WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 1/14/80

Well Report No. 5478
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO

Petroleum Energy, Inc.
Suite 710, One Twenty Building
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No.	Farm	County	Sec.	Twp.	Range
#2	Rugan	Barton	16	18S	11W

One drill stem test from 3060' to 3106' (Test 1) $ 500.00

POSTED

Discount	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 5.00		5478

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 5478

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1785 KB Formation Lans Eff. Pay — Ft.

District Great Bend Date 1-14-80 Customer Order No. —

COMPANY NAME Petroleum Energy INC

ADDRESS Suite 710 One Twenty Bldg Wichita KS 67202

LEASE AND WELL NO. #2 Rugan COUNTY Barton STATE KS Sec. 16 Twp. 18S Rge. 11W

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 3060 ft. to 3106 ft. Total Depth 3106 ft.

Packer Depth 3055 ft. Size 6 3/4 in. Packer Depth 3060 ft. Size 6 3/4 in.

Packer Depth — ft. Size — in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3099 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3102 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Allen Drlg RIG #2 Drill Collar Length 247 I. D. 2 1/4 in.

Mud Type Starch Viscosity 45 Weight Pipe Length — I. D. — in.

Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length 2792 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make — Serial Number — Anchor Length 46 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 Blow THRU First opening

Recovered 25 ft. of Slightly Gas cut mud (No water)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

(Three min to flush tool)

RECEIVED
JAN 17 1980

Time Set Packer(s) 6:12 A.M. P.M. Time Started Off Bottom 7:58 A.M. P.M. Maximum Temperature 101

Initial Hydrostatic Pressure		(A)	1654	P.S.I.		
Initial Flow Period	Minutes 30	(B)	61	P.S.I. to (C)	51	P.S.I.
Initial Closed In Period	Minutes 30	(D)	102	P.S.I.		
Final Flow Period	Minutes 20	(E)	51	P.S.I. to (F)	51	P.S.I.
Final Closed In Period	Minutes 20	(G)	81	P.S.I.		
Final Hydrostatic Pressure		(H)	1612	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 Tim Musgrove
Signature of Customer or his authorized representative

Western Representative Roger Tinsley Thank you

FIELD INVOICE

Open Hole Test	$ 500.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 500.00

WESTERN TESTING CO., INC.
Pressure Data

Date 1-14-80 Test Ticket No. 5478

Recorder No. 969 Capacity 4200 Location 3099 Ft.

Clock No. Elevation 1785 KB Well Temperature 101 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1667 P.S.I.		Open Tool	6:12 PM	
B	First Initial Flow Pressure	57 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	49 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	106 P.S.I.		Second Flow Pressure	20 Mins.	20 Mins.
E	Second Initial Flow Pressure	61 P.S.I.		Final Closed-in Pressure	20 Mins.	20 Mins.
F	Second Final Flow Pressure	61 P.S.I.				
G	Final Closed-in Pressure	84 P.S.I.				
H	Final Hydrostatic Mud	1600 P.S.I.				

WATCH

PRESSURE BREAKDOWN

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

Point Mins.		Press.
P 1	0	57
P 2	5	57
P 3	10	52
P 4	15	49
P 5	20	
P 6	25	
P 7	30	49
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	49
3	51
6	54
9	56
12	59
15	63
18	66
21	75
24	84
27	94
30	106
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

