Company Petroleum Energy, Inc. Lease & Well No. Ringwald #3

Elevation 1789 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 11401

Date 4/10/81 Sec. 12 Twp. 19S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3066 ft. to 3117 ft. Total Depth 3117 ft.

Packer Depth 3061 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3066 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3067 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3070 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 39 Weight Pipe Length 315 I. D. 2.7 in.

Weight 9.8 Water Loss 11.2 cc. Drill Pipe Length 2729 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 51 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Strong blow throughout test. Gas to surface on second flow. See attached sheet for gas measurements.

Recovered 60 ft. of slightly oil cut mud

Recovered 60 ft. of oil cut mud

Recovered 40 ft. of muddy oil

Recovered 20 ft. of clean oil

Recovered ft. of

Remarks:

Time Set Packer(s) 1:30 ~~A.M.~~ P.M. Time Started Off Bottom 4:30 ~~A.M.~~ P.M. Maximum Temperature 96°

Initial Hydrostatic Pressure			(A)	1608	P.S.I.	
Initial Flow Period	Minutes 45	(B)	40	P.S.I. to (C)	63	P.S.I.
Initial Closed In Period	Minutes 45	(D)	284	P.S.I.		
Final Flow Period	Minutes 45	(E)	73	P.S.I. to (F)	79	P.S.I.
Final Closed In Period	Minutes 45	(G)	282	P.S.I.		
Final Hydrostatic Pressure			(H)	1608	P.S.I.	

WTC-1

GAS FLOW REPORT

Date 4/10/81 Ticket 11401 Company Petroleum Energy, Inc.

Well Name and No. Ringwald #3 Dst No. 1 Interval Tested 3066'-3117'

County Barton State Kansas Sec. 12 Twp. 19S Rg. 11W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
Gas to surface on second flow.			**SECOND FLOW**			
	15 min.	16" of water		1" orifice		103,000 CFPD
	25 min.	9" of water		1/4" orifice		5,050 CFPD
	35 min.	28" of water		1/4" orifice		8,890 CFPD
	45 min.	20" of watert		1/4" orifice		7,510 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled --- Date to be Invoiced 4/10/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Petroleum Energy, Inc.

Authorized by Jim Musgrove

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 4/10/81 Test Ticket No. 11401

Recorder No. 13269 Capacity 4375 Location 3067 Ft.

Clock No. - Elevation 1789 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1608 P.S.I.	Open Tool	1:30P M.	
B First Initial Flow Pressure	40 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	63 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	284 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	73 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	79 P.S.I.			
G Final Closed-in Pressure	282 P.S.I.			
H Final Hydrostatic Mud	1608 P.S.I.			

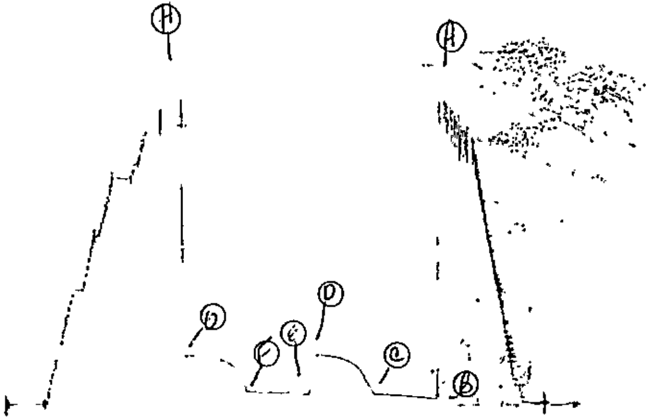
PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 9 Inc.	Breakdown: 15 Inc.	Breakdown: 9 Inc.	Breakdown: 15 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	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	40	0	63	0	73	0	79
P 2	5	40	3	106	5	66	3	152
P 3	10	44	6	141	10	69	6	192
P 4	15	47	9	185	15	73	9	126
P 5	20	51	12	211	20	73	12	231
P 6	25	55	15	231	25	73	15	244
P 7	30	57	18	244	30	74	18	253
P 8	35	59	21	256	35	77	21	259
P 9	40	62	24	262	40	77	24	264
P10	45	63½	27	267	45	79	27	270
P11			30	272			30	272
P12			33	279			33	275
P13			36	282			36	278
P14			39	283			39	280
P15			42	284			42	281
P16			45				45	282
P17								
P18								
P19								
P20								

JRG #71401

I



13265

Company Petroleum Energy, Inc. Lease & Well No. Ringwald #3

Elevation 1789 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 11402

Date 4/12/81 Sec. 12 Twp. 19S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 3307 ft. to 3354 ft. Total Depth 3354 ft.

