WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 13379

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

Elevation 1218 KB Formation Kansas City Eff. Pay Ft.

District GREAT BEND Date 3-8-82 Customer Order No.

COMPANY NAME Rains & Williamson Oil Company, Inc.

ADDRESS 435 Page Court - 220 West Douglas, Wichita, Kansas 67202

LEASE AND WELL NO. Davidson #2 COUNTY Sumner STATE Kansas Sec. 5 Twp. 33S Rge. 2W

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 3369 ft. to 3381 ft. Total Depth 3381 ft.

Packer Depth 3364 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3369 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3324 ft. Recorder Number 13400 Cap. 3950

Bottom Recorder Depth (Outside) 3377 ft. Recorder Number 3085 Cap. 4500

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

Drilling Contractor Rains & Williamson Rig #2 Drill Collar Length 461' I. D. 2.2 in.

Mud Type Chem-Co Solid Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2876 I. D. 3.8 in.

Chlorides 7200 P.P.M. Test Tool Length 24 ft. Tool Size 4½ in.

Jars: Make — Serial Number — Anchor Length 12 ft. Size 5½ 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 4½ XH in.

Blow: IF Weak 1" Blow building to Strong Blow in 30 Min.
FF Weak 1" Blow building to Strong Blow in 10 min/ Steady throughout

Recovered 180' ft. of Mud

Recovered 180' ft. of Mud w/ spots of Oil

Recovered 60 ft. of Mud w/ Lite scum of Oil

Recovered 360 ft. of Very Heavy Oil Cut Froggy Mud

Recovered 240 ft. of Salt Water w/ Lite scum of Oil

Remarks: found hole in pipe coming out w/ test

RECEIVED
MAR 11 1982

Time On Location 11:00 A.M. / P.M. Time Pick Up Tool 11:30 A.M. / P.M. Time Off Location 8:00 A.M. / P.M.

Time Set Packer(s) 1:03 A.M. / P.M. Time Started Off Bottom 3:48 A.M. / P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure		(A)	1828	P.S.I.		
Initial Flow Period	Minutes 30	(B)	339	P.S.I. to (C)	319	P.S.I.
Initial Closed In Period	Minutes 45	(D)	1316	P.S.I.		
Final Flow Period	Minutes 45	(E)	348	P.S.I. to (F)	354	P.S.I.
Final Closed In Period	Minutes 45	(G)	1304	P.S.I.		
Final Hydrostatic Pressure		(H)	1819	P.S.I.		

only

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 H. Dean Rowels
Signature of Customer or his authorized representative

Western Representative Glenn VanSteenburgh Thanks

FIELD INVOICE

Open Hole Test	$	625.00
Misrun	$	
Straddle Test	$	
Jars	$	
Selective Zone	$	
Safety Joint	$	
Standby	$	
Evaluation	$	
Extra Packer	$	
Circ. Sub.	$	
Mileage 139	$	104.25
Fluid Sampler	$	
Extra Charts	$	
Insurance	$	
TOTAL	$	729.25

No Discount

WESTERN TESTING CO., INC.
Pressure Data

Date 3-8-82 Test Ticket No. 13379

Recorder No. 13400 Capacity 3950 Location 3374 F

Clock No. — — — — Elevation 1218 KB Well Temperature 119 °

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1769	P.S.I.	Open Tool	1:03 P M	
B	First Initial Flow Pressure	329	P.S.I.	First Flow Pressure	30 Mins.	25 Mins
C	First Final Flow Pressure	305	P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins
D	Initial Closed-in Pressure	1312	P.S.I.	Second Flow Pressure	45 Mins.	40 Mins
E	Second Initial Flow Pressure	322	P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins
F	Second Final Flow Pressure	333	P.S.I.			
G	Final Closed-in Pressure	1289	P.S.I.			
H	Final Hydrostatic Mud	1688	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	329
P 2 5	322
P 3 10	313
P 4 15	308
P 5 20	306
P 6 25	305
P 7 30	
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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	305
3	471
6	1188
9	1225
12	1240
15	1254
18	1266
21	1275
24	1284
27	1290
30	1297
33	1301
36	1304
39	1308
42	1310
45	1312
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 8 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	322
5	
10	
15	
20	322
25	323
30	325
35	329
40	333
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	333
3	414
6	898
9	1174
12	1205
15	1221
18	1236
21	1248
24	1256
27	1264
30	1269
33	1275
36	1279
39	1284
42	1287
45	1289
48	
51	
54	
57	
60	

