



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 6463

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

Elevation Formation Mississippi Eff. Pay Ft.

District Great Bend, Ks Date 8-16-80 Customer Order No.

COMPANY NAME Publisher's Petroleum

ADDRESS P.O. Box 25125 Oklahoma City Oklahoma 73125

LEASE AND WELL NO #1 Horchem COUNTY Ness STATE Ks. Sec. 27 Twp 16s Rge 26w

Mail Invoice To Co. Name Same As Above Address No. Copies Requested 5

Mail Charts To Horchem#1 Address No. Copies Requested 5

Formation Test No 1 Interval Tested from 4568 ft. to 4587 ft. Total Depth 4587 ft.
Packer Depth 4563 ft. Size 6 3/4 in. Packer Depth 4568 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set

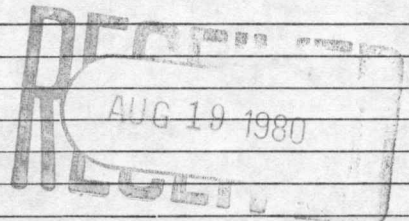
Top Recorder Depth (Inside) 4577 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 4580 ft. Recorder Number 3659 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DNB Rig 2 Drill Collar Length 245 I. D. 2.7 in.
Mud Type Drispal Viscosity 46 Weight Pipe Length 600 I. D. 2.8 in.
Weight 9.5 Water Loss 9.5 cc. Drill Pipe Length 3699 I. D. 3.2 in.
Chlorides 4,000 P.P.M. Test Tool Length 24 ft. Tool Size 5300 in.
Jars: Make WTC Serial Number 403 Anchor Length 19 ft. Size 5300 in.
Did Well Flow? NO Reversed Out 100 Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 x 14 in.

Blow: Very Good Throughout 1st. Fluid-Good, Decreasing Blow
Throughout 2nd. Operating final flow period

Recovered 1190 ft. of Dry Mud.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Shut-In Pressures Not Correct



Arrived 4:30 A.M. Departed 1:00 P.M.

Table with 4 columns: Time Set Packer(s), A.M./P.M., Time Started Off Bottom, A.M./P.M., Maximum Temperature. Rows include Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

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 ER Sewell ER. SEWELL
Signature of Customer or his authorized representative

Western Representative Denis Wanda

Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, TOTAL.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-16-80 Test Ticket No. 6463  
 Recorder No. 3474 Capacity 3000 Location 4577 Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2372</u>	P.S.I.	<u>6:58 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>355*</u>	P.S.I.	<u>15</u>	<u>15</u> Mins.
C First Final Flow Pressure	<u>632</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1309</u>	P.S.I.	<u>60</u>	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>652</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>641</u>	P.S.I.		
G Final Closed-in Pressure	<u>2155</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2328</u>	P.S.I.		

*\* Readings questionable due to plugging action.*

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 20 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