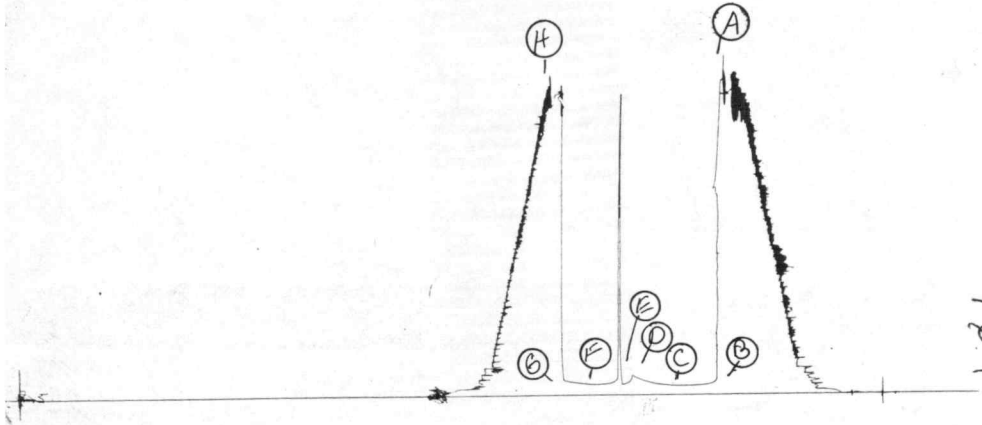
Point Minutes	Press.	
0	61	
5	61	
10		Flushed Tool
15	63	
20	61	
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90		

Final Shut-In
Breakdown: 5 Inc.
of 3 mins. and a
final inc. of 02 Min.

Point Minutes	Press.
0	61
3	62
6	64
9	67
12	70
15	74
18	80
20	84
24	
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4

TKt# 5478
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969

Company Petroleum Energy, Inc. Lease & Well No. Rugan #2

Elevation 1785 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 5478

Date 1/14/80 Sec. 16 Twp. 18S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 3060 ft. to 3106 ft. Total Depth 3106 ft.

Packer Depth 3055 ft. Size 6 3/4 in. Packer Depth 3060 ft. Size 6 3/4 in.

Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3099 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3102 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Allen Drilling Rig #2 Drill Collar Length 247 I. D. 2¼ in.

Mud Type starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length 2792 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make -- Serial Number -- Anchor Length 46 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 lbow throughout first opening.

Recovered 25 ft. of slightly gas cut mud (no water)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Three minutes to flush tool.

Time Set Packer(s) 6:12 ~~A.M.~~ P.M. Time Started Off Bottom 7:58 ~~A.M.~~ P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure ..... (A) 1667 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 57 P.S.I. to (C) 49 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 106 P.S.I.

Final Flow Period ..... Minutes 20 (E) 61 P.S.I. to (F) 61 P.S.I.

Final Closed In Period ..... Minutes 20 (G) 84 P.S.I.

Final Hydrostatic Pressure ..... (H) 1600 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/14/80 Test Ticket No. 5478

Recorder No. 969 Capacity 4200 Location 3099 Ft.

Clock No. -- Elevation 1785 Kelly Bushing Well Temperature 101 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1667	P.S.I.	Open Tool	6:12P M	
B	First Initial Flow Pressure	57	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	49	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	106	P.S.I.	Second Flow Pressure	20 Mins.	20 Mins.
E	Second Initial Flow Pressure	61	P.S.I.	Final Closed-in Pressure	20 Mins.	20 Mins.
F	Second Final Flow Pressure	61	P.S.I.			
G	Final Closed-in Pressure	84	P.S.I.			
H	Final Hydrostatic Mud	1600	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.		Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.		Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.		Breakdown: 5 Inc. of 3 mins. and a final inc. of 2 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	57	0	49	0	61	0	61
P 2 5	57	3	51	5	61	3	62
P 3 10	52	6	54	10 Flushed tool		6	64
P 4 15	49	9	56	15	63	9	67
P 5 20	49	12	59	20	61	12	70
P 6 25	49	15	63			15	74
P 7 30	49	18	66			18	80
P 8		21	75			20	84
P 9		24	84				
P10		27	94				
P11		30	106				
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTERS

WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 1/15/80

Well Report No. 5479 101°
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO

Petroleum Energy, Inc.
Suite 710, One Twenty Building
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No.	Farm	County	Sec.	Twp.	Range
#2	Rugan	Barton	16	18S	11W

One drill stem test from 3284' to 3329' (Test 2) $ 500.00

POSTED

Discount	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 5.00		5479

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 5479

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1785 KB Formation Arbuckle Eff. Pay — Ft.

