WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 24566

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation KC Elevation 1298KB Eff. Pay — Ft.

District Augusta Date 12-2-76 Customer Order No. —

COMPANY NAME Watson Petroleum
ADDRESS 403 Dillcrest Wichita, Ks
LEASE AND WELL NO. Green #1 COUNTY Cowley STATE Ks. Sec. 19 Twp. 33S Rge. 6E
Mail Inv. To Same No. Copies Requested 1
Co. Name Address
Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 O.K. X Misrun — Interval Tested From 2484 to 2495 Total Depth 2495
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 2479 Ft. Size 6 3/4 Bottom Packer Depth 2484 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 FH Anchor Length 11 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2489 Ft. Clock No. 6896 Depth 2491 Ft. Clock No. 6866
Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside
Below Straddle: Depth — Rec. No. — Clock No. — Inside Outside Depth — Ft. Rec. No. — Clock No. — Inside Outside

Time Set Packer 4:57 AM
Tool Open I.F.P. From 5:00 M. to 6:00 M. — Hr. 60 Min. From (B) 30 27 P.S.I. To (C) 34 27 P.S.I.
Tool Closed I.C.I.P. From 6:00 M. to 6:30 M. — Hr. 30 Min. (D) 282 274 P.S.I.
Tool Open F.F.P. From 6:30 M. to 7:30 M. — Hr. 60 Min. From (E) 45 50 P.S.I. To (F) 45 40 P.S.I.
Tool Closed F.C.I.P. From 7:30 M. to 8:00 AM — Hr. 30 Min. (G) 250 246 P.S.I.
Initial Hydrostatic Pressure (A) 1250 1244 P.S.I. Final Hydrostatic Pressure (H) 1235 1232 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Weak steady thruout test

Did Well Flow — Yes X No Recovery Total Ft. 300 Gas in pipe
5' Free oil 45' Oil cut mud

Reversed Out — Yes X No Mud Type Chem Viscosity 39 Weight 9 - Water Loss 16 - cc. Chlorides 2100
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 D. M. B Drlg Co Length Drill Pipe 1864 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 600 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars — ft. I.D. Drill Collars — In.
Tool Joint Size — In. Length D.S.T. Tool 31 ft.

Remarks Pressures from Recorder #1565

RECEIVED
DEC 3 1976

INVOICE SECTION

Open Hole Test	$ 380 00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$ 380 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 E Watson
Signature of Customer or his Authorized Representative

Western Representative Norman Allen

Operator's Time — Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-2-76 Test Ticket No. 24566

Recorder No. 1505 Capacity 3150 Location 2489

Clock No. 6866 Elevation 1298 K. Bushing Well Temperature 102

Point	Pressure			Time Given	Time Computed
Initial Hydrostatic Mud	1248	P.S.I.	Open Tool	4:57 A M	
First Initial Flow Pressure	27	P.S.I.	First Flow Pressure	60 Mins.	60
First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure	30 Mins.	30
Initial Closed-in Pressure	274	P.S.I.	Second Flow Pressure	60 Mins.	60
Second Initial Flow Pressure	50	P.S.I.	Final Closed-in Pressure	30 Mins.	33
Second Final Flow Pressure	40	P.S.I.			
Final Closed-in Pressure	246	P.S.I.			
Final Hydrostatic Mud	1232	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: 12 Inc. final inc. of 0 Min.

Point Mins.	Press.
1 0	27
2 5	24
3 10	24
4 15	
5 20	
6 25	
7 30	24
8 35	25
9 40	26
10 45	26
11 50	27
12 55	27
13 60	27
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In Breakdown: 10 Inc. final inc. of 0 Min.

Point Minutes	Press.
0	27
3	30
6	38
9	49
12	63
15	83
18	110
21	135
24	171
27	219
30	274
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

