WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7753

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

Kelly Bushing Elevation 1393 KB Formation Mississippi Eff. Pay Ft.

District Augusta Date 11-2-80 Customer Order No.

COMPANY NAME Don Ray Explorations ~~Consulting~~

ADDRESS 2525 N. New York Bldg. 2 Office 201 Wichita, Ks. 67219

LEASE AND WELL NO. Schroeder #1 COUNTY Butler STATE Ks. Sec. 18 Twp. 26 Rge. 3E

Mail Invoice To ~~Schroeder~~ Same Co. Name Schroeder #1 Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2847 ft. to 2865 ft. Total Depth 2865 ft.

Packer Depth 2847 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2842 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2858 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2861 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor White & Ellis # 4 Drill Collar Length 198 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 40 Weight Pipe Length — I. D. — in.

Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 2625 I. D. 3.8 in.

Chlorides 2800 P.P.M. Test Tool Length 42 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 18 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: Weak diminished very weak 25 min. flushed tool very weak 10 min.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
NOV 3 - 1980

Time On Location 6:30 A.M. P.M. Time Pick Up Tool 8:15 A.M. P.M. Time Off Location 1:00 A.M. P.M.

Time Set Packer(s) 9:30 A.M. P.M. Time Started Off Bottom 11:30 A.M. P.M. Maximum Temperature 102

Initial Hydrostatic Pressure			(A)	1546	P.S.I.	
Initial Flow Period	Minutes	30	(B)	50	P.S.I. to (C)	50 P.S.I.
Initial Closed In Period	Minutes	30	(D)	270	P.S.I.	
Final Flow Period	Minutes	30	(E)	60	P.S.I. to (F)	60 P.S.I.
Final Closed In Period	Minutes	30	(G)	210	P.S.I.	
Final Hydrostatic Pressure			(H)	1546	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.

J. Baker

Test Approved By
Signature of Customer or his authorized representative

Western Representative Wynn Weir

FIELD INVOICE

Open Hole Test	$ 550 00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$ 00
20 Mileage	$ 15
Fluid Sampler	$
Extra Charts	$
Insurance	$
TOTAL	$ 565 00

WESTERN TESTING CO., INC.

Pressure Data

Date 11-2-80 Test Ticket No. 7753

Recorder No. 1559 Capacity 4200 Location 2847 Ft.

Clock No. — Elevation 1393 K B Well Temperature 102 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1548	P.S.I.	Open Tool	9:30 AM	
B	First Initial Flow Pressure	50	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	48	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	257	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	64	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	56	P.S.I.			
G	Final Closed-in Pressure	205	P.S.I.			
H	Final Hydrostatic Mud	1532	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	50
P 2	5	48
P 3	10	↑
P 4	15	
P 5	20	
P 6	25	✓
P 7	30	48
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	48
3	48
6	49
9	56
12	67
15	84
18	102
21	136
24	170
27	222
30	257
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	64
5	Flushed Tool 60
10	56
15	↓
20	
25	✓
30	56
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	56
3	56
6	58
9	69
12	79
15	94
18	111
21	130
24	159
27	182
30	205
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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JK# 7753

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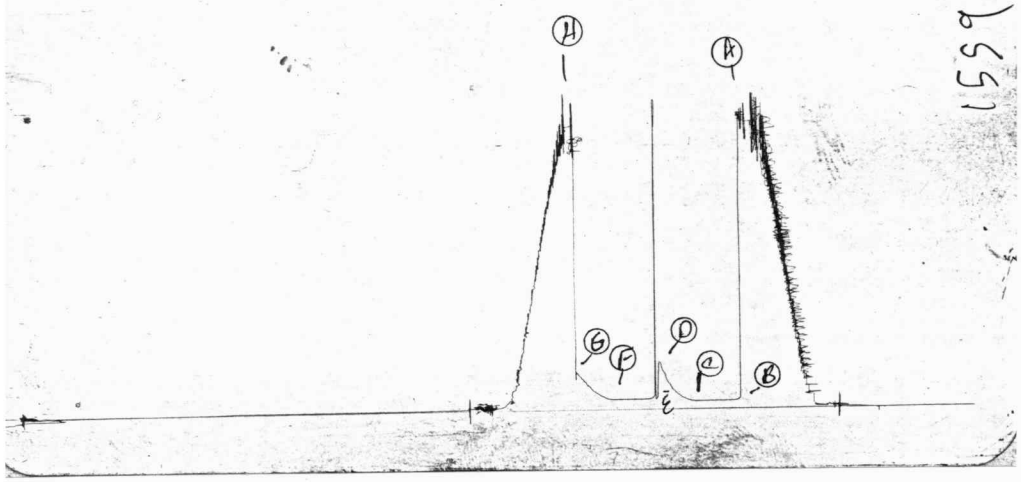

