

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Moble C. Hoover	Test No.	1
Well Name & Number	Quint #1	Zone Tested	K.C.
Company Address	NBC Bldg.; Suite 302 ElDorado, Ark.	Date	9-5-77
Comp. Rep.	Greg Cheney	Tester	James Ricketts
Contractor	Abercrombie Drlg. Inc.	Elevation	2203 K.B.
Location: Sec.19 Twp. 8S Rge.22W Co. Graham State KS		Est. Feet of Pay	

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3526

(A) Initial Hydrostatic Mud 1869 PSI

(B) First Initial Flow Pressure 43 PSI

(C) First Final Flow Pressure 43 PSI

(D) Initial Closed-in Pressure 1099 PSI

(E) Second Initial Flow Pressure 53 PSI

(F) Second Final Flow Pressure 53 PSI

(G) Final Closed-in Pressure 1014 PSI

(H) Final Hydrostatic Mud 1837 PSI

Temperature 108

Mud Weight 9.0 Viscosity 38

Fluid Loss 11.2

Interval Tested 3473-3529

Anchor Length 56'

Top Packer Depth 3468

Bottom Packer Depth 3473

Total Depth 3529

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 62

Recovered 62 Feet Of SOCM 75% mud, 22% water, 2% oil

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None Price of Job \$380.00

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 3523

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 45 Mins.

Final Shut-in 45 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 10:30 P.M.

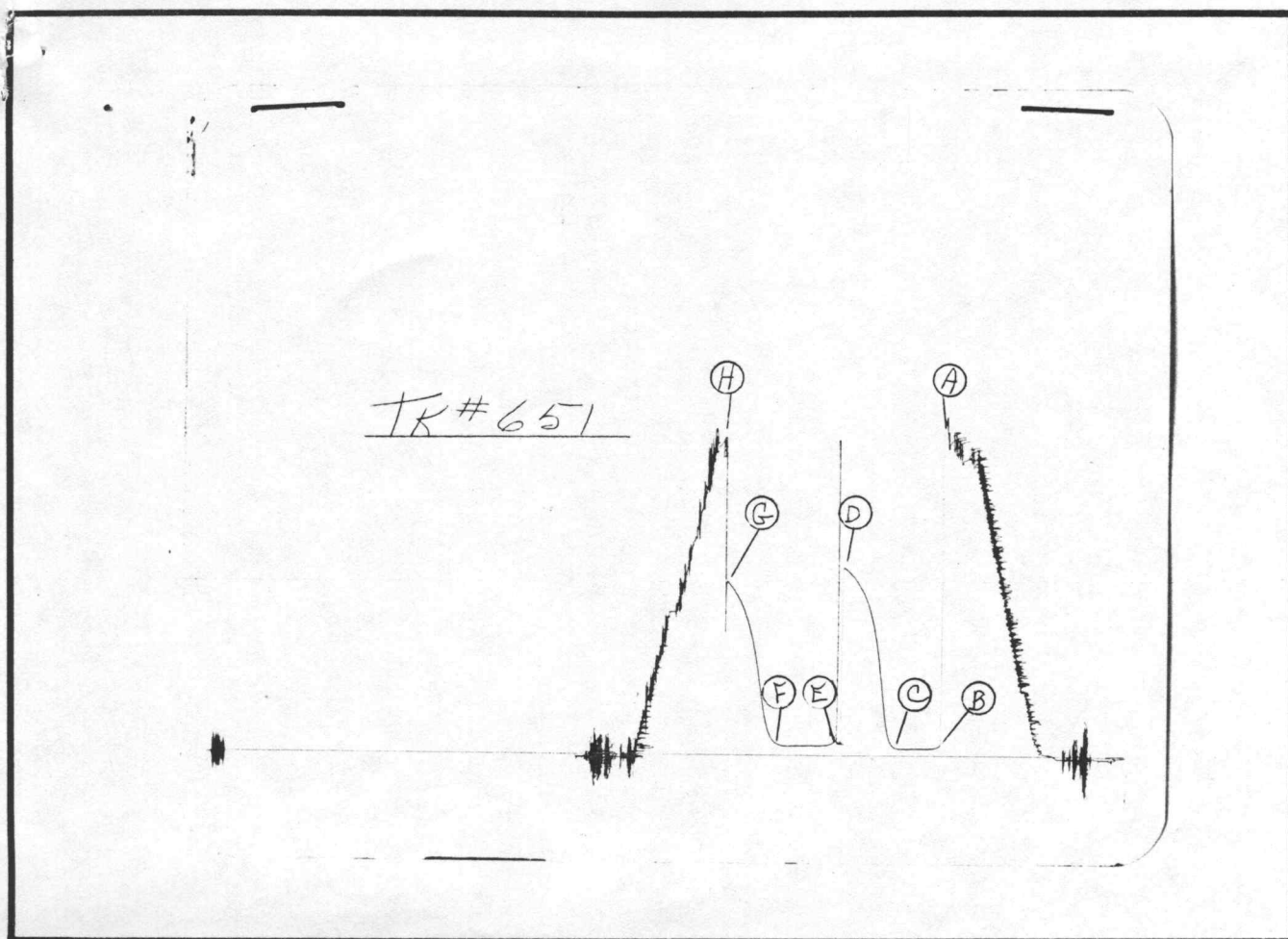
Blow No blow final flow period.

