

Complete Field Service and Chart Evaluation

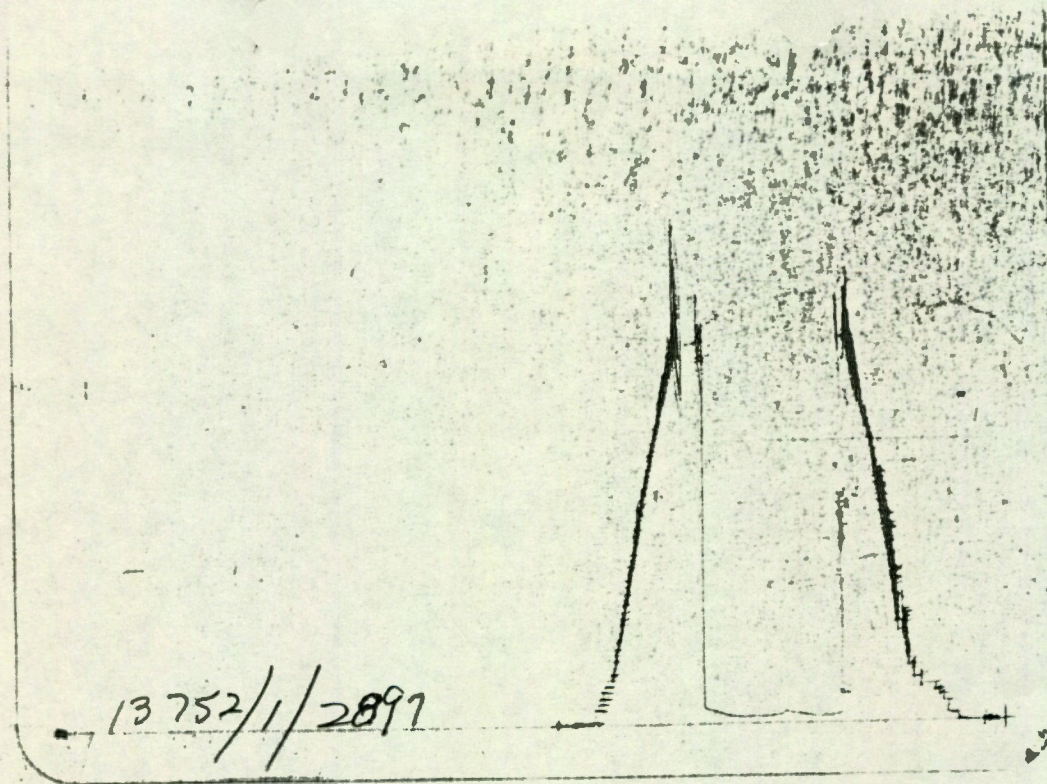
FORMATION TESTING SERVICES INC.