District Great Bend Date 1-15-80 Customer Order No. —

COMPANY NAME OR. Petroleum Energy Inc.

ADDRESS Suite 710 One Twenty Bldg Wichita Ks 67202

LEASE AND WELL NO. #2 Rugan COUNTY Barton STATE Ks Sec. OR 16 Twp. 18S Rge. 11 W

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3284 ft. to 3329 ft. Total Depth 3329 ft.

Packer Depth 3279 ft. Size 6 3/4 in. Packer Depth 3284 ft. Size 6 3/4 in.

Packer Depth — ft. Size — in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3322 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3325 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor

Mud Type Starch Viscosity 41

Weight 9.7 Water Loss 12.4 cc.

Chlorides 43,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? NO Reversed Out NO

Drill Collar Length 247 I. D. 2 1/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 3016 I. D. 3.8 in.

Test Tool Length 21 ft. Tool Size 4 3/4 in.

Anchor Length 45 ft. Size 5 1/2 in.

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: Good Blow increasing to strong blow first opening
strong blow second opening

Recovered 315 ft. of clean gassy oil (36 Gravity)

Recovered 415 ft. of muddy gassy oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: (No water)

RECEIVED JAN 17 1980

Time Set Packer(s) 7:48 A.M. P.M. Time Started Off Bottom 10:50 A.M. P.M. Maximum Temperature 112

Initial Hydrostatic Pressure			(A) 1717	P.S.I.		
Initial Flow Period	Minutes 45	(B) 150	P.S.I. to	(C) 225	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 995	P.S.I.			
Final Flow Period	Minutes 45	(E) 279	P.S.I. to	(F) 301	P.S.I.	
Final Closed In Period	Minutes 45	(G) 995	P.S.I.			
Final Hydrostatic Pressure		(H) 1664	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 Jim Musgrove
Signature of Customer or his authorized representative

Western Representative Roger Lisenby Thank You

FIELD INVOICE

Open Hole Test	$ 500.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 500.00

WESTERN TESTING CO., INC.
Pressure Data

Date 1-15-80 Test Ticket No. 5479

Recorder No. 969 Capacity 4200 Location 3322 Ft.

Clock No. Elevation 1785 KB Well Temperature 112 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1722	P.S.I.	Open Tool	7:48 PM	
B	First Initial Flow Pressure	154	P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	221	P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1025	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	270	P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	307	P.S.I.			
G	Final Closed-in Pressure	1025	P.S.I.			
H	Final Hydrostatic Mud	1678	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	154
P 2	5	172
P 3	10	172
P 4	15	182
P 5	20	193
P 6	25	223
P 7	30	225
P 8	35	221
P 9	40	221
P10	45	221
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	221
3	629
6	772
9	832
12	871
15	900
18	918
21	935
24	952
27	969
30	984
33	992
36	1001
39	1009
42	1017
45	1025
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

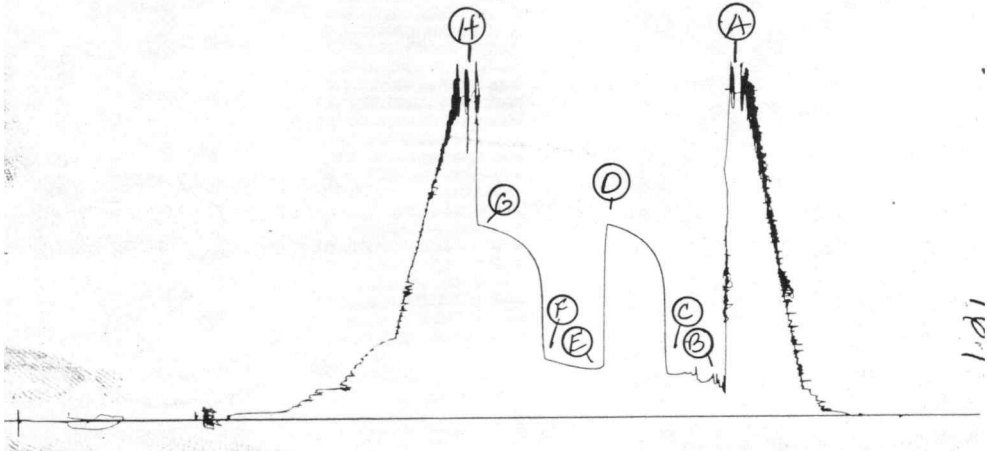
Point Minutes	Press.
0	270
5	254
10	254
15	258
20	266
25	275
30	283
35	291
40	300
45	307
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	307
3	621
6	770
9	828
12	865
15	893
18	916
21	931
24	946
27	960
30	975
33	986
36	996
39	1008
42	1017
45	1025
48	
51	
54	
57	
60	