Remarks Flush tool no help

DST F1 Chlorides 16,000 PPM

Drill Collar I. D. Ft. Run

ORLIN PHELPS



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1869	PSI
(B) First Initial Flow Pressure	43	PSI
(C) First Final Flow Pressure	43	PSI
(D) Initial Closed-in Pressure	1099	PSI
(E) Second Initial Flow Pressure	53	PSI
(F) Second Final Flow Pressure	53	PSI
(G) Final Closed-in Pressure	1014	PSI
(H) Final Hydrostatic Mud	1837	PSI

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P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Moble C. Hoover	Test No.	2
Well Name & Number	Quint #1	Zone Tested	K.C. 80'
Company Address	El Dorado. Ark.	Date	9-6-77
Comp. Rep.	Greg Cheney	Tester	James Ricketts
Contractor	Abercrombie Drlg. Inc.	Elevation	2203 K.B.
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Ks		Est. Feet of Pay	

Recorder No. 6730 Type kuster Range 4200 PSI

Recorder Depth 3536

(A) Initial Hydrostatic Mud 1890 PSI

(B) First Initial Flow Pressure 75 PSI

(C) First Final Flow Pressure 150 PSI

(D) Initial Closed-in Pressure 1085 PSI

(E) Second Initial Flow Pressure 183 PSI

(F) Second Final Flow Pressure 409 PSI

(G) Final Closed-in Pressure 1025 PSI

(H) Final Hydrostatic Mud 1858 PSI

Temperature 108

Mud Weight 9.9 Viscosity 42

Fluid Loss 12

Interval Tested 3510-3539

Anchor Length 29'

Top Packer Depth 3505

Bottom Packer Depth 3510

Total Depth 3539

Drill Pipe Size 4" F.h.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 840

Recovered 840 Feet Of SMCW

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment None

Recorder No. 1760 Type kuster Range 3500 PSI

Recorder Depth 3533

Tool Open Before I. S. I. 15 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 45 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 11:00 A.M.