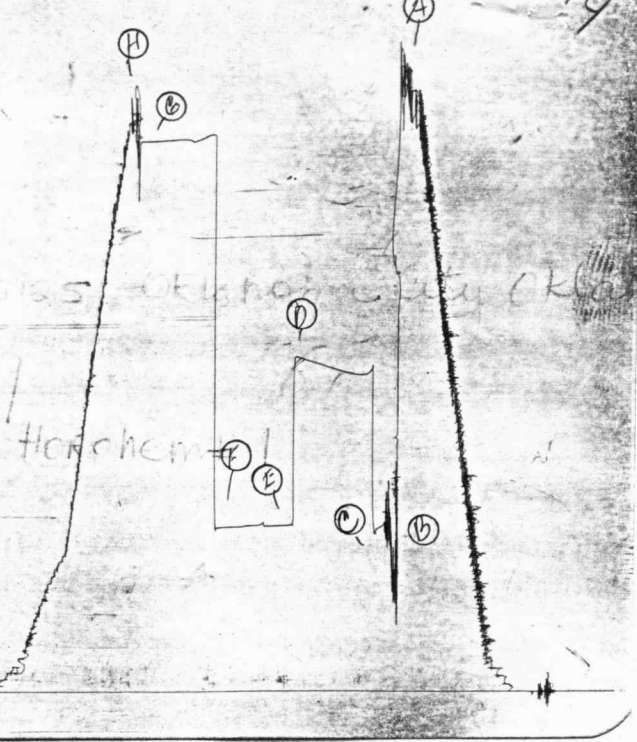
**Second Flow Pressure**  
 Breakdown: 11 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 20 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	<u>355*</u>	0	<u>632</u>	0	<u>652</u>	0	<u>641</u>
P 2 5	<u>682*</u>	3	<u>1273</u>	5	<u>652</u>	3	<u>1189</u>
P 3 10	<u>649</u>	6	<u>1245</u>	10	<u>650</u>	6	<u>2183</u>
P 4 15	<u>632</u>	9	<u>1239</u>	15	<u>648</u>	9	<u>2177</u>
P 5 20		12	<u>1236</u>	20	<u>648</u>	12	<u>2168</u>
P 6 25		15	<u>1241</u>	25	<u>652</u>	15	<u>2162</u>
P 7 30		18	<u>1244</u>	30	<u>651</u>	18	<u>2155</u>
P 8 35		21	<u>1248</u>	35	<u>647</u>	21	<u>2163</u>
P 9 40		24	<u>1252</u>	40	<u>645</u>	24	<u>2165</u>
P10 45		27	<u>1256</u>	45	<u>645</u>	27	<u>2165</u>
P11 50		30	<u>1261</u>	50	<u>644</u>	30	<u>2163</u>
P12 55		33	<u>1267</u>	55	<u>641</u>	33	<u>2162</u>
P13 60		36	<u>1273</u>	60	<u>6</u>	36	<u>2160</u>
P14		39	<u>1277</u>	65		39	<u>2159</u>
P15		42	<u>1282</u>	70		42	<u>2158</u>
P16		45	<u>1286</u>	75		45	<u>2157</u>
P17		48	<u>1292</u>	80		48	<u>2157</u>
P18		51	<u>1297</u>	85		51	<u>2156</u>
P19		54	<u>1302</u>	90		54	<u>2156</u>
P20		57	<u>1306</u>			57	<u>2155</u>
		60	<u>1309</u>			60	<u>2153</u>

TK # 6463  
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Horchern



Company Publishers Petroleum Lease & Well No. Horchem #1  
 Elevation ----- Formation Mississippi Effective Pay --- Ft. Ticket No. 6463  
 Date 8/16/80 Sec. 27 Twp. 16S Range 26W County Ness State Kansas  
 Test Approved by E. R. Sewell Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 4568 ft. to 4587 ft. Total Depth 4587 ft.  
 Packer Depth 4563 ft. Size 6 3/4 in. Packer Depth 4568 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) 4577 ft. Recorder Number 3474 Cap. 3000  
 Bottom Recorder Depth (Outside) 4580 ft. Recorder Number 3659 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drlg. Rig #2 Drill Collar Length 245 I. D. 2.7 in.  
 Mud Type drispac Viscosity 46 Weight Pipe Length 600 I. D. 2.8 in.  
 Weight 9.5 Water Loss 9.5 cc. Drill Pipe Length 3699 I. D. 3.8 in.  
 Chlorides 4,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WIC Serial Number 403 Anchor Length 19 ft. Size 5 1/2 OD 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: Very good throughout initial flow period. Good, decreasing blow throughout final flow period.

Recovered 1190 ft. of drilling mud  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks: Shut-in pressures questionable due to plugging action.

Time Set Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure		(A) <u>15</u>	<u>2372</u> P.S.I.	
Initial Flow Period	Minutes	(B) <u>60</u>	<u>355*</u> P.S.I. to (C) <u>632</u> P.S.I.	
Initial Closed In Period	Minutes	(D) <u>60</u>	<u>1309</u> P.S.I.	
Final Flow Period	Minutes	(E) <u>55</u>	<u>652</u> P.S.I. to (F) <u>641</u> P.S.I.	
Final Closed In Period	Minutes	(G) <u>60</u>	<u>2155</u> P.S.I.	
Final Hydrostatic Pressure		(H) <u>60</u>	<u>2328</u> P.S.I.	

