



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company **Petroleum Inc.** Lease & Well No. **Boger C-1**
Elevation **2421 Ground Level** Formation **Harmaton** Effective Pay _____ Ft. Ticket No. **16120**
Date **8-10-71** Sec. **5** Twp. **22** Range **24** County **Hodgeman** State **Kansas**
Test Approved by **Raymond R. Dombaugh** Western Representative **Leon Elmore**

Formation Test No. **1** O.K. Misrun _____ Interval Tested From **4335'** to **4390'** Total Depth **4390'**
Size Main Hole **7 7/8"** Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth **4330** Ft. Size **6 3/4"** Packer Depth **4335** Ft. Size **6 3/4"**
Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" F.H.** Anchor Length **55** Ft. Size **32'D.P. 23"-5 1/2"**
Packer Depth _____ Ft. Size _____

RECORDERS Depth **4344** Ft. Clock No. **6866** Depth **4347** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4500** No. **3085** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4400** No. **2603** Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer **3:08** P.M.
Tool Open I.F.P. From **3:10** M. to **3:40P.** M. Hr. **30** Min. From (B) **14** P.S.I. To (C) **14** P.S.I.
Tool Closed I.C.I.P. From **3:40** M. to **4:10P.** M. Hr. **30** Min. (D) **79** P.S.I.
Tool Open F.F.P. From **4:10** M. to **4:40P.** M. Hr. **30** Min. From (E) **16** P.S.I. To (F) **16** P.S.I.
Tool Closed F.C.I.P. From **4:40** M. to **5:10P.** M. Hr. **30** Min. (G) **33** P.S.I.
Initial Hydrostatic Pressure (A) **2298** P.S.I. Final Hydrostatic Pressure (H) **2283** P.S.I.

SURFACE Size Choke **3/4** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW **Weak for 13 min. - died** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. **5 feet mud**

Reversed Out _____ Yes No _____ Mud Type **Starch** Viscosity **46** Weight **10** Water Loss **7.6** cc. Maximum Temp. **125** °F
Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **No** Did Packer Hold? **Yes** Where? _____
Length Drill Pipe **3265** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **1050** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **75** ft.

Remarks _____

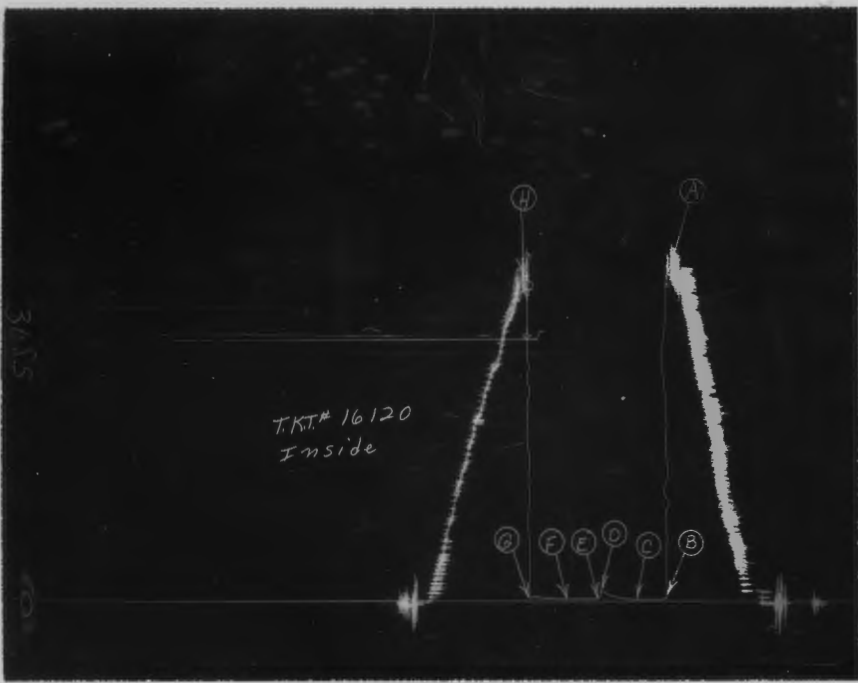
WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-71 Test Ticket No. 16120
 Recorder No. 3085 Capacity 4500 Location 4344 Ft.
 Clock No. 6866 Elevation 2421 Ground Level Well Temperature 125 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2298	P.S.I.	Open Tool	3:10 P.	M
B First Initial Flow Pressure	14	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	14	P.S.I.	Initial Closed-in Pressure	30	Mins. 30 Mins.
D Initial Closed-in Pressure	79	P.S.I.	Second Flow Pressure	30	Mins. 30 Mins.
E Second Initial Flow Pressure	16	P.S.I.	Final Closed-in Pressure	30	Mins. 30 Mins.
F Second Final Flow Pressure	16	P.S.I.			
G Final Closed-in Pressure	33	P.S.I.			
H Final Hydrostatic Mud	2283	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of 6		of 10		of 6		of 10	
	mins. and a		mins. and a		mins. and a		mins. and a	
	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.
P 1	0	14	0	14	0	16	0	16
P 2	5	14	3	14	5	16	3	16
P 3	10	14	6	16	10	16	6	16
P 4	15	14	9	18	15	16	9	17
P 5	20	14	12	21	20	16	12	19
P 6	25	14	15	24	25	16	15	21
P 7	30	14	18	28	30	16	18	23
P 8			21	36			21	25
P 9			24	47			24	28
P10			27	57			27	31
P11			30	79			30	33
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								





