WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7177

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

Elevation 2327 elly KB Formation Fort Scott Eff. Pay ✓ Ft.

District Wakeeney Date 8-10-80 Customer Order No. ✓

COMPANY NAME K & E Petroleum, Inc.

ADDRESS 816 Union Center Bldg. Wichita, Ks. 67202

LEASE AND WELL NO. Petersilie #1 COUNTY Wess Ness STATE Ks. Sec. 12 Twp. 20S Rge. 24W

Mail Invoice To Same Petersilie #1 No. Copies Requested 5
Co. Name Address

Mail Charts To No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 4286 ft. to 4316 ft. Total Depth 4316 ft.

Packer Depth 4286 ft.	Size 6 3/4 in.	Packer Depth ✓ ft.	Size ✓ in.
Packer Depth 4281 ft.	Size 6 3/4 in.	Packer Depth ✓ ft.	Size ✓ in.
Depth of Selective Zone Set ✓			

Top Recorder Depth (Inside)	4309 ft.	Recorder Number 1049	Cap. 3500
Bottom Recorder Depth (Outside)	4313 ft.	Recorder Number 1134	Cap. 4500
Below Straddle Recorder Depth ✓	ft.	Recorder Number ✓	Cap. ✓

Drilling Contractor Abercrombie Rig 12		Drill Collar Length 345	I. D. 2.25 in.
Mud Type Drispac	Viscosity 40	Weight Pipe Length 313	I. D. 2.76 in.
Weight 9.3	Water Loss 12.4 cc.	Drill Pipe Length 3607	I. D. 3.8 in.
Chlorides 15,000 P.P.M.		Test Tool Length 21 ft.	Tool Size 5 1/2 in.
Jars: Make None	Serial Number ✓	Anchor Length 30 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.
Initial Flow Period		Main Hole Size 7 7/8 in.	Tool Joint Size 4 1/2 XH in.

Blow: 1st Opening - Fair Blow Increasing to Strong Blow off Bottom of Bucket in 26 m
2nd Opening - Fair Blow Increasing to Strong Blow off Bottom of Bucket in 19 m
Final Flow Period

Recovered 60' ft. of Slightly Oil cut Mud 5% Oil 95% Mud
Recovered 560' ft. of Gas in Pipe
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

9:00 10:00

Time Set Packer(s) 11:50 A.M. P.M. Time Started Off Bottom 2:35 A.M. (P.M.) Maximum Temperature 114°

Initial Hydrostatic Pressure			(A)	2187	P.S.I.	
Initial Flow Period	Minutes 30		(B)	46	P.S.I. to (C)	46 P.S.I.
Initial Closed In Period	Minutes 45		(D)	247	P.S.I.	
Final Flow Period	Minutes 30		(E)	55	P.S.I. to (F)	55 P.S.I.
Final Closed In Period	Minutes 60		(G)	256	P.S.I.	
Final Hydrostatic Pressure			(H)	2178	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 Norman R. Sattler
Signature of Customer or his authorized representative

Western Representative Steve Mitchell

275
30
375

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage 50.	$ 50 mi 37.50
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 637.50

WESTERN TESTING CO., INC.
Pressure Data

Date 10-10 Test Ticket No. 7177

Recorder No. 1049 Capacity 3500 Location 4309 Ft.

Clock No. ~~~ Elevation 2327 KB Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2189 P.S.I.	Open Tool	11:50 AM	
B First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	239 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	63 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	59 P.S.I.			
G Final Closed-in Pressure	249 P.S.I.			
H Final Hydrostatic Mud	2174 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	55
P 2 5	48
P 3 10	44
P 4 15	
P 5 20	
P 6 25	
P 7 30	44
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: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	44
3	48
6	60
9	77
12	95
15	108
18	123
21	143
24	161
27	179
30	194
33	207
36	218
39	227
42	239
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	63
5	59
10	
15	
20	
25	
30	59
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	59
3	62
6	77
9	93
12	112
15	121
18	126
21	132
24	136
27	137
30	148
33	163
36	178
39	192
42	201
45	212
48	218
51	229
54	233
57	238
60	244
63	249