FORMATION TEST REPORT

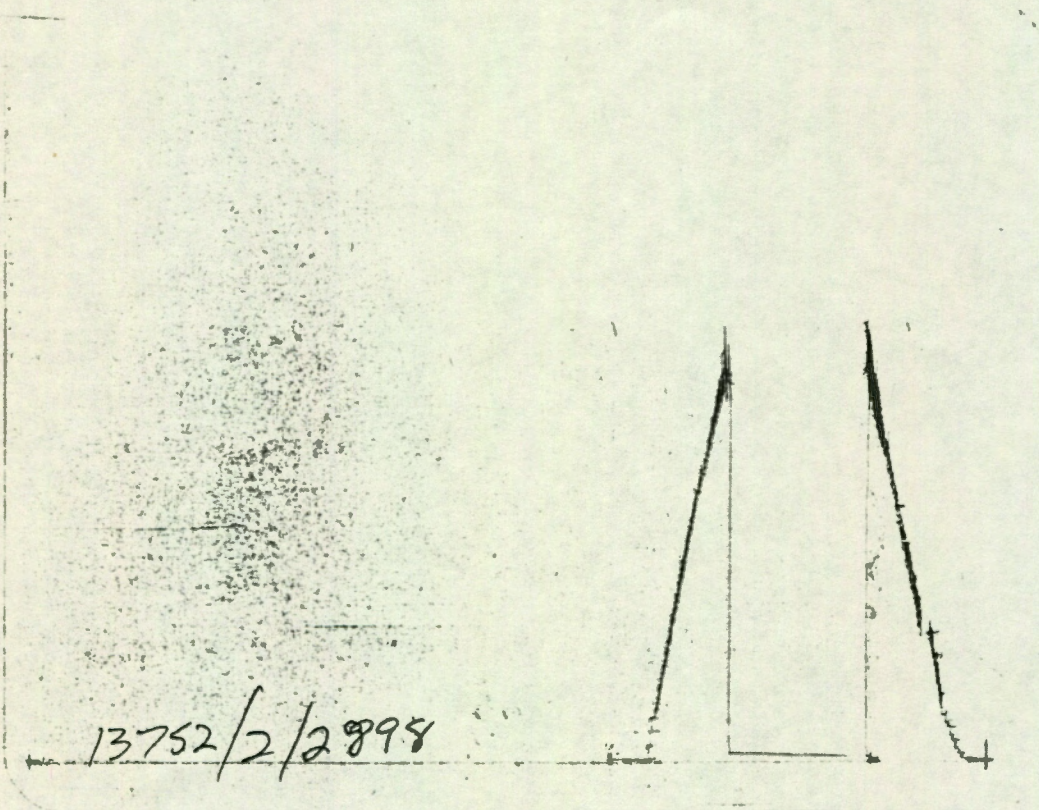
P.O.Box 518
Hays, Kans. 67601

Hays-Bus. (913) 628-1115

COMPANY **TEXAS ELDERADO - DAMAR** EASE AND WELL NO. **Roberts "D" 1-5** SEC **5** TWP **16S** RGE **28W** DATE **7/25/88**

