



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

DATE 1/13/80

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

CHARGE TO

Well Report No.
Unit No.
District

4304

FOR CUSTOMER'S USE ONLY

Register No.

Voucher No.

Terms Approved

Price Approved

Calculations Checked

Adjustments

Accounting Distribution

Your Order No.

Owner

Contractor

Audited

Final Approval

Well No.

Farm

County

Sec.

Twp.

Range

42

Redetzke "A"

Barton

20

16S

13W

One drill stem test from 3171' to 3190'

(Test 1)

\$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 4304
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. 4304

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

Elevation 7 Formation 7 Eff. Pay Ft.

District Great Bend Date 1-13-80 Customer Order No. 1

COMPANY NAME Petroleum Energy Inc

ADDRESS One Twenty Building Wichita KS 67202

LEASE AND WELL NO. Redetzke A#2 COUNTY Barton STATE Kansas Sec. 20 Twp. 16S Rge. 13W

Mail Invoice To NAME Redetzke A#2 Co. Name Redetzke A#2 Address Redetzke A#2 No. Copies Requested 45491

Mail Charts To NAME Address NAME No. Copies Requested 45491

Formation Test No. 1 Interval Tested from 3171 ft. to 3190 ft. Total Depth 3190 ft.

Packer Depth 3166 ft. Size 634 in. Packer Depth 3171 ft. Size 634 in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 3183 ft. Recorder Number 1134 Cap. 4500

Bottom Recorder Depth (Outside) 3187 ft. Recorder Number 1049 Cap. 3000

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

Drilling Contractor Duke Drilling Drill Collar Length --- I. D. --- in.

Mud Type SALT GEL Viscosity 46 Weight Pipe Length 945 I. D. 2.76 in.

Weight 10.1 Water Loss 9.6 cc. Drill Pipe Length 2205 I. D. 3.8 in.

Chlorides 72.000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make --- Serial Number --- Anchor Length 19 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out --- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1ST OPENING: WEAK BLOW Throughout opening 2ND OPENING: WEAK BLOW throughout

Recovered 30 ft. of OIL CUT GASSY MUD

Recovered 100 ft. of SLIGHTLY OIL SPECKLED MUDDY WATER

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks: Plugging on outside recorder

Time Set Packer(s) 9:50 A.M. Time Started Off Bottom 11:50 A.M. Maximum Temperature 100°

Initial Hydrostatic Pressure --- (A) 1761 P.S.I.

Initial Flow Period 30 Minutes (B) 89 P.S.I. to (C) 89 P.S.I.

Initial Closed In Period 30 Minutes (D) 602 P.S.I.

Final Flow Period 30 Minutes (E) 178 P.S.I. to (F) 178 P.S.I.

Final Closed In Period 30 Minutes (G) 535 P.S.I.

Final Hydrostatic Pressure --- (H) 1738 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 Muesone
Signature of Customer or his authorized representative

Western Representative William Weaver

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 1-13-80 Recorder No. 1134 Capacity 4500 Test Ticket No. 4304 Location 3183 Ft.
Clock No. _____ Elevation _____ Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1723</u>	P.S.I.	<u>9:50</u> P M	
B First Initial Flow Pressure	<u>85</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>46</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>576</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>114</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>75</u>	P.S.I.		
G Final Closed-in Pressure	<u>529</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1703</u>	P.S.I.		

