



# WESTERN TESTING CO., INC.

## FORMATION TESTING

Kelly Bushling

TICKET No

7729

Kansas City

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation 1214 K0 Formation K.C. Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date Sept 24, 1980 Customer Order No. \_\_\_\_\_

COMPANY NAME Bairns & Williamson Oil Co., Inc. 435 Page Court.

ADDRESS H. Roth #1 220 W Douglas

LEASE AND WELL NO. Roth #1 COUNTY Sumner STATE Kan Sec. 335 Twp 24

Mail Invoice To Same No. Copies Requested 1

Mail Charts To Same No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3370 ft. to 3385 ft. Total Depth 3385 ft.

Packer Depth 3370 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 3385 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3370 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3379 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Co. Looos #3 Drill Collar Length 310 I. D. \_\_\_\_\_ in.

Mud Type chem Viscosity 37 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 93 Water Loss 12.6 cc. Drill Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Chlorides 4500 P.P.M. Test Tool Length 24 ft. Tool Size 5-1/2 in.

Jars: Make NO Serial Number \_\_\_\_\_ Anchor Length 15 ft. Size 5-1/2 in.

Did Well Flow? NO Reversed Out \_\_\_\_\_ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

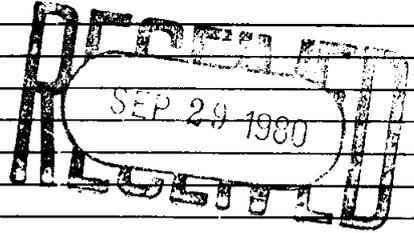
Blow: Weak blow throughout first flow, weak blow second flow period

Weak blow throughout test

Recovered 450 ft. of muddy salt water

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_



Time On Location 8:00 A.M. Time Pick Up Tool 8:30 P.M. Time Off Location \_\_\_\_\_ A.M.

Time Set Packer(s) 10:00 A.M. Time Started Off Bottom 11:00 A.M. Maximum Temperature 121 P.M.

Initial Hydrostatic Pressure (A) 1681 P.S.I.

Initial Flow Period Minutes 30 (B) 84 P.S.I. to (C) 158 P.S.I.

Initial Closed In Period Minutes 45 (D) 1337 P.S.I.

Final Flow Period Minutes 75 (E) 201 P.S.I. to (F) 222 P.S.I.

Final Closed In Period Minutes 60 (G) 1327 P.S.I.

Final Hydrostatic Pressure (H) 1681 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 John R. Rose  
Signature of Customer or his authorized representative

Western Representative Kenny Kurbendall

### FIELD INVOICE

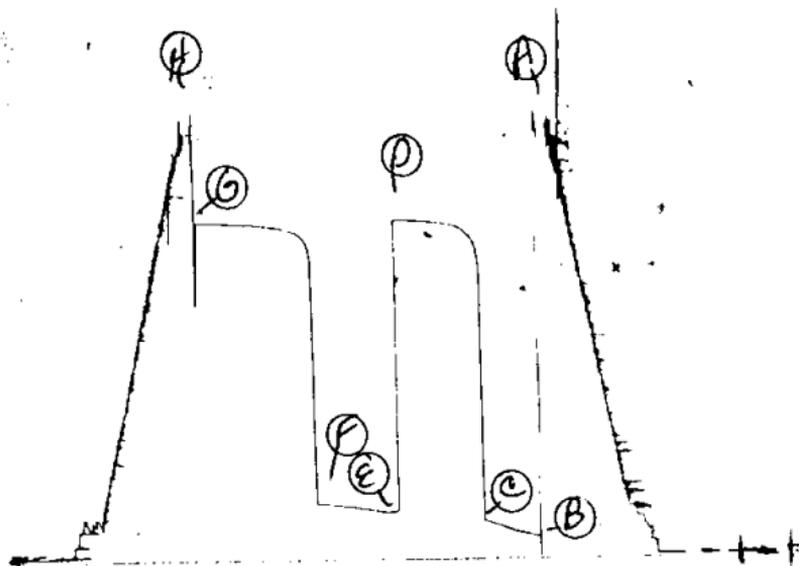
<del>Open Hole Test</del>	\$ <u>550.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
<u>Safety Joint</u>	\$ <u>50.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
<u>Mileage</u>	\$ <u>49.50</u>
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
TOTAL	\$ <u>649.50</u>
	<u>1,495.00</u>

3.75  
66  
450  
450  
2950

JKT # 1727

2405

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WESTERN TESTING CO., INC.

Pressure Data

Date 9-24-80 Test Ticket No. 7729  
 Recorder No. 2605 Capacity 4150 Location 3370 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1214 KB Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1678</u>	P.S.I.	<u>10:00 A.M.</u>	
B First Initial Flow Pressure	<u>80</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>148</u>	P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1338</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>189</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>219</u>	P.S.I.		
G Final Closed-in Pressure	<u>1335</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1678</u>	P.S.I.		

