WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 21724

Formation Mississippi Elevation 1976 KB Eff. Pay — Ft. Kelly Bushing

District PRATT Date 1-13-77 Customer Order No.

COMPANY NAME PATRICK Petroleum

ADDRESS SUITE 414 200 EAST FIRST WICHITA KANSAS

LEASE AND WELL NO. UHL #1 COUNTY COMANCHE STATE KANSAS Sec. 38 Twp. 31S Rge. 17W

Mail Inv. To SLAWSON DRLG. CO Co. Name SUITE 408 ONE TWENTY BLDG. Address WICHITA KS No. Copies Requested USUAL

Mail Charts To PATRICK Petroleum Address No. Copies Requested 6

Formation Test No. 1 O.K. X Misrun Interval Tested From 4895 to 4945 Total Depth 4945

Size Main Hole 7 7/8 Rat Hole — Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Top Packer Depth 4890 Ft. Size 6 3/4 Bottom Packer Depth 4895 Ft. Size 6 3/4

Straddle — Conv. — B.T. — Damaged — Yes — No Packer Depth — Ft. Size —

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 F.H. Anchor Length 50 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4932 Ft. Clock No. 47163 Depth 4935 Ft. Clock No. 68606

Top Make Kuster Cap. 4150 No. 21604 Inside / Outside Bottom Make Kuster Cap. 4000 No. 36660 Inside / Outside

Below Straddle: Depth — Rec. No. — Clock No. — Inside / Outside Depth — Ft. Rec. No. — Clock No. — Inside / Outside

Time Set Packer 8:10 PM

Tool Open I.F.P. From 8:12 P.M. to 8:42 P.M. — Hr. 30 Min. From (B) 106 / 134 P.S.I. To (C) 159 / 175 P.S.I.

Tool Closed I.C.I.P. From 8:42 P.M. to 9:12 P.M. — Hr. 30 Min. (D) 266 269 P.S.I.

Tool Open F.F.P. From 9:12 P.M. to 10:12 P.M. 1 Hr. — Min. From (E) 134 / 127 P.S.I. To (F) 127 / 127 P.S.I.

Tool Closed F.C.I.P. From 10:12 P.M. to 11:12 P.M. 1 Hr. — Min. (G) 405 414 P.S.I.

Initial Hydrostatic Pressure (A) 2337 2340 P.S.I. Final Hydrostatic Pressure (H) 2337 P.S.I. Maximum Temp. 118

INFORMATION

2340

FLOW WEAK BLOW Throughout Test

Did Well Flow Yes X No Recovery Total Ft. 130 ft DRLG. MUD

Reversed Out Yes X No Mud Type Drispac Viscosity 39 Weight 9.2 Water Loss 8.8 cc. Chlorides 15,500 P.P.M

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint — Jars: Size — In. Make — Ser. No. —

Dual Packers yes Did Packers Hold? yes Did Tool Plug? NO Where? —

DRILLING CONTRACTOR SLAWSON Drlg Co Length Drill Pipe 4468 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 F.H. In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 436 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 70 ft.

Remarks SLID TOOL 10 ft. to BOTTOM

PLUGGING ACTION IN INTIAL OPENING

INVOICE SECTION

Open Hole Test	$ 415 00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$ 415 00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Raymond M Gooden Signature of Customer or his Authorized Representative

Western Representative Carl Schouten

Operator's Time Thank you Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-13-77 Test Ticket No. 21724

Recorder No. 2604 Capacity 4150 Location 4932 Ft.

Clock No. 4763 Elevation 1976 KELLY Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2340 P.S.I.	Open Tool	8:10 P. M	
B First Initial Flow Pressure	134 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	175 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	269 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E Second Initial Flow Pressure	134 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	127 P.S.I.			
G Final Closed-in Pressure	414 P.S.I.			
H Final Hydrostatic Mud	2340 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	134
P 2	5	149
P 3	10	Pluggins Action
P 4	15	" "
P 5	20	" "
P 6	25	" "
P 7	30	175
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.

