



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 17337

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation K.B. # 2142 Formation Toronto Eff. Pay 1 Ft.

District Wakeeney Date 8-3-82 Customer Order No. 1

COMPANY NAME Messman & Rinehart Corp.

ADDRESS 1432 KSB+T Bldg. Wichita, Kansas 67202

LEASE AND WELL NO. Jensen #4 COUNTY Filio STATE Kansas Sec. 12 Twp. 17S Rge. 18W

Mail Invoice To Same No. Copies Requested Reg

Co. Name Same Address Same

Mail Charts To Same No. Copies Requested Reg

Address Same

Formation Test No. 1 Interval Tested From 3323 ft. to 3323 ft. Total Depth 3323 ft.

Packer Depth 3318 ft. Size 6 3/4 in. Packer Depth 1 ft. Size 1 in.

Packer Depth 3323 ft. Size 6 3/4 in. Packer Depth 1 ft. Size 1 in.

Depth of Selective Zone Set 1

Top Recorder Depth (Inside) 3343 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3346 ft. Recorder Number 1134 Cap. 4500

Below Straddle Recorder Depth 1 ft. Recorder Number 1 Cap. 1

Drilling Contractor Red Tiger Drilling Rig #2 Drill Collar Length 1 I. D. 1 in.

Mud Type Starch Viscosity 40 Weight Pipe Length 1055 I. D. 3.2 in.

Weight 10.1 Water Loss 18.0 cc. Drill Pipe Length 2248 I. D. 3.8 in.

Chlorides 67,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make 1 Serial Number 1 Anchor Length 30 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: 1st - Strong blow

2nd - Strong blow

Recovered 745 ft. of Muddy Water (Chlorides - 110,000)

Recovered 1 ft. of

Recovered 1 ft. of

Recovered 1 ft. of

Recovered 1 ft. of

Remarks:

Time On Location 11:50 A.M. Time Pick Up Tool 2:00 A.M. Time Off Location 8:30 A.M.

Time Set Packer(s) 3:35 A.M. Time Started Off Bottom 6:20 A.M. Maximum Temperature 108

Initial Hydrostatic Pressure 1835 P.S.I.

Initial Flow Period 30 Minutes (B) 54 P.S.I. to (C) 174 P.S.I.

Initial Closed In Period 30 Minutes (D) 1019 P.S.I.

Final Flow Period 60 Minutes (E) 207 P.S.I. to (F) 382 P.S.I.

Final Closed In Period 45 Minutes (G) 1008 P.S.I.

Final Hydrostatic Pressure 1835 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By J. S. R. Lewis

Signature of Customer or his authorized representative

Western Representative Clyde Schaffer

Thank You!

FIELD INVOICE

Open Hole Test \$ 4
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Messman-Rinehart Corporation Lease & Well No. #4 Jensen
Elevation 2142 Kelly Bushing Toronto Formation Effective Pay - Ft. Ticket No. 17337
Date 8/3/82 Sec. 12 Twp. 12S Range 18W County Ellis State Kansas
Test Approved by J G Klein Western Representative Clyde Scheffe
Formation Test No. 1 Interval Tested from 3323 ft. to 3353 ft. Total Depth 3353 ft.
Packer Depth 3318 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3323 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3343 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3346 ft. Recorder Number 1134 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Red Tiger Drilling Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 40 Weight Pipe Length 1055 I. D. 3.2 in.
Weight 10.1 Water Loss 18.0 cc. Drill Pipe Length 2248 I. D. 3.8 in.
Chlorides 67,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow throughout test.

Recovered 745 ft. of muddy water Chlorides 110,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