PRESSURE BREAKDOWN

<p>First Flow Pressure                  Breakdown: <u>6</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p>Initial Shut-In                  Breakdown: <u>16</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p>Second Flow Pressure                  Breakdown: <u>9</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p>Final Shut-In                  Breakdown: <u>22</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>80</u>	0	<u>148</u>	0	<del>148</del> <u>189</u>	0	<u>219</u>
P 2 5	<u>93</u>	3	<u>1198</u>	5	<u>186</u>	3	<u>915</u>
P 3 10	<u>104</u>	6	<u>1253</u>	10	<u>186</u>	6	<u>1238</u>
P 4 15	<u>114</u>	9	<u>1275</u>	15	<u>197</u>	9	<u>1270</u>
P 5 20	<u>129</u>	12	<u>1296</u>	20	<u>203</u>	12	<u>1288</u>
P 6 25	<u>143</u>	15	<u>1309</u>	25	<u>209</u>	15	<u>1299</u>
P 7 30	<u>148</u>	18	<u>1316</u>	30	<u>212</u>	18	<u>1306</u>
P 8 35		21	<u>1321</u>	35	<u>216</u>	21	<u>1313</u>
P 9 40		24	<u>1324</u>	40	<u>218</u>	24	<u>1317 + 300</u>
P10 45		27	<u>1327</u>	45	<u>219</u>	27	<u>1319</u>
P11 50		30	<u>1328</u>	50		30	<u>1320</u>
P12 55		33	<u>1329</u>	55		33	<u>1323</u>
P13 60		36	<u>1331</u>	60		36	<u>1324</u>
P14		39	<u>1333</u>	65		39	<u>1325</u>
P15		42	<u>1335</u>	70		42	<u>1326</u>
P16		45	<u>1337</u>	75		45	<u>1327</u>
P17		48	<u>1338</u>	80		48	<u>1329</u>
P18		51		85		51	<u>1331</u>
P19		54		90		54	<u>1332</u>
P20		57				57	<u>1333</u>
		60				60	<u>1334</u>
						63	<u>1335</u>
						61	<u>1335</u>

Company Rains & Williamson Oil Company, Inc. Lease & Well No. H. Roth #1  
 Elevation 1214 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 772  
 Date 9/24/80 Sec. 8 Twp. 33S Range 2W County Sumner State Kansas  
 Test Approved by John R. Rose Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3370 ft. to 3385 ft. Total Depth 3385 ft.  
 Packer Depth 3370 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3365 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3375 ft. Recorder Number 2605 Cap. 4150  
 Bottom Recorder Depth (Outside) 3379 ft. Recorder Number 10980 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 310 I. D. - in.  
 Mud Type chemical Viscosity 37 Weight Pipe Length - I. D. - in.  
 Weight 9.3 Water Loss 12.6 cc. Drill Pipe Length - I. D. - in.  
 Chlorides 4,500 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.  
 Bars: Make No Serial Number - Anchor Length 15 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out - 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.

Flow: Weak blow throughout test.

Recovered 450 ft. of muddy salt water  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 11:00 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 121°  
 Initial Hydrostatic Pressure ..... (A) 1678 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 80 P.S.I. to (C) 148 P.S.I.  
 Initial Closed In Period ..... Minutes 48 (D) 1338 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 189 P.S.I. to (F) 219 P.S.I.  
 Final Closed In Period ..... Minutes 66 (G) 1335 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1678 P.S.I.

