



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 23145

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Miss Elevation 2076KB Eff. Pay Ft.

District Great Bend Date 7-3-77 Customer Order No.

COMPANY NAME Petroleum, Inc
ADDRESS 800 R. H. Garvey Building, 300 West Douglas, Wichita, Kansas 67202
LEASE AND WELL NO. Canton B#2 COUNTY Kiowa STATE Kansas Sec. 21 Twp. 30s Rge. 17w
Mail Inv. To Same as above Co. Name Address No. Copies Requested Usual
Mail Charts To Same as above Address No. Copies Requested Usual

Formation Test No. 1 O.K. Misrun Interval Tested From 4857 to 4923 Total Depth 4923
Size Main Hole 7 3/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4852 Ft. Size 6 3/4 Bottom Packer Depth 4857 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 66 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4861 Ft. Clock No. 10412 Inside
Top Make Muster Cap. 4300 No. 1567 Outside
Bottom Make Muster Cap. 4250 No. 1051 Inside
Below Straddle: Depth Rec. No. Clock No. Outside

Time Set Packer 7:08 PM
Tool Open I.F.P. From 7:10 PM to 7:40 M. Hr. 30 Min. From (B) 43 60 P.S.I. To (C) 43 52 P.S.I.
Tool Closed I.C.I.P. From 7:40 M. to 8:40 M. Hr. 60 Min. (D) 366 360 P.S.I.
Tool Open F.F.P. From 8:40 M. to 9:40 M. Hr. 60 Min. From (E) 53 60 P.S.I. To (F) 43 52 P.S.I.
Tool Closed F.C.I.P. From 9:40 M. to 11:40 M. Hr. 120 Min. (G) 591 595 P.S.I.
Initial Hydrostatic Pressure (A) 2626 P.S.I. Final Hydrostatic Pressure (H) 2540 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Weak blow increased to strong blow by end of 1st flow period
strong blow on 2nd flow period
Did Well Flow Yes No Recovery Total Ft. 30' Mud

Reversed Out Yes No Mud Type Starch Viscosity 50 Weight 10.1 Water Loss 8.2 cc. Chlorides 35,000 ppm
EXTRA EQUIPMENT: Type Circ. Sub. Dip Safety Joint Bowen Jars: Size 4 3/4 In. Make WTC Ser. No. 411
Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where?
DRILLING CONTRACTOR Abercrombie Drilling, Inc. R#11 Length Drill Pipe 4396 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH
Length Weight Pipe 427 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5.5 FH In. Length Drill Collars ft. I.D. Drill Collars In.
Tool Joint Size In. Length D.S.T. Tool 100 ft.

Remarks Load outside recorder # 1051

INVOICE SECTION

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$415.00), Straddle Test, Jars (\$175.00), Selective Zone, Safety Joint (\$30.00), Misrun, Evaluation, Packer, Circ. Sub., Total (\$620.00).

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Western Representative Vernon Wendra
Signature of Customer or his Authorized Representative Operator's Time (blank) Hrs. (blank)

