

ROBERT L. LAYMON

EXPLORATION • CONSULTING GEOLOGIST

350 N. ESTELLE • WICHITA, KANSAS 67214

WELL HISTORY

Operator:	Kansas Oil Corp.
Well:	#1 Stewart "A"
Location:	SE SW NE Sec. 18-T33s-R10w Barber County, Kansas
Contractor:	Reach Drilling
Tool pusher:	Melvin Loreg
Geologist:	Robert L. Laymon
Elevation:	1622' KB
Spud:	4-4-81
Surface casing:	4-4-81 Set 302' of 8 5/8" with 225 sacks common
Commenced:	4-5-81
Hole size:	7 7/8"
Completed:	4-16-81
RTD/LTD:	4710' RTD / 4710' LTD
Mud:	Magobar
Gas detector:	Analytical
DST:	Western
Cores:	None
E-Logs:	Electra
Sample:	Kansas Well Library
Status:	Set Pipe

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CHRONOLOGICAL HISTORY

4-4-81	0' - 403' Spud, Set 302' of 8 5/8" with 225 sacks common
4-5-81	403' - 1282' Drilling
4-6-81	1282' - 2182' Drilling, Bit trip at 1940'
4-7-81	2182' - 2736' Drilling
4-8-81	2736' - 3226' Drilling
4-9-81	3226' - 3716' Drilling
4-10-81	3716' - 4167' Drilling
4-11-81	4167' - 4450' Drilling, CFS @ 4434' and 4450'
4-12-81	4450' - 4465' Drilling, DST #1 Hertha
4-13-81	4465' - 4580' Drilling, DST #2 Pawnee
4-14-81	4580' - 4660' Drilling, DST #3 Miss.
4-15-81	4660' - 4710' Drilling, DST #4 Miss.

FORMATION TOPS

<u>FORMATION</u>	<u>E-LOG</u>	<u>DATUM</u>	<u>SAMPLE</u>	<u>DATUM</u>
KC "A" Marker	4230	-2608	4230	-2608
KC "B" Marker	4282	-2660	4282	-2660
Swope	4402	-2780	4403	-2781
Hertha	4431	-2809	4434	-2812
Pawnee	4572	-2950	4573	-2951
Ft. Scott	4603	-2981	4604	-2982
Mississippian	4602	-3020	4644	-3022

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DRILLSTEM TESTS

DST #1

Hertha

4427' - 4450'

30-60-45-90

IFP: 52 - 52

FFP: 63 - 63

ISIP: 1657

FSIP: 1657

IHP: 2225

FHP: 2204

BHT⁰: 120° F

Gas to surface in 10 minutes, gauged 51,600 CFG in 20 minutes.
Second open guaged 77,500 CFG in 15 minutes. Recovered 90 feet gas
cut mud.

DST #2

Pawnee

4550' - 4580'

30-60-30-60

IFP: 52 - 42

FFP: 52 - 52

ISIP: 296

FSIP: 264

IHP: 2310

FHP: 2289

BHT⁰: 120° F

Weak blow throughout first open, strong blow throughout second
open. Recovered 10 feet drilling mud.

DST #3

Mississippi

4647' - 4660'

30-60-30-60

IFP: 42 - 42

FFP: 42 - 42

ISIP: 1018

FSIP: 1050

IHP: 2278

FHP: 2257

BHT⁰: 121° F

Strong blow throughout test, recovered 30 feet drilling mud.

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DST #4

Mississippi

4658' - 4710'

30-60-30-60

IFP: 73 - 73

FFP: 84 - 84

ISIP: 190

FSIP: 158

IHP: 2289

FHP: 2267

BHTO: 1210 F

Fair blow throughout test, recovered 90 feet slightly gas cut mud with few specks of oil.

GEOLOGICAL COMMENTS

The following is a sample analysis of the Kansas Oil Corp. #1 Stewart "A" in SE SW NE Section 18-T33s-R10w, Barber County, Kansas. Samples were examined from 4200' to RTD. This well was under geological supervision from 4200' to 4710'.

Kansas City "A" 4238' - 4250' Limestone, Cream to light gray, soft, fine crystalline, slightly oolitic, with good fossil-cast to vuggy porosity, no fluorescence, no cit, no shows.

Kansas City "A" 4250' - 4268' Limestone, white to light gray, soft, fine to course crystalline, slightly oolitic, with good vuggy to intercrystalline porosity, no fluorescence, no cut, no shows.

Kansas City "B" 4294' - 4314' Limestone, cream to white, soft, fine crystalline, fossiliferous, oolitic, with white vitreous chert, good oo-castic to fossil-cast porosity, no fluorescence, no cut, no shows.

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Hertha 4434' - 4440' Limestone, cream to tan, soft, fine crystalline, fossiliferous, slightly oolitic, poor fluorescence, poor cut, slight show gas bubbles, fair show free oil, faint odor, with fair to poor pinpoint porosity.

Pawnee 4574' - 4580' Limestone, cream to tan, soft to medium hard, medium crystalline, slightly fossiliferous, with good show gas bubbles, very poor yellow fluorescence, with no visible porosity.

Mississippi 4644' - 4660' Chert, white to light gray, semi-translucent, vitreous, fresh, with fair scattered stain, faint odor, good fluorescence, poor show free oil, fair show gas bubbles, with no visible porosity.

Mississippi 4660' - 4690' Limestone, cream to tan, dense, medium crystalline, very cherty, chert in white translucent, vitreous, fresh to very slightly weathered, with poor scattered stain, fair fluorescence, poor show gas bubbles and poor show free oil, with no visible porosity.

This well ran structurally high to the K.O.C. #1 Stewart and structurally flat to the TXO #1 Matthews "B". Drillstem test #1 revealed possible economic show of gas in the Hertha Limestone. The Mississippian Osage section had shows of both oil and gas in the samples but drillstem tests 3 and 4 which tested these intervals condemned production possibility. It was decided that production casing be set to the Hertha Limestone to further evaluate this test well.

Respectfully Submitted,

Robert L. Laymon, Geologist