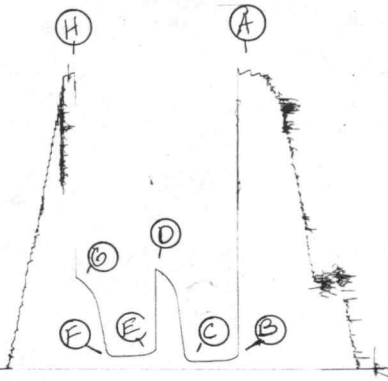
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>85</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>75</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>80</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>112</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>125</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>217</u>
P 5 <u>20</u>	<u>47</u>	<u>12</u>	<u>288</u>	<u>20</u>	<u>76</u>	<u>12</u>	<u>321</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>420</u>	<u>25</u>	<u>75</u>	<u>15</u>	<u>402</u>
P 7 <u>30</u>	<u>46</u>	<u>18</u>	<u>480</u>	<u>30</u>	<u>75</u>	<u>18</u>	<u>444</u>
P 8 <u>35</u>		<u>21</u>	<u>576</u>	<u>35</u>		<u>21</u>	<u>471</u>
P 9 <u>40</u>		<u>24</u>	<u>541</u>	<u>40</u>		<u>24</u>	<u>488</u>
P10 <u>45</u>		<u>27</u>	<u>556</u>	<u>45</u>		<u>27</u>	<u>518</u>
P11 <u>50</u>		<u>30</u>	<u>576</u>	<u>50</u>		<u>30</u>	<u>529</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

10P

1134
4304

TKT # 4304
I



Company Petroleum Energy, Inc. Lease & Well No. Redetzke "A" #2
Elevation ? Formation ? Effective Pay -- Ft. Ticket No. 4304
Date 1/13/80 Sec. 20 Twp. 16S Range 13W County Barton State Kansas
Test Approved by Jim Musgrove Western Representative William Weaver

Formation Test No. 1 Interval Tested from 3171 ft. to 3190 ft. Total Depth 3190 ft.

Packer Depth 3166 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3171 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3183 ft. Recorder Number 1134 Cap. 4500

Bottom Recorder Depth (Outside) 3187 ft. Recorder Number 1049 Cap. 3000

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

Drilling Contractor Duke Drilling Company Drill Collar Length - I. D. - in.

Mud Type salt gel Viscosity 46 Weight Pipe Length 945 I. D. 2.7 in.

Weight 10. Water Loss 9.6 cc. Drill Pipe Length 2205 I. D. 3.8 in.

Chlorides 72,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 19 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: First opening weak blow throughout ; second opening, weak blow throughout.

Recovered 30 ft. of oil cut gassy mud

Recovered 100 ft. of slightly oil specked muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Plugging on outside recorder.

Time Set Packer(s) 9:50 ~~A.M.~~ P.M. Time Started Off Bottom 11:50 A.M. P.M. Maximum Temperature 100°

Initial Hydrostatic Pressure (A) 1723 P.S.I.

Initial Flow Period Minutes 30 (B) 85 P.S.I. to (C) 46 P.S.I.

Initial Closed In Period Minutes 30 (D) 576 P.S.I.

Final Flow Period Minutes 30 (E) 114 P.S.I. to (F) 75 P.S.I.

Final Closed In Period Minutes 30 (G) 529 P.S.I.

Final Hydrostatic Pressure (H) 1703 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/13/80
 Recorder No. 1134 Capacity 4500 Test Ticket No. 4304
 Clock No. -- Elevation -- Location 3183 Ft.
 Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1723	P.S.I.	9:50P	M
B First Initial Flow Pressure	85	P.S.I.	30	Mins. 30
C First Final Flow Pressure	46	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	576	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	114	P.S.I.	30	Mins. 30
F Second Final Flow Pressure	75	P.S.I.	30	Mins. 30
G Final Closed-in Pressure	529	P.S.I.		
H Final Hydrostatic Mud	1703	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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>85</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>75</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>80</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>112</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>125</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>217</u>
P 5 <u>20</u>	<u>47</u>	<u>12</u>	<u>288</u>	<u>20</u>	<u>76</u>	<u>12</u>	<u>321</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>420</u>	<u>25</u>	<u>75</u>	<u>15</u>	<u>402</u>
P 7 <u>30</u>	<u>46</u>	<u>18</u>	<u>480</u>	<u>30</u>	<u>75</u>	<u>18</u>	<u>444</u>
P 8		<u>21</u>	<u>516</u>			<u>21</u>	<u>471</u>
P 9		<u>24</u>	<u>541</u>			<u>24</u>	<u>498</u>
P10		<u>27</u>	<u>556</u>			<u>27</u>	<u>518</u>
P11		<u>30</u>	<u>576</u>			<u>30</u>	<u>529</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

DATE 1/15/80

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

CHARGE TO

Well Report No.
Unit No.
District

4305

FOR CUSTOMER'S USE ONLY

Register No.

