

ROYAL TESTING CO.

P. O. Box 718, Hays, KS. 67601, Ph. (913) 628-3387



Test No. 1
Date 10-22-82
Elevation 1980 KB
Location 27-7-20
County Rooks
Number of Copies 5

Approved By [Signature]

Company Thunderbird

Address P.O. Box 18407 Wichita, Ks. ~~67218~~ 67218

Charts Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Invoice Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Lease Hamel Well No. 1 Formation Tested TOPEKA

Depth 3170 Tested From 3111 To 3170 Anchor Length 59 Ft.

Packer Size 6 3/4 Top Packer Depth 3106 Bottom Packer Depth 3111

Tool Joint Size 4 1/2 FH Tool Size 5 1/2 OD Hole Size 7 7/8

Drilling Contractor Thunderbird

Length Drill Pipe 2319 I.D. Drill Pipe 3.8 Tool Joint Size 4 1/2 FH

Length Weight Pipe 569 I.D. Weight Pipe 3.6 Tool Joint Size 4 1/2 KH

Length Drill Collars -N- I.D. Drill Collars -N- Tool Joint Size -N-

Time Intv. 30 min. 45 min. 60 min. 45 min. Initial Hydrostatic Pressure (A) 1640 PS

Tool Open From 10:55 p m To 11:25 p m Initial Flow Pressure (B) 126 To 214

Tool Closed From 11:25 p m To 12:10 p m Initial Shut-In Pressure (C) 1164 PS

Tool Open From 12:10 A m To 1:10 A m Final Flow Pressure (D) 380 To 565

Tool Closed From 1:10 A m To 1:55 A m Final Shut-In Pressure (E) 1164 PS

Temp. 100 °F Final Hydrostatic Pressure 1611 PS

Blow 1st Open Strong Blow off bottom of bucket in 5 min.

Blow 2nd Open Strong Blow off bottom of bucket in 8 min

Gas To Surface _____ Min. Orface Size _____ Mud Weight 9.4 Viscosity 54

Recovery 1125 FT Muddy WTR w/VERY FEW oil specks in Top 60 FT

Remarks _____

Extra Equipment: Jars _____ Joint _____ Packer _____ Straddle _____

Hook _____ Circ. Sub 15.00

Top Recorder No. 13386 Clock No. 8202

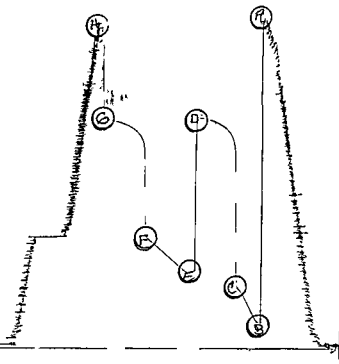
Bottom Recorder No. 13387 Clock No. 26187

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No 058 Thank You Dennie Kean Price of Job \$ 565⁰⁰

4

133



05.8.11

DST #1

13386



D.S.T. #1

Photostat of original recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1640	1650
(B) First Initial Flow Pressure	126	130
(C) First Final Flow Pressure	214	308
(D) Initial Closed-in Pressure	1164	1162
(E) Second Initial Flow Pressure	386	386
(F) Second Final Flow Pressure	565	561
(G) Final Closed-in Pressure	1164	1156
(H) Final Hydrostatic Mud	1611	1617

ROYAL TESTING CO.

P. O. Box 718, Hays, KS 67601, Ph. (913) 628-3387



Test No. 2
Date 10-23-82
Elevation 1980 KB
Location 27-7-20
County Rooks
Number of Copies 5

Approved By [Signature]

Company Thunderbird

Address P.O. Box 18407 Wichita, Ks. 67218

Charts Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Invoice Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Lease Hamel Well No. 1 Formation Tested Kansas City