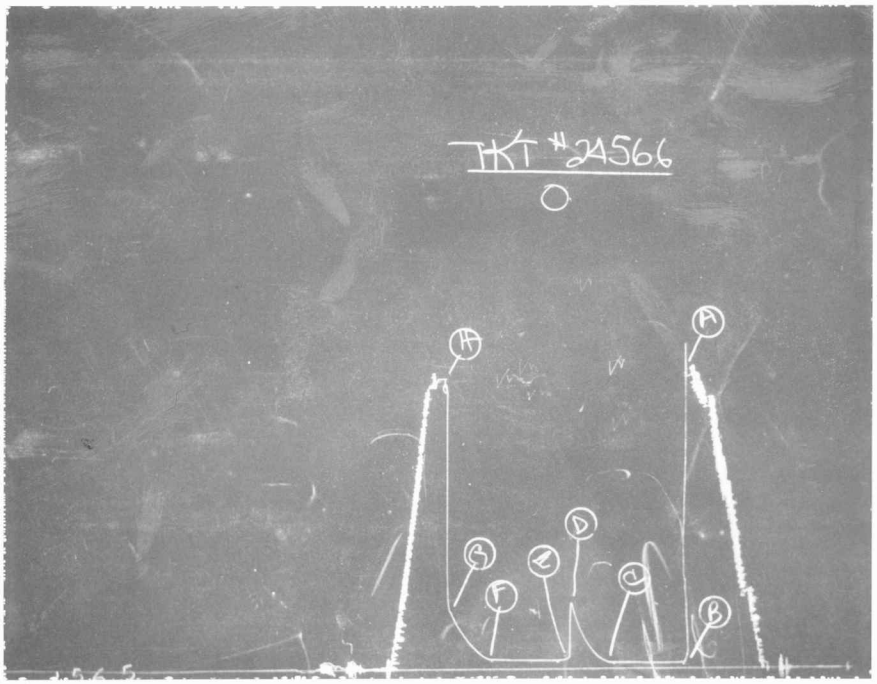
Second Flow Pressure Breakdown: 12 Inc. final inc. of 0 Min.

Point Minutes	Press.
0	50
5	37
10	35
15	36
20	36
25	36
30	37
35	37
40	38
45	38
50	38
55	39
60	40
65	
70	
75	
80	
85	
90	

Final Shut-In Breakdown: 11 Inc. final inc. of 0 Min.

Point Minutes	Press.
0	40
3	45
6	53
9	68
12	85
15	100
18	122
21	144
24	169
27	201
30	237
33	246
36	
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4


TKT #24566
H
A
G
E
D
F
C
B

WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P. O. Box 1599 (316) 838-0601

Company Watson Petroleum, Inc. Lease & Well No. Green #1

Elevation 1298 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 24566

Date 12-2-76 Sec. 19 Twp. 33S Range 6E County Cowley State Kansas

Test Approved by L.A. Watson Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun - Interval Tested From 2484' to 2495' Total Depth 2495'

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 2479 Ft. Size 6 3/4 Bottom Packer Depth 2484 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 11 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2489 Ft. Clock No. 6896 Depth 2491 Ft. Clock No. 6866

Top Make Kuster Cap. 3150 No. 1562 Inside ~~Outside~~ Bottom Make Kuster Cap. 3150 No. 1565 ~~Inside~~ Outside

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

Time Set Packer 4:57A. M

Tool Open I.F.P. From 5:00A M. to 6:00A M. - Hr. 60 Min. From (B) 27 P.S.I. To (C) 27 P.S.I.

Tool Closed I.C.I.P. From 6:00A M. to 6:30A M. - Hr. 30 Min (D) 274 P.S.I.

Tool Open F.F.P. From 6:30A M. to 7:30A M. - Hr. 60 Min. From (E) 50 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 7:30A M. to 8:00A M. - Hr. 30 Min. (G) 246 P.S.I.

Initial Hydrostatic Pressure (A) 1250 P.S.I. Final Hydrostatic Pressure (H) 1232 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Weak steady blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 300' gas in pipe, 5' of free oil, 45' oil cut mud.

Reversed Out - Yes X No Mud Type Chem Viscosity 39 Weight 9. Water Loss 16 cc. Chlorides 2100 PPM

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 DNB Drlg, Inc. Length Drill Pipe? 1864 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 600 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½XH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 31 Ft.

Remarks: Read pressures from recorder #1565.

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 12-2-76 Test Ticket No. 24566

Recorder No. 1565 Capacity 3150 Location 2489 Ft.

Clock No. 6866 Elevation 1298 Kelly Bushing Well Temperature 102 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1248	P.S.I.	Open Tool	4:57A.	M		
B	First Initial Flow Pressure	27	P.S.I.	First Flow Pressure	60	Mins.	60	Mins.
C	First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	274	P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	50	P.S.I.	Final Closed-in Pressure	30	Mins.	33	Mins.
F	Second Final Flow Pressure	40	P.S.I.					
G	Final Closed-in Pressure	246	P.S.I.					
H	Final Hydrostatic Mud	1232	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 12 Inc.		Breakdown: 10 Inc.		Breakdown: 12 Inc.		Breakdown: 11 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	27	0	27	0	50	0	40
P 2 5	24	3	30	5	37	3	45
P 3 10	24	6	38	10	35	6	53
P 4 15	24	9	49	15	36	9	68
P 5 20	24	12	63	20	36	12	85
P 6 25	24	15	83	25	36	15	100
P 7 30	24	18	110	30	37	18	122
P 8 35	25	21	135	35	37	21	144
P 9 40	26	24	171	40	38	24	169
P10 45	26	27	219	45	38	27	201
P11 50	27	30	274	50	38	30	237
P12 55	27			55	39	33	246
P13 60	27			60	40		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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