FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 1

Company: Thunderbird Drilling Co.

Company Address: P.O. Box 18407
Wichita, Kansas 67218

Lease Name: Wesley "A" -#1

Location: Sec. 11 Twp. 23S Rng. 13W

County Stafford St. Kansas

Date: 08/11/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 50K P.P.M.Cl⁻ Hydrostatic ____ P.S.I./ft.

Mud Weight 9.5 Viscosity 40 Water Loss 12.6

Total Depth: 3450'

Anchor Length: 30'

Top Packer Depth: 3415'

Bottom Packer Depth: 3420'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3421'

Blow: Inital--weak-died in 27 mins.
Final--no blow

Tool Open: 8:45 am Remarks: Slid tool
4' to bottom

External Rec# 13753 Depth: 3446'

TEST RESULTS & RECOVERY

Interval Tested: 3420'-3450' Zone Tested: Lansing "C"

Initial Hydrostatic Mud: 1747 P.S.I.

Initial Flow Pressure 28 To 28 P.S.I. Initial Flow Period 30 Min.

Initial Shut-In Pressure 69 P.S.I. Initial Shut-In 30 Min.

Final Flow Pressure 38 To 38 P.S.I. Final Flow Period 30 Min.

Final Shut-In Pressure 58 P.S.I. Final Shut-In 30 Min.

Final Hydrostatic Mud 1728 P.S.I.

5 Feet Total Fluid Recovery ____ Feet Gas In Pipe

Recovered 5 Feet mud with oil spots in tool - %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet - %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet - %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet - %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet - %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered Fluid Properties: ____ P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω/m^2 BHT 98 °F

Extra Equipment: none Price of Job: $550.00

SAB
277
66

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 — Hays (913) 628-1115 — Great Bend (316) 792-6187

Company: Thunderbird Drlg Co
Company Address: PO Box 18407
Wichita Kans 67218
Company Representative: Mark Thompson
Contractor: Thunderbird Rig 1

Test# 1
Lease Name: Wesley A #1
Location: Sec. 11 Twp. 23 Rng. 13
County: Stafford St. Kans
Date: Aug 11, 1985
Elevation: 1867 GR
Tester: Craig Buel

Mud 50K P.P.M.Cl⁻ Hydrostatic _____ P.S.I./ft.
Mud Weight 9.5 Viscosity 40 Water Loss 12.4
Total Depth: 3450
Anchor Length: 30
Top Packer Depth: 3415
Bottom Packer Depth: 3420
Surface Choke: 1" Bottom Choke: 3/4"
Drill Pipe Size: 4½ FH Wt. Pipe Run Sldc I.D 2.75
Collars Run: — I.D. —
Main Hole Size: 7 7/8
Internal Rec# 13752 Depth: 3421

Blow: Initial weak - died 27 mins
Final no blow
Tool Open: 8:45 AM Remarks:
Slid tool 4' to bottom
External Rec# 13753 Depth: 3446

TEST RESULTS & RECOVERY

Interval Tested: 3430 - 3450
Zone Tested: Lansing "C"
Initial Hydrostatic Mud: 1747 P.S.I.
Initial Flow Pressure 28 To 28 P.S.I.
Initial Shut-In Pressure 69 P.S.I.
Final Flow Pressure 38 To 38 P.S.I.
Final Shut-In Pressure 58 P.S.I.
Final Hydrostatic Mud 1728 P.S.I.

Initial Flow Period 30 Min.
Initial Shut-In 30 Min.
Final Flow Period 30 Min.
Final Shut-In 30 Min.

_____ Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 5 Feet mud	—	%Gas	%Oil	%H_2O	%Mud
Recovered _____ Feet oil spots in tool	—	%Gas	%Oil	%H_2O	%Mud
Recovered _____ Feet	—	%Gas	%Oil	%H_2O	%Mud
Recovered _____ Feet	—	%Gas	%Oil	%H_2O	%Mud
Recovered _____ Feet	—	%Gas	%Oil	%H_2O	%Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω/m^2 BHT 98 °F

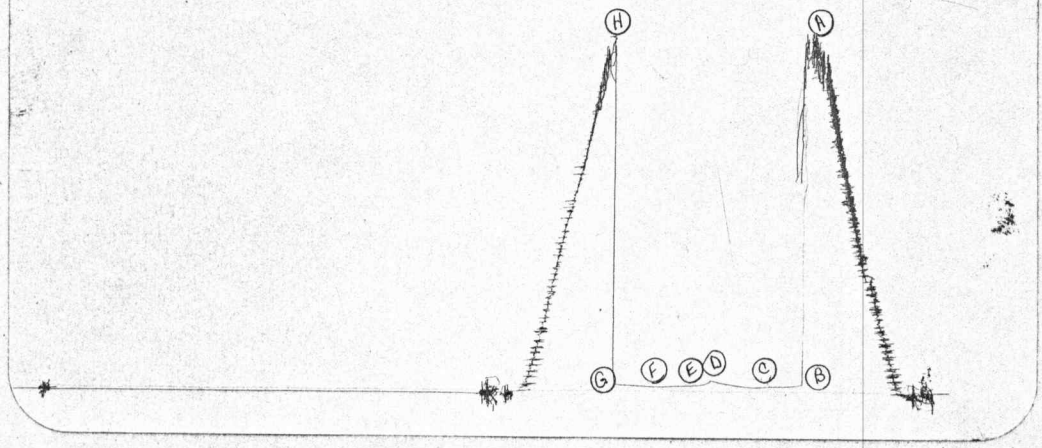
Extra Equipment:
Price of Job: $350.00

Approved By: Mark A. Thompson
Our Representative: Craig A. Buel

Formation Testing Services Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

Ticket № 1036

Ticket #1036 Run #13753 Test #1



FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays (913) 628-1115

Great Bend (316) 792-6187

Test# 2

Company: Thunderbird Drilling Co.

Lease Name: Wesley "A" -#1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/11/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 50K P.P.M.Cl⁻ Hydrostatic .493 P.S.I./ft.

Blow: Initial--weak-died in 20 mins.

Mud Weight 9.5 Viscosity 40 Water Loss 12

Final--no blow.

Total Depth: 3490'

Anchor Length: 45'

Top Packer Depth: 3440'

Bottom Packer Depth: 3445'

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 9:05 pm Remarks:

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3447'

External Rec# 13753 Depth: 3486'

TEST RESULTS & RECOVERY

Interval Tested: 3445'-3490'

Zone Tested: Kansas City "D & E"

Initial Hydrostatic Mud: 1767 P.S.I.

Initial Flow Pressure 28 To 28 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 1126 P.S.I.

Initial Shut-In 30 Min.

Final Flow Pressure 38 To 38 P.S.I.

Final Flow Period 30 Min.

Final Shut-In Pressure 1078 P.S.I.

Final Shut-In 30 Min.

Final Hydrostatic Mud 1767 P.S.I.

5 Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 5 Feet mud with few oil specks - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω_m BHT _____ °F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 2

Company: Thunderbird Drlg Co

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23 Rng. 13

Wichita Kans. 67218

County Stafford St. Kans.

Company Representative: Mark Thompson

Date: Aug 11, 1985

Contractor: T-Bird Rig 1

Elevation: 1867 KB

Tester: Craig Buck

Mud 50K P.P.M.Cl⁻ Hydrostatic .293 P.S.I./ft.