WTC - 4

IKT # 7177
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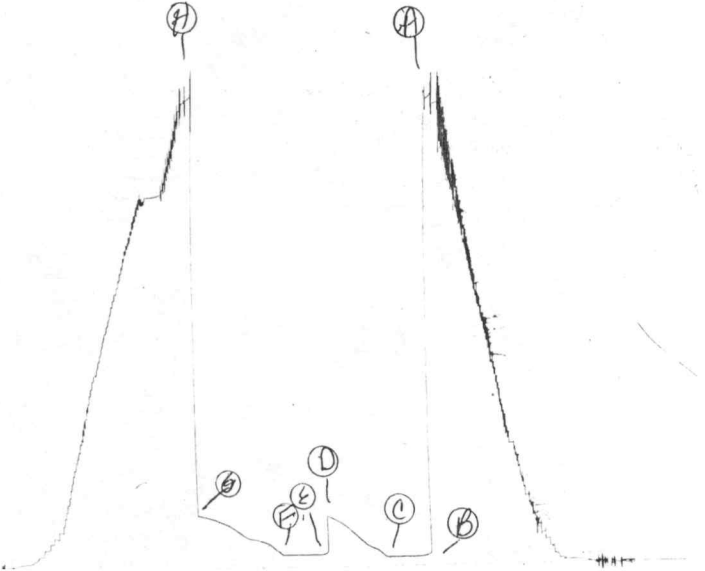
1049
7177



Company K & E Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Fort Scott Effective Pay - Ft. Ticket No. 7177

Date 10-10-80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satters Western Representative Steve Michellich

Formation Test No. 1 Interval Tested from 4286 ft. to 4316 ft. Total Depth 4316 ft.

Packer Depth 4286 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4281 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4309 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4313 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor Abercrombie Rig #12 Drill Collar Length 345 I. D. 2.25 in.

Mud Type Drispac Viscosity 40 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3607 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make None Serial Number - Anchor Length 30 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 4½ XH in.

Blow: Initial flow period fair blow increasing to strong blow off bottom of bucket in 19 Minutes 26 minutes. Final flow period fair blow increasing to strong blow off bottom of bucket i

Recovered 60 ft. of slightly oil cut mud - 5% oil, 95% mud

Recovered 560 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:50 ~~A.M.~~ P.M. Time Started Off Bottom 2:35 ~~A.M.~~ P.M. Maximum Temperature 114

Initial Hydrostatic Pressure			(A)	2189	P.S.I.	
Initial Flow Period	Minutes	30	(B)	55	P.S.I. to (C)	44 P.S.I.
Initial Closed In Period	Minutes	42	(D)	239	P.S.I.	
Final Flow Period	Minutes	30	(E)	63	P.S.I. to (F)	59 P.S.I.
Final Closed In Period	Minutes	63	(G)	249	P.S.I.	
Final Hydrostatic Pressure			(H)	2174	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 10-10-80 Test Ticket No. 7177

Recorder No. 1049 Capacity 3500 Location 4309 Ft.

Clock No. ---- Elevation 2327 Kelly Bushing Well Temperature 114 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2189 P.S.I.	Open Tool	11:50 A M	
B	First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	239 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	63 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F	Second Final Flow Pressure	59 P.S.I.			
G	Final Closed-in Pressure	249 P.S.I.			
H	Final Hydrostatic Mud	2174 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	55
P 2 5	48
P 3 10	44
P 4 15	44
P 5 20	44
P 6 25	44
P 7 30	44
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	44
3	48
6	60
9	77
12	95
15	108
18	123
21	143
24	161
27	179
30	194
33	207
36	218
39	227
42	239

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

Point Minutes	Press.
0	63
5	59
10	59
15	59
20	59
25	59
30	59

Final Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	59
3	62
6	77
9	93
12	112
15	121
18	126
21	132
24	136
27	137
30	148
33	163
36	178
39	192
42	201
45	212
48	218
51	229
54	233
57	238
60	244
63	249

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 7178

Elevation 2327 KB Formation Fort Scott Eff. Pay ✓ Ft.

District WaKeeney Date 9-11-80 Customer Order No. ✓

COMPANY NAME K&E Petroleum, Inc.

ADDRESS 816 Union Center Bldg. Wichita, Ks. 67202

LEASE AND WELL NO. Petersilie #1 COUNTY Ness STATE Ks Sec. 12 Twp. 20S Rge. 24W

Mail Invoice To Same Petersilie #1 No. Copies Requested 5
Co. Name Address

Mail Charts To ✓ No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 4325 ft. to 4338 ft. Total Depth 4338 ft.

Packer Depth 4325 ft.	Size 6 3/4 in.	Packer Depth ✓ ft.	Size ✓ in.
Packer Depth 4320 ft.	Size 6 3/4 in.	Packer Depth ✓ ft.	Size ✓ in.