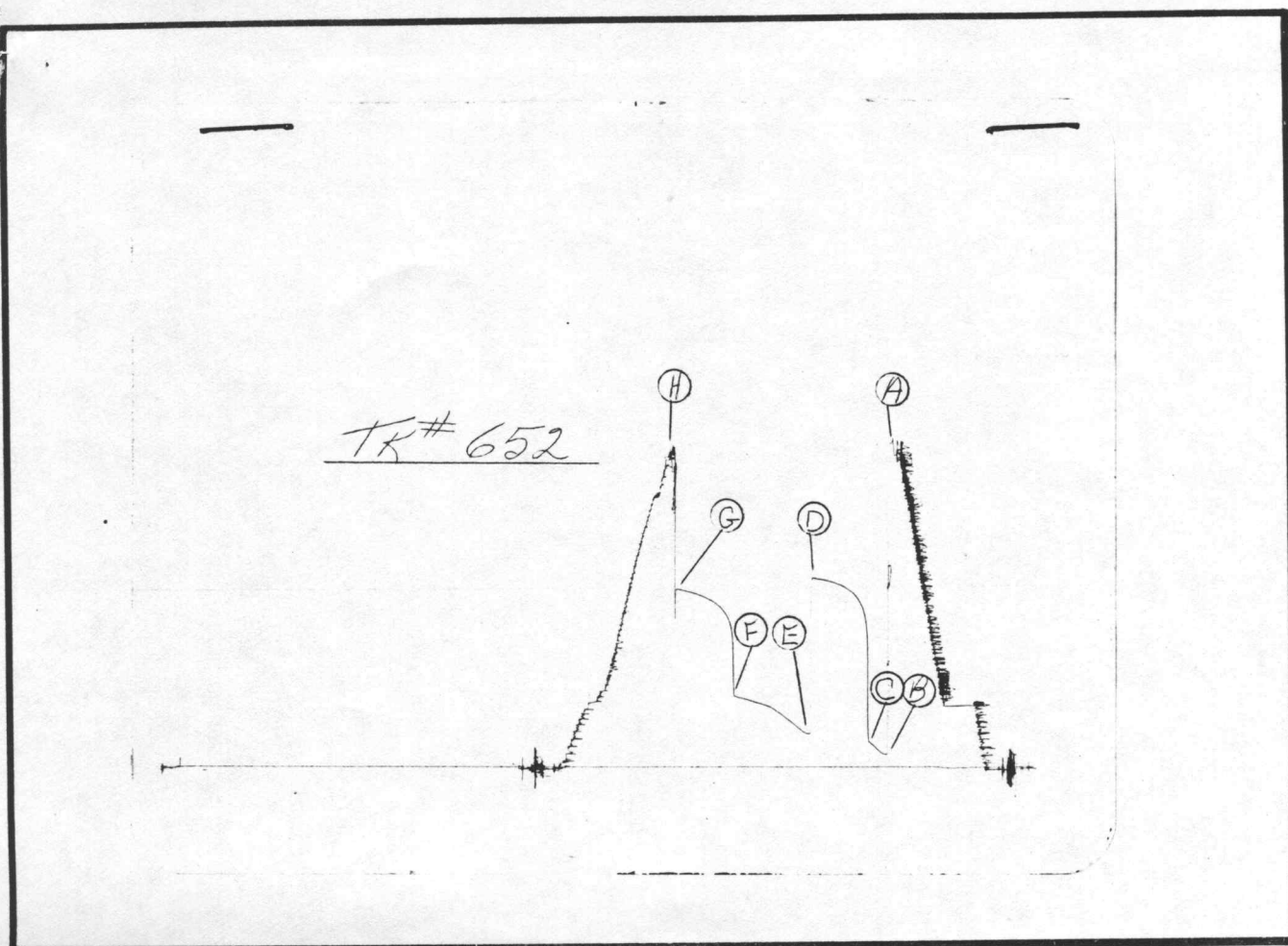
Blow Strong

Remarks

DST Fl Chlorides 34,000 PPM

Drill Collar I. D. Ft. Run

Price of Job \$380.00



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1890	PSI
(B) First Initial Flow Pressure	75	PSI
(C) First Final Flow Pressure	150	PSI
(D) Initial Closed-in Pressure	1085	PSI
(E) Second Initial Flow Pressure	183	PSI
(F) Second Final Flow Pressure	409	PSI
(G) Final Closed-in Pressure	1025	PSI
(H) Final Hydrostatic Mud	1858	PSI

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Moble C. Hoover	Test No.	3
Well Name & Number	Quint #1	Zone Tested	K.C.
Company Address	NBC Bldg; Suite 302, ElDorado, Ark.	Date	9-7-77
Comp. Rep.	Orlin Phelps	Tester	James Ricketts
Contractor	Abercrombie Drlg. Inc.	Elevation	2203 K.B.
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3597

(A) Initial Hydrostatic Mud 1890 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 21 PSI

(D) Initial Closed-in Pressure 21 PSI

(E) Second Initial Flow Pressure 21 PSI

(F) Second Final Flow Pressure 21 PSI

(G) Final Closed-in Pressure 21 PSI

(H) Final Hydrostatic Mud 1879 PSI

Temperature 109°

Mud Weight 9.9 Viscosity 42

Fluid Loss 12.0 cc

Interval Tested 3571-3600

Anchor Length 29'

Top Packer Depth 3566

Bottom Packer Depth 3571

Total Depth 3600

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 3

Recovered 3 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 3594

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 3:00 A.M.