WESTERN TESTING CO., INC.
Pressure Data

Date 7-3-77 Test Ticket No. 23145
 Recorder No. 1051 Capacity 4250 Location 4864 Ft.
 Clock No. 6859 Elevation 2074 KB Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2630</u> P.S.I.	Open Tool	<u>7:08 P</u> M	
B First Initial Flow Pressure	<u>60</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>52</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>360</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>60</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>52</u> P.S.I.			
G Final Closed-in Pressure	<u>595</u> P.S.I.			
H Final Hydrostatic Mud	<u>2539</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>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>40</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>60</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>52</u>
P 2	<u>54</u>	<u>3</u>	<u>54</u>	<u>5</u>	<u>54</u>	<u>3</u>	<u>62</u>
P 3	<u>52</u>	<u>6</u>	<u>62</u>	<u>10</u>	<u>52</u>	<u>6</u>	<u>80</u>
P 4	<u>52</u>	<u>9</u>	<u>77</u>	<u>15</u>	<u>52</u>	<u>9</u>	<u>99</u>
P 5	<u>52</u>	<u>12</u>	<u>92</u>	<u>20</u>	<u>52</u>	<u>12</u>	<u>116</u>
P 6	<u>52</u>	<u>15</u>	<u>110</u>	<u>25</u>	<u>52</u>	<u>15</u>	<u>133</u>
P 7	<u>52</u>	<u>18</u>	<u>127</u>	<u>30</u>	<u>52</u>	<u>18</u>	<u>148</u>
P 8		<u>21</u>	<u>144</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>166</u>
P 9		<u>24</u>	<u>161</u>	<u>40</u>		<u>24</u>	<u>181</u>
P 10		<u>27</u>	<u>176</u>	<u>45</u>		<u>27</u>	<u>198</u>
P 11		<u>30</u>	<u>191</u>	<u>50</u>		<u>30</u>	<u>213</u>
P 12		<u>33</u>	<u>211</u>	<u>55</u>		<u>33</u>	<u>228</u>
P 13		<u>36</u>	<u>228</u>	<u>60</u>	<u>52</u>	<u>36</u>	<u>245</u>
P 14		<u>39</u>	<u>243</u>	<u>65</u>		<u>39</u>	<u>260</u>
P 15		<u>42</u>	<u>262</u>	<u>70</u>		<u>42</u>	<u>278</u>
P 16		<u>45</u>	<u>280</u>	<u>75</u>		<u>45</u>	<u>293</u>
P 17		<u>48</u>	<u>295</u>	<u>80</u>		<u>48</u>	<u>308</u>
P 18		<u>51</u>	<u>312</u>	<u>85</u>		<u>51</u>	<u>323</u>
P 19		<u>54</u>	<u>329</u>	<u>90</u>		<u>54</u>	<u>338</u>
P 20		<u>57</u>	<u>344</u>			<u>57</u>	<u>351</u>
		<u>60</u>	<u>360</u>			<u>60</u>	<u>366</u>

Tk1#23145

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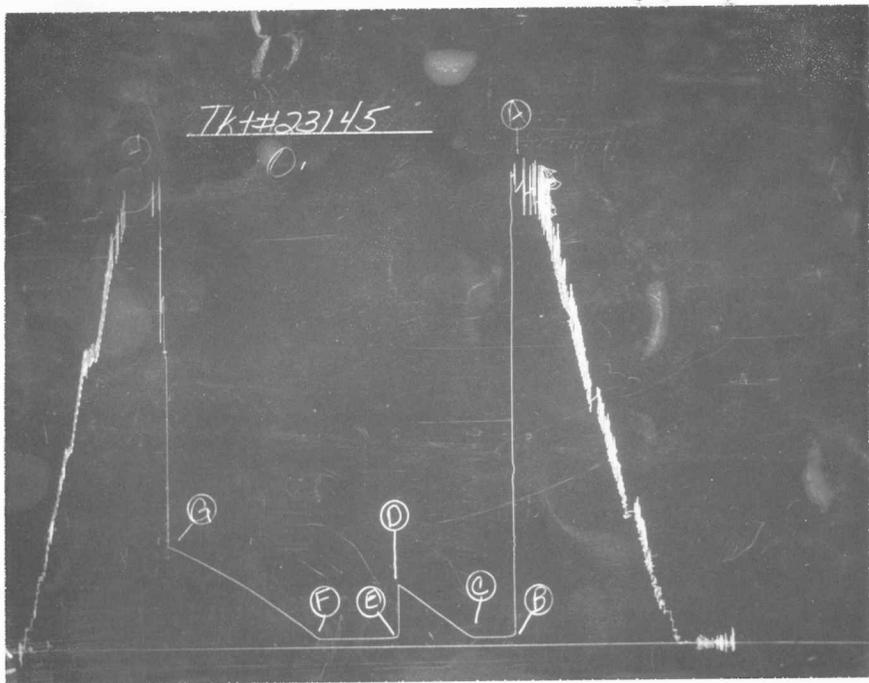
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

21-305-17W
1256' F.W.L
1320' F.W.L

Company Petroleum, Inc. Lease & Well No. Canton B-#2

Elevation 2076 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 23145

Date 7-3-77 Sec. 21 Twp. 30S Range 17W County Kiowa State Kansas

Test Approved by K.W. Johnson Western Representative Vernon Wondra

Formation Test No. 1 O.K. Misrun Interval Tested From 4857' to 4923' Total Depth 4923'

Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4852 Ft. Size 6 3/4 Bottom Packer Depth 4857 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 66 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4861 Ft. Clock No. 10412 Depth 4864 Ft. Clock No. 6859

Top Make Kuster Cap. 4300 No. 1567 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4250 No. 1051 ~~Inside~~ ^{Outside}

Below Straddle: Depth Rec. No. Clock No. ~~Outside~~ ^{Inside} Depth Ft. Rec. No. Clock No. ~~Inside~~ ^{Outside}

Time Set Packer 7:08 PM

Tool Open I.F.P. From 7:10 P.M. to 7:40 P.M. 30 Hr. 30 Min. From (B) 60 P.S.I. To (C) 52 P.S.I.

Tool Closed I.C.I.P. From 7:40 P.M. to 8:40 P.M. 1 Hr. - Min (D) 360 P.S.I.

Tool Open F.F.P. From 8:40 P.M. to 9:40 P.M. 1 Hr. - Min. From (E) 60 P.S.I. To (F) 52 P.S.I.

Tool Closed F.C.I.P. From 9:40 P.M. to 11:40 P.M. 2 Hr. - Min. (G) 595 P.S.I.

Initial Hydrostatic Pressure (A) 2630 P.S.I. Final Hydrostatic Pressure (H) 2539 P.S.I. Maximum Temp 124

INFORMATION

BLOW Weak blow increased to a strong blow by the end of the first flow period. Strong blow on second flow period.

Did Well Flow Yes No Recovery Total Fr. 30' mud.

Reversed Out Yes No Mud Type starch Viscosity 50 Weight 10.1 Water Loss 8.2 cc. Chlorides 35,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Bowen Jars: Size 43/4 In. Make WTC Ser. No. 411

Dual Packer Did Packers Hold? Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie Drlg. Co. Length Drill Pipe? 4396 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 427 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5X In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 100 Ft.

Remarks: Read outside recorder # 1051.

WESTERN TESTING CO., INC.
Pressure Data

Date 7-3-77 Test Ticket No. 23145
 Recorder No. 1051 Capacity 4250 Location 4864 Ft.
 Clock No. 6859 Elevation 2076 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2630 P.S.I.	Open Tool	7:08 P.M.	
B First Initial Flow Pressure	60 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	52 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	360 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	52 P.S.I.			
G Final Closed-in Pressure	595 P.S.I.			
H Final Hydrostatic Mud	2539 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>40</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	0	0	52	0	60	0	52
P 2	5	3	54	5	54	3	62
P 3	10	6	62	10	52	6	80
P 4	15	9	77	15	52	9	99
P 5	20	12	92	20	52	12	116
P 6	25	15	110	25	52	15	133
P 7	30	18	127	30	52	18	148
P 8		21	144	35	52	21	166
P 9		24	161	40	52	24	181
P10		27	176	45	52	27	198
P11		30	191	50	52	30	213
P12		33	211	55	52	33	228
P13		36	228	60	52	36	245
P14		39	243			39	260
P15		42	262			42	278
P16		45	280			45	293
P17		48	295			48	308
P18		51	312			51	323
P19		54	329			54	338
P20		57	344			57	351
		60	360			60	366

WESTERN TESTING CO., INC.