Voucher No.

Terms Approved

Price Approved

Calculations Checked

Adjustments

Accounting Distribution

Your Order No.

Owner

Contractor

Audited

Final Approval

Well No.

Farm

County

Sec.

Twp.

Range

#2

Redetzke "A"

Barton

20

16S

13W

One drill stem test from 3382' to 3410' (Test 2) MISRUN \$ 275.00

POSTED

Discount \$ 2.75	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 4305
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 4305

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

Elevation 1968 KB Formation ARBUCKLE Eff. Pay Ft.

District GREAT BEND Date 1/15/80 Customer Order No. —
COMPANY NAME PETROLEUM ENERGY, INC.
ADDRESS ONE TWENTY BUILDING WICHITA, KS 67202
LEASE AND WELL NO. REDETZKEA2 COUNTY BARTON STATE KS Sec. 20 Twp 16S Rge 13W
Mail Invoice To PETROLEUM ENERGY ONE TWENTY BUILDING No. Copies Requested 5
Co. Name Address
Mail Charts To SAME No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3382 ft. to 3410 ft. Total Depth 3410 ft.
Packer Depth 3382 ft. Size 6 3/4 in. Packer Depth 3377 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) 3402 ft. Recorder Number 1134 Cap. 45.00
Bottom Recorder Depth (Outside) 3407 ft. Recorder Number 1049 Cap. 35.00
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor DUKE DRILLING, INC. #1 Drill Collar Length I. D. in.
Mud Type SALT GEL Viscosity 43 Weight Pipe Length 945 I. D. 2.7 in.
Weight 10.1 Water Loss 14 cc. Drill Pipe Length I. D. in.
Chlorides P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make Serial Number Anchor Length 28 ft. Size 5 1/2 in.
Did Well Flow? Reversed Out Surface Choke Size 1 1/2 in. Bottom Choke Size 1 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow:
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks: HIT BRIDGE 12 STANDS OFF BOTTOM COULD NOT GET THROUGH
MISRUN

Time Set Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure		(A)	P.S.I.	
Initial Flow Period	Minutes	(B)	P.S.I. to (C)	P.S.I.
Initial Closed In Period	Minutes	(D)	P.S.I.	
Final Flow Period	Minutes	(E)	P.S.I. to (F)	P.S.I.
Final Closed In Period	Minutes	(G)	P.S.I.	
Final Hydrostatic Pressure		(H)	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] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test	\$
Misrun	\$ 275.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$

TOTAL \$ 275.00

4305

TKT # 4305
I

3380

402
3407

Company Petroleum Energy, Inc. Lease & Well No. Redetzke "A"#2
Elevation 1968 Kelly Bushing Formation Arbuckle Effective Pay -- Ft. Ticket No. 4305
Date 1/15/80 Sec. 20 Twp 16S Range 13W County Barton State Kansas
Test Approved by Jim Musgrove Western Representative Dan Delaney=Darrell Claphan

Formation Test No. 2 Interval Tested from 3382 ft. to 3410 ft. Total Depth 3410 ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Duke Drilling Rig #1 Drill Collar Length _____ I. D. _____ in.
Mud Type Salt gel Viscosity 43 Weight Pipe Length 945 I. D. 2.7 in.
Weight 10.1 Water Loss 14 cc. Drill Pipe Length _____ I. D. _____ in.
Chlorides _____ P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 28 ft. Size 5 1/2 in.
Did Well Flow? _____ Reversed Out _____ Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____ MISRUN
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: HIT BRIDGE TWELVE STANDS OFF BOTTOM COULD NOT GET THROUGH.