Depth of Selective Zone Set ✓

Top Recorder Depth (Inside)	4331 ft.	Recorder Number 1049	Cap. 3500
Bottom Recorder Depth (Outside)	4335 ft.	Recorder Number 1134	Cap. 4500
Below Straddle Recorder Depth	✓ ft.	Recorder Number ✓	Cap. ✓

Drilling Contractor Abercrombie Rig 12		Drill Collar Length 345	I. D. 2.25 in.
Mud Type Drispac	Viscosity 40	Weight Pipe Length 313	I. D. 2.76 in.
Weight 9.3	Water Loss 12.4 cc.	Drill Pipe Length 3646	I. D. 3.8 in.
Chlorides 15,000 P.P.M.		Test Tool Length 19 ft.	Tool Size 5 1/2 in.
Jars: Make None	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: Initial flow period
1st Opening - Fair Blow Increasing to Strong Blow in 16 minutes
2nd Opening - Fair Blow Increasing to Strong Blow in 19 minutes
Final flow period

Recovered 464 ft. of Muddy Water
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

RECEIVED
OCT 16 1980

Remarks:

12:00 1:00
Time Set Packer(s) 3:15 A.M. P.M. Time Started Off Bottom 6:00 A.M. P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure		(A) 2205 P.S.I.		
Initial Flow Period	Minutes 30	(B) 37 P.S.I.	to (C) 137	P.S.I.
Initial Closed In Period	Minutes 45	(D) 1135 P.S.I.		
Final Flow Period	Minutes 30	(E) 183 P.S.I.	to (F) 229	P.S.I.
Final Closed In Period	Minutes 60	(G) 1126 P.S.I.		
Final Hydrostatic Pressure		(H) 2196 P.S.I.		

COMPANY TERMS

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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 Thomas R. Sattler Thomas R Sattler
Signature of Customer or his authorized representative

Western Representative Steve Michelich

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$ 50m 37.5
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 637.50

WESTERN TESTING CO., INC.
Pressure Data

Date 10-11 Test Ticket No. 7178

Recorder No. 1049 Capacity 3500 Location 4331 Ft.

Clock No. Elevation 2327 KB Well Temperature 105 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2211	P.S.I.
B	First Initial Flow Pressure	46	P.S.I.
C	First Final Flow Pressure	139	P.S.I.
D	Initial Closed-in Pressure	1126	P.S.I.
E	Second Initial Flow Pressure	185	P.S.I.
F	Second Final Flow Pressure	223	P.S.I.
G	Final Closed-in Pressure	1120	P.S.I.
H	Final Hydrostatic Mud	2205	P.S.I.

	Time Given	Time Computed
Open Tool	3:15 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	48 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	60 Mins.	54 Mins.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	46
P 2	5	51
P 3	10	64
P 4	15	84
P 5	20	104
P 6	25	123
P 7	30	139
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: 16 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	139
3	615
6	823
9	991
12	1024
15	1045
18	1062
21	1076
24	1084
27	1095
30	1101
33	1108
36	1113
39	1116
42	1121
45	1123
48	1126
51	
54	
57	
60	

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

Point Minutes	Press.
0	185
5	183
10	190
15	200
20	206
25	214
30	223
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 18 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	223
3	722
6	936
9	989
12	1015
15	1032
18	1044
21	1065
24	1073
27	1083
30	1089
33	1094
36	1100
39	1105
42	1108
45	1113
48	1115
51	1119
54	1120
57	
60	