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-16-80 Test Ticket No. 6463  
 Recorder No. 3474 Capacity 3000 Location 4577 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2372</u> P.S.I.	Open Tool	<u>6:58 A</u> M	
B First Initial Flow Pressure	<u>355 *</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>632</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1309</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>652</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>641</u> P.S.I.			
G Final Closed-in Pressure	<u>2155</u> P.S.I.			
H Final Hydrostatic Mud	<u>2328</u> P.S.I.			

\* Pressures questionable due to plugging action.

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>20</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>355*</u>	<u>0</u>	<u>632</u>	<u>0</u>	<u>652</u>	<u>0</u>	<u>641</u>
P 2 <u>5</u>	<u>682*</u>	<u>3</u>	<u>1273</u>	<u>5</u>	<u>652</u>	<u>3</u>	<u>1189</u>
P 3 <u>10</u>	<u>647</u>	<u>6</u>	<u>1245</u>	<u>10</u>	<u>650</u>	<u>6</u>	<u>2183</u>
P 4 <u>15</u>	<u>632</u>	<u>9</u>	<u>1239</u>	<u>15</u>	<u>648</u>	<u>9</u>	<u>2177</u>
P 5		<u>12</u>	<u>1236</u>	<u>20</u>	<u>648</u>	<u>12</u>	<u>2168</u>
P 6		<u>15</u>	<u>1241</u>	<u>25</u>	<u>652</u>	<u>15</u>	<u>2162</u>
P 7		<u>18</u>	<u>1244</u>	<u>30</u>	<u>651</u>	<u>18</u>	<u>2155</u>
P 8		<u>21</u>	<u>1248</u>	<u>35</u>	<u>647</u>	<u>21</u>	<u>2163</u>
P 9		<u>24</u>	<u>1252</u>	<u>40</u>	<u>645</u>	<u>24</u>	<u>2165</u>
P10		<u>27</u>	<u>1256</u>	<u>45</u>	<u>645</u>	<u>27</u>	<u>2165</u>
P11		<u>30</u>	<u>1261</u>	<u>50</u>	<u>644</u>	<u>30</u>	<u>2163</u>
P12		<u>33</u>	<u>1267</u>	<u>55</u>	<u>641</u>	<u>33</u>	<u>2162</u>
P13		<u>36</u>	<u>1273</u>			<u>36</u>	<u>2160</u>
P14		<u>39</u>	<u>1277</u>			<u>39</u>	<u>2159</u>
P15		<u>42</u>	<u>1282</u>			<u>42</u>	<u>2158</u>
P16		<u>45</u>	<u>1286</u>			<u>45</u>	<u>2157</u>
P17		<u>48</u>	<u>1292</u>			<u>48</u>	<u>2157</u>
P18		<u>51</u>	<u>1297</u>			<u>51</u>	<u>2156</u>
P19		<u>54</u>	<u>1302</u>			<u>54</u>	<u>2156</u>
P20		<u>57</u>	<u>1306</u>			<u>57</u>	<u>2155</u>
		<u>60</u>	<u>1309</u>			<u>60</u>	<u>2155</u>



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N<sup>o</sup> 6464

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

Elevation \_\_\_\_\_ Formation MISS. Eff. Pay \_\_\_\_\_ Ft.