Blow: Initial- weak- died in 20 mins.

Mud Weight 9.5 Viscosity 40 Water Loss 12

Final- no blow

Total Depth: 3490

Anchor Length: 45

Top Packer Depth: 3440

Bottom Packer Depth: 3445

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 9:05 pm Remarks:

Drill Pipe Size: 4½ FH Wt. Pipe Run: 300 I.D. 2.75

Collars Run: — I.D. —

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3447

External Rec# 13753 Depth: 3486

TEST RESULTS & RECOVERY

Interval Tested: 3445 - 3490

Zone Tested: KC City "D & E"

Initial Hydrostatic Mud: 1767 P.S.I.

Initial Flow Pressure 28 To 28 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 1126 P.S.I.

Initial Shut-In 30 Min.

Final Flow Pressure 38 To 38 P.S.I.

Final Flow Period 30 Min.

Final Shut-In Pressure 1078 P.S.I.

Final Shut-In 30 Min.

Final Hydrostatic Mud 1767 P.S.I.

_____ Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 5 Feet mud w/flw o. Specks %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet — %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet — %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet — %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet — %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered Fluid Properties: ____ P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω/m^2 BHT ____ °F

Extra Equipment:

Price of Job: $350.00

Mark A Thompson

Approved By

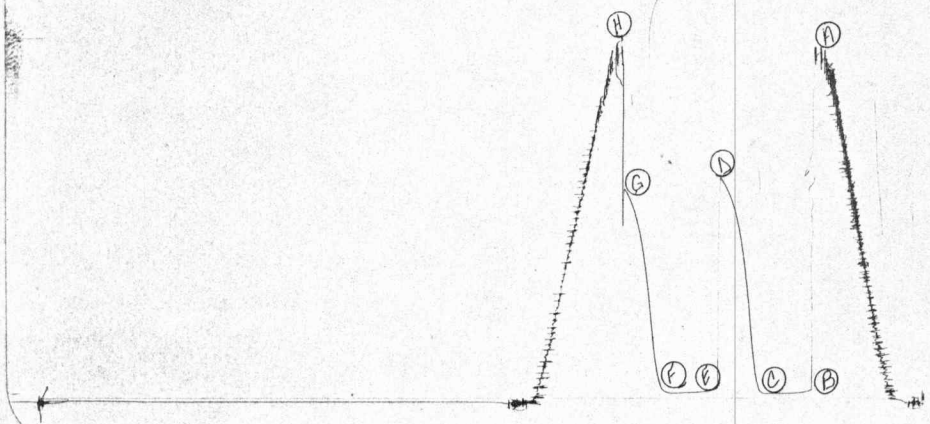
Craig A. Buck

Our Representative

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Ticket No 1037

Ticket # 1037 Rec # 13753 Rec'd # 2



FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays (913) 628-1115

Great Bend (316) 792-6187

Test# 3

Company: Thunderbird Drilling Co.

Company Address: P.O. Box 18407

Wichita, Kansas 67218

Lease Name: Wesley "A" -#1

Location: Sec. 11 Twp. 23S Rng. 13W

County Stafford St. Kansas

Date: 08/12/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 53K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Mud Weight 9.6 Viscosity 40 Water Loss 12.8

Total Depth: 3547'

Anchor Length: 17

Top Packer Depth: 3525'

Bottom Packer Depth: 3530'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Blow: Initial--weak building to bottom of bucket in 9 mins. Final--Fair built to bottom of bucket in 2½ mins

Tool Open: 10:17 am Remarks:

Internal Rec# 13752 Depth: 3538'

External Rec# 13753 Depth: 3543'

TEST RESULTS & RECOVERY

Interval Tested: 3530'-3547' Zone Tested: Kansas City "H"

Initial Hydrostatic Mud: 1835 P.S.I.

Initial Flow Pressure 38 To 38 P.S.I.

Initial Shut-In Pressure 252 P.S.I.

Final Flow Pressure 48 To 58 P.S.I.

Final Shut-In Pressure 165 P.S.I.

Final Hydrostatic Mud 1825 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 60 Min.

Final Shut-In 45 Min.

65 Feet Total Fluid Recovery 840 Feet Gas In Pipe

Recovered 65 Feet gassy muddy oil – 30 %Gas 25 %Oil 11 $\%H_2O$ 34 %Mud

Recovered ____ Feet ____ – ____ %Gas ____ %Oil ____ $\%H_2O$ ____ %Mud

Recovered ____ Feet ____ – ____ %Gas ____ %Oil ____ $\%H_2O$ ____ %Mud

Recovered ____ Feet ____ – ____ %Gas ____ %Oil ____ $\%H_2O$ ____ %Mud

Recovered ____ Feet ____ – ____ %Gas ____ %Oil ____ $\%H_2O$ ____ %Mud

Recovered Fluid Properties: ____ P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω_m^2 BHT 108 °F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601
Hays (913) 628-1115
Great Bend (316) 792-6187

Test# 3
Lease Name: Wesley "A" #1
Location: Sec. 11 Twp. 23 Rng. 15
County Stafford St. Kans
Date: Aug 12, 1985
Elevation: 1867 KB
Tester: Craig Bud

Company: Thunderbird Drlg Co
Company Address: P.O. Box 18407
Wichita Ks 67218
Company Representative: Mark Thompson
Contractor: T-Bird Rig 1

Mud 53K P.P.M.Cl⁻ Hydrostatic 1499 P.S.I./ft.
Mud Weight 9⁶ Viscosity 40 Water Loss 12⁸
Total Depth: 3547
Anchor Length: 17
Top Packer Depth: 3525
Bottom Packer Depth: 3530
Surface Choke: 1" Bottom Choke: 3/4"
Drill Pipe Size: 4½ FH Wt. Pipe Run: Stds I.D. 2¹⁵
Collars Run: — I.D. —
Main Hole Size: 7⅞
Internal Rec# 13752 Depth: 3538

Blow: Initial- weak bldg to bottom of bucket in 9 mins
Final- Fair drift to bottom of bucket in 2½ mins
Tool Open: 10:17 AM Remarks:
External Rec# 13753 Depth: 3543

TEST RESULTS & RECOVERY

Interval Tested: 3530 - 3547 Zone Tested: K.C. "H"
Initial Hydrostatic Mud: 1835 P.S.I.
Initial Flow Pressure 38 To 38 P.S.I.
Initial Shut-In Pressure 252 P.S.I.
Final Flow Pressure 48 To 58 P.S.I.
Final Shut-In Pressure 1105 P.S.I.
Final Hydrostatic Mud 1825 P.S.I.

Initial Flow Period 30 Min.
Initial Shut-In 45 Min.
Final Flow Period 60 Min.
Final Shut-In 45 Min.