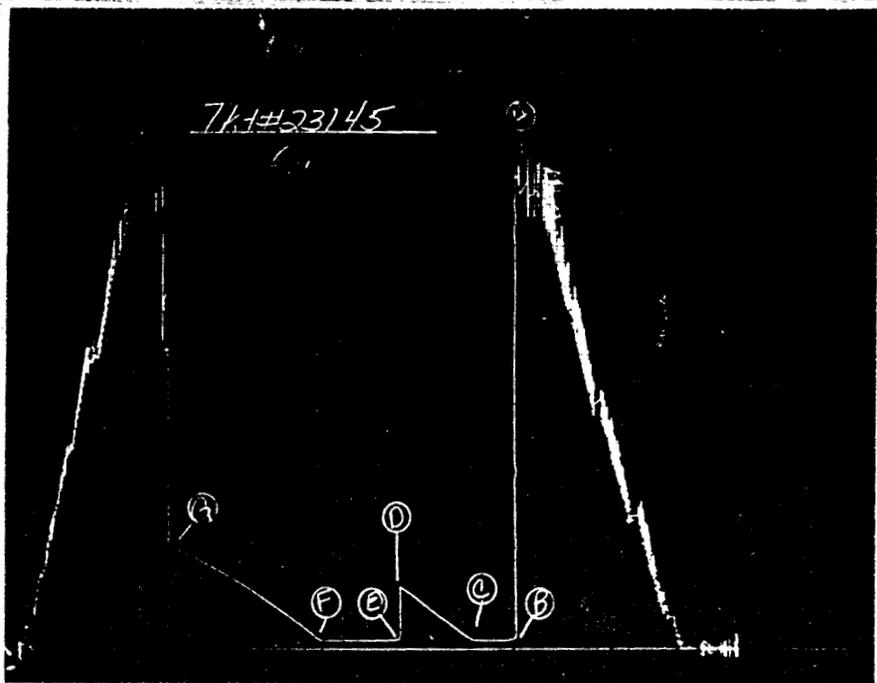
Pressure Data

Date 7-3-77 Test Ticket No. 23145
 Recorder No. 1051 Capacity 4250 Location 4864 Ft.
 Clock No. 6859 Elevation 2076 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud _____ P.S.I.	Open Tool _____	_____ M	
B	First Initial Flow Pressure _____ P.S.I.	First Flow Pressure _____	_____ Mins.	_____ Mins.
C	First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure _____	_____ Mins.	_____ Mins.
D	Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure _____	_____ Mins.	_____ Mins.
E	Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure _____	_____ Mins.	_____ Mins.
F	Second Final Flow Pressure _____ P.S.I.			
G	Final Closed-in Pressure _____ P.S.I.			
H	Final Hydrostatic Mud _____ P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1				63
P 2				66
P 3				69
P 4				72
P 5				75
P 6				78
P 7				81
P 8				84
P 9				87
P10				90
P11				93
P12				96
P13				99
P14				102
P15				105
P16				108
P17				111
P18				114
P19				117
P20				120



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2626	2630	PSI
(B) First Initial Flow Pressure	43	60	PSI
(C) First Final Flow Pressure	43	52	PSI
(D) Initial Closed-in Pressure	366	360	PSI
(E) Second Initial Flow Pressure	53	60	PSI
(F) Second Final Flow Pressure	43	52	PSI
(G) Final Closed-in Pressure	591	595	PSI
(H) Final Hydrostatic Mud	2540	2539	PSI

RECEIVED
 JUL 11 1977
 GREAT BEND
 Division Office



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

21-305-17W
1250' FWL
1320' FNL

Company Petroleum, Inc. Lease & Well No. Canton B-#2
Elevation 2076 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 23146
Date 7-4-77 Sec. 21 Twp. 30S Range 17W County Kiowa State Kansas
Test Approved by K.W. Johnson Western Representative Vernon Wondra

Formation Test No. 2 O.K. Misrun Interval Tested From 4923' to 4963' Total Depth 4983'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4918 Ft. Size 6 3/4 Bottom Packer Depth 4923 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth 4963 Ft. Size 6 3/4
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 40 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4911 Ft. Clock No. 10412 Depth 4925 Ft. Clock No. 6859
Top Make Kuster Cap. 4300 No. 1567 Inside Outside Bottom Make Kuster Cap. 4250 No. 1051 Inside Outside
Below Straddle: Depth 4977 Rec. No. 1560 Clock No. 9103 Inside Outside Depth 4980 Ft. Rec. No. 104 Clock No. 42 Inside Outside

Time Set Packer 3:53 P M
Tool Open I.F.P. From 3:55 P.M. to 4:55 P.M. 1 Hr. - Min. From (B) 95 P.S.I. To (C) 69 P.S.I.
Tool Closed I.C.I.P. From 4:55 M. to 5:55 P.M. 1 Hr. - Min (D) 1196 P.S.I.
Tool Open F.F.P. From 5:55 M. to 7:55 P.M. 2 Hr. - Min. From (E) 103 P.S.I. To (F) 45 P.S.I.
Tool Closed F.C.I.P. From 7:55 M. to 9:55 P.M. 2 Hr. - Min. (G) 1227 P.S.I.
Initial Hydrostatic Pressure (A) 2680 P.S.I. Final Hydrostatic Pressure (H) 2618 P.S.I. Maximum Temp. broke

INFORMATION

BLOW 1 Strong blow throughout test. See attached sheet for gas measurements.