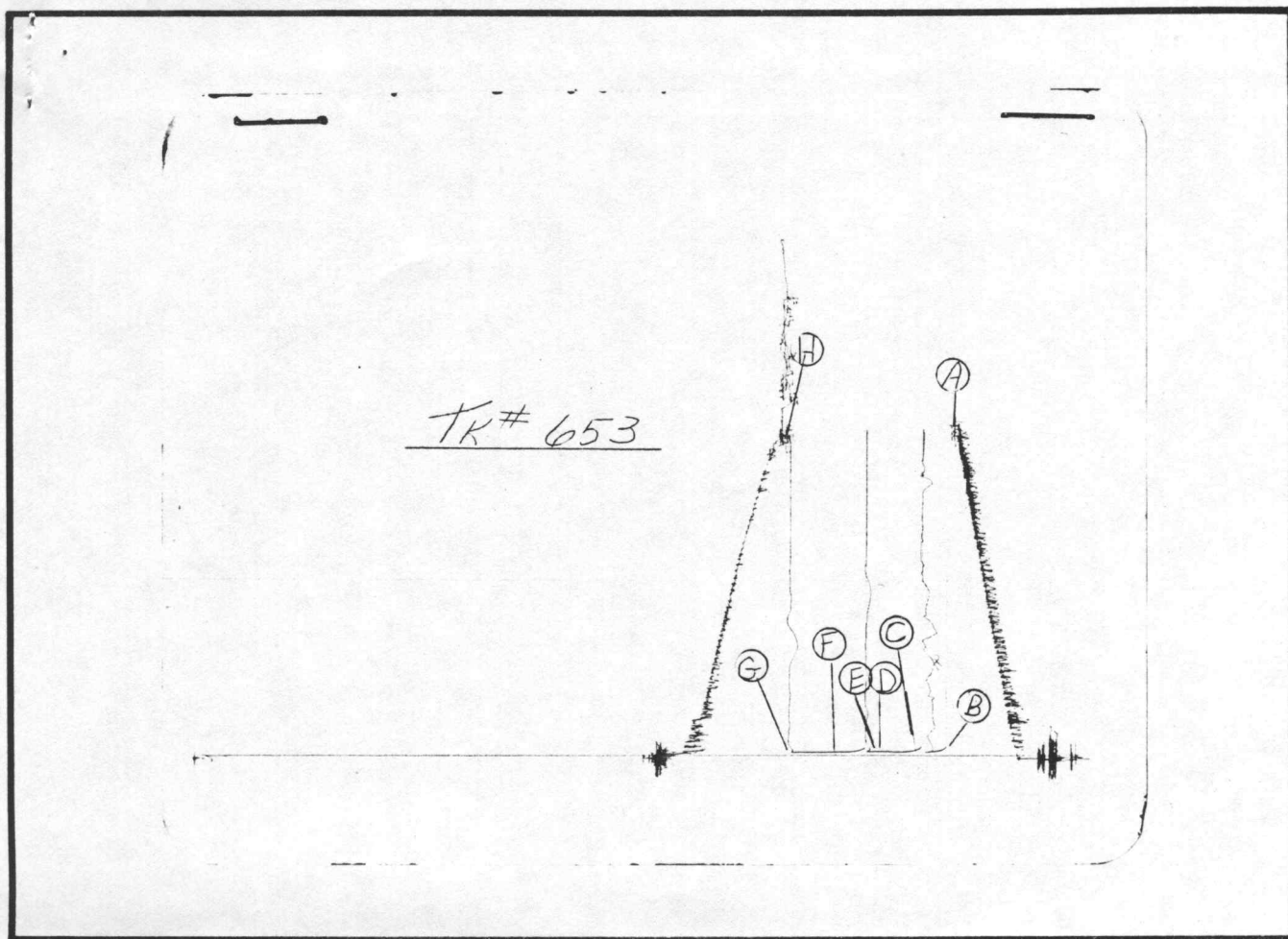
Blow Weak. Died in 15 minutes, flushed

Remarks tool, no help.

DST FL Chlorides 8,000 PPM

Drill Collar I. D. Ft. Run

Price of Job \$380.00



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1890	PSI
(B) First Initial Flow Pressure	21	PSI
(C) First Final Flow Pressure	21	PSI
(D) Initial Closed-in Pressure	21	PSI
(E) Second Initial Flow Pressure	21	PSI
(F) Second Final Flow Pressure	21	PSI
(G) Final Closed-in Pressure	21	PSI
(H) Final Hydrostatic Mud	1879	PSI

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company Moble C. Hoover	Test No. 4
Well Name & Number Quint #1	Zone Tested K.C. 160
Company Address NBC Bldg. Suite 302, Eldorado, Ark.	Date 9-7-77
Comp. Rep. Orlin Phelps	Tester James Ricketts
Contractor Abercrombie Drg. Inc.	Elevation 2203 K.B.
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Kan.	Est. Feet of Pay

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 3613

Recorder Depth 3610

(A) Initial Hydrostatic Mud 1957 PSI

Tool Open Before I. S. I. 30 Mins.

(B) First Initial Flow Pressure 42 PSI

Initial Shut-in 60 Mins.

(C) First Final Flow Pressure 59 PSI

Flow Period 90 Mins.

(D) Initial Closed-in Pressure 1074 PSI

Final Shut-in 60 Mins.

(E) Second Initial Flow Pressure 102 PSI

Surface Choke Size 1"

(F) Second Final Flow Pressure 128 PSI

Bottom Choke Size 3/4"

(G) Final Closed-in Pressure 901 PSI

Main Hole Size 7 7/8"

(H) Final Hydrostatic Mud 1948 PSI

Rubber Size 6 3/4"

Temperature 110°

Tool Open @ 2:00 P.M.

