WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 8738

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

Elevation _____ Formation Mississippi Eff. Pay — Ft.

District GT. Bend Date 12-30-80 Customer Order No. —

COMPANY NAME PinTail Petroleum

ADDRESS 405 Century Plaza Building Wichita Kansas 67202

LEASE AND WELL NO. Foos #1 COUNTY Ness STATE KS. Sec. 34 Twp. 19S Rge. 22W

Mail Invoice To SAME No. Copies Requested 5
Co. Name Address

Mail Charts To SAME No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 4415 ft. to 4430 ft. Total Depth 4481 ft.

Packer Depth 4410 ft. Size 6 5/8 in. Packer Depth 4430 ft. Size 6 5/8 in.

Packer Depth 4415 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4418 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 4421 ft. Recorder Number 10979 Cap. 4100

Below Straddle Recorder Depth 4479 ft. Recorder Number W.T.C. Cap. —

Drilling Contractor STRATA Drilling Company Drill Collar Length — I. D. — in.

Mud Type STARCH Viscosity 49 Weight Pipe Length 796 I. D. 2.7 in.

Weight ? Water Loss 20 cc. Drill Pipe Length — I. D. 3.8 in.

Chlorides ? P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 15 ft. Size 5 1/2 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: Tool Stopped Very Weak Blow That died Flushed Tool 15 min No Blow
Tool Opened NO Blow (Flushed Tool 15 min No Blow)

Recovered 20 ft. of Mud

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) 7:57	A.M. P.M.	Time Started Off Bottom 9:18	A.M. P.M.	Maximum Temperature 123	

Initial Hydrostatic Pressure			(A) 2427	P.S.I.		
Initial Flow Period	Minutes 30		(B) 38	P.S.I. to	(C) 38	P.S.I.
Initial Closed In Period	Minutes 30		(D) 971	P.S.I.		
Final Flow Period	Minutes 27		(E) 38	P.S.I. to	(F) 38	P.S.I.
Final Closed In Period	Minutes		(G) —	P.S.I.		
Final Hydrostatic Pressure			(H) 2427	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 Richard A Robba
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you
Vernon Wendel

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$ 250.00
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$ 200.00
Circ. Sub.	$
Mileage 60 mi.	$ 45.00
Fluid Sampler	$
Extra Charts	$
Insurance	$
TOTAL	$ 1095.00

WESTERN TESTING CO., INC.
Pressure Data

Date 12-30 Test Ticket No. 8738

Recorder No. 6074 Capacity 5100 Location 4418 Ft.

Clock No. ——— Elevation ——— Well Temperature 123 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2427	P.S.I.	Open Tool	2:51 PM	
B	First Initial Flow Pressure	49*	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	84*	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	1008	P.S.I.	Second Flow Pressure	27 Mins.	25 Mins.
E	Second Initial Flow Pressure	69*	P.S.I.	Final Closed-in Pressure	— Mins.	— Mins.
F	Second Final Flow Pressure	53	P.S.I.			
G	Final Closed-in Pressure	———	P.S.I.			
H	Final Hydrostatic Mud	2427	P.S.I.			

* Plugging action.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	49 *
P 2	5	51 *
P 3	10	54 *
P 4	15	Flushed Tool
P 5	20	64 *
P 6	25	128 *
P 7	30	84 *
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: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	84 *
3	151 *
6	225
9	363
12	522
15	662
18	772
21	882
24	962
27	1008
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	69 *
5	82 *
10	156 *
15	Flushed Tool
20	54
25	53
30	
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

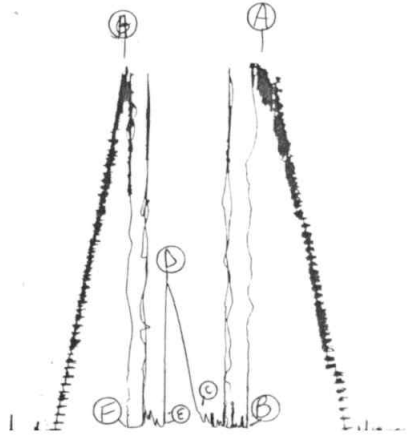
Final Shut-In
Breakdown: 0 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	
3	
6	
9	
12	
15	
18	
21	
24	
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