Did Well Flow Yes No Recovery Total Ft. 75' mud.

Reversed Out Yes No Mud Type starch Viscosity 47 Weight 9.9 Water Loss 12.6 cc. Chlorides 33,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? NO Where? -

DRILLING CONTRACTOR Abercrombie Drlg. Co. Length Drill Pipe? 4467 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe 427 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5XH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 89 Ft.

Remarks:



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 7-4-77 Ticket 23146 Company Petroleum, Inc.
 Well Name and No. Canton B-#2 Dst No. 2 Interval Tested 4923' - 4963'
 County Kiowa State Kansas Sec. 21 Twp. 30S Rg. 17W

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 in 4 minutes.						
4:10PM	15 min.	72 inches	of water		1" choke	219,000 C.F.P.D.
4:25PM	30 min.	62 inches	of water		1" choke	203,000 C.F.P.D.
4:40PM	45 min.	56 inches	of water		1" choke	193,000 C.F.P.D.
4:55PM	60 min.	54 inches	of water		1" choke	190,000 C.F.P.D.

SECOND FLOW						
6:05PM	15 min.	50 inches	of water		1" choke	180,000 C.F.P.D.
6:20PM	30 min.	56 inches	of water		1" choke	193,000 C.F.P.D.
6:35PM	45 min.	42 inches	of water		1" choke	167,000 C.F.P.D.
6:50PM	60 min.	40 inches	of water		1" choke	163,000 C.F.P.D.
7:05PM	75 min.	38 inches	of water		1" choke	159,000 C.F.P.D.
7:20PM	90 min.	36 inches	of water		1" choke	155,000 C.F.P.D.
7:35PM	105 min.	34 inches	of water		1" choke	151,000 C.F.P.D.
7:55PM	120 min.	32 inches	of water		1" choke	146,000 C.F.P.D.

GAS BOTTLE

Serial No. 634 Date Bottle Filled 7-4-77 Date to be Invoiced 7-4-77

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 1% per month, equal to 12% 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, Inc.

Authorized by K.W. Johnson

WESTERN TESTING CO., INC.
Pressure Data

Date 7-4-77 Test Ticket No. 23146
 Recorder No. 1051 Capacity 4250 Location 4925 Ft.
 Clock No. 6859 Elevation 2076 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2680 P.S.I.	Open Tool	3:53 P.M.	
B First Initial Flow Pressure	95 P.S.I.	First Flow Pressure	60 Mins.	50 Mins.
C First Final Flow Pressure	69 P.S.I.	Initial Closed-in Pressure	60 Mins.	66 Mins.
D Initial Closed-in Pressure	1196 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E Second Initial Flow Pressure	103 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	45 P.S.I.			
G Final Closed-in Pressure	1227 P.S.I.			
H Final Hydrostatic Mud	2618 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>10</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>22</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	95	0	69	0	103	0	45
P 2 5	80	3	614	5	58	3	325
P 3 10	71	6	851	10	49	6	631
P 4 15	69	9	991	15	47	9	834
P 5 20	69	12	1055	20	46	12	968
P 6 25	69	15	1095	25	47	15	1051
P 7 30	69	18	1127	30	49	18	1101
P 8 35	69	21	1140	35	49	21	1140
P 9 40	69	24	1154	40	48	24	1165
P10 45	69	27	1167	45	47	27	1182
P11 50	69	30	1176	50	47	30	1195
P12		33	1176	55	46	33	1202
P13		36	1177	60	46	36	1207
P14		39	1181	65	46	39	1207
P15		42	1182	70	46	42	1208
P16		45	1184	75	46	45	1212
P17		48	1189	80	46	48	1214
P18		51	1190	85	45	51	1216
P19		54	1190	90	45	54	1216
P20		57	1190	95	45	57	1216
WTC - 4		60	1191			60	1216
		63	1195				
		66	1196				