Mud Weight 10.0 Viscosity 45

Blow Medium to strong

Fluid Loss 10.4 cc

Remarks

Interval Tested 3600-3616

Anchor Length 16'

Top Packer Depth 3595

Bottom Packer Depth 3600

Total Depth 3616

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 320

Recovered 320 Feet Of Muddy Oil 5% Water 5% Mud 90% Oil

Recovered 360 Feet Of Gas in pipe

Recovered Feet Of

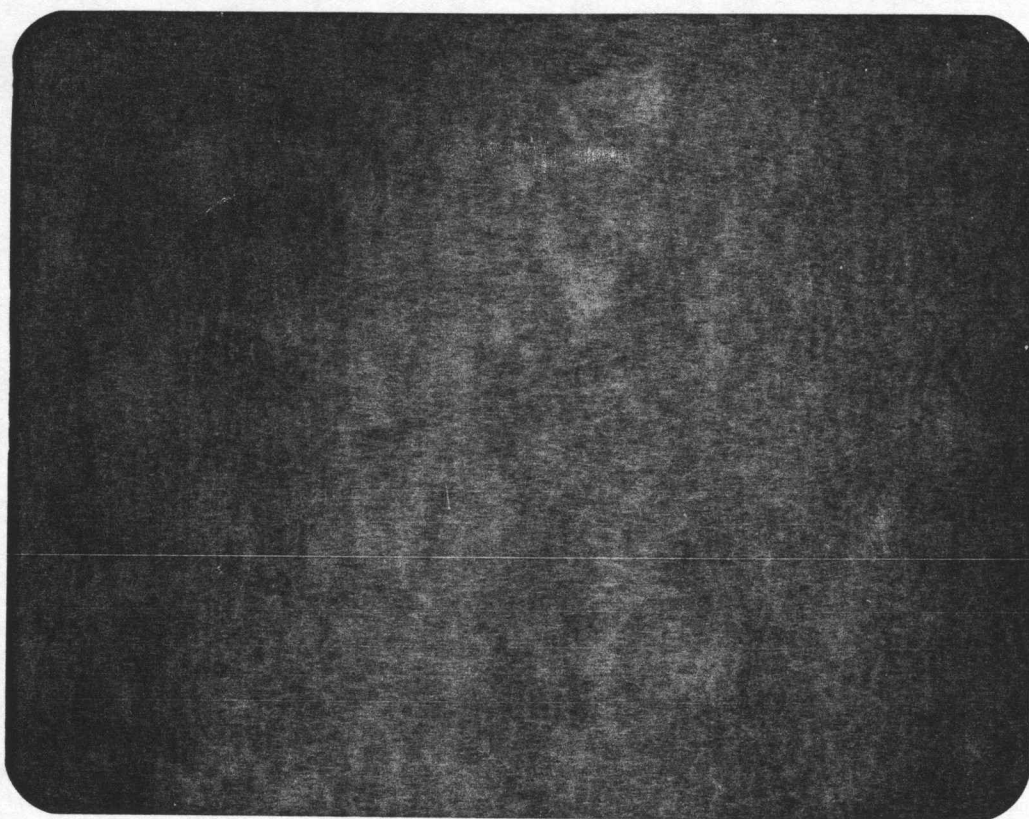
Recovered Feet Of

Extra Equipment

Price of Job \$380.00

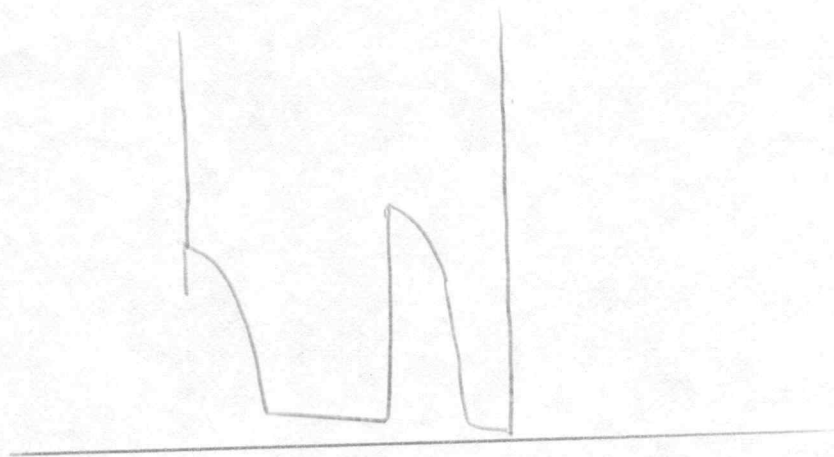
DST FL Chlorides 7,000 PPM

Drill Collar I. D. Ft. Run



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1957	PSI
(B) First Initial Flow Pressure	42	PSI
(C) First Final Flow Pressure	59	PSI
(D) Initial Closed-in Pressure	1074	PSI
(E) Second Initial Flow Pressure	102	PSI
(F) Second Final Flow Pressure	128	PSI
(G) Final Closed-in Pressure	901	PSI
(H) Final Hydrostatic Mud	1948	PSI