SK # 13379

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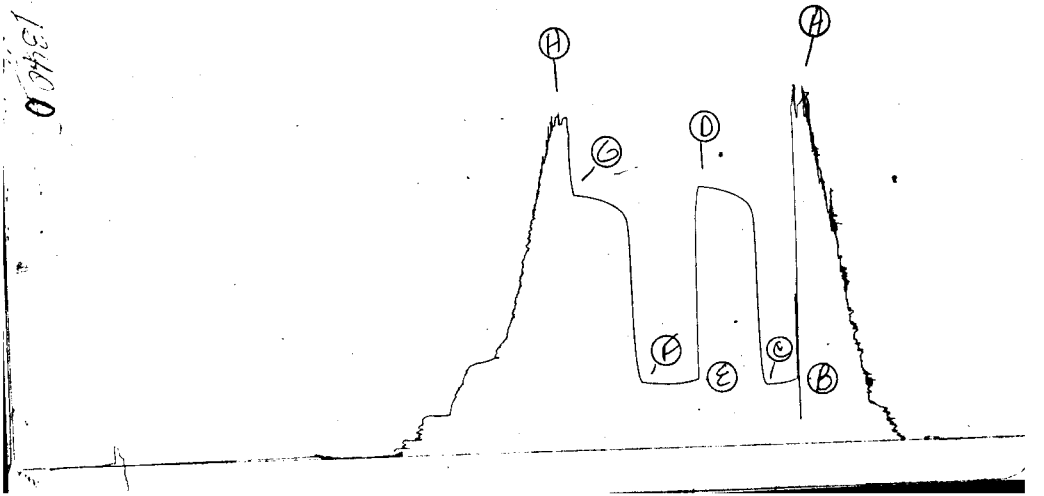

Company Rains & Williamson Oil Co.,Inc. Lease & Well No. Davidson #2

Elevation 1218 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 13379

Date 3/8/82 Sec. 5 Twp. 33S Range 2W County Sumner State Kansas

Test Approved by H. Deane Jirrels Western Representative Glenn VanSteenburgh

Formation Test No. 1 Interval Tested from 3369 ft. to 3381 ft. Total Depth 3381 ft.

Packer Depth 3364 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3369 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

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Bottom Recorder Depth (Outside) 3377 ft. Recorder Number 3085 Cap. 4500

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

Drilling Contractor Rains & Williamson Drlg. Rig #2 Drill Collar Length 469 I. D. 2.2 in.

Mud Type chem-lo-solids Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2876 I. D. 3.8 in.

Chlorides 7,200 P.P.M. Test Tool Length 24 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 12 ft. Size 5½ 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 4½XH in.

Blow: Initial flow period weak one inch blow building to strong blow in thirty minutes. Final flow period weak one inch blow building to strong blow in ten minutes and steady throughout.

Recovered 180 ft. of mud

Recovered 180 ft. of mud with spots of oil

Recovered 60 ft. of mud with light scum of oil

Recovered 360 ft. of very heavy oil cut froggy mud

Recovered 240 ft. of salt water with light scum of oil

Remarks: Found hole in pipe coming out with test.

Time Set Packer(s) 1:03 ~~A.M.~~ P.M. Time Started Off Bottom 3:48 A.M. P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure			(A)	1769	P.S.I.	
Initial Flow Period	Minutes	25	(B)	329	P.S.I. to (C)	305 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1312	P.S.I.	
Final Flow Period	Minutes	40	(E)	322	P.S.I. to (F)	333 P.S.I.
Final Closed In Period	Minutes	45	(G)	1289	P.S.I.	
Final Hydrostatic Pressure			(H)	1688	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 3/8/82 Test Ticket No. 13379

Recorder No. 13400 Capacity 3950 Location 3374 Ft.

Clock No. - Elevation 1218 Kelly Bushing Well Temperature 119 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1769 P.S.I.	Open Tool		1:03P M	
B	First Initial Flow Pressure	329 P.S.I.	First Flow Pressure		30 Mins.	25 Mins.
C	First Final Flow Pressure	305 P.S.I.	Initial Closed-in Pressure		45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1312 P.S.I.	Second Flow Pressure		45 Mins.	40 Mins.
E	Second Initial Flow Pressure	322 P.S.I.	Final Closed-in Pressure		45 Mins.	45 Mins.
F	Second Final Flow Pressure	333 P.S.I.				
G	Final Closed-in Pressure	1289 P.S.I.				
H	Final Hydrostatic Mud	1688 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	329
P 2 5	322
P 3 10	313
P 4 15	308
P 5 20	306
P 6 25	305
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	305
3	471
6	1188
9	1225
12	1240
15	1254
18	1266
21	1275
24	1284
27	1290
30	1297
33	1301
36	1304
39	1308
42	1310
45	1312

Second Flow Pressure
Breakdown: 8 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	322
5	322
10	322
15	322
20	322
25	323
30	325
35	329
40	333

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	333
3	414
6	898
9	1174
12	1205
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