(over)

(over)

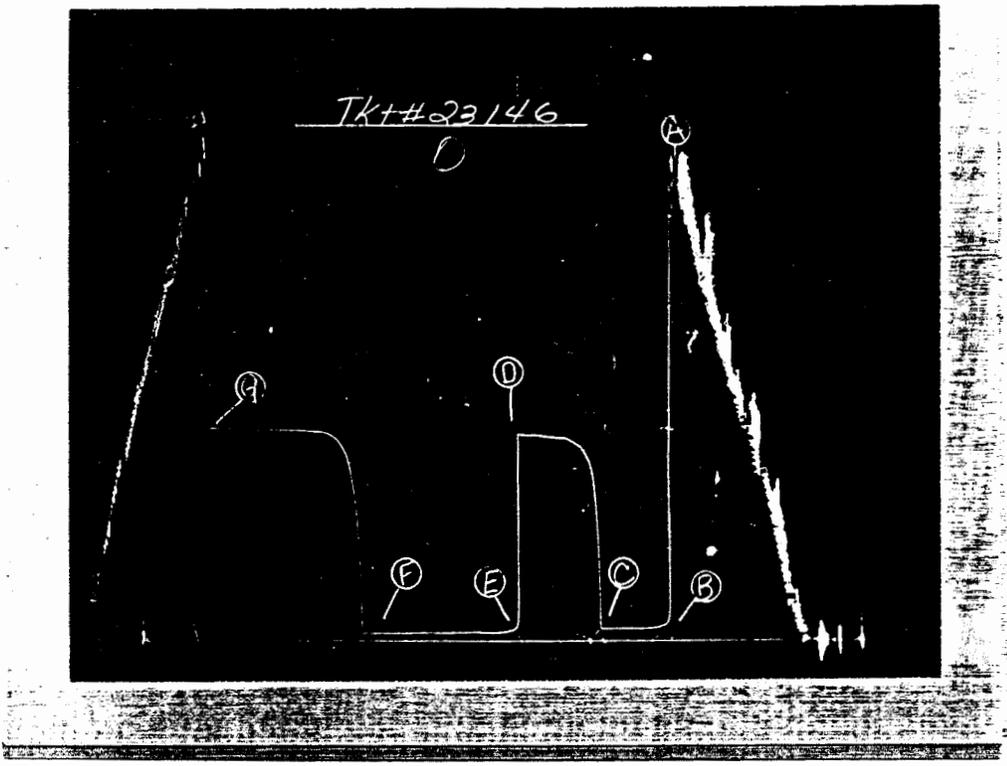
WESTERN TESTING CO., INC.
Pressure Data

Date 7-4-77 Test Ticket No. 23146
 Recorder No. 1051 Capacity 4250 Location 4925 Ft.
 Clock No. 6859 Elevation 2076 Kelly Bushing Well Temperature - °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins. Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins. Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins. Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins. Mins.
F Second Final Flow Pressure	P.S.I.		
G Final Closed-in Pressure	P.S.I.		
H Final Hydrostatic Mud	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In		
	Breakdown: Inc. of mins. and a final inc. of Min.	Breakdown: Inc. of mins. and a final inc. of Min.	Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		
	Press.	Point Minutes	Press.	Point Minutes		
P 1			100	45	63	1216
P 2			105	45	66	1216
P 3			110	45	69	1216
P 4			115	45	72	1216
P 5			120	45	75	1216
P 6					78	1216
P 7					81	1216
P 8					84	1216
P 9					87	1216
P10					90	1218
P11					93	1220
P12					96	1222
P13					99	1223
P14					102	1223
P15					105	1224
P16					108	1224
P17					111	1225
P18					114	1225
P19					117	1226
P20					120	1227



This is an actual photograph of recorder chart.