Depth 3220 Tested From 3194 To 3220 Anchor Length 26 Ft

Packer Size 6 3/4 Top Packer Depth 3189 Bottom Packer Depth 3194

Tool Joint Size 4 1/2 FH Tool Size 5 1/2 OD Hole Size 7 7/8

Drilling Contractor Thunderbird

Length Drill Pipe 2369 I.D. Drill Pipe 3.8 Tool Joint Size 4 1/2 FH

Length Weight Pipe 569 I.D. Weight Pipe 3.6 Tool Joint Size 4 1/2 KH

Length Drill Collars -N- I.D. Drill Collars -N- Tool Joint Size -N-

Time Intv. 30 min. 45 min. 30 min. 45 min. Initial Hydrostatic Pressure (A) 1728 PS

Tool Open From 2:40 p m To 3:10 p m Initial Flow Pressure (B) 58 To 58

Tool Closed From 3:10 p m To 3:55 p m Initial Shut-In Pressure (C) 1116 PS

Tool Open From 3:55 p m To 4:25 p m Final Flow Pressure (D) 58 To 58

Tool Closed From 4:25 p m To 5:10 p m Final Shut-In Pressure (E) 1116 PS

Temp. _____ OF Final Hydrostatic Pressure 1699 PS

Blow 1st Open WEAK Blow - VERY slow Bldg

Blow 2nd Open No Blow

Gas To Surface _____ Min. Orface Size _____ Mud Weight 9.6 Viscosity 44

Recovery 15 FT Mud

Remarks Flush Tool on 2nd opening

Extra Equipment: Jars _____ Joint _____ Packer _____ Straddle _____

Hook _____ Circ. Sub _____

Top Recorder No. 13386 Clock No. 8202

Bottom Recorder No. 13387 Clock No. 26187

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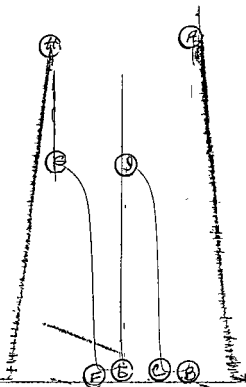
No 059 Thank You Dennie Kean Price of Job \$ 550⁰⁰

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DST # 2

13387



059

DST #2

13386



D.S.T. #2

Photostat of original recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1728	1683
(B) First Initial Flow Pressure	58	56
(C) First Final Flow Pressure	58	54
(D) Initial Closed-in Pressure	1116	1108
(E) Second Initial Flow Pressure	58	61
(F) Second Final Flow Pressure	58	61
(G) Final Closed-in Pressure	1116	1106
(H) Final Hydrostatic Mud	1699	1658

ROYAL TESTING CO.



P. O. BOX 718, Hays, KS 67601, Ph. (913) 628-3387

Test No. 3
Date 10-24-82
Elevation 1980 KB
Location 27-7-20
County Rooks
Number of Copies 5

Approved By

Company

Address P.O. Box 18407 Wichita, Ks. 67218

Charts Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Invoice Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Lease HAMEL Well No. 1 Formation Tested Kansas City

Depth 3365 Tested From 3318 To 3365 Anchor Length 47 Ft

Packer Size 6 3/4 Top Packer Depth 3313 Bottom Packer Depth 3318

Tool Joint Size 4 1/2 FH Tool Size 5 1/2 OD Hole Size 7 1/8

Drilling Contractor Thunderbird Delq Rig #1

Length Drill Pipe 2513 I.D. Drill Pipe 3-8 Tool Joint Size 4 1/2 FH

Length Weight Pipe 569 I.D. Weight Pipe 3-6 Tool Joint Size 4 1/2 x H

Length Drill Collars -N- I.D. Drill Collars -N- Tool Joint Size -N-

Time Intv. 30 min. 30 min. 30 min. 30 min. Initial Hydrostatic Pressure (A) 1718 PS