WTC - 4

IKT # 7178

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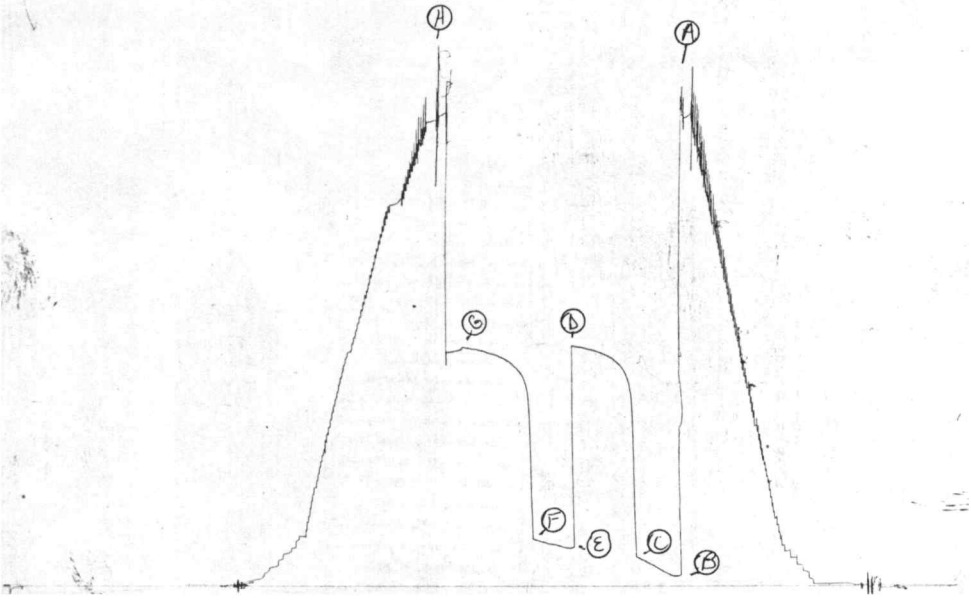
7178



Company K. & E. Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Fort Scott Effective Pay --- Ft. Ticket No. 7178

Date 10/11/80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 2 Interval Tested from 4325 ft. to 4338 ft. Total Depth 4338 ft.

Packer Depth 4325 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4320 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4331 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4335 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor ~~Abercrombie Drlg. Rig #12~~ Drill Collar Length 345 I. D. 2.25 in.

Mud Type drispac Viscosity 40 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3646 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 19 ft. Tool Size 5½ in.

Jars: Make None 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: Initial flow period fair blow increasing to strong blow in sixteen minutes. Final flow perio
fair blow increasing to strong blow in nineteen minutes.

Recovered 464 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:15 A.M. ~~P.M.~~ Time Started Off Bottom 6:00 A.M. ~~P.M.~~ Maximum Temperature 105°

Initial Hydrostatic Pressure		(A) 2211 P.S.I.		
Initial Flow Period	Minutes 30	(B) 46 P.S.I.	to (C) 139 P.S.I.	
Initial Closed In Period	Minutes 48	(D) 1126 P.S.I.		
Final Flow Period	Minutes 30	(E) 185 P.S.I.	to (F) 223 P.S.I.	
Final Closed In Period	Minutes 54	(G) 1120 P.S.I.		
Final Hydrostatic Pressure		(H) 2205 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 10/11/80 Test Ticket No. 7178

Recorder No. 1049 Capacity 3500 Location 4331 Ft.

Clock No. -- Elevation 2327 Kelly Bushing Well Temperature 105 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2211 P.S.I.		Open Tool	3:15A M	
B	First Initial Flow Pressure	46 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	139 P.S.I.		Initial Closed-in Pressure	45 Mins.	48 Mins.
D	Initial Closed-in Pressure	1126 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	185 P.S.I.		Final Closed-in Pressure	60 Mins.	54 Mins.
F	Second Final Flow Pressure	223 P.S.I.				
G	Final Closed-in Pressure	1120 P.S.I.				
H	Final Hydrostatic Mud	2205 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	46
P 2	5	51
P 3	10	64
P 4	15	84
P 5	20	104
P 6	25	123
P 7	30	139
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	139
	3	615
	6	923
	9	991
	12	1024
	15	1045
	18	1062
	21	1076
	24	1084
	27	1095
	30	1101
	33	1108
	36	1113
	39	1116
	42	1121
	45	1123
	48	1126

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

Point	Minutes	Press.
	0	185
	5	183
	10	190
	15	200
	20	206
	25	214
	30	223

Final Shut-In
Breakdown: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	223
	3	722
	6	936
	9	989
	12	1015
	15	1032
	18	1044
	21	1065
	24	1073
	27	1083
	30	1089
	33	1094
	36	1100
	39	1105
	42	1108
	45	1113
	48	1115
	51	1119
	54	1120

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7179

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

Elevation 2327 KB (elly Bushing) Formation Mississippi Eff. Pay — Ft.

District Wakeeney Date 10-11-80 Customer Order No. —

COMPANY NAME K & E Petroleum, Inc.