— Feet Total Fluid Recovery 840 Feet Gas In Pipe

Recovered	65 Feet	gassy muddy oil -	%Gas 25	%Oil 11	%H_2O 34	%Mud
Recovered	Feet	-	%Gas	%Oil	%H_2O	%Mud
Recovered	Feet	-	%Gas	%Oil	%H_2O	%Mud
Recovered	Feet	-	%Gas	%Oil	%H_2O	%Mud
Recovered	Feet	-	%Gas	%Oil	%H_2O	%Mud

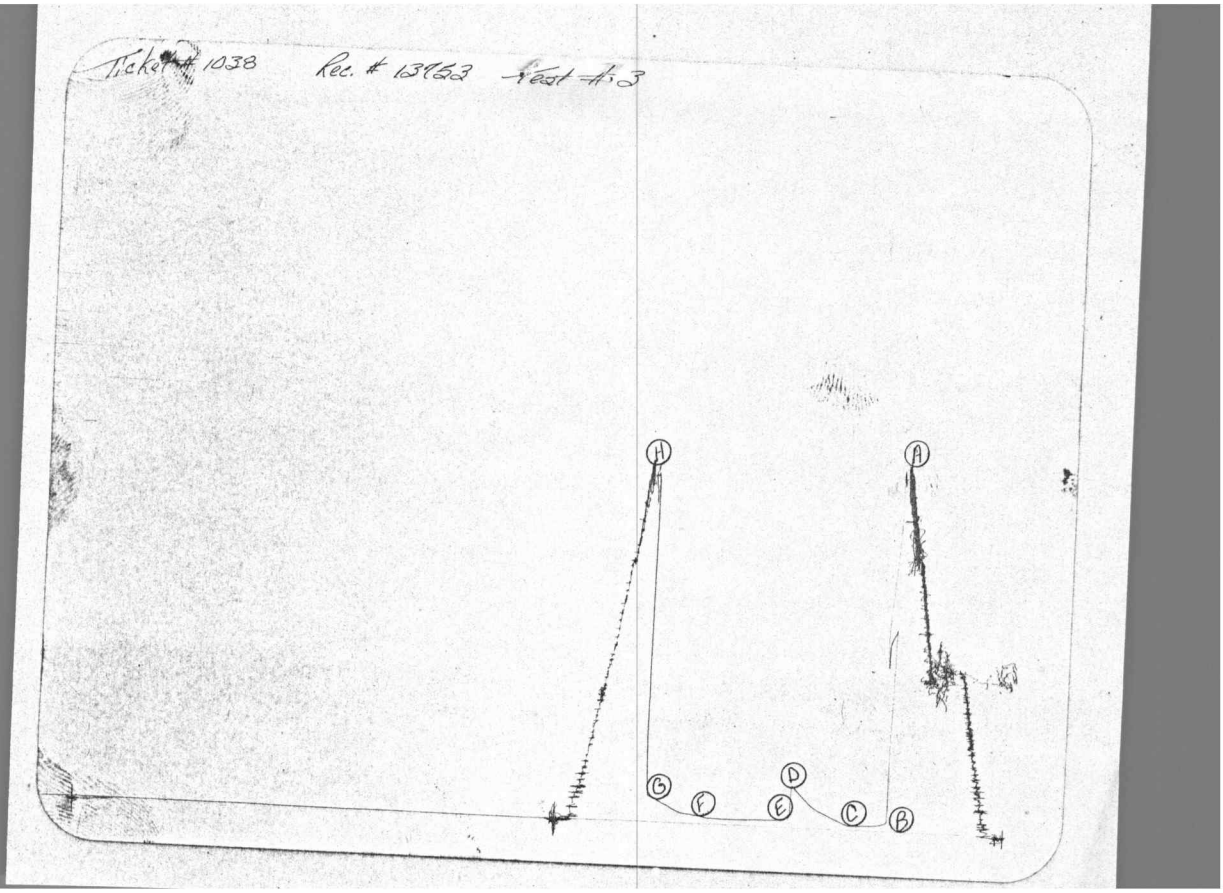
Recovered Fluid Properties: P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω/m² BHT 103 °F

Extra Equipment:
Price of Job: $550.00

Approved By Mark A. Thompson
Our Representative Craig A. Bud

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Ticket # 1038 Rec. # 139523 Test #: 3



FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 4

Company: Thunderbird Drilling Co.

Company Address: P.O. Box 18407
Wichita, Kansas 67218

Lease Name: Wesley "A" -#1

Location: Sec. 11 Twp. 23S Rng. 13W

County Stafford St. Kansas

Date: 08/12/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 53K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Mud Weight 9.6 Viscosity 40 Water Loss 12.8

Total Depth: 3590'

Anchor Length: 43'

Top Packer Depth: 3542'

Bottom Packer Depth: 3547'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Blow: Initial--Final--Strong throughout.

Tool Open: 11:15 pm Remarks: G.T.S. in 2 mins. of initial flow. Read bottom 1ec. shut-in

Internal Rec# 13752 Depth: 3551'

External Rec# 13753 Depth: 3586'

TEST RESULTS & RECOVERY

Interval Tested: 3547'-3590'

Zone Tested: Kansas City "I & J"

Initial Hydrostatic Mud: 1835 P.S.I.

Initial Flow Pressure 78 To 68 P.S.I.

Initial Shut-In Pressure 1281 P.S.I.

Final Flow Pressure 68 To 58 P.S.I.

Final Shut-In Pressure 1203 P.S.I.

Final Hydrostatic Mud 1786 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 60 Min.

Final Shut-In 45 Min.

15 Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered	15 Feet	gas cut mud	-	%Gas	%Oil	$\%H_2O$	%Mud
Recovered	Feet		-	%Gas	%Oil	$\%H_2O$	%Mud
Recovered	Feet		-	%Gas	%Oil	$\%H_2O$	%Mud
Recovered	Feet		-	%Gas	%Oil	$\%H_2O$	%Mud
Recovered	Feet		-	%Gas	%Oil	$\%H_2O$	%Mud

Recovered Fluid Properties: P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: $\Omega_{/m^2}$ BHT 110 °F

Extra Equipment: none

Price of Job: $550.00

SURFACE FLOW DATA

COMPANY Thunderbird Drilling Co. TEST NO. 4

TICKET NO. 1039 DATE 08/12/85

TIME PRE-FLOW	P.S.I. INS. OF WTR.	ORFICE	C.F.P.D. THRU 2"
@10	6.75	1"	377,000
@20	7	1"	385,000
@30	7	1"	385,000

SECOND FLOW

10	7.5	1"	400,000
20	7.5	1"	400,000
30	7.0	1"	385,000
40	7.0	1"	385,000
50	6.75	1"	377,000
60	6.75	1"	377,000

SIZE CHOKE SURFACE 1 IN. BOTTOM 3/4 IN.

REMARKS

SAMPLE BOTTLE NO.

2" Orifice Well Tester Flow Rate-MCF Day
Based on: 14.65 P.S.I.A., 60 F., 0.60 Specific Gravity

BOTTOM HOLE SAMPLER INFORMATION

PRESSURE = CU. FT. GAS = TOTAL cc FLUID =

cc FLUID	SAMPLER FLUID DESCRIPTION

REMARKS:

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 1

Company: Thunderbird Drlg Co

Company Address: PO Box 18407
Wichita Ks 67218

Lease Name: Wesley "A" #1

Location: Sec. 11 Twp. 23 Rng. 13

County Stafford St. Kans.

Date: Aug 12 1985

Company Representative: Mark Thompson

Elevation: 1807 KB

Contractor: T-Bird Rig 1

Tester: Craig Buck

Mud 53K P.P.M.Cl⁻ Hydrostatic 1799 P.S.I./ft.