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DRILL-STEM TEST DATA

Company	Moble C. Hoover	Test No.	5
Well Name & Number	Quint #1	Zone Tested	K.C. 180
Company Address	NBC Bldg; Suite 302, ElDorado, Ark.	Date	9-8-77
Comp. Rep.	Orlin Phelps	Tester	James Ricketts
Contractor	Abercrombie Drlg. Inc.	Elevation	2203 K.B.
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 6730 Type Kust Range 4200 PSI

Recorder Depth 3634

(A) Initial Hydrostatic Mud _____ PSI

(B) First Initial Flow Pressure _____ PSI

(C) First Final Flow Pressure _____ PSI

(D) Initial Closed-in Pressure _____ PSI

(E) Second Initial Flow Pressure _____ PSI

(F) Second Final Flow Pressure _____ PSI

(G) Final Closed-in Pressure _____ PSI

(H) Final Hydrostatic Mud _____ PSI

Temperature _____

Mud Weight 10.0 Viscosity 55

Fluid Loss 10.4 cc

Interval Tested 3616-3637

Anchor Length 21'

Top Packer Depth 3616

Bottom Packer Depth -

Total Depth 3637

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 390

Recovered 390 Feet Of Mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____

Recorder No. 1760 Type Kust Range 3500 PSI

Recorder Depth 3631

Tool Open Before I. S. I. _____ Mins.

Initial Shut-in _____ Mins.

Flow Period _____ Mins.

Final Shut-in _____ Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 3:05 A.M.