Tool Open From 2:55 p m To 3:25 p m Initial Flow Pressure (B) 58 To 58

Tool Closed From 3:25 p m To 3:55 p m Initial Shut-In Pressure (C) 903 PS

Tool Open From 3:55 p m To 4:25 p m Final Flow Pressure (D) 68 To 58

Tool Closed From 4:25 p m To 4:55 p m Final Shut-In Pressure (E) 806 PS

Temp. 104 °F Final Hydrostatic Pressure 1689 PS

Blow 1st Open WEAK Blow - Died in 25 min

Blow 2nd Open No Blow

Gas To Surface _____ Min. Orface Size _____ Mud Weight 9.7 Viscosity 45

Recovery 10 FT Mud

Remarks Flushed Tool on second opening

Read off Bottom chart

Extra Equipment: Jars _____ Joint _____ Packer _____ Straddle _____

Hook _____ Circ. Sub _____

Top Recorder No. 13386 Clock No. 8202

Bottom Recorder No. 13387 Clock No. 26187

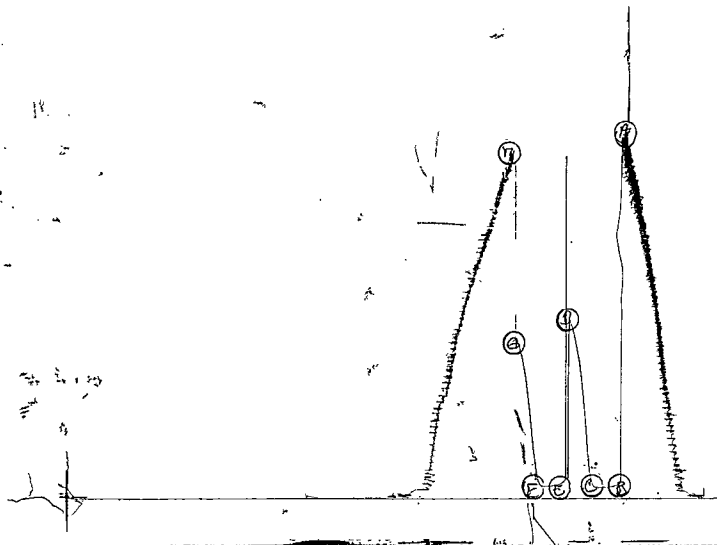
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No 060 Thank You Dennie Kean Price of Job \$ 550.00

060

DST # 3

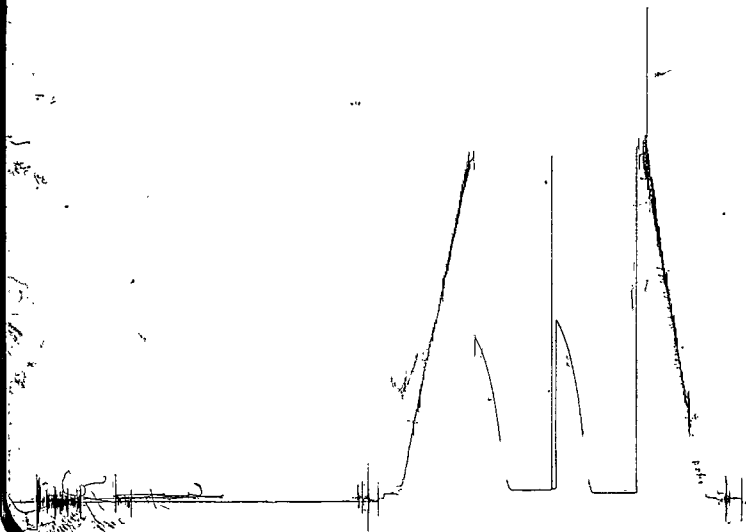
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OST. # 3

13386



D.S.T. #3

Photostat of original recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1718	1739
(B) First Initial Flow Pressure	58	60
(C) First Final Flow Pressure	58	58
(D) Initial Closed-in Pressure	903	901
(E) Second Initial Flow Pressure	68	66
(F) Second Final Flow Pressure	58	64
(G) Final Closed-in Pressure	806	807
(H) Final Hydrostatic Mud	1689	1700

ROYAL TESTING CO.

