WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 1645

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation _____ Formation Miss Eff. Pay — Ft.

District Pratt Date 5/18/79 Customer Order No. —

COMPANY NAME Rains & Williams

ADDRESS 435 Page Court Wichita, Ks 67202

LEASE AND WELL NO. Thompson #1-A COUNTY Kingman STATE Ks Sec. 11 Twp. 30 Rge. 7

Mail Invoice To Same (Co. Name) (Address) No. Copies Requested 5

Mail Charts To Same (Address) No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4095 ft. to 4110 ft. Total Depth 4110 ft.

Packer Depth 4090 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4095 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4100 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4103 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Rains & Williams Rig #3 Drill Collar Length 435 I. D. 2 1/4 in.

Mud Type Premix-Drispac Viscosity 51 Weight Pipe Length — I. D. — in.

Weight 9.9 Water Loss 8.8 cc. Drill Pipe Length 3639 I. D. 3.8 in.

Chlorides 46,000 P.P.M. Test Tool Length 21 FT in. Tool Size 5 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 1.5 ft. Size 5 1/2 OD in.

Did Well Flow? Yes 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 FH in.

Blow: Strong blow throughout flow periods
Gas to surface in 5 min on preflow

Recovered 70 ft. of Gas Cut Mud

Recovered 60 ft. of Muddy Water

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

RECEIVED
MAY 21 1979

Time Set Packer(s) 8:20 ~~P.M.~~ A.M. Time Started Off Bottom 11:05 ~~P.M.~~ A.M. Maximum Temperature 130°

Initial Hydrostatic Pressure		(A)	2151	P.S.I.		
Initial Flow Period	Minutes 30	(B)	126	P.S.I. to (C)	126	P.S.I.
Initial Closed In Period	Minutes 30	(D)	1196	P.S.I.		
Final Flow Period	Minutes 45	(E)	126	P.S.I. to (F)	95	P.S.I.
Final Closed In Period	Minutes 60	(G)	1196	P.S.I.		
Final Hydrostatic Pressure		(H)	2130	P.S.I.		

COMPANY TERMS

Western Testing Co., 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.

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 R. Alan Rains
Signature of Customer or his authorized representative

Western Representative Jim Bondra Thank

FIELD INVOICE

Open Hole Test	$ 460 00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Extra Charts	$
TOTAL	$ 460 00

Phone 316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 1365

Date 5/18/79 Ticket #1645 Company Rains & Williams

Well Name and No. Thompson #1-A Dst No. 1 Interval Tested 4095-4110

County Kingman State Ks Sec. 11 Twp. 30 Rg. 7

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
			PRE FLOW		
	Gas to surface in 5 min on pre flow				
10 min	22 H²0	1/4"			206,000 C.F.P.D
15 min	28 "	"			233,000 " "
20 min	34 "	"			256,000 " "
25 min	36 "	"			264,000 " "
30 min	38 "	"			271,000 " "
			SECOND FLOW		
5 min	58 H²0	1/4"			335,000 C.F.P.D
10 min	54 "	"			323,000 " "
15 min	53 "	"			320,000 " "
20 min					
25 min					
30 min					
35 min			Stabilized throughout rest of opening		
40 min					
45 min					

GAS BOTTLE

Serial No. Date Bottle Filled Date to be Invoiced

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME

Authorized by

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 5-18-79 Test Ticket No. 1645

Recorder No. 2607 Capacity 4150 Location 4100 Ft.

Clock No. _____ Elevation _____ Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2158 P.S.I.	Open Tool	8:20 AM	
B First Initial Flow Pressure	135 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	112 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1192 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	127 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	89 P.S.I.			
G Final Closed-in Pressure	1192 P.S.I.			
H Final Hydrostatic Mud	2150 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	135
P 2	5	135
P 3	10	116
P 4	15	112
P 5	20	
P 6	25	
P 7	30	112
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	112
3	852
6	1046
9	1111
12	1138
15	1158
18	1169
21	1171
24	1180
27	1186
30	1192
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	127
5	101
10	93
15	89
20	
25	
30	
35	
40	
45	89
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	89
3	804
6	1004
9	1065
12	1094
15	1113
18	1130
21	1144
24	1153
27	1161
30	1167
33	1171
36	1175
39	1179
42	1182
45	1186
48	1189
51	1182
54	1193
57	11
60	1192

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Thompson #1-A

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 1645

Date 5-18-79 Sec. 11 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by H. Deane Jirrels Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4095 ft. to 4110 ft. Total Depth 4110 ft.