Mud Weight 9.4 Viscosity 40 Water Loss 12.8

Total Depth: 3590

Anchor Length: 43

Top Packer Depth: 3542

Bottom Packer Depth: 3547

Surface Choke: 1 Bottom Choke: 3/4

Drill Pipe Size: 4½ FH Wt. Pipe Run 5lbs I.D. 2.75

Collars Run: — I.D. —

Main Hole Size: 7 7/8

Internal Rec# 13752 Depth: 3551

Blow: Initial & Final
Strong throughout

Tool Open: 11:15 pm Remarks:
G.T.S. in 2 mins. of initial Flow
Rec Read bottom rec. Shut-in

External Rec# 13753 Depth: 3586

TEST RESULTS & RECOVERY

Interval Tested: 3547 - 3590

Zone Tested: KC City I & J

Initial Hydrostatic Mud: 1835 P.S.I.

Initial Flow Pressure 18 To 68 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 1281 P.S.I.

Initial Shut-In 45 Min.

Final Flow Pressure 68 To 58 P.S.I.

Final Flow Period 60 Min.

Final Shut-In Pressure 1203 P.S.I.

Final Shut-In 45 Min.

Final Hydrostatic Mud 1786 P.S.I.

Feet Total Fluid Recovery Feet Gas In Pipe

Recovered 15 Feet Gas cut mud — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω/m^2 BHT 110 °F

Extra Equipment:

Price of Job: $350

Approved By

Craig A. Buck
Our Representative

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Ticket № 1039

SURFACE FLOW DATA

COMPANY Thunderbird Drlg Co TEST NO. 4

TICKET NO. 1039 DATE Aug 12, 85

TIME PRE-FLOW	P.S.I. ~~INS. OF WTR.~~	ORFICE	C.F.P.D. THRU 2"
@ 10	6.75	1"	377,000
@ 20	7	"	385,000
@ 30	7	"	385,000

SECOND FLOW			
10	7.5	"	400,000
20	7.5		400,000
30	7.0		385,000
40	7.0		385,000
50	6.75		377,000
60	6.75		377,000

SIZE CHOKE SURFACE 1 IN. BOTTOM 3/4 IN.

REMARKS

SAMPLE BOTTLE NO.

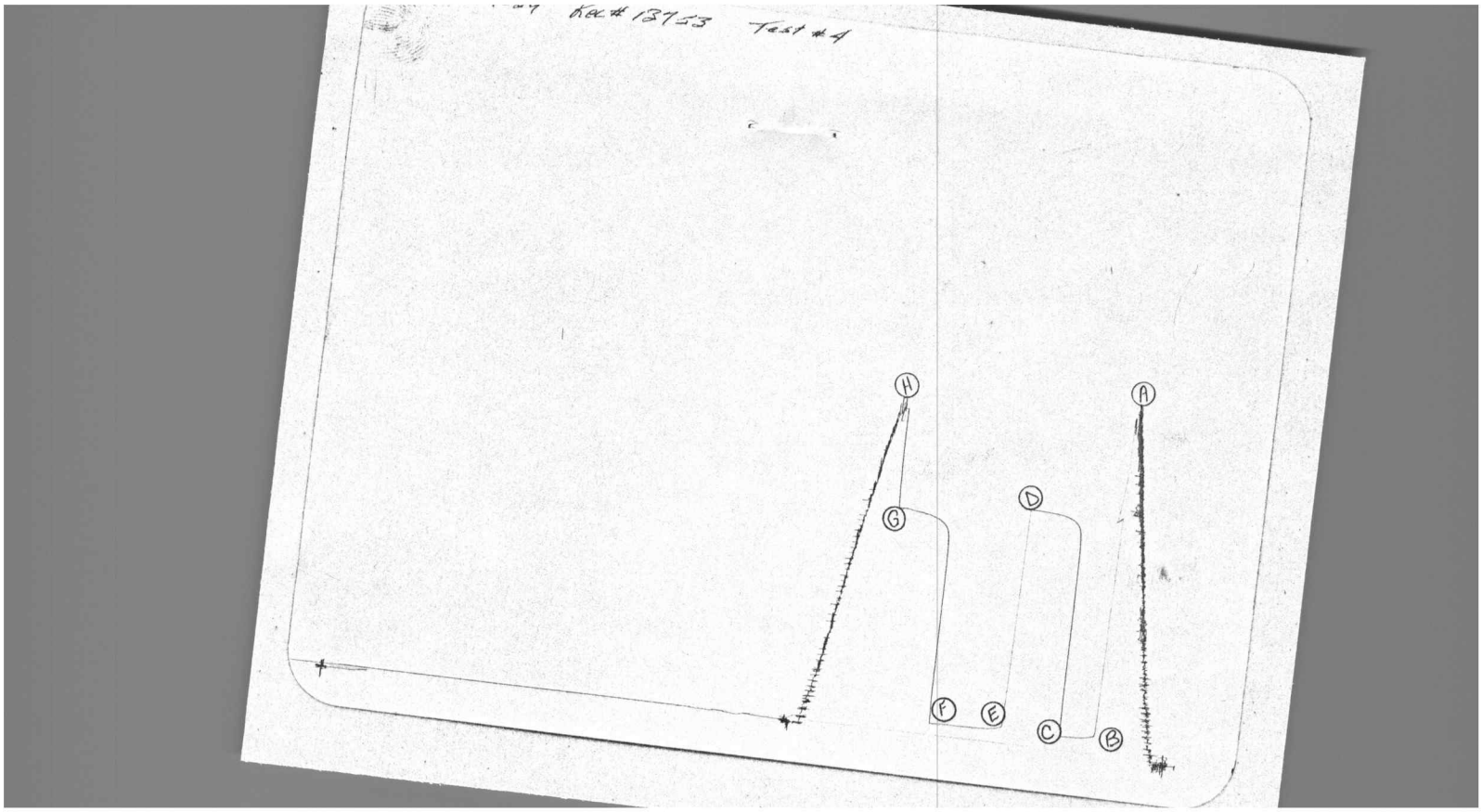
2" Orifice Well Tester Flow Rate-MCF Day
Based on: 14.65 P.S.I.A., 60 F., 0.60 Specific Gravity

BOTTOM HOLE SAMPLER INFORMATION

PRESSURE = CU. FT. GAS = TOTAL cc FLUID =

cc FLUID	SAMPLER FLUID DESCRIPTION

REMARKS:


Rec # 13753
Test #4
H
A
G
D
F
E
C
B

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays (913) 628-1115

Great Bend (316) 792-6187

Test# 5

Company: Thunderbird Drilling Company

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/13/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Blow: Initial--weak built to bottom of bucket in 14 mins. Final--fair built to bottom of bucket in 13 minutes.

Mud Weight 9.6 Viscosity 51 Water Loss 12

Total Depth: 3660'

Anchor Length: 67'

Top Packer Depth: 3593'

Bottom Packer Depth: 3588'

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 3:00 pm Remarks: Gas odor- very poor.

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3596'

External Rec# 13753 Depth: 3656'

TEST RESULTS & RECOVERY

Interval Tested: 3593'-3660'

Zone Tested: K,L, & Base of K.C.

Initial Hydrostatic Mud: 1874 P.S.I.

Initial Flow Pressure 58 To 58 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 203 P.S.I.

Initial Shut-In 45 Min.

Final Flow Pressure 58 To 58 P.S.I.

Final Flow Period 60 Min.

Final Shut-In Pressure 145 P.S.I.

Final Shut-In 45 Min.

Final Hydrostatic Mud 1864 P.S.I.