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Company Petroleum Inc. Lease & Well No. Boyer C-1
Elevation 2421 Ground Level Formation Mississippian Effective Pay 8 Ft. Ticket No. 16121
Date August 12, 1971 Sec. 5 Twp. 22 Range 24 County Hodgeman State Kansas
Test Approved by Raymond E. Dombaugh Western Representative Leon Klaore

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 4522' to 4556' Total Depth 4556'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. _____ B.T. Damaged _____ Yes No
Packer Depth 4517 Ft. Size 6 3/4" Packer Depth 4522 Ft. Size 6 3/4"
Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" P.H. Anchor Length 34 Ft. Size 5 1/2" O.D.
RECORDERS Depth 4547 Ft. Clock No. 6866 Depth 4550 Ft. Clock No. 3665
Top Make Kuster Cap. 4500 No. 3085 Inside _____ Outside _____ Bottom Make Kuster Cap. 4400 No. 2603 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Outside _____ Depth _____ Ft. Clock No. _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Bottom Make _____ Cap. _____ No. _____ Outside _____

Time Set Packer 4:10 P. M.
Tool Open I.F.P. From 4:13 M. to 4:43 P. M. Hr. 30 Min. From (B) 23 P.S.I. To (C) 28 P.S.I.
Tool Closed I.C.I.P. From 4:43 M. to 5:13 P. M. Hr. 30 Min. (D) 1152 P.S.I.
Tool Open F.F.P. From 5:13 M. to 5:43 P. M. Hr. 30 Min. From (E) 39 P.S.I. To (F) 43 P.S.I.
Tool Closed F.C.I.P. From 5:43 M. to 6:13 P. M. Hr. 60 Min. (G) 1210 P.S.I.
Initial Hydrostatic Pressure (A) 2457 P.S.I. Final Hydrostatic Pressure (H) 2432 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak throughout test Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 5 feet oil cut mud - 60 feet oil specked mud

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 49 Weigh 9.9 Water Loss 7.4 cc. Maximum Temp. 129 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 3452 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 54 ft.