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____
Initial Hydrostatic Pressure _____ (A) _____ P.S.I.
Initial Flow Period _____ Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____ Minutes _____ (D) _____ P.S.I.
Final Flow Period _____ Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____ Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure _____ (H) _____ P.S.I.



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

DATE 1/15/80

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

CHARGE TO

Well Report No. 4306
Unit No.
District

FOR CUSTOMER'S USE ONLY

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

Your Order No.	Owner	Contractor		
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Well No.	Farm	County	Sec.	Twp.	Range
#1	Redetzke "A"	Barton	20	16S	13W

One drill stem test from 3382' to 3410' (Test 3) \$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 4306
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

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



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4306

Elevation 1968 KB Formation ARBUCKLE Eff. Pay Ft.

District GREAT BEND Date 1/15/80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY INC.

ADDRESS ONE TWENTY BUILDING WICHITA KS 67202

LEASE AND WELL NO. REDETZKE #2 COUNTY BARTON STATE KS Sec. 20 Twp. 16S Rge. 13W

Mail Invoice To PETROLEUM ENERGY INC. ONE TWENTY BUILDING No. Copies Requested 5
Co. Name Address

Mail Charts To SAME Address No. Copies Requested 57

Formation Test No. 3 Interval Tested from 3382 ft. to 3410 ft. Total Depth 3410 ft.
Packer Depth 3377 ft. Size 63/4 in. Packer Depth ft. Size in.
Packer Depth 3382 ft. Size 63/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3406 ft. Recorder Number 1134 Cap. 4500
Bottom Recorder Depth (Outside) 3410 ft. Recorder Number 1049 Cap. 3500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DUKE DRUG REG. #1 Drill Collar Length I. D. in.
Mud Type MUD-CD Viscosity 54 Weight Pipe Length 945 I. D. 2.7 in.
Weight 10.4 Water Loss 14.6 cc. Drill Pipe Length 2416 I. D. 2.2 in.
Chlorides P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make Serial Number Anchor Length 28 ft. Size 5 1/2 in.
Did Well Flow? NO Reversed Out Surface Choke Size 1 3/8 in. Bottom Choke Size 1 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1ST FLOW - WEAK BUILDING TO FAIR
2ND FLOW - WEAK THROUGHOUT

Recovered 60 ft. of GAS IN PIPE
Recovered 100 ft. of HEAVILY OIL CUT MUD
Recovered 60 ft. of MUDDY GASSY OIL
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 1:45 A.M. Time Started Off Bottom 4:45 A.M. Maximum Temperature 104°
Initial Hydrostatic Pressure 1918 P.S.I.
Initial Flow Period 45 Minutes (B) 55 P.S.I. to (C) 66 P.S.I.
Initial Closed In Period 45 Minutes (D) 1002 P.S.I.
Final Flow Period 45 Minutes (E) 89 P.S.I. to (F) 100 P.S.I.
Final Closed In Period 45 Minutes (G) 991 P.S.I.
Final Hydrostatic Pressure 1873 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 [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature]

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. 4306
 Recorder No. 1134 Capacity 4500 Location 3406 Ft.
 Clock No. _____ Elevation 1968 KB Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1921</u>	P.S.I.	<u>1:45</u>	<u>P</u> M
B First Initial Flow Pressure	<u>58</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>65</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>1013</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>94</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>98</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
G Final Closed-in Pressure	<u>991</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1851</u>	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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

