

Formation Lansing Type Test Conventional Date September 22, 1993
 Anchor Length and Size 15' X 4 1/2" OD-Perf. Total Depth 4257'
 Packer Depths 4237' & 4242' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
 Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

Lengths: Tool 48' D.P. 3561' ID 3.8" Wt. P. _____ ID _____ D.C. 655' ID 2.25"
 Mud Type Chemical Vls. 47 Wt. 9.1 Wtr. Loss 8.6 Cl. 2800 ppm

Recorders:
 Depth 4251' Make Kuster Cap. 6500 Ser. No. 10269 Inside
 Depth 4255' Make Kuster Cap. 6800 Ser. No. 10217 Outside
 Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:
 Tool on Bottom @ 9:20 AM. Initial Hydrostatic 1980 psi
 Initial Flow 30 Min. IFP 83 psi to 116 psi
 Initial Shut-in 60 Min. ISIP 1160 psi
 Final Flow 62 Min. FFP 148 psi to 258 psi
 Final Shut-in 120 Min. FSIP 1163 psi
 Tool off Bottom @ 1:50 PM. Final Hydrostatic 1980 psi Temp. 112°F.

Blow: Weak increasing to good on I.F.P., Weak increasing to good on F.F.P.

Recovery: 600' Gas in drill pipe. 500' Total Fluid.
 140' Heavy Oil & Gas Cut Mud.
 120' Oil Cut Salt Water.
 240' Salt Water.

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Gas Flow:

Sampler Data:
 Pressure 130 PSI
 Gas 0.05 cu. ft.
 Total Fluid 1850 cc
 Oil 20 cc
 Water 1430 cc
 Mud 400 cc
 Oil Gravity _____ @ _____ °F.
 Gas/Oil Ratio _____

Remarks:
 Fluid Analysis:

	Cl. PPM	S.G.	Ph.	Rw.
Pit:	2800	1.000	9.5	1.20 @ 80°F
Top:	21,000	1.025	8	.18 @ 80°F
Middle:	61,000	1.065	7.5	.07 @ 80°F
Bottom:	86,000	1.095	7.5	.05 @ 80°F
Sampler:	86,000	1.095	7.5	.05 @ 80°F

Operator Butch Young Witnessed by: Jim Tull

EC. 22

Cabot Oil & Gas Corporation
OPERATOR

API# 15-175-21341

Betty Lemert #3-22
WELL NAME & NO.

2
TEST #

4688' - 4698'
TEST INTERVAL

TWP. 32S

RGE. 33W

COUNTY Seward

STATE Kansas

TICKET NO. 3276

Information Checkerboard Type Test Conventional Date September 24, 1993
Casing Length and Size 10' X 4 1/2" OD-Perf. Total Depth 4698'
Casing Depths 4683' & 4688' Below Straddle Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

Lengths: Tool 48' D.P. 4000' ID 3.8" Wt. P. _____ ID _____ D.C. 655' ID 2.25"
Fluid Type Chemical Vls. 47 Wt. 9.1 Wtr. Loss 8.2 Cl. 2100 ppm

Records:
Depth 4668' Make Kuster Cap. 6400 Ser. No. 13373 Inside
Depth 4693' Make Kuster Cap. 6450 Ser. No. 6064 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 10:35 P.M. Initial Hydrostatic 2200 psi
Initial Flow 32 Min. IFF 96 psi to 141 psi
Initial Shut-in 59 Min. ISIP 1356 psi
Final Flow 60 Min. FFP 209 psi to 306 psi
Final Shut-in 60 Min. FSIP 1334 psi
Tool off Bottom @ 2:05 A.M. Final Hydrostatic 2187 psi Temp. 110°F.

Flow: Weak increasing slightly on both flow periods.

Recovery: 600' Salt Water.

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Flow:

Sampler Data:
Core 250 PSI
none cu. ft.
Fluid 2000 cc
Filter --- cc
Water 2000 cc
Mud --- cc
Gravity _____ @ _____ °F.
Oil Ratio _____

Remarks:
Fluid Analysis:
Cl. ppm S.G. Ph. Rw.
Pit: 2100 1.000 9.5 1.9 @ 65°F.
Top: 51,000 1.055 7 .10 @ 65°F.
Middle: 68,000 1.075 7 .08 @ 65°F.
Bottom: 68,000 1.075 7 .08 @ 65°F.
Sampler: 68,000 1.075 7 .08 @ 65°F.

Dean Blagrave

Witnessed by: Jim Tull

PHONE 316 / 624-7340

Computer Inventories DEAN'S TESTERS INC.

ORIGINAL

P. O. BOX 1182 LIBERAL, Ks. 67901

SEC. 22

Cabot Oil & Gas Corporation OPERATOR

API # 15-175-21341

Betty Lemert #3-22

TEST # 3

4876' - 4899'

TEST INTERVAL

MAY 04 1994

CONSERVATION DIVISION Wichita, Kansas

Formation Marmaton Type Test Conventional Date September 25, 1993
Anchor Length and Size 23' X 4 1/2" OD-Perf. Total Depth 4899'
Packer Depths 4871' & 4876' Below Straddle Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

TWP. 32S

RGE. 33W

COUNTY Seward

STATE KANSAS

TICKET NO. 327

Lengths: Tool 61' D.P. 4190' ID 3.8" Wt. P. _____ ID _____ D.C. 655' ID 2.25"
Mud Type Chemical Vis. 55 Wt. 9.1 Wtr. Loss 8.0 Cl. 2400 ppm

Recorders: Depth 4861' Make Kuster Cap. 6400 Ser. No. 13373 Inside
Depth 4894' Make Kuster Cap. 6450 Ser. No. 6064 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:
Tool on Bottom @ 2:42 AM. Initial Hydrostatic 2306 psi
Initial Flow 30 Min. IFP 74 psi to 119 psi
Initial Shut-In 60 Min. ISIP 983 psi
Final Flow 60 Min. FFP 170 psi to 251 psi
Final Shut-In 120 Min. FSIP 983 psi
Tool off Bottom @ 7:12 M. Final Hydrostatic 2306 psi Temp. 116°F

Flow: Strong on I.F.P., Weak increasing to strong on F.F.P.

Recovery: 2600' Gas in Pipe. 500' Total Fluid.
55' Muddy Oil.
85' Heavy Oil & Gas Cut Mud.
60' Oil & Gas Cut Muddy Water.
60' Oil & Gas Cut Salt Water
240' Slightly Gas Cut Salt Water.

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Gas Flow:
Sampler Data:
Pressure 185 PSI
Vis. 0.12 cu. ft.
Total Fluid 1600 cc
Oil 100 cc
Water 900 cc
Mud 600 cc
Gravity 39.5 @ 60°F °F.
Gas/Oil Ratio _____

Remarks:
Fluid Analysis:
C1 PPM S.G. Ph Rw.
Pit: 2400 1.000 9.5 1.9 @ 65°F.
Top: 16,000 1.015 8 .30 @ 65°F
Middle 78,000 1.085 7 .08 @ 65°F
Bottom: 108,000 1.115 7 .06 @ 65°F
Sampler: 108,000 1.115 7 .06 @ 65°F.

Operator Dean Blagrave Witnessed by: Jim Tull