JAMES C. MUSGROVE

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

Office (620) 792-7716

Res. Claflin (620) 587-3444

Daystar Petroleum Corp Newkirk 'E' #1 E/2-SE-SW; Section 11-18s-7w Rice County, Kansas Page No. 1 15-159-22521

4 1/2" Production Casing Set

Contractor:

Petromark Drilling Company (Rig #2)

Commenced:

November 27, 2006

Completed:

December 5, 2006

Elevation:

1675' K.B.; 1673' D.F.; 1670' G.L.

Casing Program:

Surface; 8 5/8" @ 249' Production; 4 1/2" @ 3257'

Samples:

Samples saved and examined 1000' to the Rotary Total Depth.

Drilling Time:

One (1) foot drilling time recorded and kept 1000' to the Rotary

Total Depth.

Measurements:

All depths measured from the Kelly Bushing.

Formation Testing: There were four (4) Drill Stem Tests ran by Trilobite Testing Inc.

Electric Log:

By Log Tech, Dual Induction, Dual Compensated Porosity Log

and Micro.

Gas Detector:

By Earth Tech

FEB 1 9 2007

CONFIDENTIAL

WICHITA, KS

			PARTILIPATION OF THE
<u>Formation</u>	<u>Log Depth</u>	Sub-Sea Datum	
Herington	1091	+584	
Winfield	1137	+538	
Towanda	1206	+469	
Ft Riley	1246	+429	
Florence	1291	+384	
Wreford	1393	+282	
Council Grove	1431	+244	
Funston	1446	+229	
Crouse	1471	+204	
Bader	1495	+180	
Neva	1587	+88	
Red Eagle	1636	+39	
Foraker	1693	-18	
Grand Haven	1868	-193	
1 st Tarkio Sand	1886	-211	
Dover	1900	-225	
Tarkio Lime	1953	-278	
3 rd Tarkio Sand	1988	-313	
Elmont	2026	-351	RECEIVED
Howard	2170	-495	KANSAS CORPORATION COMMISSION
Topeka	2273	-598	•
Heebner	2549	-874	FEB 2 1 2007
Toronto	2570	-895	
Douglas	2589	-914	CONSERVATION DIVISION
Brown Lime	2666	·991	WICHITA ICS

Lansing	2710	-1035		
Stark Shale	2966	-1291		
Odessa 'M' Zone	3039	-1364		
Base Kansas City	3063	-1388		
Conglomerate Sand	3130	-1455		
Misener Sand	3171	-1496		
Maquoketa	3228	-1553		
Rotary Total Depth	3260	-1585		
Log Total Depth	3257	-1582		
(All tops and zones corrected to Electric Log measurements).				

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

HERINGTON SECTION

1091-1110'

Dolomite; tan, gray, finely crystalline, few sucrosic, shaley,

poorly developed porosity, no shows.

WINFIELD SECTION

1137-1150'

Dolomite; buff, gray, light gray, finely crystalline, sucrosic, scattered pinpoint type porosity, no stain, no fluorescence, no

gas bubbles.

1150-1174'

Dolomite; gray, finely crystalline, sucrosic, few with fair pin point to intercrystalline porosity, no stain no fluorescence, trace gas

bubbles (30 unit gas kick)

Drill Stem Test #1

1142-1174

Times:

3-60-55-60

Blow:

Weak

Recovery:

20' mud

Pressures: ISIP

ISIP 263 psi

FSIP 93 psi IFP 14-19 psi FFP 23-27 psi HSH 553-545 psi

TOWANDA SECTION

1206-1230'

Dolomite; tan, buff, sucrosic, trace limestone, tan, dolomitic, poor visible porosity, no shows, trace white anhydrite.

FT RILEY SECTION

1249-1270'

Limestone; buff, gray, finely crystalline, dolomitic, poorly developed porosity, no shows.

FLORENCE SECTION

1291-1330'

Limestone; tan, finely crystalline, highly fossiliferous, fair to good intercrystalline and vuggy type porosity, plus loose fossil

fragments and white and gray chert.

WREFORD SECTION

1393-1410'

Limestone; gray, white, slightly fossiliferous, chalky, no fluorescence, no gas bubbles, (13 unit gas increase).

1424-1430'

Limestone; as above, (20 unit gas increase).

FUNSTON SECTION

1448-1451'

Limestone; gray, white, finely crystalline, few granular, chalky in part, no fluorescence, no gas bubbles, (48 unit total, 31 unit gas increase).

NEVA SECTION

1584-1610'

Limestone; tan, gray, finely crystalline, slightly granular, chalky, no shows.

RED EAGLE SECTION

1636-1650'

Limestone; tan, buff, highly fossiliferous, slightly chalky increasingly cherty, poor visible porosity, no shows.

1ST TARKIO SAND SECTION

1881-1893'

Sand; gray, grayish green, very fine to medium grained, sub rounded, few sub-angular, fair sorting, friable in part, slightly shaley, no shows (3 unit gas increase).