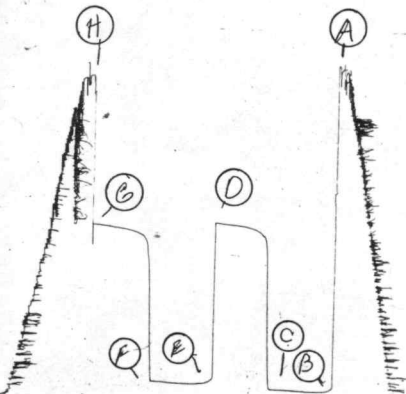
Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 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 <u>0</u>	<u>58</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>94</u>	<u>0</u>	<u>98</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>391</u>	<u>5</u>	<u>94</u>	<u>3</u>	<u>580</u>
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>913</u>	<u>10</u>	<u>89</u>	<u>6</u>	<u>895</u>
P 4 <u>15</u>	<u>54</u>	<u>9</u>	<u>949</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>933</u>
P 5 <u>20</u>	<u>54</u>	<u>12</u>	<u>969</u>	<u>20</u>	<u>87</u>	<u>12</u>	<u>947</u>
P 6 <u>25</u>	<u>58</u>	<u>15</u>	<u>980</u>	<u>25</u>	<u>87</u>	<u>15</u>	<u>956</u>
P 7 <u>30</u>	<u>60</u>	<u>18</u>	<u>987</u>	<u>30</u>	<u>89</u>	<u>18</u>	<u>962</u>
P 8 <u>35</u>	<u>62</u>	<u>21</u>	<u>993</u>	<u>35</u>	<u>92</u>	<u>21</u>	<u>966</u>
P 9 <u>40</u>	<u>64</u>	<u>24</u>	<u>998</u>	<u>40</u>	<u>95</u>	<u>24</u>	<u>969</u>
P10 <u>45</u>	<u>65</u>	<u>27</u>	<u>1000</u>	<u>45</u>	<u>98</u>	<u>27</u>	<u>974</u>
P11 <u>50</u>		<u>30</u>	<u>1002</u>	<u>50</u>		<u>30</u>	<u>978</u>
P12 <u>55</u>		<u>33</u>	<u>1004</u>	<u>55</u>		<u>33</u>	<u>981</u>
P13 <u>60</u>		<u>36</u>	<u>1005</u>	<u>60</u>		<u>36</u>	<u>984</u>
P14		<u>39</u>	<u>1007</u>	<u>65</u>		<u>39</u>	<u>987</u>
P15		<u>42</u>	<u>1000</u>	<u>70</u>		<u>42</u>	<u>989</u>
P16		<u>45</u>	<u>1013</u>	<u>75</u>		<u>45</u>	<u>991</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

1134
4306

TKT # 4306
I



Company Petroleum Energy, Inc. Lease & Well No. Redetzke "A" #2
Elevation 1968 Kelly Bushing Arbuckle Effective Pay ---- Ft. Ticket No. 4306
Date 1/15/89 Sec. 20 Twp. 16S Range 13W County Barton State Kansas
Test Approved by Jim Musgrove Western Representative Dan Delaney-Darrell Claplan
Formation Test No. 3 Interval Tested from 3382 ft. to 3410 ft. Total Depth 3410 ft.
Packer Depth 3377 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3382 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3406 ft. Recorder Number 1134 Cap. 4500
Bottom Recorder Depth (Outside) 3410 ft. Recorder Number 1049 Cap. 3500
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor Duke Drilling Rig #1 Drill Collar Length -- I. D. -- in.
Mud Type mud-co Viscosity 54 Weight Pipe Length 945 I. D. 2.7 in.
Weight 10.4 Water Loss 14.6 cc. Drill Pipe Length 2416 I. D. 2.2 in.
Chlorides -- P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make --- Serial Number --- Anchor Length 28 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: First flow weak building to fair; second flow, weak throughout period.