Packer Depth 3302 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3307 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3308 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3311 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 45 Weight Pipe Length 315 I. D. 2.7 in.

Weight 9.8 Water Loss 11.5 cc. Drill Pipe Length 2970 I. D. 3.8 in.

Chlorides 75,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 47 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow (died in twenty minutes on initial flow period.)

No blow (flushed tool - no help) on final flow period.

Recovered 5 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:00 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 5:00 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 103°

Initial Hydrostatic Pressure ..... (A) 1750 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 665 P.S.I.

Final Flow Period ..... Minutes 30 (E) 40 P.S.I. to (F) 41 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 628 P.S.I.

Final Hydrostatic Pressure ..... (H) 1750 P.S.I.

WTC-1

WESTERN TESTING CO., INC.

Pressure Data

Date 4/12/81 Test Ticket No. 11402

Recorder No. 13269 Capacity 4375 Location 3308 Ft.

Clock No. - Elevation 1789 Kelly Bushing Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1750 P.S.I.	Open Tool	3:00A M	
B First Initial Flow Pressure	37 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	34 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	665 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	40 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	41 P.S.I.			
G Final Closed-in Pressure	628 P.S.I.			
H Final Hydrostatic Mud	1750 P.S.I.			

PRESSURE BREAKDOWN

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

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

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

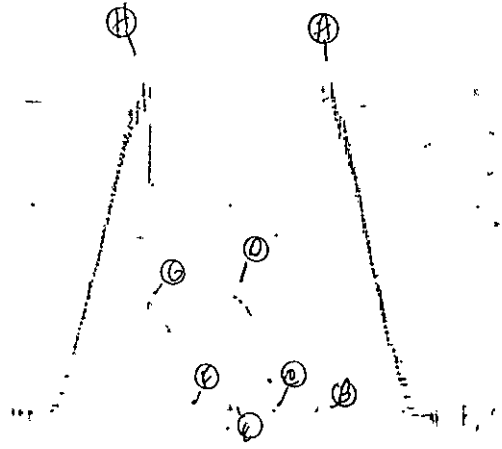
Final Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	37	0	34	0	40	0	41
P 2	5	33	3	77	5	40	3	84
P 3	10	33	6	200	10	40	6	189
P 4	15	33	9	348	15	40	9	311
P 5	20	33	12	447	20	40	12	401
P 6	25	33	15	515	25	40	15	463
P 7	30	34	18	565	30	41	18	517
P 8			21	602			21	554
P 9			24	630			24	585
P10			27	650			27	609
P11			30	665			30	628
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

Flushed tool

JH # 11402

1



13269

Company Petroleum Energy, Inc. Lease & Well No. Ringwald #3

Elevation 1789 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 11403

Date 4/12/81 Sec. 12 Twp. 19S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 3 Interval Tested from 3359 ft. to 3365 ft. Total Depth 3365 ft.

Packer Depth 3354 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3359 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3345 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3360 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 50 Weight Pipe Length 315 I. D. 2.7 in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 3022 I. D. 3.8 in.

Chlorides 72,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 6 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow (died in forty minutes) on initial flow period. No blow on final flow period

Recovered 5 ft. of mud

Recovered 1 ft. of oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:20 ~~A.M.~~ P.M. Time Started Off Bottom 8:50 ~~A.M.~~ P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure			(A) 1763	P.S.I.		
Initial Flow Period	Minutes 45	(B) 24	P.S.I. to	(C) 23	P.S.I.	
Initial Closed In Period	Minutes 33	(D) 629	P.S.I.			
Final Flow Period	Minutes 45	(E) 31	P.S.I. to	(F) 29	P.S.I.	
Final Closed In Period	Minutes 33	(G) 106	P.S.I.			
Final Hydrostatic Pressure			(H) 1750	P.S.I.		

WTC-1

WESTERN TESTING CO., INC.

Pressure Data

Date 4/12/81 Test Ticket No. 11403

Recorder No. 13269 Capacity 4375 Location 3345 Ft.

