TOWANDA SECTION

2050-2080' Limestone; gray, fossiliferous, chalky increasingly cherty, no shows.

FLORENCE SECTION

2140-2180' Limestone; tan to gray, highly fossiliferous, fair to good porosity, plus white to gray chert, no shows.

CROUSE SECTION

Limestone; tan, fossiliferous, scattered porosity, no shows.

COTTONWOOD SECTION

2420-2438' Limestone; tan, oolitic, fossiliferous, chalky, few granular in part, no shows.

RED EAGLE SECTION

2538-2564' Limestone; gray to tan, highly fossiliferous, medium crystalline, granular in part, fair to good fossil cast to intercrystalline and few vuggy type porosity, questionable light yellow fluorescence, no cut-no stain, no show of free oil.

INDIAN CAVE

2694-2714' Sand; gray to white, angular to sub angular, micaceous, shaley, friable in part, no stain, no cut, spotty yellow fluorescence, no show of free oil and faint odor in fresh samples. (56 unit gas kick).

WABAUNSEE SECTION

2728-2740' Limestone; gray to white, finely crystalline, chalky, no shows.

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- | | |
|------------------------------------|---|
| 1 ST Sand
2761-2769' | Sand; very fine grained, micaceous, shaley, poor visible porosity, no shows. |
| 2 nd Sand
2788-2796' | Sand; gray to grayish green, very fine grained, sub rounded to sub angular, micaceous, shaley, fair sorting, spotty fluorescence, trace gas bubbles, no cut, no stain, no show of free oil. (46 unit gas kick). |
| 3 rd Sand
2797-2801' | Sand; as above (20 unit gas kick). |

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BERN SECTION

- 2998-3014' Limestone; gray to white, fossiliferous, good porosity, no shows.

HOWARD SECTION

- 3069-3080' Limestone; cream to white, finely crystalline, poor visible porosity.
- 3090-3096' Limestone; tan to white, finely crystalline, few fossiliferous, good porosity, no shows.

SEVERY SECTION

- 3132-3144' Sand; very fine grained, sub rounded to sub angular, glauconitic, micaceous, shaley, no shows.

TOPEKA SECTION

- 3190-3200' Limestone; gray to white, slightly fossiliferous, chalky in part, no shows.
- 3200-3225' Limestone; as above, no shows.
- 3230-3250' Limestone; gray to white, highly fossiliferous, fair porosity, plus white to gray fossiliferous chert.
- 3250-3300' Limestone; as above.
- 3321-3330' Limestone; gray, finely crystalline, fossiliferous, chalky, no shows.
- 3380-3408' Limestone; tan, finely crystalline, cherty, plus white to gray chert.
- 3412-3434' Limestone; tan to brown, finely crystalline, sucrosic, few dolomite, fair to good porosity, no shows.
- 3471-3490' Limestone; gray to white, granular, slightly chalky, scattered porosity, no shows.

TORONTO SECTION

- 3519-3540' Limestone; white to gray, fossiliferous, granular in part, fair to good porosity, trace white chert, no shows.

DOUGLAS SECTION

- 3586-3626' Sand; white to gray, very fine to fine to medium grained, sub rounded, fair sorting, friable, good intergranular porosity, micaceous, few glauconitic, no shows.