Company Don Ray Explorations | Lease & Well No. Schroeder #1

Elevation 1393 Kelly Bushing | Formation Mississippi | Effective Pay -- Ft. | Ticket No. 7753

Date 11/2/80 | Sec. 18 | Twp. 26S | Range 3E | County Butler | State Kansas

Test Approved by J. Baker | Western Representative Wynn Weir

Formation Test No. 1 | Interval Tested from 2847 ft. to 2865 ft. | Total Depth 2865 ft.

Packer Depth 2847 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 2842 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2858 ft. | Recorder Number 1559 | Cap. 4200

Bottom Recorder Depth (Outside) 2861 ft. | Recorder Number 5666 | Cap. 3950

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

Drilling Contractor White & Ellis, Drlg. Rig #4 | Drill Collar Length 198 | I. D. 2¼ in.

Mud Type chemical | Viscosity 40 | Weight Pipe Length - | I. D. - in.

Weight 9.7 | Water Loss 12.0 cc. | Drill Pipe Length 2625 | I. D. 3.8 in.

Chlorides 2,800 P.P.M. | Test Tool Length 42 ft. | Tool Size 5½ in.

Jars: Make - | Serial Number - | Anchor Length 18 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: Weak, diminished to very weak in twenty-five minutes; flushed tool very weak ten minutes.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:30 A.M. ~~P.M.~~ | Time Started Off Bottom 11:30 A.M. ~~P.M.~~ | Maximum Temperature 102°

Initial Hydrostatic Pressure			(A) 1548	P.S.I.		
Initial Flow Period	Minutes 30	(B) 50	P.S.I. to	(C) 48	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 257	P.S.I.			
Final Flow Period	Minutes 30	(E) 64	P.S.I. to	(F) 56	P.S.I.	
Final Closed In Period	Minutes 30	(G) 205	P.S.I.			
Final Hydrostatic Pressure			(H) 1532	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 11/2/80 Test Ticket No. 7753

Recorder No. 1559 Capacity 4200 Location 2847 Ft.

Clock No. -- Elevation 1393 Kelly Bushing Well Temperature 102 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1548	P.S.I.	Open Tool	9:30A	M		
B	First Initial Flow Pressure	50	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	48	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	257	P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	64	P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	56	P.S.I.					
G	Final Closed-in Pressure	205	P.S.I.					
H	Final Hydrostatic Mud	1532	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	50
P 2 5	48
P 3 10	48
P 4 15	48
P 5 20	48
P 6 25	48
P 7 30	48
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	48
3	48
6	49
9	56
12	67
15	84
18	102
21	136
24	170
27	222
30	257

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

Point Minutes	Press.
0	64
5	60
10	56
15	56
20	56
25	56
30	56

Flushed tool

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

Point Minutes	Press.
0	56
3	56
6	58
9	69
12	79
15	94
18	111
21	130
24	159
27	182
30	205

OK

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7754

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

Kelly Bushing
Elevation 1393 KB Formation Mississippi Eff. Pay Ft.