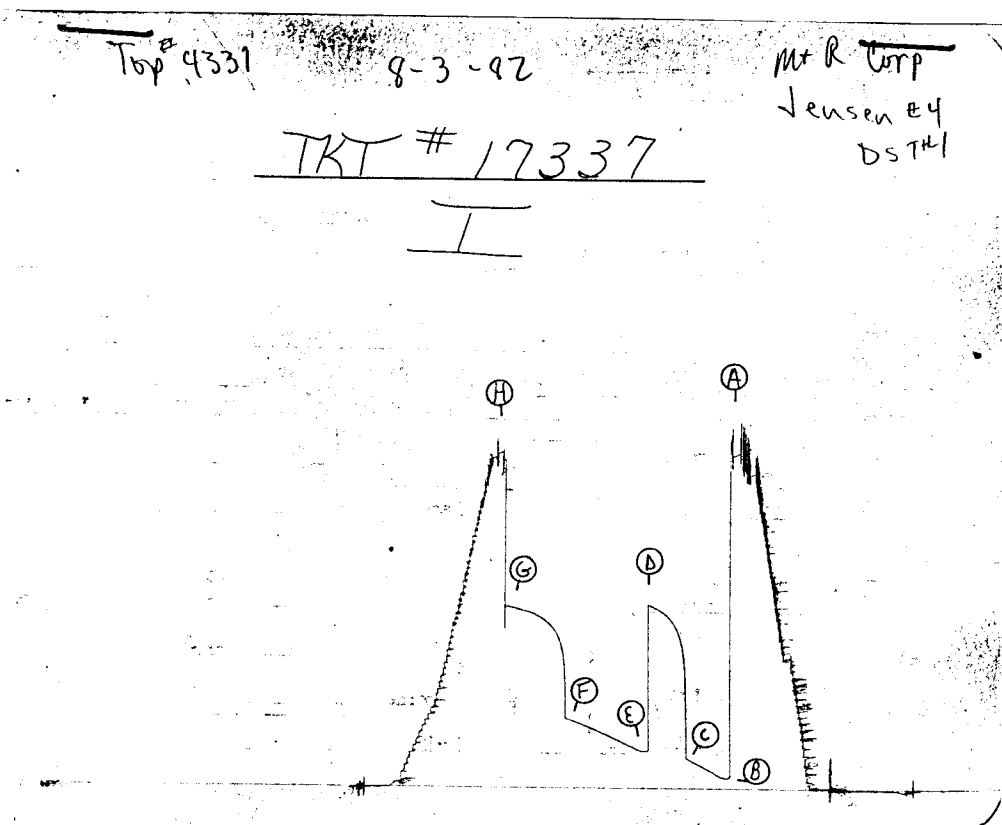
Time Set Packer(s) 3:35 ~~AM~~ P.M. Time Started Off Bottom 6:20 ~~AM~~ P.M. Maximum Temperature 108
Initial Hydrostatic Pressure (A) 1838 P.S.I.
Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 174 P.S.I.
Initial Closed In Period Minutes 30 (D) 1024 P.S.I.
Final Flow Period Minutes 60 (E) 211 P.S.I. to (F) 391 P.S.I.
Final Closed In Period Minutes 45 (G) 1015 P.S.I.
Final Hydrostatic Pressure (H) 1838 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/3/82 Test Ticket No. 17337
 Recorder No. 4331 Capacity 4150 Location 3343 Ft.
 Clock No. - Elevation 2142 Kelly Bushing Well Temperature 108 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1838 P.S.I. Open Tool 3:35P M
 B First Initial Flow Pressure 61 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 174 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 1024 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 211 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 F Second Final Flow Pressure 391 P.S.I.
 G Final Closed-in Pressure 1015 P.S.I.
 H Final Hydrostatic Mud 1838 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>61</u>	<u>0</u>	<u>174</u>	<u>0</u>	<u>211</u>	<u>0</u>	<u>391</u>
P 2 <u>5</u>	<u>65</u>	<u>3</u>	<u>469</u>	<u>5</u>	<u>212</u>	<u>3</u>	<u>750</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>803</u>	<u>10</u>	<u>229</u>	<u>6</u>	<u>832</u>
P 4 <u>15</u>	<u>104</u>	<u>9</u>	<u>875</u>	<u>15</u>	<u>247</u>	<u>9</u>	<u>877</u>
P 5 <u>20</u>	<u>124</u>	<u>12</u>	<u>921</u>	<u>20</u>	<u>264</u>	<u>12</u>	<u>907</u>
P 6 <u>25</u>	<u>145</u>	<u>15</u>	<u>953</u>	<u>25</u>	<u>282</u>	<u>15</u>	<u>929</u>
P 7 <u>30</u>	<u>174</u>	<u>18</u>	<u>975</u>	<u>30</u>	<u>300</u>	<u>18</u>	<u>947</u>
P 8		<u>21</u>	<u>991</u>	<u>35</u>	<u>316</u>	<u>21</u>	<u>961</u>
P 9		<u>24</u>	<u>1004</u>	<u>40</u>	<u>334</u>	<u>24</u>	<u>973</u>
P10		<u>27</u>	<u>1014</u>	<u>45</u>	<u>348</u>	<u>27</u>	<u>982</u>
P11		<u>30</u>	<u>1024</u>	<u>50</u>	<u>364</u>	<u>30</u>	<u>988</u>
P12				<u>55</u>	<u>378</u>	<u>33</u>	<u>994</u>
P13				<u>60</u>	<u>391</u>	<u>36</u>	<u>1000</u>
P14						<u>39</u>	<u>1005</u>
P15						<u>42</u>	<u>1010</u>
P16						<u>45</u>	<u>1015</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1835	1838	PSI
(B) First Initial Flow Pressure	54	61	PSI
(C) First Final Flow Pressure	174	174	PSI
(D) Initial Closed-in Pressure	1019	1024	PSI
(E) Second Initial Flow Pressure	207	211	PSI
(F) Second Final Flow Pressure	382	391	PSI
(G) Final Closed-in Pressure	1008	1015	PSI
(H) Final Hydrostatic Mud	1835	1838	PSI