3RD TARKIO SAND (WILLARD SAND) SECTION

1988-1995'

Sand; gray, light gray, fine to medium grained, sub rounded, fair () NFIDENTIAL to good sorting, micaceous, shalev in part frieble friends. to good sorting, micaceous, shaley in part, friable, fair to good intergranular porosity, trace iron pyrite (6 unit gas increase).

HOWARD-TOPEKA SECTION

2170-2548'

There were several well developed zones of porosity encountered in the drilling of the Howard and Topeka Section but no show of oil and/or gas was noted.

TORONTO SECTION

2570-2588'

Limestone; gray, white, fossiliferous, chalky, slightly dolomitic, no shows.

DOUGLAS SECTION

2603-2632

Sand; maroon, gray, green, very fine grained, micaceous, RECEIVED shaley, few friable, fair intergranular porosity, no shows. KANSAS CORPORATION COMMISSION

FEB 2 1 2007

WICKITA, KS

CONSERVATION DIVISION LANSING SECTION

2718-2730'

Limestone; tan, oomoldic, few oolitic, fair to good oomoldic porosity, trace poor light brown to golden brown stain, trace of free oil (gassy) and fair odor in fresh samples. (236 unit gas kick).

Drill Stem Test #2

2718-2730'

Times:

30-60-60-60

Blow:

Weak

Recovery:

10' mud

Pressures: ISIP 1082

psi

FSIP 913

psi

IFP 35-47

psi

FFP 41-43

psi

HSH 1307-1269 psi

(Plugging action on both flow periods)

2764-2772'

Limestone; tan, buff, slightly oolitic, poorly developed porosity,

no shows.

2786-2794'

Limestone; tan, brown/buff, oolitic, oomoldic, fair oomoldic

porosity, chalky in part, (barren).

2802-2820'

Limestone; white, tan, colitic, finely comoldic, good comoldic

porosity, no shows.

2820-2840'

Limestone; as above, trace white chalk.

2840-2860'

Limestone; white, cream, tan, oomoldic, good oomoldic porosity,

no shows.

2906-2914'

Limestone; tan, brown, slightly fossiliferous/oolitic, chalky, no

shows.

2931-2950'

Limestone; tan, oolitic, slightly cherty, few scattered porosity, no

shows.

2976-2990'

Limestone; tan, brown, fine to medium crystalline, fossiliferous,

trace gray and brown spotty stain, no show of free oil or odor in

fresh samples.

3014-3024'

Limestone; tan, brown, oolitic/fossiliferous, slightly chalky, few

with sparry calcite replacement in some porosity, no shows.

ODESSA 'M' ZONE SECTION

3039-3046'

Limestone; white, cream, fossiliferous, chalky, brown and gray stain, show of free oil and questionable odor.

Drill Stem Test #3

3035-3055'

Times:

30-60-60-60

Blow:

Weak

Recovery:

2' mud (Trace oil < 1% oil)

Pressures: ISIP

18 psi FSIP 16 psi IFP 23-12 psi FFP 17-13 psi HSH 1460-1450

psi

3052-3060'

Limestone; light gray, cream, finely crystalline, few granular, few

CONGLOMERATE SECTION

3131-3141'

Sand; clear, white, fine and medium grained, sub rounded, friable, fair porosity, spotty stain, show of free oil and no odor in fresh samples.

ONFIDENTIA

MISENER SECTION

3171-3176'

Sand; clear, gray, fine and medium grained, sub rounded, few sub angular, friable, fair porosity, brown stain, show of free oil and faint odor.

3176-3195'

Sand; clear, gray, very fine grained, sub rounded, sub angular, good sorting, friable, good intergranular porosity, good stain and saturation, good show of free oil and good odor in fresh

samples.

Drill Stem Test #4

3177-3195'

Times:

30-60-60-60

Blow: 1

Weak to fair (8")

Recovery:

40' gas in pipe

20' slightly oil cut watery mud (5% oil, 20% water, 75% mud)

187' muddy water (scum of oil)

RECEIVED

KANSAS CORPORATION COMMISSION

FEB 2 1 2007

Pressures: ISIP

930 iza

FSIP 906 psi **IFP** 20-82 psi FFP 74-120 psi HSH 1566-1523 psi

CONSERVATION DIVISION WICHITA, KS

3195-3228'

Sand; as above, trace green shale inclusions.

MAQUOKETA SECTION

3228-3250'

Dolomite; gray, light gray, shaley, dense.

3250-3257'

Dolomite; as above, trace gray shale.

Rotary Total Depth 3260

Log Total Depth 3257

Recommendations, On the basis of the favorable log analysis, it was recommended by all parties involved to set and cement $4\frac{1}{2}$ " production casing at 3257' and the following zones be tested in the Newkirk E#1

- 1) Misener Sand 3171-3190 perforate
- 2) Lansing 'B' zone 2718-2722 perforate

Respectfully submitted;

James C. Musgrove Petroleum Geologist