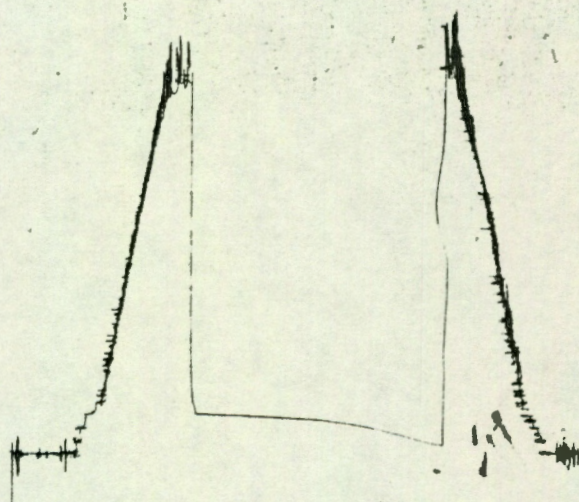


D.S.T. #1



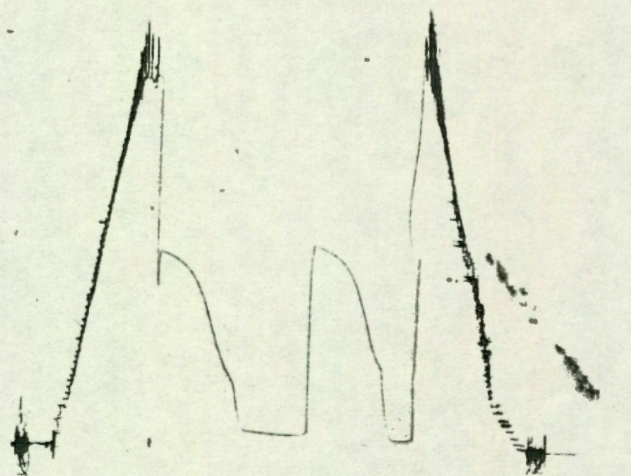
D.S.T. #2

13753[#]/3/2899



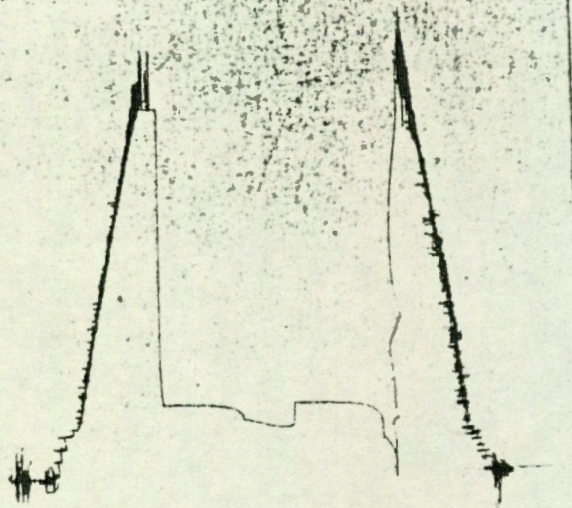
D.S.T. #3

13753/4/2900



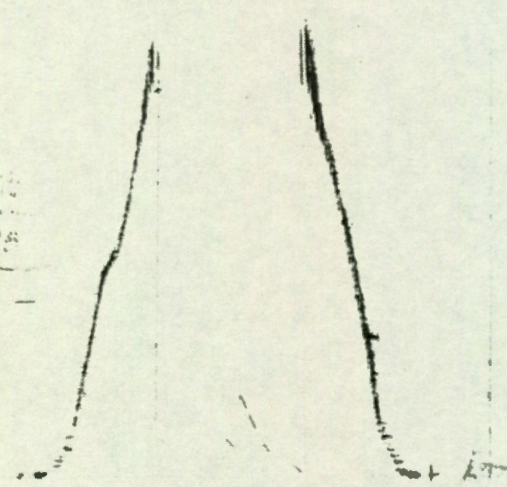
D.S.T. #4

13752/5/2901



D.S.T. #5

13752/6/2902



D.S.T. #6

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: TEXAS ELDORADO - DAMAR

Company Address: P.O. Box

HAYS KANSAS 67601

Company Representative: Ken Wiese

Contractor: White & Ellis Rig 8

Mud 7K P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 9.0 Viscosity 45 Water Loss 10.8

Total Depth: 4022'

Anchor Length: 15'

Top Packer Depth: 4002'

Bottom Packer Depth: 4001'

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

Drill Pipe Size: 4.5 IN Wt. Pipe Run: — I.D. —

Collars Run: 420 I.D. 2.875

Main Hole Size: 7 7/8"

Internal Rec# 13752[#] Depth: 4008'

Test# 1

Lease Name: Roberts D-1-5

Location: Sec. 5 Twp. 16S Rng. 28N

County LANC St. KS

Date: 7-17-88

Elevation: 2599 KB

Tester: L. Kuhn

Blow: IFP: Weak 4" Blow
Throughout

FFP: No Blow

Tool Open: 9:05 PM Remarks: _____

NE/SW/NE

External Rec# 13753[#] Depth: 4018'

TEST RESULTS & RECOVERY

Interval Tested: 4007-4022'

Zone Tested: KC 'J' zone

Initial Hydrostatic Mud: 1951 P.S.I.

Initial Flow Pressure 39 To 39 P.S.I.

Initial Shut-In Pressure 58 P.S.I.

Final Flow Pressure 39 To 39 P.S.I.

Final Shut-In Pressure 78 P.S.I.

Final Hydrostatic Mud 1912 P.S.I.

Initial Flow Period 15 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 Dry Mud w/ trace of Oil %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

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

Extra Equipment: None

Price of Job: 400⁰⁰

Approved By

Our Representative

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.

FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: TEXAS ELDERADO & DAMAR

Company Address: P.O. Box 70

HAYS KANSAS 67601

Company Representative: Ken Wiese

Contractor: White & Ellis Rig 8

Mud 7K P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 9.0 Viscosity 45 Water Loss 10.8

Total Depth: 4036'

Anchor Length: 19'

Top Packer Depth: 4012'

Bottom Packer Depth: 4017'

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

Drill Pipe Size: 4.5X4 Wt. Pipe Run: _____ I.D. _____

Collars Run: 420 I.D. 2.875

Main Hole Size: 778

Internal Rec# 13752[#] Depth: 4018'

Test# 2

Lease Name: Roberts "D" 1-5

Location: Sec. 5 Twp. 16S Rng. 28W

County LANE St. KANSAS

Date: 7-18-88

Elevation: 2579 KB

Tester: L. Kuhn

Blow: IFP: Weak 4 Blow
Throughout

FFP: No Blow

Tool Open: 8:15 AM Remarks: _____

NE-SW-NE

External Rec# 13753[#] Depth: 4032'

TEST RESULTS & RECOVERY

Interval Tested: 4017' - 4036'

Zone Tested: KC "K" zone

Initial Hydrostatic Mud: 1932 P.S.I.

Initial Flow Pressure 29 To 29 P.S.I.

Initial Shut-In Pressure 39 P.S.I.

Final Flow Pressure 39 To 39 P.S.I.

Final Shut-In Pressure 48 P.S.I.

Final Hydrostatic Mud 1932 P.S.I.

Initial Flow Period 15 Min.

Initial Shut-In 30 Min.

Final Flow Period 30 Min.

Final Shut-In 30 Min.

60' Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 60' Feet Drilg Mud w/trace Oil %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

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

Extra Equipment: None

Price of Job: 400⁰⁰

Approved By: _____

Our Representative: _____

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FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: Texas Eldorado-DAMAR

Company Address: P.O. Box 70

HAYS, KANSAS 67601

Company Representative: Ken Wise

Contractor: White & Ellis Rig

Mud 7K P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 9.0 Viscosity 45 Water Loss 10.8

Total Depth: 4070'

Anchor Length: 19'

Top Packer Depth: 4047'

Bottom Packer Depth: 4051'

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

Drill Pipe Size: 4.5 X H Wt. Pipe Run: _____ I.D. _____

Collars Run: 420 I.D. 2.875

Main Hole Size: 7 7/8

Internal Rec# 13752[#] Depth: 4052'

Test# DST#3

Lease Name: Roberts "D" 1-5

Location: Sec. 5 Twp. 16S Rng. 28W

County LANE St. KS

Date: 7-18-88

Elevation: 2578 KB

Tester: L. Kuhn

Blow: IFP: Blow off Bottom of the Bucket in 14 mins

FFP: Blow off Bottom of the Bucket in 30 mins

Tool Open: 7:45 PM Remarks: _____

NE/SW/NE

External Rec# 13753[#] Depth: 4066'

TEST RESULTS & RECOVERY

Interval Tested: 4051'-4070'

Zone Tested: Middle Creek

Initial Hydrostatic Mud: _____ P.S.I. MISRUN MANDRAI

Initial Flow Pressure _____ To _____ P.S.I. Twisted off on shut in

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

Final Flow Pressure _____ To _____ P.S.I. Tool

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

Final Hydrostatic Mud _____ P.S.I.

Initial Flow Period 15 Min.

Initial Shut-In 60 Min.

Final Flow Period 45 Min.

Final Shut-In 60 Min.

500' Feet Total Fluid Recovery 1100 Feet Gas In Pipe

Recovered 370' Feet Free Oil - %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered 130' Feet Mud Cut Oil - %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet - %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet - %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet - %Gas _____ %Oil _____ %H₂O _____ %Mud _____

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

Extra Equipment: None

Price of Job: 400⁰⁰

Approved By

Our Representative

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P.O. Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: TEXAS-ELDERADO-DAMAR

Company Address: P.O. Box 70

Hays KS 67601

Company Representative: Ken Wiese

Contractor: White & Ellis Rig

Mud SK P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 9.2 Viscosity 46 Water Loss 10.2

Total Depth: 4070'

Anchor Length: 19'

Top Packer Depth: 4046'

Bottom Packer Depth: 4051'

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

Drill Pipe Size: 4.5 KH Wt. Pipe Run: _____ I.D. _____

Collars Run: 420 I.D. 2.875

Main Hole Size: 7 7/8

Internal Rec# 13752 Depth: 4052'

Test# 4

Lease Name: Roberts D-125

Location: Sec. 5 Twp. 16S Rng. 28W

County LANE St. KS

Date: 7-19-88

Elevation: 2579 KB

Tester: L. Kuhn

Blow: IFP: Good Blow Increasingly
Through Out.