PRESSURE

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2679	2680	PSI
(B) First Initial Flow Pressure	75	95	PSI
(C) First Final Flow Pressure	64	69	PSI
(D) Initial Closed-in Pressure	1186	1196	PSI
(E) Second Initial Flow Pressure	53	103	PSI
(F) Second Final Flow Pressure	43	45	PSI
(G) Final Closed-in Pressure	1228	1227	PSI
(H) Final Hydrostatic Mud	2636	2618	PSI

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Petroleum, Inc. Lease & Well No. Canton B-#2
Elevation 2076 Kelly Bushing Formation Mississippi Effective Pay 23147 Ft. Ticket No. 7-5-77
Date 7-5-77 Sec. 21 Twp. 30S Range 17W County Kiowa State Kansas
Test Approved by K.W. Johnson Western Representative Vernon Wondra

Formation Test No. 3 O.K. Misrun Interval Tested From 4963' to 4983' Total Depth 4983'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4958 Ft. Size 6 3/4 Bottom Packer Depth 4963 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4971 Ft. Clock No. 9103 Depth 4974 Ft. Clock No. 6859
Top Make Kuster Cap. 4300 No. 1567 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4250 No. 1051 ~~Outside~~ ^{Inside}
Below Straddle: Depth Rec. No. Clock No. ~~Outside~~ ^{Inside} Depth Ft. Rec. No. Clock No. ~~Outside~~ ^{Inside}

Time Set Packer 3:55 A M
Tool Open I.F.P. From 3:55A M. to 4:55A M. 1 Hr. Min. From (B) 58 P.S.I. To (C) 49 P.S.I.
Tool Closed I.C.I.P. From 4:55A M. to 5:55A M. 1 Hr. Min. (D) 49 P.S.I.
Tool Open F.F.P. From 5:55 A M. to 6:55A M. 1 Hr. Min. From (E) 49 P.S.I. To (F) 49 P.S.I.
Tool Closed F.C.I.P. From 6:55A M. to 8:55A M. 2 Hr. Min. (G) 54 P.S.I.
Initial Hydrostatic Pressure (A) 2666 P.S.I. Final Hydrostatic Pressure (H) 2610 P.S.I. Maximum Temp. 109

INFORMATION

BLOW Fair 3" blow throughout first flow period. Weak blow throughout final flow period.

Did Well Flow Yes No Recovery Total Ft. 45' mud.

Reversed Out Yes No Mud Type starch Viscosity 47 Weight 9.9 Water Loss 12.6 cc. Chlorides 33,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Bowen Jars: Size 4 1/4 In. Make WTC Ser. No. 411

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where?

DRILLING CONTRACTOR Abercrombie Drlg. Co. Length Drill Pipe? 4508 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe 427 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 5 XH In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 48 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 7-5-77 Test Ticket No. 23147
 Recorder No. 1567 Capacity 4300 Location 4971 Ft.
 Clock No. 9103 Elevation 2076 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2666	P.S.I.	3:55	A M
B First Initial Flow Pressure	58	P.S.I.	60	Mins. 60 Mins.
C First Final Flow Pressure	49	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	49	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	49	P.S.I.	120	Mins. 117 Mins.
F Second Final Flow Pressure	49	P.S.I.		
G Final Closed-in Pressure	54	P.S.I.		
H Final Hydrostatic Mud	2610	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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	0	0	49	0	49	0	49
P 2	5	3	49	5	49	3	49
P 3	10	6	49	10	49	6	49
P 4	15	9	49	15	49	9	49
P 5	20	12	49	20	49	12	51
P 6	25	15	49	25	49	15	51
P 7	30	18	49	30	49	18	51
P 8	35	21	49	35	49	21	51
P 9	40	24	49	40	49	24	52
P10	45	27	49	45	49	27	52
P11	50	30	49	50	49	30	52
P12	55	33	49	55	49	33	52
P13	60	36	49	60	49	36	53
P14		39	49			39	53
P15		42	49			42	53
P16		45	49			45	53
P17		48	49			48	54
P18		51	49			51	54
P19		54	49			54	54
P20		57	49			57	54
WTC - 4		60	49			60	54