District Augusta Date 11-2-80 Customer Order No. —

COMPANY NAME Don Ray Exploration ~~Consulting~~

ADDRESS 2525 N. New York Bldg. 2 Office 201 Wichita, Ks. 67219

LEASE AND WELL NO. Schroeder #1 COUNTY Butler STATE Ks. Sec. 18 Twp. 26 Rge. 3E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 2880 ft. to 2893 ft. Total Depth 2893 ft.

Packer Depth 2880 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2875 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2884 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2889 ft. Recorder Number 5660 Cap. 3950

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

Drilling Contractor White & Ellis #4 Drill Collar Length 198 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 40 Weight Pipe Length — I. D. in.

Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 2658 I. D. 3.8 in.

Chlorides 2800 P.P.M. Test Tool Length 37 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 13 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: Strong throughout Test

Recovered 50 ft. of Gas in pipe

Recovered 10 ft. of Heavy oil & Gas cut muddy water

Recovered 350 ft. of Slight oil cut gassy salt water

Recovered 1640 ft. of Gassy salt water .1 Resistivity @ 68° F 62,000 PPM Chlorides

Recovered ft. of

Remarks:

Time On Location 2:00 A.M. P.M. Time Pick Up Tool 5:45 A.M. P.M. Time Off Location 1:00 A.M. P.M.

Time Set Packer(s) 7:00 A.M. P.M. Time Started Off Bottom 10:00 A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A)	1483	P.S.I.	
Initial Flow Period	Minutes 30		(B)	50	P.S.I. to (C)	200 P.S.I.
Initial Closed In Period	Minutes 30		(D)	780	P.S.I.	
Final Flow Period	Minutes 60		(E)	250	P.S.I. to (F)	430 P.S.I.
Final Closed In Period	Minutes 60		(G)	795	P.S.I.	
Final Hydrostatic Pressure			(H)	1483	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

Signature of Customer or his authorized representative

Western Representative Wynn Weir

RECEIVED NOV 5 - 1980

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
20 Mileage	$ 15.00
Fluid Sampler	$
Extra Charts	$
Insurance	$
TOTAL	$ 565.00

WESTERN TESTING CO., INC.
Pressure Data

Date 11-2-80 Test Ticket No. 7754

Recorder No. 1559 Capacity 4200 Location 2886 Ft.

Clock No. Elevation 1393 KB Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1481 P.S.I.	Open Tool		7:00 PM	
B	First Initial Flow Pressure	52 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	200 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	789 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	250 P.S.I.	Final Closed-in Pressure		60 Mins.	60 Mins.
F	Second Final Flow Pressure	439 P.S.I.				
G	Final Closed-in Pressure	797 P.S.I.				
H	Final Hydrostatic Mud	1481 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	52
P 2	5	69
P 3	10	94
P 4	15	121
P 5	20	144
P 6	25	169
P 7	30	200
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	200
3	681
6	733
9	754
12	766
15	772
18	779
21	781
24	785
27	787
30	789
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	250
5	253
10	263
15	282
20	303
25	322
30	342
35	362
40	380
45	399
50	416
55	430
60	439
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	439
3	723
6	750
9	766
12	777
15	783
18	785
21	787
24	789
27	791
30	793
33	794
36	795
39	796
42	797
45	797
48	
51	
54	
57	
60	797