Packer Depth 4090 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4095 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4100 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4103 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Rains & Williamson (#3) Drill Collar Length 435 I. D. 2 1/4 in.

Mud Type Premix-Drispac Viscosity 51 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 8.8 cc. Drill Pipe Length 3639 I. D. 3.8 in.

Chlorides 46,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 15 ft. Size 5½OD in.

Did Well Flow? Yes 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 4½FH in.

Blow: Strong blow throughout test. Gas to surface in 5 minutes on preflow.
See attached sheet for gas measurements.

Recovered 70 ft. of gas cut mud

Recovered 60 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:20 A.M. ~~P.M.~~ Time Started Off Bottom 11:05 A.M. ~~P.M.~~ Maximum Temperature 130

Initial Hydrostatic Pressure ..... (A) 2158 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 135 P.S.I. to (C) 112 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1192 P.S.I.

Final Flow Period ..... Minutes 45 (E) 127 P.S.I. to (F) 89 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1192 P.S.I.

Final Hydrostatic Pressure ..... (H) 2150 P.S.I.

Phone 316 262-5861
316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 5-18-79 Ticket 1645 Company Rains & Williamson Oil Co., Inc.

Well Name and No. Thompson #1-A Dst No. 1 Interval Tested 4095' - 4110'

County Kingman State Kansas Sec. 11 Twp. 30S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
	10 min.	22" of water	1	1/4" orifice		206,000 C.F.P.D.
	15 min.	28" of water	1	1/4" orifice		233,000 C.F.P.D.
	20 min.	34" of water	1	1/4" orifice		256,000 C.F.P.D.
	25 min.	36" of water	1	1/4" orifice		264,000 C.F.P.D.
	30 min.	38" of water	1	1/4" orifice		271,000 C.F.P.D.
			SECOND FLOW			
	5 min.	58" of water	1	1/4" orifice		335,000 C.F.P.D.
	10 min.	54" of water	1	1/4" orifice		323,000 C.F.P.D.
	15 min.	53" of water	1	1/4" orifice		320,000 C.F.P.D.
	20 min.					Stabilized throughout
						rest of opening.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced -

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

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COMPANY'S NAME Rains & Williamson Oil Co., Inc.

Authorized by H. Deane Jirrels

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 5-18-79 Test Ticket No. 1645

Recorder No. 2607 Capacity 4150 Location 4100 Ft.

Clock No. - Elevation - Well Temperature 130 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2158	P.S.I.
B	First Initial Flow Pressure	135	P.S.I.
C	First Final Flow Pressure	112	P.S.I.
D	Initial Closed-in Pressure	1192	P.S.I.
E	Second Initial Flow Pressure	127	P.S.I.
F	Second Final Flow Pressure	89	P.S.I.
G	Final Closed-in Pressure	1192	P.S.I.
H	Final Hydrostatic Mud	2150	P.S.I.

	Time Given	Time Computed
Open Tool	8:20A. M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	135
P 2 5	125
P 3 10	116
P 4 15	112
P 5 20	112
P 6 25	112
P 7 30	112
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	112
3	852
6	1046
9	1111
12	1138
15	1158
18	1167
21	1171
24	1180
27	1186
30	1192

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	127
5	101
10	93
15	89
20	89
25	89
30	89
35	89
40	89
45	89

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	89
3	804
6	1004
9	1065
12	1094
15	1113
18	1130
21	1144
24	1153
27	1161
30	1167
33	1171
36	1175
39	1179
42	1182
45	1186
48	1189
51	1190
54	1192
57	1192
60	1192

Tk#1645
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