15 Feet Total Fluid Recovery 550 Feet Gas In Pipe

Recovered 15 Feet mud with oil specks in- tool %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω_m BHT 111°F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Company: Thunderbird Drlg Co

Company Address: P.O. Box 18407
Wichita Kans 67218

Company Representative: Mark Thompson

Contractor: T-Bird Rig 1

Test# 5

Lease Name: Wesley "A" #1

Location: Sec. 11 Twp. 23 Rng. 13

County Stafford St. Kansas

Date: Aug 13, 1985

Elevation: 1847 KB

Tester: Craig Buck

Mud Wt. K P.P.M.Cl⁻ Hydrostatic 499 P.S.I./ft.

Mud Weight 9½ Viscosity 51 Water Loss 12

Total Depth: 3660

Anchor Length: 67

Top Packer Depth: 3593

Bottom Packer Depth: 3588

Surface Choke: 1 Bottom Choke: ¾

Drill Pipe Size: 4½ FH Wt. Pipe Run 566 I.D. 2.75

Collars Run: — I.D. —

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3596

Blow: Initial - weak built to bottom of bucket in 14 mins

Final - fair built to bottom of bucket in 13 mins

Tool Open: 3 pm Remarks: gas odor - very poor

External Rec# 13753 Depth: 3656

TEST RESULTS & RECOVERY

Interval Tested: 3593 - 3660 Zone Tested: K, L, & Base of K.C.

Initial Hydrostatic Mud: 1874 P.S.I.

Initial Flow Pressure 58 To 58 P.S.I.

Initial Shut-In Pressure 203 P.S.I.

Final Flow Pressure 58 To 58 P.S.I.

Final Shut-In Pressure 145 P.S.I.

Final Hydrostatic Mud 1864 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 60 Min.

Final Shut-In 45 Min.

_____ Feet Total Fluid Recovery 550 Feet Gas In Pipe

Recovered	15 Feet	mud w/oil spots	%Gas	%Oil	%H_2O	%Mud
Recovered	_____ Feet	in tool -	%Gas	%Oil	%H_2O	%Mud
Recovered	_____ Feet	-	%Gas	%Oil	%H_2O	%Mud
Recovered	_____ Feet	-	%Gas	%Oil	%H_2O	%Mud
Recovered	_____ Feet	-	%Gas	%Oil	%H_2O	%Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ $\Omega_{/m^2}$ BHT 111 °F

Extra Equipment: _____

Price of Job: ~~$]~~ $550 ^{cc}

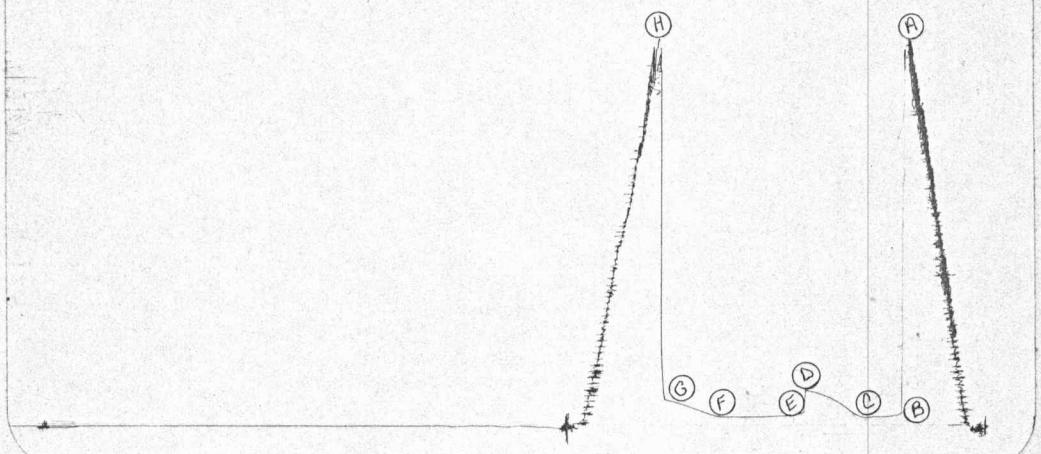
Approved By: Mark A. Thompson

Our Representative: Craig A. Buck

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Ticket № 1040

Ticket #1040 Rec # 13753 Test #5



FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 6

Company: Thunderbird Drilling Company

Company Address: P.O. Box 18407
Wichita, Kansas 67218

Lease Name: Wesley "A" #1

Location: Sec. 11 Twp. 23S Rng. 13W

County Stafford St. Kansas

Date: 08/14/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Mud Weight 9.6 Viscosity 51 Water Loss 12

Total Depth: 3690'

Anchor Length: 36'

Top Packer Depth: 3649'

Bottom Packer Depth: 3654'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3657'

Blow: Initial-weak building slightly to ½" blow.
Final-no blow

Tool Open: 4:10 am Remarks:

External Rec# 13753 Depth: 3686'

TEST RESULTS & RECOVERY

Interval Tested: 3654'-3690'

Zone Tested: Conglomerate Sand

Initial Hydrostatic Mud: 1893 P.S.I.

Initial Flow Pressure 28 To 28 P.S.I.

Initial Shut-In Pressure 38 P.S.I.

Final Flow Pressure 33 To 33 P.S.I.

Final Shut-In Pressure 33 P.S.I.

Final Hydrostatic Mud 1874 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 30 Min.

Final Shut-In 30 Min.

10 Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 10 Feet mud = _____ %Gas _____ %Oil _____ %H_2O _____ %Mud

Recovered _____ Feet _____ = _____ %Gas _____ %Oil _____ %H_2O _____ %Mud

Recovered _____ Feet _____ = _____ %Gas _____ %Oil _____ %H_2O _____ %Mud

Recovered _____ Feet _____ = _____ %Gas _____ %Oil _____ %H_2O _____ %Mud

Recovered _____ Feet _____ = _____ %Gas _____ %Oil _____ %H_2O _____ %Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω/m^2 BHT _____ °F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Test# 6 1

Company: Thunderbird Drlg Co

Lease Name: Wesley A #1

Company Address: P.O. Box 18407 Wichita Kans 67218

Location: Sec. 11 Twp. 23 Rng. 13

County Stafford St. Kans.

Date: Aug 14, 1985

Company Representative: Mark Thompson

Elevation: 1867 KB

Contractor: T-Bird Rig 1

Tester: Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic 1499 P.S.I./ft.

Blow: Initial- weak bldg slightly to ½" blow

Mud Weight 9½ Viscosity 51 Water Loss 12

Total Depth: 3690

Anchor Length: 36

Final- No blow

Top Packer Depth: 3649

Bottom Packer Depth: 3654

Surface Choke: 1" Bottom Choke: ¾"

Tool Open: 4:10 AM Remarks:

Drill Pipe Size: 4½ FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: — I.D. —

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3657

External Rec# 13753 Depth: 3686

TEST RESULTS & RECOVERY

Interval Tested: 3654 - 3690

Zone Tested: Conglomerate Sand

Initial Hydrostatic Mud: 1893 P.S.I.

Initial Flow Pressure 28 To 28 P.S.I.

Initial Shut-In Pressure 38 P.S.I.

Final Flow Pressure 33 To 33 P.S.I.

Final Shut-In Pressure 33 P.S.I.

Final Hydrostatic Mud 1874 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 30 Min.

Final Shut-In 30 Min.