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LANSING SECTION

- 3708-3720' Limestone; gray to cream, fossiliferous, scattered porosity, trace brown edge staining, no show of free oil and no odor, no fluorescence, no cut.
- 3730-3742' Limestone; gray to white, finely crystalline, fossiliferous, scattered fossil cast to vuggy porosity, trace brown to dull gray stain, trace free oil and faint odor, fair yellow fluorescence.
- 3756-3770' Limestone; white to gray, fine to medium crystalline, chalky in part, fair porosity, no show, no fluorescence, trace gray to white chert.
- 3770-3792' Limestone; tan, finely crystalline, few fossiliferous, cherty in part, poorly developed porosity, no shows.
- 3800-3806' Limestone; tan to white, finely crystalline, slightly cherty, scattered porosity, pale yellow fluorescence, trace stain, no show of free oil or odor.
- 3816-3829' Limestone; cream to gray, sub oocastic, fossiliferous, fair vuggy to sub oocastic porosity, gray to brown stain, show of free oil and faint odor in fresh samples, pale yellow fluorescence, faint odor. (16 unit gas kick).
- 3832-3848' Limestone; as above, fair to good porosity, no shows.
- 3858-3866' Limestone; cream to gray to tan, finely crystalline, oocastic, scattered oocastic to intercrystalline porosity, black to dull gray stain, show of free oil and faint odor, pale to bright yellow fluorescence (5 unit gas kick).
- 3876-3888' Limestone; gray to white, oolitic, oocastic, scattered porosity, trace stain, trace free oil and faint odor in fresh samples.
- 3892-3900' Limestone; gray to white, fossiliferous, medium crystalline, fair to good intercrystalline to vuggy type porosity, gray to brown spotty stain and saturation, show of free oil (gassy), and fair odor in fresh samples. Bright yellow fluorescence and good cut (68 unit gas kick).
- 3905-3915' Limestone; gray to white, highly fossiliferous, good porosity, black to gray to brown stain and saturation, show of free oil and good odor, poor fluorescence, good cut.
- 3942-3962' Limestone; tan to gray, fossiliferous, oocastic, good porosity, fair stain and saturation, show of free oil and good odor.

MARMATON SECTION

- 4053-4076' Limestone; tan to gray, cherty (dense).
- 4076-4110' Chert; white to gray to tan, opaque, scattered black edge staining, no show of free oil and odor, plus white boney chert, scattered brown to black stain.

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Geologist Report
Pollock #3

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MISSISSIPPIAN SECTION

4133-4156' Chert; white to gray, boney, few opaque, few chalky luster, trace brown edge staining, plus trace yellow chert.

VIOLA SECTION

4176-4220' Chert; white to gray, opaque, boney, few tripolitic, dark brown stain, trace free oil and questionable odor, good bright yellow edge fluorescence, no cut (24 unit gas kick).

SIMPSON SECTION

4240-4250' Dolomite; tan, finely crystalline, sandy, poor visible porosity, golden brown to dark brown stain, trace of free oil and questionable odor in fresh sample.

4254-4270' Sand; very fine to medium grained, sub angular, good sorting, few sub rounded, friable, golden brown stain, trace of free oil and faint odor, good bright yellow fluorescence.

4270-4292' Sand; as above, plus white to clear, very fine grained sand (barren), increasingly black gilsonitic stain.

ARBUCKLE SECTION

4336-4339' Dolomite; tan, finely crystalline, sucrosic, scattered porosity, trace brown stain, weak show of free oil and faint odor.

4339-4343' Dolomite; white to tan, medium crystalline, fair intercrystalline to vuggy type porosity, fair stain and saturation, fair show of free oil and good odor in fresh samples, good fluorescence, good cut.

Rotary Total Depth 4345 (-2453)

Log Total Depth 4343 (-2451)

Recommendations:

On the basis of the favorable structural position and positive log calculations, it was recommended by all parties involved to set 5 1/2" production casing at 4345' (Rotary measurement) and the following zones be tested in the Pollock #3:

- 1) Arbuckle open hole completion
- 2) Simpson Sand 4254-4257 perforate
- 3) Viola 4176-4180 perforate
- 4) Marmaton 4086-4090 perforate
- 5) Lansing 'J' 3906-3912 perforate
- 6) Lansing 'J' 3802-3900 perforate
- 7) Lansing 'H' 3860-3864 perforate
- 8) Lansing 'C' 3722-3730 perforate

Respectfully submitted;

James C. Musgrove
Petroleum Geologist

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