P. O. Box 718, Hays, KS 67601, Ph. (913) 628-3387



Test No. 24
Date 10-25-82
Elevation 1980 AB
Location 27-7-20
County Rooks
Number of Copies 5

Approved By Stanley Coy

Company Thunderbird

Address P.O. Box 18407 Wichita, Ks. 67218

Charts Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Invoice Mailed To: P.O. Box 18407 Wichita, Ks. 67218

Lease Hamel Well No. 1 Formation Tested Kansas City

Depth 3400 Tested From 3358 To 3400 Anchor Length 42 Ft

Packer Size 6 3/4 Top Packer Depth 3353 Bottom Packer Depth 3358

Tool Joint Size 4 1/2 FH Tool Size 5 1/2 OD Hole Size 7 7/8

Drilling Contractor Thunderbird Drllg. Rig #1

Length Drill Pipe 2767 I.D. Drill Pipe 3.8 Tool Joint Size 4 1/2 FH

Length Weight Pipe 569 I.D. Weight Pipe 3.6 Tool Joint Size 4 1/2 XH

Length Drill Collars -N- I.D. Drill Collars -N- Tool Joint Size -N-

Time Intv. 30 min. 45 min. 30 min. 45 min. Initial Hydrostatic Pressure (A) 1819 PS

Tool Open From 3:35 a.m. To 4:05 a.m. Initial Flow Pressure (B) 49 To 49

Tool Closed From 4:05 a.m. To 4:50 a.m. Initial Shut-In Pressure (C) 127 PS

Tool Open From 4:50 a.m. To 5:20 a.m. Final Flow Pressure (D) 49 To 49

Tool Closed From 5:20 a.m. To 6:05 a.m. Final Shut-In Pressure (E) 88 PS

Temp. 102 °F Final Hydrostatic Pressure 1790 PS

Blow 1st Open Weak Slow Bldg Blow

Blow 2nd Open No Blow

Gas To Surface Min. Orface Size Mud Weight 9.7 Viscosity 45

Recovery 5 FT of Mud

Remarks Flushed Tool on second opening

Extra Equipment: Jars Joint Packer Straddle

Hook Circ. Sub

Top Recorder No. 13386 Clock No. 8202

Bottom Recorder No. 13387 Clock No. 26187

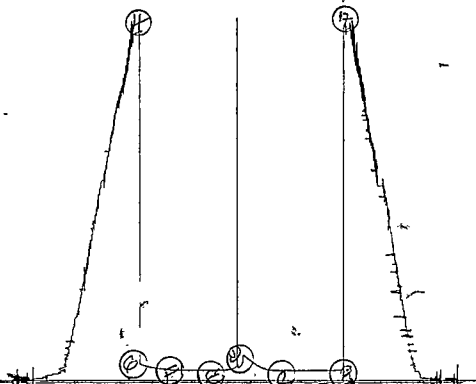
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No 061 Thank You Dennie Kean Price of Job \$ 550.00

13386

OST # 4

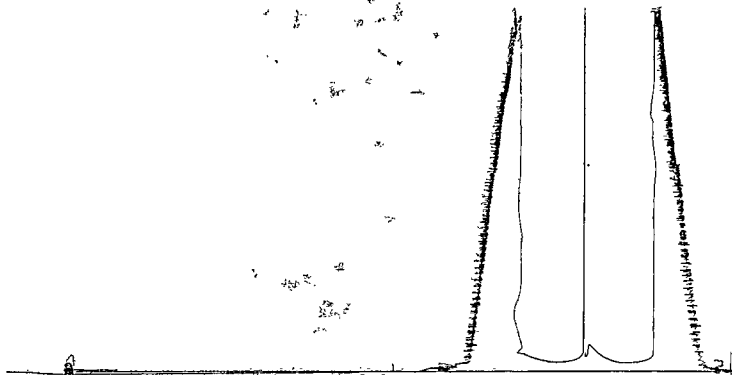
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061

DST II 4

13387



D.S.T. #4

Photostat of original recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1819	1802
(B) First Initial Flow Pressure	49	52
(C) First Final Flow Pressure	49	52
(D) Initial Closed-in Pressure	127	128
(E) Second Initial Flow Pressure	49	60
(F) Second Final Flow Pressure	49	54
(G) Final Closed-in Pressure	88	84
(H) Final Hydrostatic Mud	1790	1763

ROYAL TESTING CO.