_____ Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 10 Feet mud — %Gas %Oil %H_2O %Mud

Recovered _____ Feet _____ — %Gas %Oil %H_2O %Mud

Recovered _____ Feet _____ — %Gas %Oil %H_2O %Mud

Recovered _____ Feet _____ — %Gas %Oil %H_2O %Mud

Recovered _____ Feet _____ — %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω_m BHT _____ °F

Extra Equipment: _____

Price of Job: $550.00

Approved By Mark A Thompson

Our Representative Craig A. Bucl

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Ticket No 1041

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Test# 7

Company: Thunderbird Drilling Company

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/14/85

Company Representative:] Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic .493 P.S.I./ft.

Mud Weight 9.5 Viscosity 42 Water Loss 16.8

Total Depth: 3785'

Anchor Length: 80'

Top Packer Depth: 3700'

Bottom Packer Depth: 3705'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Blow: Initial-weak built to bottom of bucket in 13 minutes. Final-weak to bottom of bucket in 2 minutes.

Tool Open: 6:20 pm Remarks:

Internal Rec# 13752 Depth: 3741'

External Rec# 13753 Depth: 3781'

TEST RESULTS & RECOVERY

Interval Tested: 3705'-3785' Zone Tested: Viola

Initial Hydrostatic Mud: 1940 P.S.I.

Initial Flow Pressure 58 To 68 P.S.I. Initial Flow Period 30 Min.

Initial Shut-In Pressure 1000 P.S.I. Initial Shut-In 45 Min.

Final Flow Pressure 89 To 97 P.S.I. Final Flow Period 60 Min.

Final Shut-In Pressure 838 P.S.I. Final Shut-In 45 Min.

Final Hydrostatic Mud 1922 P.S.I.

160 Feet Total Fluid Recovery 675 Feet Gas In Pipe

Recovered 40 Feet gassy oil cut mud - 73 %Gas 8 %Oil 7 %H_2O 12 %Mud

Recovered 60 Feet gassy oil cut mud - 30 %Gas 20 %Oil 20 %H_2O 30 %Mud

Recovered 60 Feet gassy oil cut mud - 40 %Gas 20 %Oil 3 %H_2O 37 %Mud

Recovered ____ Feet ____ - ____ %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet ____ - ____ %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered Fluid Properties: 59K P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω_m^2 BHT 113 °F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays (913) 628-1115

Great Bend (316) 792-6187

Test# 1

Company: Thunderbird Drlg Co.

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407
Wichita, Kansas 67218

Location: Sec. 4 Twp. 23 Rng. 13

County Stafford St. Kans.

Date: Aug 4, 1985

Company Representative: Mark Thompson

Elevation: 1867 KB

Contractor: T-Bird Rig 1

Tester: Craig Buel

Mud 61-K P.P.M.Cl⁻ Hydrostatic 493 P.S.I./ft.

Mud Weight 9⅝ Viscosity 42 Water Loss 16.3

Total Depth: 3785

Anchor Length: 80

Top Packer Depth: 3700

Bottom Packer Depth: 3705

Surface Choke: 1" Bottom Choke: ¾"

Drill Pipe Size: 4½ FH Wt. Pipe Run 516 lb. I.D. 2.75

Collars Run: — I.D. —

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3741

Blow: Initial - weak built to bottom of bucket in 13 mins.

Final - weak - to bottom of bucket in 2 mins.

Tool Open: 60-20 plus Remarks:

External Rec# 13753 Depth: 3781

TEST RESULTS & RECOVERY

Interval Tested: 3705-3785 Zone Tested: Viola

Initial Hydrostatic Mud: 1946 P.S.I.

Initial Flow Pressure 58 To 68 P.S.I. Initial Flow Period 30 Min.

Initial Shut-In Pressure 1000 P.S.I. Initial Shut-In 45 Min.

Final Flow Pressure 89 To 97 P.S.I. Final Flow Period 60 Min.

Final Shut-In Pressure 838 P.S.I. Final Shut-In 45 Min.

Final Hydrostatic Mud 1922 P.S.I.

160 Feet Total Fluid Recovery 675 Feet Gas In Pipe

Recovered 40 Feet Cassy oil cut mud 73 %Gas 8 %Oil 7 %H_2O 12 %Mud

Recovered 60 Feet " " - 30 %Gas 20 %Oil 20 %H_2O 30 %Mud

Recovered 60 Feet " " - 40 %Gas 20 %Oil 3 %H_2O 37 %Mud

Recovered ____ Feet ____ - ____ %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered ____ Feet ____ - ____ %Gas ____ %Oil ____ %H_2O ____ %Mud

Recovered Fluid Properties: 59K P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω/m^2 BHT 113 F

Extra Equipment: ____

Price of Job: $550.00

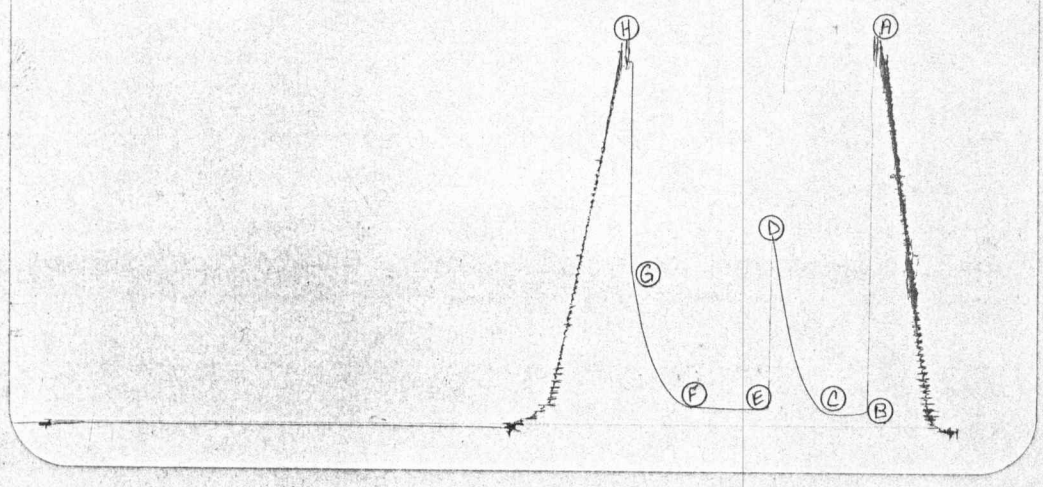
Approved By Mark A. Thompson

Our Representative Craig A. Buel

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Ticket No 1042

Ticket #1042 Rec #13963 Test#



FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Great Bend
(316) 792-6187

Test# 8

Company: Thunderbird Drilling Company

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/15/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Blow: Initial--weak to bottom of bucket in 2 minutes. Final-weak to bottom of bucket in one minute

Mud Weight 9.6 Viscosity 45 Water Loss 13

Total Depth: 3830'

Anchor Length: 40'

Top Packer Depth: 3785'

Bottom Packer Depth: 3790'

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 7:30 am Remarks:

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3792'

External Rec# 13753 Depth: 3826'

TEST RESULTS & RECOVERY

Interval Tested: 3790'-3830'

Zone Tested: Simpson Sand

Initial Hydrostatic Mud: 1971 P.S.I.

Initial Flow Pressure 97 To 628 P.S.I.

Initial Shut-In Pressure 1320 P.S.I.

Final Flow Pressure 704 To 1058 P.S.I.

Final Shut-In Pressure 1300 P.S.I.