District Great Bend Date 8-17-80 Customer Order No. \_\_\_\_\_

COMPANY NAME Publishers Petroleum

ADDRESS P.O. Box 25125 Oklahoma City Okla. 73125

LEASE AND WELL NO. #1 Horchem COUNTY Ness STATE KS. Sec. 27 Twp. 16S Rge 26W

Mail Invoice To Same As Above No. Copies Requested 5

Co. Name " Horchem #1 Address " No. Copies Requested 5

Mail Charts To " Horchem #1 Address " No. Copies Requested 5

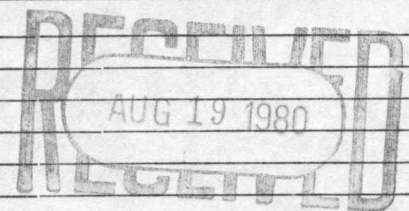
Formation Test No. 2 Interval Tested from 4599 ft. to 4605 ft. Total Depth 4605 ft. Packer Depth 4594 ft. Size 6 3/4 in. Packer Depth 4599 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4589 ft. Recorder Number 3474 Cap. 3000 Bottom Recorder Depth (Outside) 4602 ft. Recorder Number 3659 Cap. 4000 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor DNB Rig #2 Drill Collar Length 186 I. D. 2.7 in. Mud Type Drispac Viscosity 51 Weight Pipe Length 600 I. D. 2.8 in. Weight 9.0 Water Loss 15 cc. Drill Pipe Length 3799 I. D. 3.8 in. Chlorides 5,000 P.P.M. Test Tool Length 24 ft. Tool Size 530P in. Jars: Make WTC Serial Number 403 Anchor Length 6 ft. Size 530D 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 x 4 in.

Blow: Weak Throughout 1st Flow Period No Blow On 2nd Opening Final flow period

Recovered 60 ft. of D-1g Mud Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Remarks: \_\_\_\_\_



Arrived 9:00 A.M. 8-16-80 Departed 7:30 A.M. 8-18-80

Table with 4 columns: Time Set Packer(s), A.M./P.M., Time Started Off Bottom, A.M./P.M., Maximum Temperature. Rows include Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

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 ER Sewell Sewell Signature of Customer or his authorized representative

Western Representative Denis Wondra Thank you

FIELD INVOICE

Table with 2 columns: Item, Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, TOTAL.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-17-80 Test Ticket No. 6464  
 Recorder No. 3474 Capacity 3000 Location 4589 Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2522</u>	P.S.I.	<u>2:28</u>	<u>A M</u>
B First Initial Flow Pressure	<u>61</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>45</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1185</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>48</u>	P.S.I.		
G Final Closed-in Pressure	<u>705</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2422</u>	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 3 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 20 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

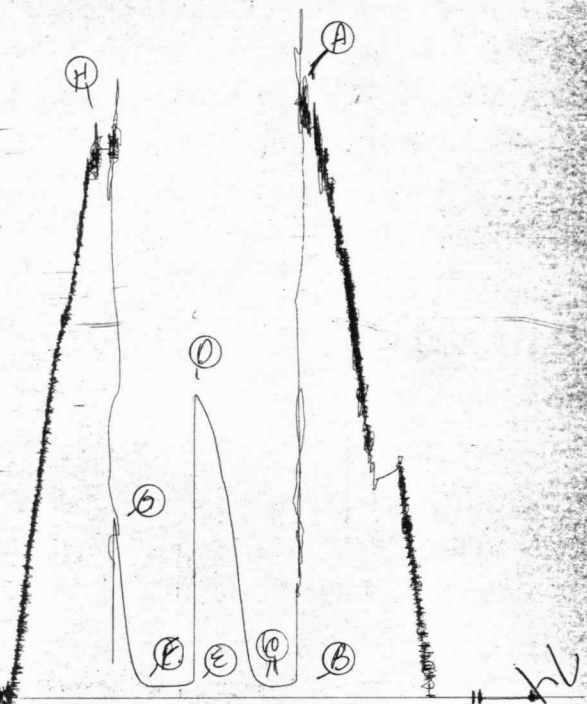
**Second Flow Pressure**  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 9 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>61</u>	0	<u>45</u>	0	<u>61</u>	0	<u>48</u>
P 2	<u>53</u>	3	<u>45</u>	5	<u>53</u>	3	<u>55</u>
P 3	<u>48</u>	6	<u>48</u>	10	<u>50</u>	6	<u>62</u>
P 4	<u>45</u>	9	<u>53</u>	15	<u>48</u>	9	<u>83</u>
P 5		12	<u>63</u>	20		12	<u>121</u>
P 6		15	<u>78</u>	25		15	<u>191</u>
P 7		18	<u>115</u>	30	<u>48</u>	18	<u>282</u>
P 8		21	<u>182</u>	35		21	<u>418</u>
P 9		24	<u>305</u>	40		24	<u>561</u>
P10		27	<u>429</u>	45		27	<u>705</u>
P11		30	<u>567</u>	50		30	
P12		33	<u>674</u>	55		33	
P13		36	<u>771</u>	60		36	
P14		39	<u>842</u>	65		39	
P15		42	<u>917</u>	70		42	
P16		45	<u>998</u>	75		45	
P17		48	<u>1060</u>	80		48	
P18		51	<u>1092</u>	85		51	
P19		54	<u>1127</u>	90		54	
P20		57	<u>1161</u>			57	
		60	<u>1185</u>			60	