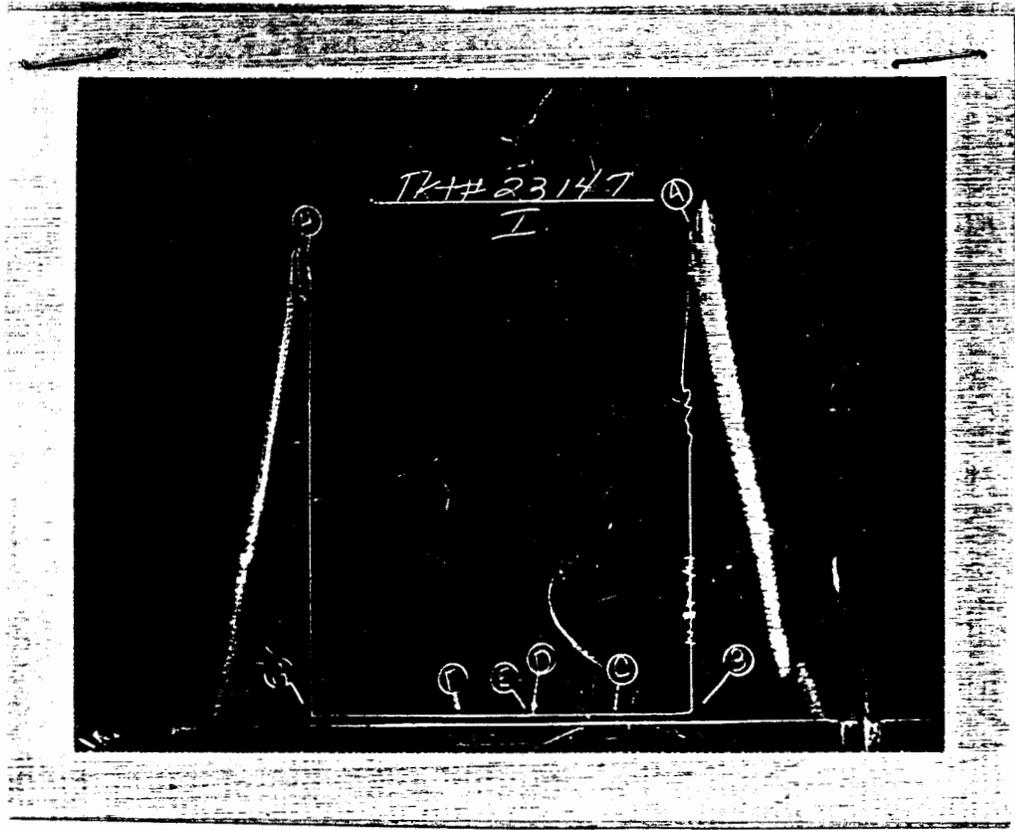
WESTERN TESTING CO., INC.
Pressure Data

Date 7-5-77 Test Ticket No. 23147
 Recorder No. 1567 Capacity 4300 Location 4971 Ft.
 Clock No. 9103 Elevation 2076 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud _____ P.S.I.	Open Tool	_____ M	_____ Mins.
B	First Initial Flow Pressure _____ P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C	First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D	Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E	Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F	Second Final Flow Pressure _____ P.S.I.			
G	Final Closed-in Pressure _____ P.S.I.			
H	Final Hydrostatic Mud _____ P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: <u>39</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Point Minutes	Point Minutes
P 1	_____	_____	_____	63
P 2	_____	_____	_____	66
P 3	_____	_____	_____	69
P 4	_____	_____	_____	72
P 5	_____	_____	_____	75
P 6	_____	_____	_____	78
P 7	_____	_____	_____	81
P 8	_____	_____	_____	84
P 9	_____	_____	_____	87
P10	_____	_____	_____	90
P11	_____	_____	_____	93
P12	_____	_____	_____	96
P13	_____	_____	_____	99
P14	_____	_____	_____	102
P15	_____	_____	_____	105
P16	_____	_____	_____	108
P17	_____	_____	_____	111
P18	_____	_____	_____	114
P19	_____	_____	_____	117
P20	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2622	2666	PSI
(B) First Initial Flow Pressure	43	58	PSI
(C) First Final Flow Pressure	43	49	PSI
(D) Initial Closed-in Pressure	43	49	PSI
(E) Second Initial Flow Pressure	43	49	PSI
(F) Second Final Flow Pressure	43	49	PSI
(G) Final Closed-in Pressure	43	54	PSI
(H) Final Hydrostatic Mud	2000	2610	PSI

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