Final Hydrostatic Mud 1961 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Final Flow Period 60 Min.

Final Shut-In 45 Min.

2400 Feet Total Fluid Recovery 60 Feet Gas In Pipe

Recovered 2400 Feet gas cut muddy water with oil specks — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Feet — %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: 39K P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: $\Omega_{/m^2}$ BHT 116°F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601
Hays (913) 628-1115
Great Bend (316) 792-6187

Test# 1

Company: Thunderbird Drlg Co

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407 Wichita Kans. 67218

Location: Sec. 11 Twp. 23 Rng. 13

County Stafford St. Kans

Company Representative: Mark Thompson

Date: Aug 15, 1985

Contractor: T-Bird Rig 1

Elevation: 1867 KB

Tester: Craig Buck

Mud 61K P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Blow: Initial - weak - to bottom at bucket - 2 mins.

Mud Weight 9.4 Viscosity 45 Water Loss 13

Total Depth: 3830

Anchor Length: 40

Top Packer Depth: 3785

Final weak - to bottom of bucket - 1 minute

Bottom Packer Depth: 3790

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 7:30 AM Remarks:

Drill Pipe Size: 4½ FH Wt. Pipe Run: Steel I.D. 2.75

Collars Run: I.D.

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3792

External Rec# 13753 Depth: 3826

TEST RESULTS & RECOVERY

Interval Tested: 3790-3830 Zone Tested: Simpson Sand

Initial Hydrostatic Mud: 1971 P.S.I.

Initial Flow Pressure 91 To 628 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 1320 P.S.I.

Initial Shut-In 45 Min.

Final Flow Pressure 704 To 1058 P.S.I.

Final Flow Period 60 Min.

Final Shut-In Pressure 1300 P.S.I.

Final Shut-In 45 Min.

Final Hydrostatic Mud 1961 P.S.I.

Feet Total Fluid Recovery 60 Feet Gas In Pipe

Recovered 240 Feet muddy water w/ oil specks %Gas %Oil %H_2O %Mud

Recovered Feet gas cut - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Feet - %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: 39K P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω/m^2 BHT 116 °F

Extra Equipment:

Price of Job: $550.00

Approved By

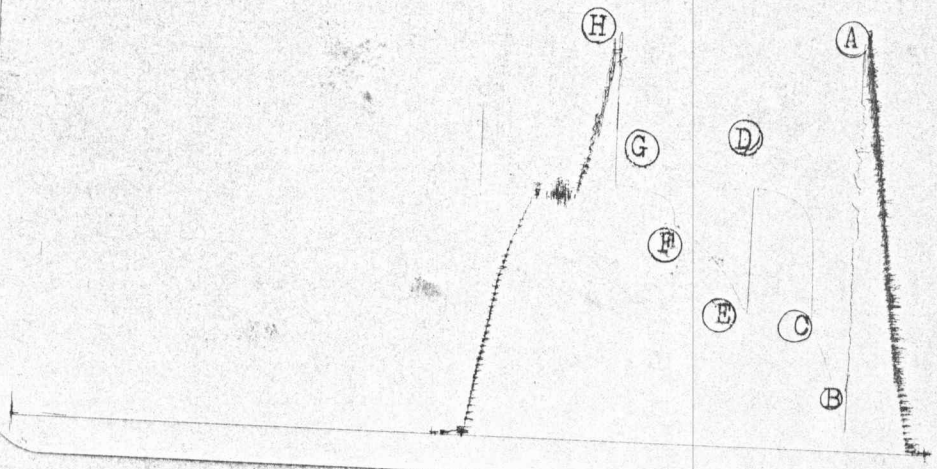
Craig A. Buck

Our Representative

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Ticket No 1043

Ticket #1043 Rec # 13752 Test # 5



FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Test# 9

Company: Thunderbird Drilling Company

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/16/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 48,000 P.P.M.Cl⁻ Hydrostatic .499 P.S.I./ft.

Mud Weight 9.6 Viscosity 42 Water Loss 12.4

Total Depth: 3857'

Anchor Length: 5'

Top Packer Depth: 3847'

Bottom Packer Depth: 3852'

Surface Choke: 1" Bottom Choke: 3/4"

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3840'

Blow: Initial-weak intermittent ½" blow, began decreasing last 10 minutes. Final-no blow.

Tool Open: 2:00 am Remarks:

External Rec# 13753 Depth: 3853'

TEST RESULTS & RECOVERY

Interval Tested: 3852'-3857' Zone Tested: Arbuckle

Initial Hydrostatic Mud: 2020 P.S.I.

Initial Flow Pressure 19 To 19 P.S.I.

Initial Shut-In Pressure 33 P.S.I.

Final Flow Pressure 25 To 25 P.S.I.

Final Shut-In Pressure 28 P.S.I.

Final Hydrostatic Mud 1990 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 30 Min.

Final Flow Period 30 Min.

Final Shut-In 30 Min.

5 Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 5 Feet mud w/show of oil in tool - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered _____ Feet - %Gas %Oil %H_2O %Mud

Recovered Fluid Properties: _____ P.P.M.Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω/m^2 BHT 112 °F

Extra Equipment: none

Price of Job:$550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Test# 9

Company: Thunderbird Drlg Co.

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407 Wichita Kans. 67218

Location: Sec. 11 Twp. 23 Rng. 13

County Stafford St. Kans

Date: Aug. 16, 1985

Company Representative: Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig 1

Tester: Craig Buel

Mud 48,000 P.P.M.Cl⁻ Hydrostatic 2099 P.S.I./ft.

Mud Weight 9⁶ Viscosity 42 Water Loss 12.4

Total Depth: 3857

Anchor Length: 5

Top Packer Depth: 3847

Bottom Packer Depth: 3852

Surface Choke: 1" Bottom Choke: ¾"

Drill Pipe Size: 4½ FH Wt. Pipe Run: 566 I.D 2.75

Collars Run: — I.D. —

Main Hole Size: 7⅞

Internal Rec# 13752 Depth: 3840

Blow: Initial- weak- intermittent ½" blow, began decreasing last 10 mins.

Final- No blow

Tool Open: 2 AM Remarks:

External Rec# 13753 Depth: 3853

TEST RESULTS & RECOVERY

Interval Tested: 3852- 3857 Zone Tested: Arbuckle

Initial Hydrostatic Mud: 2020 P.S.I.

Initial Flow Pressure 19 To 19 P.S.I.

Initial Shut-In Pressure 33 P.S.I.

Final Flow Pressure 25 To 25 P.S.I.

Final Shut-In Pressure 28 P.S.I.

Final Hydrostatic Mud 1998 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 30 Min.

Final Flow Period 30 Min.

Final Shut-In 30 Min.