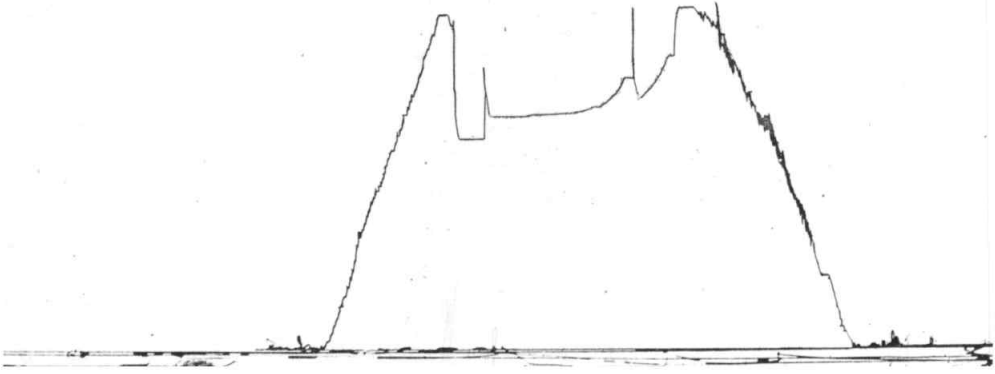
WTC - 4

TKT # 8735

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TKT #8738.
Below Straddle



Company Pintail Petroleum — Lease & Well No. Foos #1

Elevation - Formation Mississippi — Effective Pay - Ft. — Ticket No. 8738

Date 12-30-80 — Sec. 34 — Twp. 19S — Range 22W — County Ness — State Kansas

Test Approved by Richard A Robba — Western Representative Ray Schwager-Vernon Wondra

Formation Test No. 1 — Interval Tested from 4415 ft. to 4430 ft. — Total Depth 4481 ft.

Packer Depth 4410 ft. — Size 6 5/8 in. — Packer Depth 4430 ft. — Size 6 5/8 in.

Packer Depth 4415 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4418 ft. — Recorder Number 6074 — Cap. 5100

Bottom Recorder Depth (Outside) 4421 ft. — Recorder Number 10979 — Cap. 4100

Below Straddle Recorder Depth 4479 ft. — Recorder Number WTC — Cap. -

Drilling Contractor Strata Drilling Company — Drill Collar Length - — I. D. - in.

Mud Type Starch — Viscosity 49 — Weight Pipe Length 796 — I. D. 2.7 in.

Weight - — Water Loss 20.0 cc. — Drill Pipe Length - — I. D. 3.8 in.

Chlorides - P.P.M. — Test Tool Length 21 ft. — Tool Size 5½ in.

Jars: Make - — Serial Number - — Anchor Length 15 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 very weak blow that died. Flushed tool - 15 minutes - no blow.
Final flow period no blow (flushed tool - 15 minutes - no blow)

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:51 ~~A.M.~~ P.M. — Time Started Off Bottom 9:18 ~~A.M.~~ P.M. — Maximum Temperature 123

Initial Hydrostatic Pressure			(A) 2427	P.S.I.		
Initial Flow Period	Minutes 30	(B) 49*	P.S.I. to	(C) 84*	P.S.I.	
Initial Closed In Period	Minutes 27	(D) 1008	P.S.I.			
Final Flow Period	Minutes 25	(E) 69*	P.S.I. to	(F) 53	P.S.I.	
Final Closed In Period	Minutes -	(G) -	P.S.I.			
Final Hydrostatic Pressure			(H) 2427	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 12-30-80 Test Ticket No. 8738

Recorder No. 6074 Capacity 5100 Location 4418 Ft.

Clock No. - Elevation - Well Temperature 123 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2427 P.S.I.		Open Tool	7:51P M	
B	First Initial Flow Pressure	49* P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	84* P.S.I.		Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	1008 P.S.I.		Second Flow Pressure	27 Mins.	25 Mins.
E	Second Initial Flow Pressure	69* P.S.I.		Final Closed-in Pressure	- Mins.	- Mins.
F	Second Final Flow Pressure	53 P.S.I.		*Plugging Action		
G	Final Closed-in Pressure	- P.S.I.				
H	Final Hydrostatic Mud	2427 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	49*
P 2	5	51*
P 3	10	54*
P 4	15	Flushed Tool
P 5	20	64*
P 6	25	128*
P 7	30	84*
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	84*
3	151*
6	225
9	363
12	522
15	662
18	772
21	882
24	962
27	1008

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

Point Minutes	Press.
0	69*
5	82*
10	156*
15	Flushed Tool
20	54
25	53

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

Point Minutes	Press.

WTC - 4