Recovered 60 ft. of gas in pipe

Recovered 100 ft. of heavily oil cut mud

Recovered 60 ft. of muddy gassy oil

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:45 ~~AM~~ P.M. Time Started Off Bottom 4:45 ~~AM~~ P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1921 P.S.I.
Initial Flow Period Minutes 45 (B) 58 P.S.I. to (C) 65 P.S.I.
Initial Closed In Period Minutes 45 (D) 1013 P.S.I.
Final Flow Period Minutes 45 (E) 94 P.S.I. to (F) 98 P.S.I.
Final Closed In Period Minutes 45 (G) 991 P.S.I.
Final Hydrostatic Pressure (H) 1851 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/15/80 Recorder No. 1134 Capacity 4500 Test Ticket No. 4306
 Clock No. ----- Elevation 1968 Kelly Bushing Location 3406 Ft. Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1921	P.S.I.	1:45P	M
B First Initial Flow Pressure	58	P.S.I.	45	Mins.
C First Final Flow Pressure	65	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1013	P.S.I.	45	Mins.
E Second Initial Flow Pressure	94	P.S.I.	45	Mins.
F Second Final Flow Pressure	98	P.S.I.	45	Mins.
G Final Closed-in Pressure	991	P.S.I.		
H Final Hydrostatic Mud	1851	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: 15 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: 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	58	0	65	0	94	0	98
P 2 5	58	3	391	5	94	3	580
P 3 10	54	6	913	10	89	6	895
P 4 15	54	9	949	15	87	9	933
P 5 20	54	12	969	20	87	12	947
P 6 25	58	15	980	25	87	15	956
P 7 30	60	18	987	30	89	18	962
P 8 35	62	21	993	35	92	21	966
P 9 40	64	24	998	40	95	24	969
P10 45	65	27	1000	45	98	27	974
P11		30	1002			30	978
P12		33	1004			33	981
P13		36	1005			36	984
P14		39	1007			39	987
P15		42	1010			42	989
P16		45	1013			45	991
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 4306

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

Elevation 1968 KB Formation ARBuckle Eff. Pay Ft.

District GREAT BEND Date 11/15/80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY INC.

ADDRESS ONE TWENTY BUILDING WICHITA KS 67202

LEASE AND WELL NO. REDTZE 12 COUNTY BARTON STATE KS Sec. 20 Twp. 16S Rge. 13W

Mail Invoice To PETROLEUM ENERGY INC. ONE TWENTY BUILDING Co. Name Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 57

Formation Test No. 3 Interval Tested from 3382 ft. to 3410 ft. Total Depth 3410 ft.

Packer Depth 3377 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3382 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3406 ft.

Bottom Recorder Depth (Outside) 3410 ft.

Below Straddle Recorder Depth ft.

Recorder Number 1134 Cap. 4500

Recorder Number 1049 Cap. 3500

Recorder Number Cap.

Drilling Contractor DUKE DRILLING CO.

Mud Type MUD-60 Viscosity 54

Weight 10.4 Water Loss 14.6 cc.

Chlorides P.P.M.

Jars: Make Serial Number

Did Well Flow? NO Reversed Out

Drill Collar Length I. D. in.

Weight Pipe Length 945 I. D. 2.7 in.

Drill Pipe Length 2416 I. D. 2.2 in.

Test Tool Length 219 ft. Tool Size 4 1/2 in.

Anchor Length 28 ft. Size 5 1/2 in.

Surface Choke Size 1 3/8 in. Bottom Choke Size 1 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1ST FLOW - WEAK BUILDING TO FAIR
2ND FLOW - WEAK THROUGHOUT

Recovered 60 ft. of GAS IN PIPE

Recovered 100 ft. of HEAVY OIL CUT MUD

Recovered 60 ft. of MUD/GASSY OIL

Recovered ft. of

Recovered ft. of

Remarks: Temp & Chem

Time Set Packer(s) 1.45 A.M. P.M. Time Started Off Bottom 4:45 A.M. P.M. Maximum Temperature 104°

Initial Hydrostatic Pressure (A) 1918 P.S.I.

Initial Flow Period 45 Minutes (B) 55 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period 45 Minutes (D) 1002 P.S.I.

Final Flow Period 45 Minutes (E) 89 P.S.I. to (F) 100 P.S.I.

Final Closed In Period 45 Minutes (G) 991 P.S.I.

Final Hydrostatic Pressure 1873 (H) 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 Samuel Chapman
Signature of Customer or his authorized representative

Western Representative Samuel Chapman

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