WTC - 4

KL# 5479
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Company Petroleum Energy, Inc. Lease & Well No. Rugan #2

Elevation 1785 Kelly Bushing Formation Arbuckle Effective Pay -- Ft. Ticket No. 5479

Date 1/15/80 Sec. 16 Twp. 18S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 3284 ft. to 3329 ft. Total Depth 3329 ft.

Packer Depth 3279 ft. Size 6 3/4 in. Packer Depth 3284 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3322 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3325 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Allen Drilling Rig #2 Drill Collar Length 247 I. D. 2¼ in.

Mud Type starch Viscosity 41 Weight Pipe Length -- I. D. - in.

Weight 9.7 Water Loss 12.4 cc. Drill Pipe Length 3016 I. D. 3.8 in.

Chlorides 63,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make -- Serial Number -- Anchor Length 45 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: Good blow increasing to strong blow first opening. Strong blow second opening.

Recovered 315 ft. of clean gassy oil (36 gravity)

Recovered 415 ft. of muddy gassy oil

Recovered ft. of (No water)

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:48 ~~A.M.~~ P.M. Time Started Off Bottom 10:50 ~~A.M.~~ P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure			(A) 1722	P.S.I.		
Initial Flow Period	Minutes 45	(B) 154	P.S.I. to	(C) 221	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 1025	P.S.I.			
Final Flow Period	Minutes 45	(E) 270	P.S.I. to	(F) 307	P.S.I.	
Final Closed In Period	Minutes 45	(G) 1025	P.S.I.			
Final Hydrostatic Pressure			(H) 1678	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 1/15/80

Test Ticket No. 5479

Recorder No. 969 Capacity 4200 Location 3322 Ft.

Clock No. -- Elevation 1785 Kelly Bushing Well Temperature 112 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1722 P.S.I.	Open Tool		7;48P M	
B	First Initial Flow Pressure	154 P.S.I.	First Flow Pressure		45 Mins.	45 Mins.
C	First Final Flow Pressure	221 P.S.I.	Initial Closed-in Pressure		45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1025 P.S.I.	Second Flow Pressure		45 Mins.	45 Mins.
E	Second Initial Flow Pressure	270 P.S.I.	Final Closed-in Pressure		45 Mins.	45 Mins.
F	Second Final Flow Pressure	307 P.S.I.				
G	Final Closed-in Pressure	1025 P.S.I.				
H	Final Hydrostatic Mud	1678 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	154
P 2	5	172
P 3	10	172
P 4	15	182
P 5	20	193
P 6	25	223
P 7	30	225
P 8	35	221
P 9	40	221
P10	45	221
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	221
3	629
6	772
9	832
12	871
15	900
18	918
21	935
24	952
27	969
30	984
33	992
36	1001
39	1009
42	1017
45	1025

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	270
5	254
10	254
15	258
20	266
25	275
30	283
35	291
40	300
45	307

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

Point Minutes	Press.
0	307
3	621
6	770
9	828
12	865
15	893
18	916
21	931
24	946
27	960
30	975
33	986
36	996
39	1008
42	1017
45	1025

WTC - 4