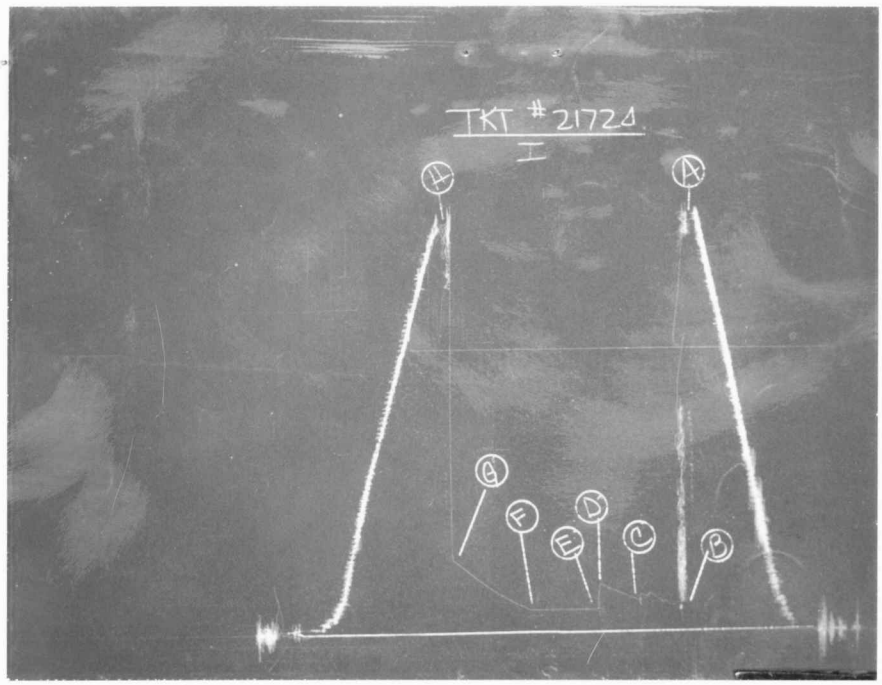
Point Minutes	Press.
0	175
3	183
6	190
9	200
12	209
15	220
18	230
21	239
24	250
27	260
30	269
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	134
5	126
10	"
15	"
20	"
25	"
30	"
35	"
40	"
45	"
50	126
55	127
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~~	~~127~~
3	141
6	151
9	158
12	170
15	183
18	194
21	207
24	220
27	235
30	250
33	265
36	282
39	297
42	316
45	335
48	352
51	372
54	389
57	408
60	414


TKT #21724
H
A
G
F
E
D
C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Patrick Petroleum Corp. Lease & Well No. Uhl #1

Elevation 1976 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. #21724

Date 1-13-77 Sec. 38 Twp. 31S Range 17W County Commanche State Kansas

Test Approved by Raymond Goodin Western Representative Carl Schouten

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4895' to 4945' Total Depth 4945'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4890 Ft. Size 6 3/4 Bottom Packer Depth 4895 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 50 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4932 Ft. Clock No. 4763 Depth 4935 Ft. Clock No. 6866

Top Make Kuster Cap. 4150 No. 2604 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 8:10 P M

Tool Open I.F.P. From 8:12P M. to 8:42P M. - Hr. 30 Min. From (B) 134 P.S.I. To (C) 175 P.S.I.

Tool Closed I.C.I.P. From 8:42P M. to 9:12P M. - Hr. 30 Min (D) 269 P.S.I.

Tool Open F.F.P. From 9:12P M. to 10:12P M. - Hr. 60 Min. From (E) 134 P.S.I. To (F) 127 P.S.I.

Tool Closed F.C.I.P. From 10:12P M. to 11:12P M. - Hr. 60 Min. (G) 414 P.S.I.

Initial Hydrostatic Pressure (A) 2340 P.S.I. Final Hydrostatic Pressure (H) 2340 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Weak blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 130' drilling mud.

Reversed Out - Yes X No Mud Type drispac Viscosity 39 Weight 9.2 Water Loss 8.8 cc. Chlorides 15,500 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Slawson Drlg. Co. Length Drill Pipe? 4468 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 436 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½XH In. Length D.S.T. Tool 70 Ft.

Remarks:

Slid tool 10' to bottom.

Plugging Action in initial opening.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-13-77 Test Ticket No. #21724

Recorder No. 2604 Capacity 4150 Location 4932 Ft.

Clock No. 4763 Elevation 1976 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2340 P.S.I.	Open Tool		8:10 P M	
B	First Initial Flow Pressure	134 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	175 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	269 P.S.I.	Second Flow Pressure		60 Mins.	55 Mins.
E	Second Initial Flow Pressure	134 P.S.I.	Final Closed-in Pressure		60 Mins.	60 Mins.
F	Second Final Flow Pressure	127 P.S.I.				
G	Final Closed-in Pressure	414 P.S.I.				
H	Final Hydrostatic Mud	2340 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	134
P 2 5	149
P 3 10	Plugging Action
P 4 15	Plugging Action
P 5 20	Plugging Action
P 6 25	Plugging Action
P 7 30	175
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	175
3	183
6	190
9	200
12	209
15	220
18	230
21	239
24	250
27	260
30	269

Second Flow Pressure
Breakdown: 11 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	134
5	126
10	126
15	126
20	126
25	126
30	126
35	126
40	126
45	126
50	126
55	127

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

Point Minutes	Press.
0	127
3	141
6	151
9	158
12	170
15	183
18	194
21	207
24	220
27	235
30	250
33	265
36	282
39	297
42	316
45	335
48	352
51	372
54	389
57	408
60	414