P. O. Box 718, Hays, KS 67601, Ph. (913) 628-3387



Test No. 5
Date 10-25-82
Elevation 1980 KB
Location 27-7-20
County Rooks
Number of Copies 5

Approved By Stanley Cox
Company Thunderbird
Address P.O. Box 18407 Wichita, KS 67218
Charts Mailed To: P.O. Box 18407 Wichita, KS 67218
Invoice Mailed To: P.O. Box 18407 Wichita, KS 67218
Lease Hamel Well No. 1 Formation Tested Arbuckle
Depth 3473 Tested From 3425 To 3473 Anchor Length 48 Ft
Packer Size 6 3/4 Top Packer Depth 3420 Bottom Packer Depth 3425
Tool Joint Size 4 1/2 FH Tool Size 5 1/2 OD Hole Size 7 7/8
Drilling Contractor Thunderbird Drlg. Rig #1
Length Drill Pipe 2834 I.D. Drill Pipe 3.8 Tool Joint Size 4 1/2 FH
Length Weight Pipe 569 I.D. Weight Pipe 3.6 Tool Joint Size 4 1/2 XH
Length Drill Collars -N- I.D. Drill Collars -N- Tool Joint Size -N-
Time Intv. 30 min. 45 min. 30 min. 45 min. Initial Hydrostatic Pressure (A) 1868 PS
Tool Open From 9:20 p m To 9:50 p m Initial Flow Pressure (B) 68 To 58
Tool Closed From 9:50 p m To 10:35 p m Initial Shut-In Pressure (C) 362 PS
Tool Open From 10:35 p m To 11:05 p m Final Flow Pressure (D) 68 To 68
Tool Closed From 11:05 p m To 11:50 p m Final Shut-In Pressure (E) 186 PS
Temp. 108 °F Final Hydrostatic Pressure ~~1868~~ 1839 PS
Blow 1st Open Weak Bldg Blow

Blow 2nd Open WEAK Blow - after flushing tool - Died in 10 min

Gas To Surface _____ Min. Orface Size _____ Mud Weight 9.8 Viscosity 45
Recovery 15 FT of Mud

Remarks _____

Extra Equipment: Jars _____ Joint _____ Packer _____ Straddle _____

Hook _____ Circ. Sub _____

Top Recorder No. 13386 Clock No. 8202

Bottom Recorder No. 13387 Clock No. 26187

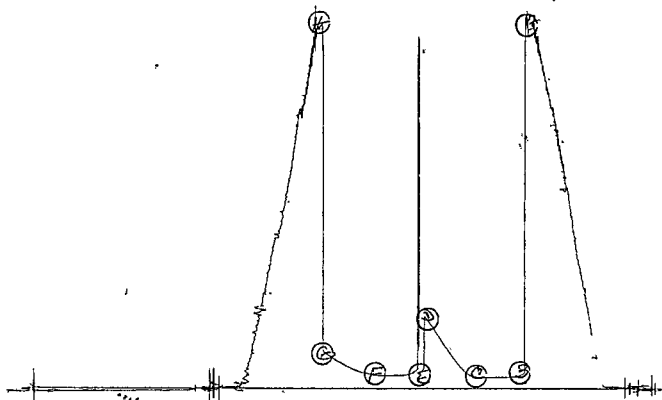
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No 062 Thank You Donnie Kean Price of Job \$ 550⁰⁰

40-155-100

10/12/20

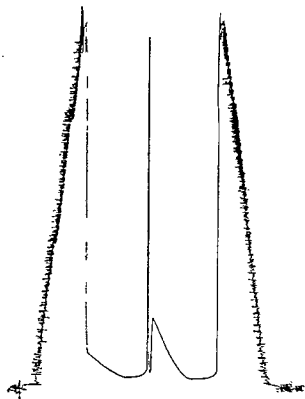
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062

DST #5

13387



D.S.T. #5

Photostat of original recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1868	1882
(B) First Initial Flow Pressure	68	60
(C) First Final Flow Pressure	58	56
(D) Initial Closed-in Pressure	362	366
(E) Second Initial Flow Pressure	68	81
(F) Second Final Flow Pressure	68	66
(G) Final Closed-in Pressure	186	185
(H) Final Hydrostatic Mud	1839	1853