FFP: Good Blow Through
out.

Tool Open: 8:05 AM Remarks: _____

NE/SW/NE

External Rec# 13753 Depth: _____

TEST RESULTS & RECOVERY

Interval Tested: 4051' - 4070'

Zone Tested: Middle Creek

Initial Hydrostatic Mud: 1932 P.S.I.

Initial Flow Pressure 29 To 39 P.S.I.

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

Final Flow Pressure 48 To 78 P.S.I.

Final Shut-In Pressure 962 P.S.I.

Final Hydrostatic Mud 1932 P.S.I.

Initial Flow Period 15 Min.

Initial Shut-In 80 Min.

Final Flow Period 45 Min.

Final Shut-In 60 Min.

190' Feet Total Fluid Recovery 310' Feet Gas In Pipe

Recovered 130' Feet Clear Grassy Oil %Gas 100 %Oil _____ %H₂O _____ %Mud _____

Recovered 60' Feet Muddy Oil %Gas 80 %Oil _____ %H₂O 20 %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud _____

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

Extra Equipment: None

Price of Job: 400.00

Approved By: (Signature) (Thanks)

Our Representative: (Signature)

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FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: TEXAS ELDERADO - DAMAR

Company Address: Box 70

HAYS KANSAS 67601

Company Representative: Ken Wiese

Contractor: White & Ellis Rig 8

Mud 9K P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 9.2 Viscosity 46 Water Loss 10.8

Total Depth: 4084'

Anchor Length: 12'

Top Packer Depth: 4067'

Bottom Packer Depth: 4072'

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

Drill Pipe Size: 4.5X4 Wt. Pipe Run: _____ I.D. _____

Collars Run: 420 I.D. 2.875

Main Hole Size: 7 7/8"

Internal Rec# 13752# Depth: 4073'

Test# 5

Lease Name: Roberts "D" 1-5

Location: Sec. 5 Twp. 16S Rng. 28W

County LANE St. KANSAS

Date: 7-19-88

Elevation: 2599 KB

Tester: L. Kuhn

Blow: IFP: Blow off Bottom of the Bucket in 9 mins

FFP: Fair 4" Blow Throughout

Tool Open: 9:10 PM. Remarks: _____

NE/SW/NE

External Rec# 13753# Depth: 4080'

TEST RESULTS & RECOVERY

Interval Tested: 4072' - 4084'

Zone Tested: KC "L" Zone

Initial Hydrostatic Mud: 1932 P.S.I.

Initial Flow Pressure 87 To 184 P.S.I.

Initial Shut-In Pressure 349 P.S.I.

Final Flow Pressure 242 To 271 P.S.I.

Final Shut-In Pressure 349 P.S.I.

Final Hydrostatic Mud 1932 P.S.I.

Initial Flow Period 15 Min.

Initial Shut-In 60 Min.

Final Flow Period 45 Min.

Final Shut-In 60 Min.

580' Feet Total Fluid Recovery _____ Feet Gas In Pipe

Recovered 10' Feet Free Oil _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered 20' Feet Oil Cut Muddy Water _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered 550' Feet SALT WATER _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered Fluid Properties: 90,000 P.P.M. Cl⁻ Gravity: _____ °A.P.I. Resistivity: _____ Ω/m² BHT _____ °F

Extra Equipment: NONE

Price of Job: 400.00

Approved By: _____

Our Representative: Leon Kuhn

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FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601 (913) 628-1115

Company: Texas Eldorado - Damar

Company Address: P.O. Box 70
Hays KS 67601

Company Representative: Ken Wiese

Contractor: Whitot Ellis Rigg

Mud P.P.M. Cl⁻ Hydrostatic P.S.I./ft.