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

No 17355

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 1 Formation K.C. Eff. Pay Ft.District WAKEEN Date 8-5-82 Customer Order No. COMPANY NAME Hessmen Rinehart Corp.ADDRESS 1432 KS Bldg Wichita KS 67202LEASE AND WELL NO. Jensen #4 COUNTY Ellis STATE KS Sec. 10 Twp. 12 Rge. 18WMail Invoice To Same Co. Name Address No. Copies Requested 156Mail Charts To Address No. Copies Requested 110Formation Test No. 2 Interval Tested From 3383 ft. to 3410 ft. Total Depth 3410 ft.Packer Depth 3378 ft. Size 63/4 in. Packer Depth ft. Size in.Packer Depth 3383 ft. Size 63/4 in. Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth (Inside) 3377 ft. Recorder Number 4339 Cap. 7300Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 1561 Cap. 5200Below Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor Red 155P #2 Drill Collar Length I. D. in.Mud Type Starch Viscosity 43 Weight Pipe Length 1073 I. D. 3.2 in.Weight 9.4 Water Loss 11.0 cc. Drill Pipe Length 2270 I. D. 3.8 in.Chlorides 20,000 P.P.M. Test Tool Length 20 ft. Tool Size 5/8 OD in.Jars: Make NO Serial Number NO Anchor Length 27 ft. Size 11 in.Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 77/8 in. Tool Joint Size 1 1/2 1/4 in.Blow: 1 FP - 10 min. to work as tool stick, drill in 5 min. + flushed tool
at 20 min. mark then weak blow, FFP - weakRecovered 156 ft. of at speckled mud chloride - 29,000ppmRecovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks: Tool stick 10-12 ft. to bottomstring weighed 48,000 took 108,000 to pull looseTime On Location 11:50 A.M. Time Pick Up Tool 2:30 A.M. Time Off Location 8:00 A.M.Time Set Packer(s) 3:10 A.M. Time Started Off Bottom 5:10 A.M. Maximum Temperature 118Initial Hydrostatic Pressure 1679 P.S.I.Initial Flow Period 30 Minutes (B) 136 P.S.I. to (C) 136 P.S.I.Initial Closed In Period 30 Minutes (D) 181 P.S.I.Final Flow Period 30 Minutes (E) 113 P.S.I. to (F) 113 P.S.I.Final Closed In Period 30 Minutes (G) 159 P.S.I.Final Hydrostatic Pressure 1647 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By H. C. Klein

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test	\$
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$ <u>N.C.</u>
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

No 17356

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation

Formation

Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp.

Rge.

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No. 3 Interval Tested From 3414 ft. to 3474 ft. Total Depth 3474 ft.

Packer Depth 3409 ft. Size 63/4 in. Packer Depth ft. Size in.

Packer Depth 3414 ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3431 ft.

Recorder Number 4339 Cap. 1300

Bottom Recorder Depth (Outside) 3434 ft.

Recorder Number 1561 Cap. 3200

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Red 7000 #2

Drill Collar Length I. D. in.

Mud Type 5-arch Viscosity 46

Weight Pipe Length 1073 I. D. 32 in.

Weight 9.1 Water Loss 16.0 cc.

Drill Pipe Length 2321 I. D. 38 in.

Chlorides 25,000 P.P.M.

Test Tool Length 20 ft. Tool Size 3500 in.

Jars: Make 00 Serial Number 00

Anchor Length 2.8 ft. Size in.

Did Well Flow? 00 Reversed Out

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/4 in.

Blow: 11.0 - weak 1 1/2" blow decreasing to 3/4"

11.0 - very weak 1/4" blow to 1/2" blow

Recovered 6.0 ft. of water 2500 ppm

Recovered 12.0 ft. of water chlorides 53,000 ppm

Recovered ft. of Sample #1 chlorides 48,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time not made up 6:20 pm

Time On Location 5:15 A.M. Time Pick Up Tool 5:00 A.M. Time Off Location 2:00 A.M.