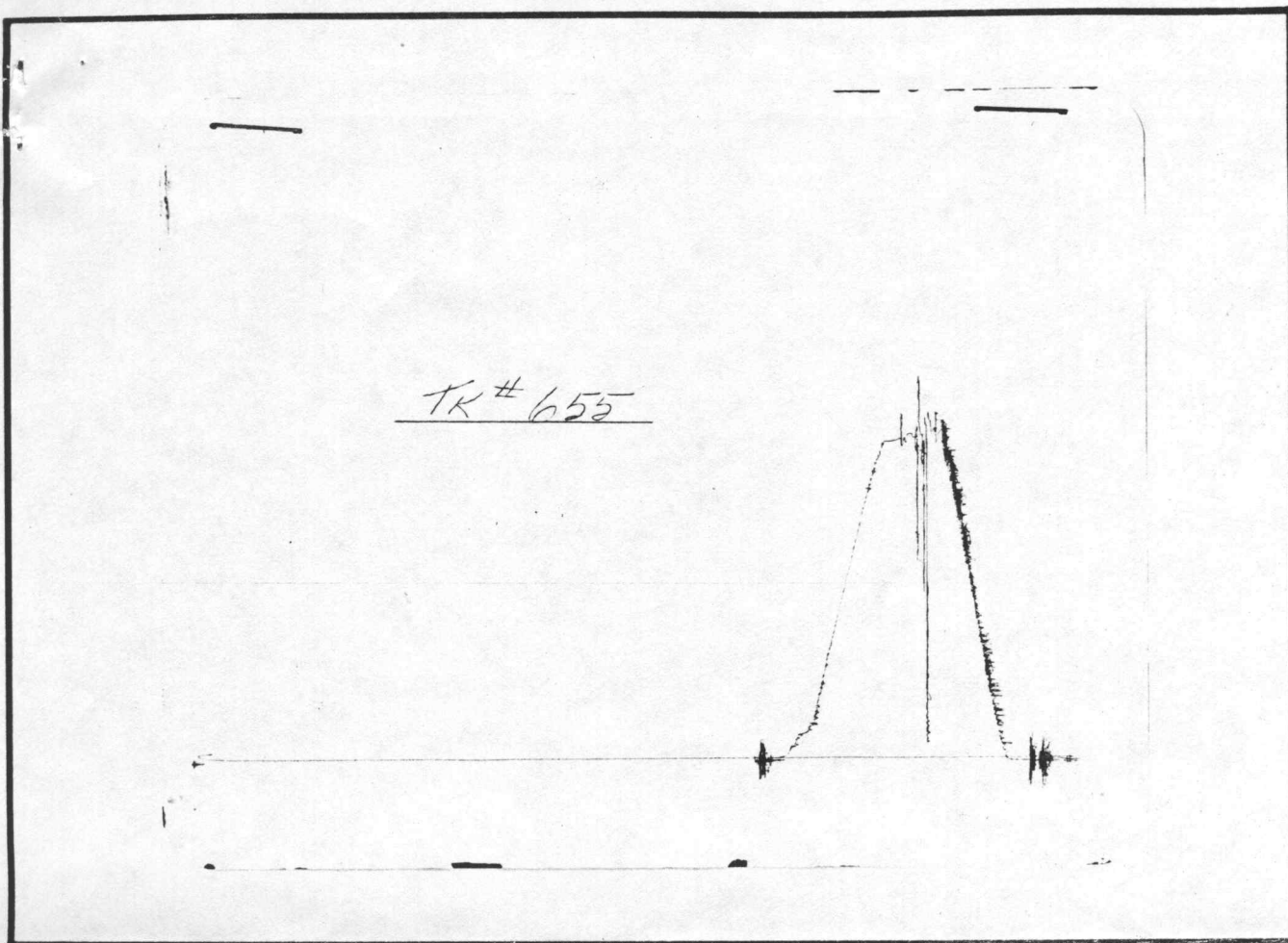
Blow _____

Remarks Packer Failure

MISRUN

Drill Collar I. D. _____ Ft. Run _____

MISRUN Price of Job \$175.00



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud		PSI
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-in Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-in Pressure		PSI
(H) Final Hydrostatic Mud		PSI

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P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Moble C. Hoover</u>	Test No. <u>6</u>
Well Name & Number <u>Quint #1</u>	Zone Tested <u>K.C. 180</u>
Company Address <u>NBC Bldg; Suite 302, ElDorado, Ark.</u>	Date <u>9-8-77</u>
Comp. Rep. <u>Orlin Phelps</u>	Tester <u>James Ricketts</u>
Contractor <u>Abercrombie Drlg. Inc.</u>	Elevation <u>2203 K.B.</u>
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Kan.	Est. Feet of Pay _____

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3634

(A) Initial Hydrostatic Mud 1964 PSI

(B) First Initial Flow Pressure 21 PSI

(C) First Final Flow Pressure 21 PSI

(D) Initial Closed-in Pressure 43 PSI

(E) Second Initial Flow Pressure 32 PSI

(F) Second Final Flow Pressure 32 PSI

(G) Final Closed-in Pressure 32 PSI

(H) Final Hydrostatic Mud 1911 PSI

Temperature 112°

Mud Weight 10 Viscosity 55

Fluid Loss 10.4 cc

Interval Tested 3614-3637

Anchor Length 23'

Top Packer Depth 3609

Bottom Packer Depth 3614

Total Depth 3637

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 25

Recovered 25 Feet Of Mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 3631

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 60 Mins.

Flow Period 90 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 9:00 A.M.

Blow Weak. No blow on final flow.

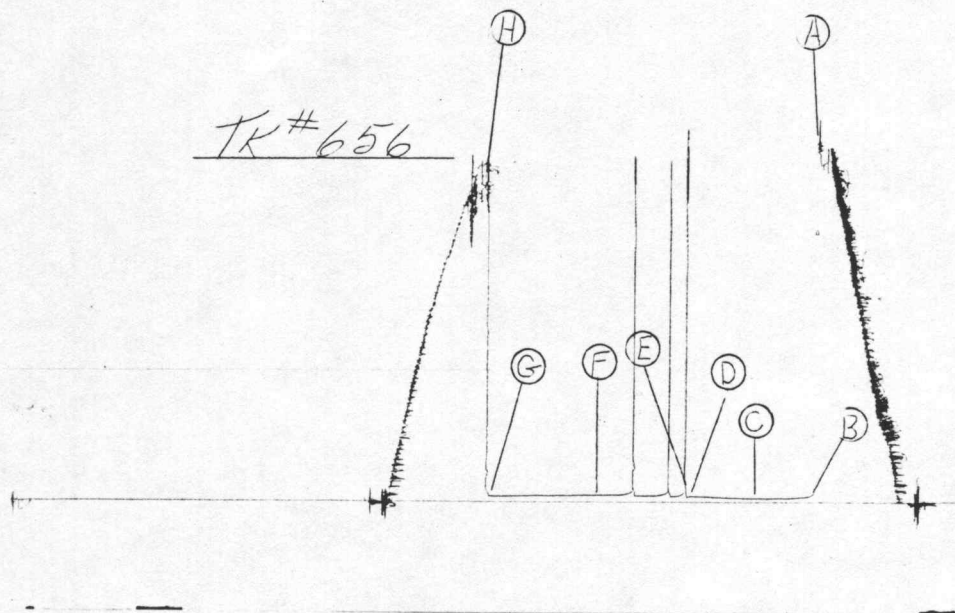
Remarks Flushed tool 3 times. Blew for

75 minutes on final flow.