_____ Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 5 Feet	mud	%Gas	%Oil	%H_2O	%Mud
Recovered Feet	W/show of oil-	%Gas	%Oil	%H_2O	%Mud
Recovered Feet	in tool-	%Gas	%Oil	%H_2O	%Mud
Recovered Feet		%Gas	%Oil	%H_2O	%Mud
Recovered Feet		%Gas	%Oil	%H_2O	%Mud

Recovered Fluid Properties: P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω/m^2 BHT 112 °F

Extra Equipment: Price of Job: 550.00

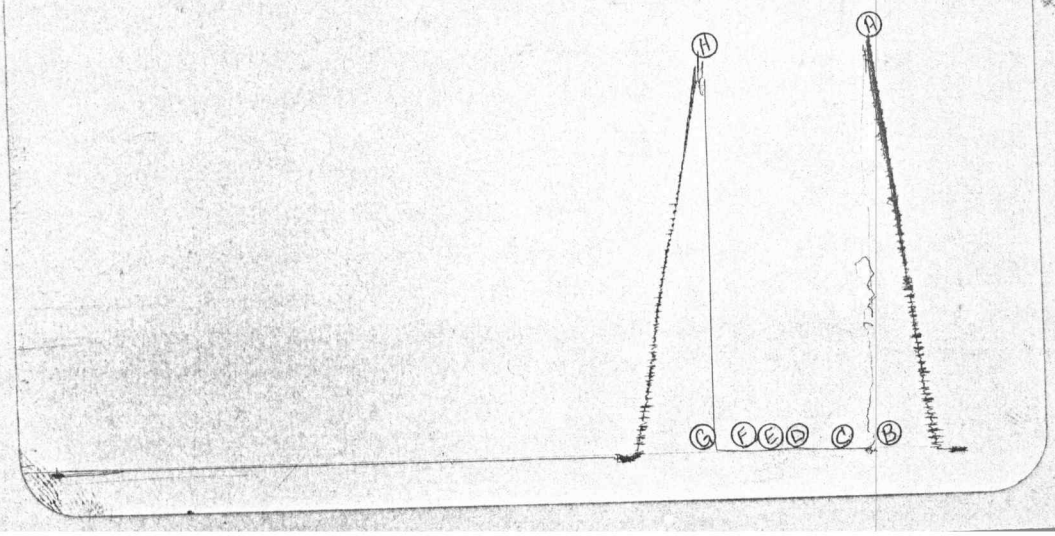
Approved By Craig Buel

Our Representative

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Ticket No 1044

Ticket #1044 Rec# 13753 Test# 9



FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 — Hays (913) 628-1115 — Great Bend (316) 792-6187

Test# 10

Company: Thunderbird Drilling Company

Lease Name: Wesley "A" #1

Company Address: P.O. Box 18407

Location: Sec. 11 Twp. 23S Rng. 13W

Wichita, Kansas 67218

County Stafford St. Kansas

Date: 08/16/85

Company Representative: Mr. Mark Thompson

Elevation: 1867 KB

Contractor: Thunderbird Rig #1

Tester: Mr. Craig Bucl

Mud 61K P.P.M.Cl⁻ Hydrostatic ____ P.S.I./ft.

Blow: Initial-weak building to 8" blow.

Mud Weight 9.6 Viscosity 46 Water Loss 16

Final--weak built to bottom of bucket in 12 minutes.

Total Depth: 3861'

Anchor Length: 8'

Top Packer Depth: 3848'

Bottom Packer Depth: 3853'

Surface Choke: 1" Bottom Choke: 3/4"

Tool Open: 11:45 am Remarks:

Drill Pipe Size: 4½" FH Wt. Pipe Run: 566 I.D. 2.75

Collars Run: -- I.D. --

Main Hole Size: 7 7/8"

Internal Rec# 13752 Depth: 3846'

External Rec# 13753 Depth: 3857'

TEST RESULTS & RECOVERY

Interval Tested: 3853'-3861'

Zone Tested: Arbuckle

Initial Hydrostatic Mud: 2010 P.S.I.

Initial Flow Pressure 28 To 38 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In 45 Min.

Initial Shut-In Pressure 1320 P.S.I.

Final Flow Period 60 Min.

Final Flow Pressure 67 To 319 P.S.I.

Final Shut-In 45 Min.

Final Shut-In Pressure 1320 P.S.I.

Final Hydrostatic Mud 1971 P.S.I.

700 Feet Total Fluid Recovery 390 Feet Gas In Pipe

Recovered	310	Feet	frothy oil	–	28	%Gas	62	%Oil	7	%H_2O 3 %Mud
Recovered	390	Feet	gas & slightly oil cut	–	5	%Gas	3	%Oil	92	%H_2O %Mud
Recovered		Feet	water	–		%Gas		%Oil		%H_2O %Mud
Recovered		Feet		–		%Gas		%Oil		%H_2O %Mud
Recovered		Feet		–		%Gas		%Oil		%H_2O %Mud

Recovered Fluid Properties: 25K P.P.M.Cl⁻ Gravity: °A.P.I. Resistivity: Ω_m BHT 128 °F

Extra Equipment: none

Price of Job: $550.00

FORMATION TESTING SERVICES

P.O.Box 518, Hays, Kansas 67601 | Hays (913) 628-1115 | Great Bend (316) 792-6187

Company: Thunderbird Drlg Co
Company Address: P.O. Box 18407
Wichita Ks 67218
Company Representative: Mark Thompson
Contractor: T-Bird Rig 1

Test# 10
Lease Name: Wesley "A" #1
Location: Sec. 11 Twp. 23 Rng. 13
County Stafford St. Kans
Date: Aug. 16, 1985
Elevation: 1867 KB
Tester: Craig Buck

Mud Wtr K P.P.M.Cl⁻ Hydrostatic ____ P.S.I./ft.
Mud Weight 9.4 Viscosity 46 Water Loss 16
Total Depth: 3861
Anchor Length: 8
Top Packer Depth: 3848
Bottom Packer Depth: 3853
Surface Choke: 1" Bottom Choke: 3/4"
Drill Pipe Size: 4½ FH Wt. Pipe Run: 516 I.D. 2.75
Collars Run: ____ I.D. ____
Main Hole Size: 7⅞
Internal Rec# 13752 Depth: 3846

Blow: Initial - weak bldg to 8" blow
Final weak built to bottom of bucket in 12 mins.
Tool Open: 11:45 AM Remarks:
External Rec# 13753 Depth: 3857

TEST RESULTS & RECOVERY

Interval Tested: 3853 - 3861 Zone Tested: Arbuckle
Initial Hydrostatic Mud: 2010 P.S.I.
Initial Flow Pressure 28 To 36 P.S.I.
Initial Shut-In Pressure 1320 P.S.I.
Final Flow Pressure 107 To 319 P.S.I.
Final Shut-In Pressure 1320 P.S.I.
Final Hydrostatic Mud 1971 P.S.I.

Initial Flow Period 30 Min.
Initial Shut-In 45 Min.
Final Flow Period 60 Min.
Final Shut-In 45 Min.

700 Feet Total Fluid Recovery 390 Feet Gas In Pipe

Recovered 310 Feet	Frothy oil	- 28	%Gas 42	%Oil 7	%H_2O 3	%Mud
Recovered 390 Feet	gas & slightly oil cut water	- 5	%Gas 3	%Oil 92	%H_2O ____	%Mud
Recovered ____ Feet	____	-	%Gas ____	%Oil ____	%H_2O ____	%Mud
Recovered ____ Feet	____	-	%Gas ____	%Oil ____	%H_2O ____	%Mud
Recovered ____ Feet	____	-	%Gas ____	%Oil ____	%H_2O ____	%Mud

Recovered Fluid Properties: 25K P.P.M.Cl⁻ Gravity: ____ °A.P.I. Resistivity: ____ Ω/m^2 BHT 128 °F

Extra Equipment: ____ Price of Job: $350.00

Approved By: Mark A. Thompson

Our Representative: Craig A. Buck

Formation Testing Services Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

Ticket No 1045