Time Set Packer(s) 7:40 P.M. Time Started Off Bottom 10:55 P.M. Maximum Temperature 119

Initial Hydrostatic Pressure (A) 1728 P.S.I.

Initial Flow Period Minutes 30 (B) 79 P.S.I. to (C) 79 P.S.I.

Initial Closed In Period Minutes 30 (D) 397 P.S.I.

Final Flow Period Minutes 0:35 (E) 79 P.S.I. to (F) 79 P.S.I.

Final Closed In Period Minutes 60 (G) 375 P.S.I.

Final Hydrostatic Pressure (H) 1712 P.S.I.

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Test Approved By

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test	\$
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET No 17357

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 119 Formation Lancing Eff. Pay Ft.

District WAKEENY Date 8-6-82 Customer Order No.

COMPANY NAME Messman Bros. Inc.

ADDRESS 1422 N. 1st St. Wichita, KS 67202

LEASE AND WELL NO. Tolson #4 COUNTY Ellis STATE KS Sec. 12 Twp. 10 Rge. 18

Mail Invoice To Some Co. Name Address No. Copies Requested 12

Mail Charts To Address No. Copies Requested 11

Formation Test No. 4 Interval Tested From 3479 ft. to 3555 ft. Total Depth 3555 ft.

Packer Depth 3474 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3479 ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3547 ft. Recorder Number 4397 Cap. 4300

Bottom Recorder Depth (Outside) 3545 ft. Recorder Number 2561 Cap. 3200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Red Tiger #2 Drill Collar Length I. D. in.

Mud Type Starline Viscosity 47 Weight Pipe Length 1073 I. D. 3.2 in.

Weight 7.1 Water Loss 12.0 cc. Drill Pipe Length 2386 I. D. 3.8 in.

Chlorides 26,100 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make AD Serial Number AD Anchor Length 44 PF ft. Size in.

Did Well Flow? AD Reversed Out AD Surface Choke Size 2 1/4 in. Bottom Choke Size 2 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: FP - weak

FP - no blow

Recovered 10 ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 2:30 A.M. Time Pick Up Tool 5:15 A.M. Time Off Location 9:30 A.M.

Time Set Packer(s) 4:50 A.M. Time Started Off Bottom 6:50 A.M. Maximum Temperature 120

Initial Hydrostatic Pressure 1144 P.S.I.

Initial Flow Period 30 Minutes (B) 79 P.S.I. to (C) 79 P.S.I.

Initial Closed In Period 30 Minutes (D) 589 P.S.I.

Final Flow Period 30 Minutes (E) 79 P.S.I. to (F) 79 P.S.I.

Final Closed In Period 30 Minutes (G) 566 P.S.I.

Final Hydrostatic Pressure 1690 P.S.I.

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Test Approved By J. S. Klein
Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test	\$
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$



WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

No 17358

P. O. BOX 1599
WICHITA, KANSAS 67201

PHONE (316) 262-5861

Elevation

Formation

Eff. Pay

Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp.

Rge.

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested From

ft. to

ft. Total Depth

ft.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

ft.

Recorder Number

Cap.

Bottom Recorder Depth (Outside)

ft.

Recorder Number

Cap.

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

cc.

Chlorides

P.P.M.

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

in.

Weight Pipe Length

I. D.

in.

Drill Pipe Length

I. D.

in.

Test Tool Length

ft.

Tool Size

in.

Anchor Length

ft.

Size

in.

Surface Choke Size

in.

Bottom Choke Size

in.

Main Hole Size

in.

Tool Joint Size

in.

Blow:

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Remarks:

Time On Location

A.M.
P.M.

Time Pick Up Tool

A.M.
P.M.

Time Off Location

A.M.
P.M.

Time Set Packer(s)

A.M.
P.M.

Time Started Off Bottom

A.M.
P.M.

Maximum Temperature

Initial Hydrostatic Pressure

(A)

P.S.I.

Initial Flow Period

Minutes

(B)

P.S.I. to (C)

P.S.I.

Initial Closed In Period

Minutes

(D)

P.S.I.

Final Flow Period

Minutes

(E)

P.S.I. to (F)

P.S.I.

Final Closed In Period

Minutes

(G)

P.S.I.

Final Hydrostatic Pressure

(H)

P.S.I.

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Test Approved By

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test

\$

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

Telecopier

\$

TOTAL

\$