Mud Weight Viscosity Water Loss

Total Depth: 4220'

Anchor Length: 28'

Top Packer Depth: 4187'

Bottom Packer Depth: 4192'

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

Drill Pipe Size: 4.5KH Wt. Pipe Run: I.D.

Collars Run: 420 I.D. 2.875

Main Hole Size: 778

Internal Rec# 13752[#] Depth: 4193'

Test# 6

Lease Name: Roberts 'D' 1-5

Location: Sec. 5 Twp. 16s Rng. 28w

County LANE St. KANSAS

Date: 7-20-88

Elevation: 2579 KB

Tester: L. Kuhn

Blow: IFP: WEAK Blow Died
in 5 mins

FFP: No B/oo

Tool Open: 6:45 PM Remarks:

NE/SW/NE

External Rec# 13753[#] Depth: 4216'

TEST RESULTS & RECOVERY

Interval Tested: 4192' - 4220'

Zone Tested: PAWNEE

Initial Hydrostatic Mud: 2198 P.S.I.

Initial Flow Pressure 39 To 87 P.S.I.

Initial Shut-In Pressure 388 P.S.I.

Final Flow Pressure 87 To 87 P.S.I.

Final Shut-In Pressure 194 P.S.I.

Final Hydrostatic Mud 1932 P.S.I.

5' Feet Total Fluid Recovery Feet Gas In Pipe

Recovered 5' Feet Dark Mud - %Gas %Oil %H₂O %Mud

Recovered Feet - %Gas %Oil %H₂O %Mud

Recovered Feet - %Gas %Oil %H₂O %Mud

Recovered Feet - %Gas %Oil %H₂O %Mud

Recovered Feet - %Gas %Oil %H₂O %Mud

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

Extra Equipment: NONE Price of Job: 400⁰⁰

Approved By

Our Representative

No 2002

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FORMATION TESTING SERVICES

P.O.Box 518,
Hays, Kansas 67601

Hays
(913) 628-1115

Company: Texas-Eldorado - Damar

Company Address: Box 70

Hays KS 67601

Company Representative: Ken Wiese

Contractor: White & Ellis Rig

Mud 3K P.P.M. Cl⁻ Hydrostatic _____ P.S.I./ft.

Mud Weight 8.7 Viscosity 47 Water Loss 198

Total Depth: 4310'

Anchor Length: 54'

Top Packer Depth: 4251'

Bottom Packer Depth: 4256'

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

Drill Pipe Size: 4.5xH Wt. Pipe Run: _____ I.D. _____

Collars Run: 420' I.D. 2875

Main Hole Size: 778

Internal Rec# 13753# Depth: 4257'

Test# 7

Lease Name: Roberts "D" 15

Location: Sec. 5 Twp. 16S Rng. 28W

County LANC St. KANSAS

Date: 7-21-88

Elevation: 2579' KB

Tester: L. Kuhn

Blow: IFP: Weak 4" Blow Died

in 3 mins Flushed Tool Blow

Died in 2 mins

FFP: No Blow

Tool Open: 2:15 P.M. Remarks: _____

NE / SW / NE

External Rec# 13752# Depth: 4306'

TEST RESULTS & RECOVERY

Interval Tested: 4256' - 4310'

Zone Tested: Fort Scott

Initial Hydrostatic Mud: 2129 P.S.I.

Initial Flow Pressure 39 To 58 P.S.I.

Initial Shut-In Pressure 915 P.S.I.

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

Final Shut-In Pressure 637 P.S.I.

Final Hydrostatic Mud 2129 P.S.I.

Initial Flow Period 15 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 Delg Mud _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

Recovered _____ Feet _____ %Gas _____ %Oil _____ %H₂O _____ %Mud

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

Extra Equipment: None

Price of Job: 400⁰⁰

Approved By: [Signature]

Our Representative: [Signature] (THANKS)

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