SLT #6464

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Company Publishers Petroleum Lease & Well No. Horchem #1  
 Elevation ----- Formation Mississippi Effective Pay --- Ft. Ticket No. 6464  
 Date 8/17/80 Sec. 27 Twp. 16S Range 26W County Ness State Kansas  
 Test Approved by E. R. Sewell Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 4599 ft. to 4605 ft. Total Depth 4605 ft.  
 Packer Depth 4594 ft. Size 6 3/4 in. Packer Depth 4599 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) 4589 ft. Recorder Number 3474 Cap. 3000  
 Bottom Recorder Depth (Outside) 4602 ft. Recorder Number 3659 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drilling Rig #2 Drill Collar Length 186 I. D. 2.7 in.  
 Mud Type drispac Viscosity 51 Weight Pipe Length 600 I. D. 2.8 in.  
 Weight 9.0 Water Loss 15 cc. Drill Pipe Length 3799 I. D. 3.8 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 403 Anchor Length 6 ft. Size 5 1/2 OD 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: Weak throughout initial flow period. No blow on final flow period.

Recovered 60 ft. of drilling mud  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks:     

Time Set Packer(s) 2:28 A.M. Time Started Off Bottom 4:45 P.M. Maximum Temperature 124°  
 Initial Hydrostatic Pressure 2522 P.S.I. (A)  
 Initial Flow Period 15 Minutes (B) 61 P.S.I. to (C) 45 P.S.I.  
 Initial Closed In Period 60 Minutes (D) 1185 P.S.I.  
 Final Flow Period 30 Minutes (E) 61 P.S.I. to (F) 48 P.S.I.  
 Final Closed In Period 27 Minutes (G) 705 P.S.I.  
 Final Hydrostatic Pressure 2422 P.S.I. (H)

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-17-70 Test Ticket No. 6464  
 Recorder No. 3474 Capacity 3000 Location 4589 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2522	P.S.I.	2:28 AM	
B First Initial Flow Pressure	61	P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure	45	P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1185	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	61	P.S.I.	30 Mins.	27 Mins.
F Second Final Flow Pressure	48	P.S.I.		
G Final Closed-in Pressure	705	P.S.I.		
H Final Hydrostatic Mud	2422	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 3 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 20 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: 9 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	61	0	45	0	0	48	
P 2	5	53	3	45	5	3	55	
P 3	10	48	6	48	10	6	62	
P 4	15	45	9	53	15	9	83	
P 5			12	63	20	12	121	
P 6			15	78	25	15	191	
P 7			18	115	30	18	282	
P 8			21	182		21	418	
P 9			24	305		24	561	
P10			27	429		27	705	
P11			30	567				
P12			33	674				
P13			36	771				
P14			39	842				
P15			42	917				
P16			45	998				
P17			48	1060				
P18			51	1092				
P19			54	1127				
P20			57	1161				
			60	1185				