Remarks _____

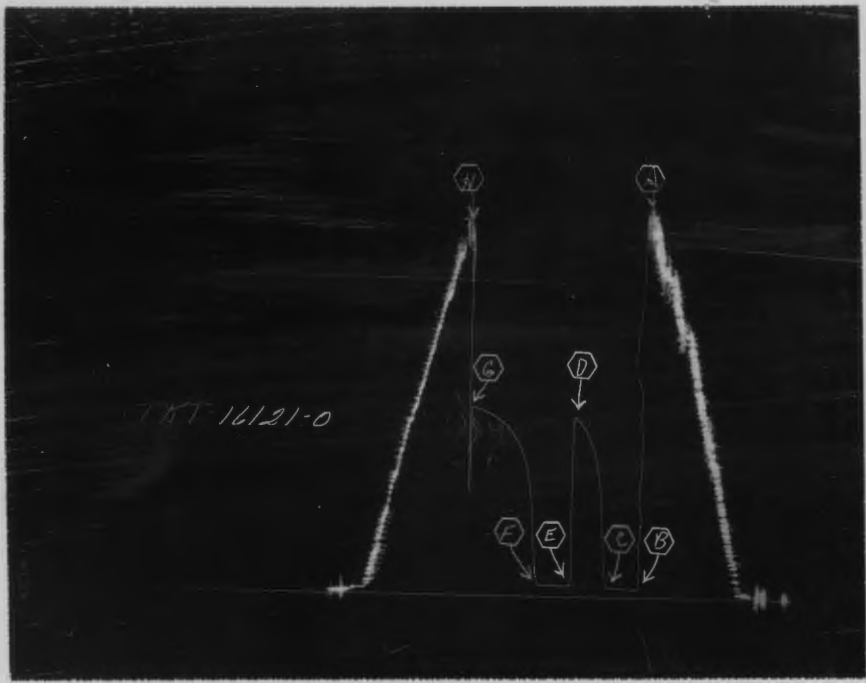
WESTERN TESTING CO., INC.
Pressure Data

Date August 12, 1971 Test Ticket No. 16121
 Recorder No. 3085 Capacity 4500 Location 4547 Ft.
 Clock No. 6866 Elevation 2421 Ground Level Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2457</u> P.S.I.	Open Tool	<u>4:10</u> P. M.	
B First Initial Flow Pressure	<u>23</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>28</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1152</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>39</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>43</u> P.S.I.			
G Final Closed-in Pressure	<u>1210</u> P.S.I.			
H Final Hydrostatic Mud	<u>2432</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>21 19</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>0</u>	<u>23</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>43</u>
P 2	<u>5</u>	<u>3</u>	<u>24</u>	<u>5</u>	<u>360</u>	<u>3</u>	<u>334</u>
P 3	<u>10</u>	<u>6</u>	<u>25</u>	<u>10</u>	<u>750</u>	<u>6</u>	<u>641</u>
P 4	<u>15</u>	<u>9</u>	<u>26</u>	<u>15</u>	<u>874</u>	<u>9</u>	<u>799</u>
P 5	<u>20</u>	<u>12</u>	<u>27</u>	<u>20</u>	<u>960</u>	<u>12</u>	<u>881</u>
P 6	<u>25</u>	<u>15</u>	<u>28</u>	<u>25</u>	<u>1013</u>	<u>15</u>	<u>948</u>
P 7	<u>30</u>	<u>18</u>	<u>28</u>	<u>30</u>	<u>1064</u>	<u>18</u>	<u>993</u>
P 8		<u>21</u>			<u>1092</u>	<u>21</u>	<u>1027</u>
P 9		<u>24</u>			<u>1124</u>	<u>24</u>	<u>1057</u>
P10		<u>27</u>			<u>1143</u>	<u>27</u>	<u>1080</u>
P11		<u>30</u>			<u>1152</u>	<u>30</u>	<u>1101</u>
P12						<u>33</u>	<u>1120</u>
P13						<u>36</u>	<u>1138</u>
P14						<u>39</u>	<u>1154</u>
P15						<u>42</u>	<u>1166</u>
P16						<u>45</u>	<u>1177</u>
P17						<u>48</u>	<u>1187</u>
P18						<u>51</u>	<u>1196</u>
P19						<u>54</u>	<u>1205</u>
P20						<u>57</u>	<u>1210</u>