DST FL Chlorides 6,000 PPM

Drill Collar I. D. _____ Ft. Run _____

Price of Job \$380.00



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1964	PSI
(B) First Initial Flow Pressure	21	PSI
(C) First Final Flow Pressure	21	PSI
(D) Initial Closed-in Pressure	43	PSI
(E) Second Initial Flow Pressure	32	PSI
(F) Second Final Flow Pressure	32	PSI
(G) Final Closed-in Pressure	32	PSI
(H) Final Hydrostatic Mud	1911	PSI

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Moble C. Hoover</u>	Test No. <u>7</u>
Well Name & Number <u>Quint #1</u>	Zone Tested <u>K.C.</u>
Company Address <u>NBC Bldg. Suite 302, ElDorado, Ark.</u>	Date <u>9-9-77</u>
Comp. Rep. <u>Orlin Phelps</u>	Tester <u>James Ricketts</u>
Contractor <u>Abercrombie Drlg. Inc.</u>	Elevation <u>2203 K.B.</u>
Location: Sec. 19 Twp. 8S Rge. 22W Co. Graham State Kan.	Est. Feet of Pay _____

Recorder No. 6730 Type Kuster Range 4200 PSI

Recorder Depth 3672

(A) Initial Hydrostatic Mud 1992 PSI

(B) First Initial Flow Pressure 68 PSI

(C) First Final Flow Pressure 77 PSI

(D) Initial Closed-in Pressure 1264 PSI

(E) Second Initial Flow Pressure 85 PSI

(F) Second Final Flow Pressure 162 PSI

(G) Final Closed-in Pressure 1204 PSI

(H) Final Hydrostatic Mud 1960 PSI

Temperature 113°

Mud Weight 9.8 Viscosity 42

Fluid Loss 10.4 cc

Interval Tested 3636-3675

Anchor Length 39'

Top Packer Depth 3631

Bottom Packer Depth 3636

Total Depth 3675

Drill Pipe Size 4" F.H.

Wt. Pipe I. D. 2 7/8" Ft. Run 718

Recovery—Total Feet 310

Recovered 310 Feet Of VSOC Muddy Water (1% Oil)

Recovered _____ Feet Of _____ Chlorides 41,000 PPM

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job \$380.00

Recorder No. 1760 Type Kuster Range 3500 PSI

Recorder Depth 3669

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 60 Mins.

Flow Period 90 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

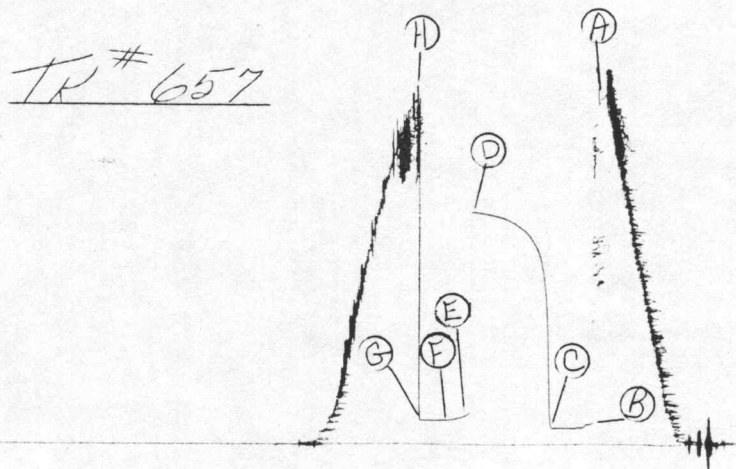
Rubber Size 6 3/4"

Tool Open @ 6:30 A.M.

Blow Weak

Remarks _____

Drill Collar I. D. _____ Ft. Run _____



Actual recorder chart

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1992	PSI
(B) First Initial Flow Pressure	68	PSI
(C) First Final Flow Pressure	77	PSI
(D) Initial Closed-in Pressure	1264	PSI
(E) Second Initial Flow Pressure	85	PSI
(F) Second Final Flow Pressure	162	PSI
(G) Final Closed-in Pressure	1204	PSI
(H) Final Hydrostatic Mud	1960	PSI