ADDRESS 816 Union Center Bldg, Wichita, Ks. 67202

LEASE AND WELL NO. Petersilie #1 COUNTY Ness STATE Ks Sec. 12 Twp. 20S Rge. 24W

Mail Invoice To Same Petersilie #1 No. Copies Requested 5
Co. Name Address

Mail Charts To " No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested from 4419 ft. to 4437 ft. Total Depth 4437 ft.
Packer Depth 4419 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Packer Depth 4414 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4430 ft. Recorder Number 1049 Cap. 3500
Bottom Recorder Depth (Outside) 4434 ft. Recorder Number 1134 Cap. 4500
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Abercrombie Rig 12 Drill Collar Length 345 I. D. 2.25 in.
Mud Type Dispac Viscosity 47 Weight Pipe Length 313 I. D. 2.710 in.
Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 3740 I. D. 3.8 in.
Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make None 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.
Initial Flow Period Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: 1st Opening - Strong Surging Blow Off Bottom of Bucket in 14 min.
2nd Opening - Strong Blow Thru/out
Final Flow Period

Recovered 80 ft. of Clean Grassy Oil
Recovered 186 ft. of Oil cut Mud 30% Oil 70% Mud
Recovered 186 ft. of Mud cut Oil 80% Oil 20% Mud
Recovered 452 ft. of Total Fluid
Recovered 124 ft. of Gas in Pipe
Remarks:

RECEIVED
OCT 17 1980

7:00 8:00
Time Set Packer(s) 9:50 A.M. (P.M.) Time Started Off Bottom 12:35 (A.M.) (P.M.) Maximum Temperature 106°

Initial Hydrostatic Pressure		(A)	2306	P.S.I.	
Initial Flow Period	Minutes 30	(B)	82	P.S.I. to (C)	165 P.S.I.
Initial Closed In Period	Minutes 45	(D)	988	P.S.I.	
Final Flow Period	Minutes 30	(E)	201	P.S.I. to (F)	211 P.S.I.
Final Closed In Period	Minutes 60	(G)	824	P.S.I.	
Final Hydrostatic Pressure		(H)	2288	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 Lynn R. Sattler
Signature of Customer or his authorized representative

Western Representative Steve Mitchell

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$ —
Straddle Test	$ —
Jars	$ —
Selective Zone	$ —
Safety Joint	$ —
Standby	$ —
Evaluation	$ —
Extra Packer	$ —
Circ. Sub.	$ —
Mileage	$ 50 mi 37.50
Fluid Sampler	$ —
Extra Charts	$ —
TOTAL	$ 637.50

WESTERN TESTING CO., INC.

Pressure Data

Date 10-11 Test Ticket No. 7179

Recorder No. 1049 Capacity 3500 Location 4430 Ft.

Clock No. ——— Elevation 2327 KB Well Temperature 106 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2310 P.S.I.	Open Tool	9:50 PM	
B	First Initial Flow Pressure	73 * P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	255 * P.S.I.	Initial Closed-in Pressure	45 Mins.	51 Mins.
D	Initial Closed-in Pressure	896 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	198 * P.S.I.	Final Closed-in Pressure	60 Mins.	42 Mins.
F	Second Final Flow Pressure	212 P.S.I.			
G	Final Closed-in Pressure	824 P.S.I.			
H	Final Hydrostatic Mud	2293 P.S.I.			

* Pressures questionable due to 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	73 *
P 2	5	106 *
P 3	10	143 *
P 4	15	152 *
P 5	20	165 *
P 6	25	330 *
P 7	30	255 *
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: 17 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	255 *
	3	558 *
	6	659
	9	733
	12	766
	15	789
	18	811
	21	828
	24	838
	27	848
	30	857
	33	864
	36	870
	39	877
	42	883
	45	886
	48	890
	51	896
	54	
	57	
	60	

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

Point	Minutes	Press.
	0	198 *
	5	214 *
	10	205
	15	205
	20	209
	25	212
	30	212
	35	
	40	
	45	
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	