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Company Petroleum Inc. Lease & Well No. Boyer C-1
Elevation 2421 Ground Level Formation Mississippian Effective Pay 7 Ft. Ticket No. 16122
Date August 13, 1973 Sec. 5 Twp. 22 Range 24 County Hodgeman State Kansas
Test Approved by Raymond R. Dombaugh Western Representative Leon Gilmore

Formation Test No. 3 O.K. Misrun Interval Tested From 4557' to 4564' Total Depth 4564'
Size Main Hole 7 7/8" Cat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 4552 Ft. Size 6 3/4" Packer Depth 4557 Ft. Size 6 3/4"
Straddle Yes No Conv. B.T. Damaged Yes No

Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F. H. Anchor Length 7 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4545 Ft. Clock No. 6866 Depth 4560 Ft. Clock No. 5665
Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Outside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 4:17 A. M.
Tool Open I.F.P. From 4:49 M. to 5:19 A.M. Hr. 30 Min. From (B) 19 P.S.I. To (C) 28 P.S.I.
Tool Closed I.C.I.P. From 5:19 M. to 5:49 A.M. Hr. 30 Min. (D) 1344 P.S.I.
Tool Open F.F.P. From 5:49 M. to 6:19 A.M. Hr. 30 Min. From (E) 47 P.S.I. To (F) 59 P.S.I.
Tool Closed F.C.I.P. From 6:19 M. to 7:19 A.M. Hr. 60 Min. (G) 1349 P.S.I.
Initial Hydrostatic Pressure (A) 2492 P.S.I. Final Hydrostatic Pressure (H) 2449 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak throughout test Bottom Choke Size 3/4 In.
Did Well Flow Yes No Recovery Total Ft. 100 feet muddy water

Reversed Out Yes No Mud Type Starch Viscosity 49 Weight 9.9 Water Loss 7.4 cc. Maximum Temp. 133 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 3481 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 33 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date August 13, 1971 Test Ticket No. 16122
 Recorder No. 3085 Capacity 4500 Location 4545 Ft.
 Clock No. 6866 Elevation 2421 Ground Level Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2192</u>	P.S.I.	<u>4:47 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>19</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>28</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1344</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>47</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>59</u>	P.S.I.		
G Final Closed-in Pressure	<u>1347</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2449</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a		of <u>10</u> mins. and a		of <u>6</u> mins. and a		of <u>20</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>19</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>59</u>	
P 2 <u>5</u>	<u>19</u>	<u>3</u>	<u>941</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>701</u>	
P 3 <u>10</u>	<u>20</u>	<u>6</u>	<u>1221</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>1175</u>	
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>1284</u>	<u>15</u>	<u>50</u>	<u>9</u>	<u>1263</u>	
P 5 <u>20</u>	<u>23</u>	<u>12</u>	<u>1307</u>	<u>20</u>	<u>53</u>	<u>12</u>	<u>1291</u>	
P 6 <u>25</u>	<u>25</u>	<u>15</u>	<u>1309</u>	<u>25</u>	<u>56</u>	<u>15</u>	<u>1305</u>	
P 7 <u>30</u>	<u>28</u>	<u>18</u>	<u>1330</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>1314</u>	
P 8		<u>21</u>	<u>1335</u>			<u>21</u>	<u>1321</u>	
P 9		<u>24</u>	<u>1339</u>			<u>24</u>	<u>1326</u>	
P10		<u>27</u>	<u>1342</u>			<u>27</u>	<u>1330</u>	
P11		<u>30</u>	<u>1344</u>			<u>30</u>	<u>1332</u>	
P12						<u>33</u>	<u>1335</u>	
P13						<u>36</u>	<u>1339</u>	
P14						<u>39</u>	<u>1341</u>	
P15						<u>42</u>	<u>1342</u>	
P16						<u>45</u>	<u>1344</u>	
P17						<u>48</u>	<u>1343</u>	
P18						<u>51</u>	<u>1344</u>	
P19						<u>54</u>	<u>1345</u>	
P20						<u>57</u>	<u>1346</u>	
						<u>60</u>	<u>1347</u>	