WTC - 4

JKH # 7754

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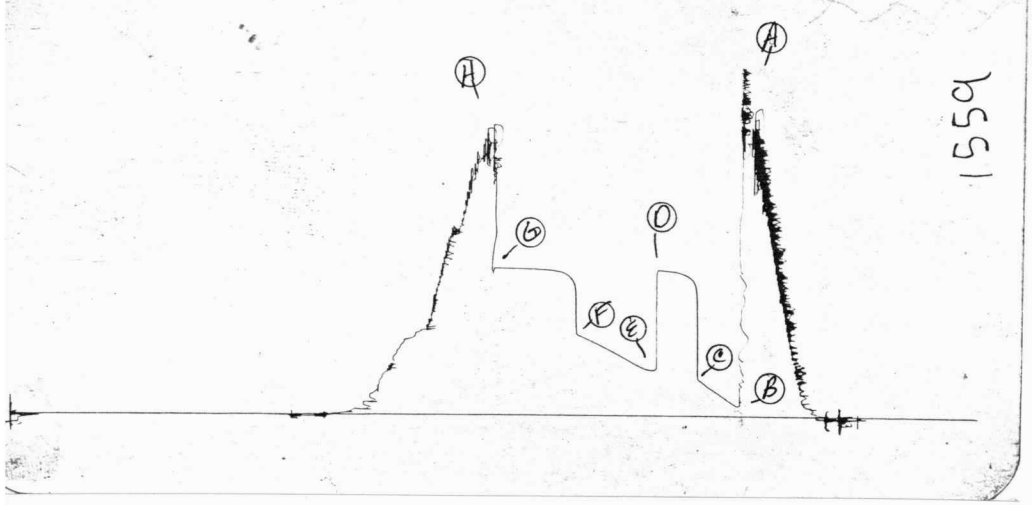

1554

Company Don Ray Explorations Lease & Well No. Schroeder #1

Elevation 1393 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 7754

Date 11/2/80 Sec. 18 Twp. 26S Range 3E County Butler State Kansas

Test Approved by J. Baker Western Representative Wynn Weir

Formation Test No. 2 Interval Tested from 2880 ft. to 2893 ft. Total Depth 2893 ft.

Packer Depth 2880 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2875 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2886 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2889 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor White & Ellis Drlg. Rig #4 Drill Collar Length 198 I. D. 2¼ in.

Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 2658 I. D. 3.8 in.

Chlorides 2,800 P.P.M. Test Tool Length 37 ft. Tool Size 5½ in.

Jars: Make --- Serial Number - Anchor Length 13 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: Strong throughout test.

Recovered 50 ft. of gas in pipe

Recovered 10 ft. of heavy oil and gas cut muddy water

Recovered 350 ft. of slightly oil cut gassy salt water

Recovered 640 ft. of gassy salt water .1 resistivity @ 68°F

Recovered ft. of 62,000 ppm chlorides

Remarks:

Time Set Packer(s) 7:00 A.M. / P.M. Time Started Off Bottom 10:00 A.M. / P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure			(A)	1481	P.S.I.	
Initial Flow Period	Minutes 30	(B)	52	P.S.I. to (C)	200	P.S.I.
Initial Closed In Period	Minutes 30	(D)	789	P.S.I.		
Final Flow Period	Minutes 60	(E)	250	P.S.I. to (F)	439	P.S.I.
Final Closed In Period	Minutes 60	(G)	797	P.S.I.		
Final Hydrostatic Pressure		(H)	1481	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 11/2/80 Test Ticket No. 7754

Recorder No. 1559 Capacity 4200 Location 2886 Ft.

Clock No. - Elevation 1393 Kelly Bushing Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1481	P.S.I.
B	First Initial Flow Pressure	52	P.S.I.
C	First Final Flow Pressure	200	P.S.I.
D	Initial Closed-in Pressure	789	P.S.I.
E	Second Initial Flow Pressure	250	P.S.I.
F	Second Final Flow Pressure	439	P.S.I.
G	Final Closed-in Pressure	797	P.S.I.
H	Final Hydrostatic Mud	1481	P.S.I.

	Time Given	Time Computed
Open Tool	7:00P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	60 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	52
P 2	5	69
P 3	10	94
P 4	15	121
P 5	20	144
P 6	25	169
P 7	30	200
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	200
	3	681
	6	733
	9	754
	12	766
	15	772
	18	779
	21	781
	24	785
	27	787
	30	789

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	250
	5	253
	10	263
	15	282
	20	303
	25	322
	30	342
	35	362
	40	380
	45	399
	50	416
	55	430
	60	439

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

Point	Minutes	Press.
	0	439
	3	723
	6	750
	9	766
	12	777
	15	783
	18	785
	21	787
	24	789
	27	791
	30	793
	33	794
	36	795
	39	796
	42	797
	45	797
	48	797
	51	797
	54	797
	57	797
	60	797