Clock No. - Elevation 1789 Kelly Bushing Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1763 P.S.I.	Open Tool	6:20P M	
B First Initial Flow Pressure	24 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	23 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	629 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	31 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	29 P.S.I.			
G Final Closed-in Pressure	106 P.S.I.			
H Final Hydrostatic Mud	1750 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

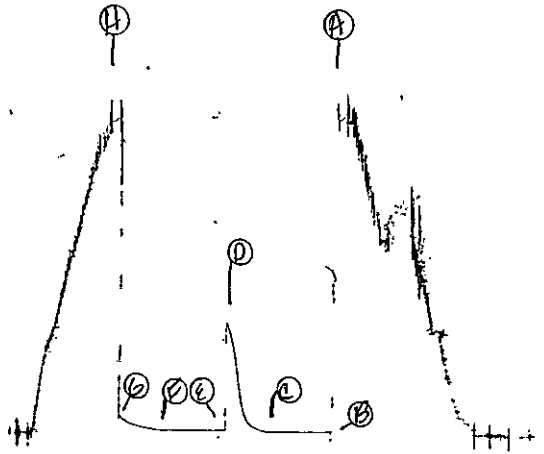
Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	24	0	23	0	31	0	29
P 2	5	23	3	23	5	29	3	20
P 3	10	23	6	28	10	29	6	21
P 4	15	23	9	34	15	29	9	2539
P 5	20	23	12	44	20	29	12	39
P 6	25	23	15	57	25	29	15	43
P 7	30	23	18	86	30	29	18	48
P 8	35	23	21	159	35	29	21	55
P 9	40	23	24	306	40	29	24	62
P10	45	23	27	456	45	29	27	70
P11			30	554			30	86
P12			33	629			33	106
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

JH # 11403

I



Company Petroleum Energy, Inc. Lease & Well No. Ringwald #3

Elevation 1789 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 11404

Date 4/13/81 Sec. 12 Twp. 19S Range 11W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 4 Interval Tested from 3365 ft. to 3374 ft. Total Depth 3374 ft.

Packer Depth 3360 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3365 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3366 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3369 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 50 Weight Pipe Length 315 I. D. 2.7 in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 3028 I. D. 3.8 in.

Chlorides 72,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 9 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow throughout test.

Recovered 20 ft. of muddy oil

Recovered 40 ft. of clean oil

Recovered 60 ft. of oil cut mud (trace of water)

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 A.M. ~~P.M.~~ Time Started Off Bottom 1:00 ~~A.M.~~ P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure ..... (A) 1772 P.S.I.

Initial Flow Period ..... Minutes 45 (B) 42 P.S.I. to (C) 51 P.S.I.

Initial Closed In Period ..... Minutes 48 (D) 987 P.S.I.

Final Flow Period ..... Minutes 50 (E) 59 P.S.I. to (F) 63 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 949 P.S.I.

Final Hydrostatic Pressure ..... (H) 1772 P.S.I.

WTC-1

WESTERN TESTING CO., INC.

Pressure Data

Date 4/13/81 Test Ticket No. 11404

Recorder No. 13269 Capacity 4375 Location 3366 Ft.

Clock No. - Elevation 1789 Kelly Bushing Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1772 P.S.I.	Open Tool	10:00A M	
B First Initial Flow Pressure	42 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	51 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	987 P.S.I.	Second Flow Pressure	45 Mins.	50 Mins.
E Second Initial Flow Pressure	59 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	63 P.S.I.			
G Final Closed-in Pressure	949 P.S.I.			
H Final Hydrostatic Mud	1772 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

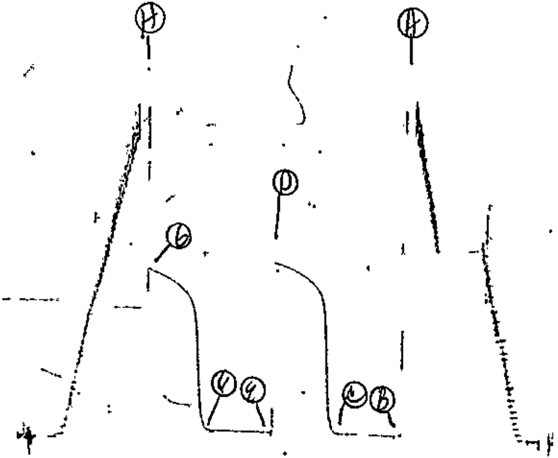
Second Flow Pressure
Breakdown: 10 Inc. of 5 mins. and a final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	42	0	51	0	59	0	63
P 2 5	41	3	51	5	55	3	97
P 3 10	43	6	86	10	56	6	247
P 4 15	44	9	267	15	56	9	646
P 5 20	45	12	693	20	57	12	761
P 6 25	46	15	813	25	58	15	804
P 7 30	47	18	850	30	59	18	828
P 8 35	48	21	876	35	61	21	850
P 9 40	49	24	896	40	62	24	870
P10 45	51	27	911	45	63	27	883
P11		30	926	50	63	30	897
P12		33	939			33	909
P13		36	950			36	922
P14		39	961			39	930
P15		42	970			42	939
P16		45	978			45	949
P17		48	987				
P18							
P19							
P20							

JLO # 11404

I



13265