Final Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

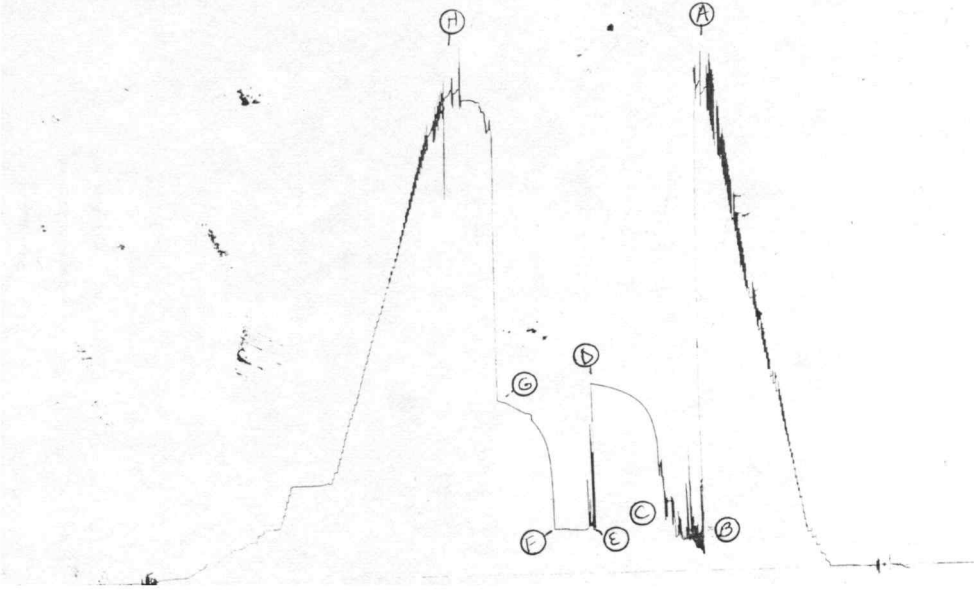
Point	Minutes	Press.
	0	212
	3	531
	6	617
	9	665
	12	696
	15	720
	18	760
	21	766
	24	775
	27	786
	30	797
	33	810
	36	817
	39	821
	42	824
	45	
	48	
	51	
	54	
	57	
	60	

Shut-in tool was cut out.

IRT #7179

I

7049
7179



Company K & E Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 7179

Date 10-11-80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 3 Interval Tested from 4419 ft. to 4437 ft. Total Depth 4437 ft.

Packer Depth 4419 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4414 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4430 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4434 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor Abercrombie Rig #12 Drill Collar Length 345 I. D. 2.25 in.

Mud Type Drispac Viscosity 47 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 3740 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make None 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 4½ XH in.

Blow: Initial flow period strong surging blow off bottom of bucket in 14 minutes. Final flow period strong blow throughout.

Recovered 80 ft. of clean gassy oil

Recovered 186 ft. of oil cut mud - 30% oil, 70% mud

Recovered 186 ft. of mud cut oil - 80% oil, 20% mud

Recovered 124 ft. of gas in pipe

Recovered ft. of

Remarks:

Time Set Packer(s) 9:50 ~~A.M.~~ P.M. Time Started Off Bottom 12:35 A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure ..... (A) 2310 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 73* P.S.I. to (C) 255* P.S.I.

Initial Closed In Period ..... Minutes 51 (D) 896 P.S.I.

Final Flow Period ..... Minutes 30 (E) 198* P.S.I. to (F) 212 P.S.I.

Final Closed In Period ..... Minutes 42 (G) 824 P.S.I.

Final Hydrostatic Pressure ..... (H) 2293 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-11-80 Test Ticket No. 7179

Recorder No. 1049 Capacity 3500 Location 4430 Ft.

Clock No. - Elevation 2327 Kelly Bushing Well Temperature 106 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2310	P.S.I.
B	First Initial Flow Pressure	73*	P.S.I.
C	First Final Flow Pressure	255*	P.S.I.
D	Initial Closed-in Pressure	896	P.S.I.
E	Second Initial Flow Pressure	198*	P.S.I.
F	Second Final Flow Pressure	212	P.S.I.
G	Final Closed-in Pressure	824	P.S.I.
H	Final Hydrostatic Mud	2293	P.S.I.

	Time Given		Time Computed	
Open Tool	9:50P	M		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	45	Mins.	51	Mins.
Second Flow Pressure	30	Mins.	30	Mins.
Final Closed-in Pressure	60	Mins.	42	Mins.

*Pressures questionable due to 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	73*
P 2	5	106*
P 3	10	143*
P 4	15	152*
P 5	20	165*
P 6	25	330*
P 7	30	255*
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	255*
	3	558*
	6	659
	9	733
	12	766
	15	789
	18	811
	21	828
	24	838
	27	848
	30	857
	33	864
	36	870
	39	877
	42	883
	45	886
	48	890
	51	896

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

Point	Minutes	Press.
	0	198*
	5	214*
	10	205
	15	205
	20	209
	25	212
	30	212

Final Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	212
	3	531
	6	617
	9	665
	12	696
	15	720
	18	760
	21	766
	24	775
	27	786
	30	797
	33	810
	36	817
	39	821
	42	824
		Shut-in tool was cut out.