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

Date 9-24-80 Test Ticket No. 7729  
 Recorder No. 2605 Capacity 4150 Location 3370 Ft.  
 Clock No. ----- Elevation 1214 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1678</u> P.S.I.	Open Tool	<u>10:00 AM</u>	
B First Initial Flow Pressure	<u>80</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>148</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1338</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>189</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>66</u> Mins.
F Second Final Flow Pressure	<u>219</u> P.S.I.			
G Final Closed-in Pressure	<u>1335</u> P.S.I.			
H Final Hydrostatic Mud	<u>1678</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>22</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 <u>0</u>	<u>80</u>	<u>0</u>	<u>148</u>	<u>0</u>	<u>189</u>	<u>0</u>	<u>219</u>
P 2 <u>5</u>	<u>93</u>	<u>3</u>	<u>1198</u>	<u>5</u>	<u>186</u>	<u>3</u>	<u>915</u>
P 3 <u>10</u>	<u>104</u>	<u>6</u>	<u>1253</u>	<u>10</u>	<u>186</u>	<u>6</u>	<u>1238</u>
P 4 <u>15</u>	<u>114</u>	<u>9</u>	<u>1275</u>	<u>15</u>	<u>197</u>	<u>9</u>	<u>1270</u>
P 5 <u>20</u>	<u>129</u>	<u>12</u>	<u>1296</u>	<u>20</u>	<u>203</u>	<u>12</u>	<u>1288</u>
P 6 <u>25</u>	<u>142</u>	<u>15</u>	<u>1309</u>	<u>25</u>	<u>209</u>	<u>15</u>	<u>1299</u>
P 7 <u>30</u>	<u>148</u>	<u>18</u>	<u>1316</u>	<u>30</u>	<u>212</u>	<u>18</u>	<u>1306</u>
P 8 _____	_____	<u>21</u>	<u>1321</u>	<u>35</u>	<u>216</u>	<u>21</u>	<u>1313</u>
P 9 _____	_____	<u>24</u>	<u>1324</u>	<u>40</u>	<u>218</u>	<u>24</u>	<u>1317</u>
P10 _____	_____	<u>27</u>	<u>1327</u>	<u>45</u>	<u>219</u>	<u>27</u>	<u>1319</u>
P11 _____	_____	<u>30</u>	<u>1328</u>	_____	_____	<u>30</u>	<u>1320</u>
P12 _____	_____	<u>33</u>	<u>1329</u>	_____	_____	<u>33</u>	<u>1323</u>
P13 _____	_____	<u>36</u>	<u>1331</u>	_____	_____	<u>36</u>	<u>1324</u>
P14 _____	_____	<u>39</u>	<u>1333</u>	_____	_____	<u>39</u>	<u>1325</u>
P15 _____	_____	<u>42</u>	<u>1335</u>	_____	_____	<u>42</u>	<u>1326</u>
P16 _____	_____	<u>45</u>	<u>1337</u>	_____	_____	<u>45</u>	<u>1327</u>
P17 _____	_____	<u>48</u>	<u>1338</u>	_____	_____	<u>48</u>	<u>1329</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1331</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1332</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1333</u>
						<u>60</u>	<u>1334</u>
						<u>63</u>	<u>1335</u>
						<u>66</u>	<u>1335</u>



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No. 7701

P. O. BOX 1599 WICHITA, KANSAS 67201  
PHONE (316) 262-5861

Elevation 1214 KB Formation Kansas City Eff. Pay Ft.

District Augusta Date 9-25-80 Customer Order No. -

COMPANY NAME Rains & Williamson Oil Co. Inc.

ADDRESS 435 Page Court, West Douglas Wichita, Ks. 67202

LEASE AND WELL NO. Roth #1 COUNTY SUMNER STATE KS. Sec 8 Twp 33S Rge 2W

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3414 ft. to 3456 ft. Total Depth 3456 ft.

Packer Depth 3409 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3414 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3419 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 3450 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Rains & Williamson Drill Collar Length 270 I. D. 2 1/4 in.

Mud Type Chem. Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 12.6 cc. Drill Pipe Length 3145 I. D. 3.8 in.

Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 in. 00

Jars: Make NO Serial Number - Anchor Length 42 ft. Size 4 1/2 in. PD.

Did Well Flow? NO Reversed Out NO 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 XH in.

Blow: Weak down 35 minutes

Recovered 50 ft. of Slight gas cut, TRACE of oil and mud

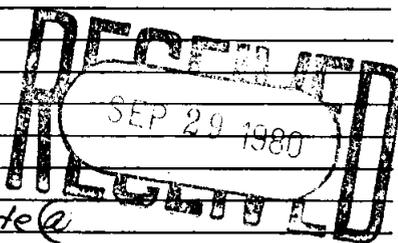
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



ON Loc 1:00 AM Pick up tool 2:00 AM Job complete @

Time On Location 1:00 A.M. Time Pick Up Tool 2:00 A.M. Time Off Location 10:30 A.M.

Time Set Packer(s) 5:45 A.M. Time Started Off Bottom 7:45 A.M. Maximum Temperature 116

Initial Hydrostatic Pressure (A) 1665 P.S.I.

Initial Flow Period Minutes 30 (B) 20 P.S.I. to (C) 30 P.S.I.

Initial Closed In Period Minutes 30 (D) 430 P.S.I.

Final Flow Period Minutes 30 (E) 50 P.S.I. to (F) 50 P.S.I.

Final Closed In Period Minutes 30 (G) 145 P.S.I.

Final Hydrostatic Pressure (H) 1665 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 John R. Roe  
Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$ 99.50
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
TOTAL	\$ 599.50

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

Date 9-25 Test Ticket No. 7701  
 Recorder No. 3354 Capacity 4260 Location 3419 Ft.  
 Clock No.            Elevation 1214 AD Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1663</u>	P.S.I.	<u>5:45</u> A	M
B First Initial Flow Pressure	<u>16</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>24</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>432</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>51</u>	P.S.I.		
G Final Closed-in Pressure	<u>122</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1663</u>	P.S.I.		

**PRESSURE BREAKDOWN**

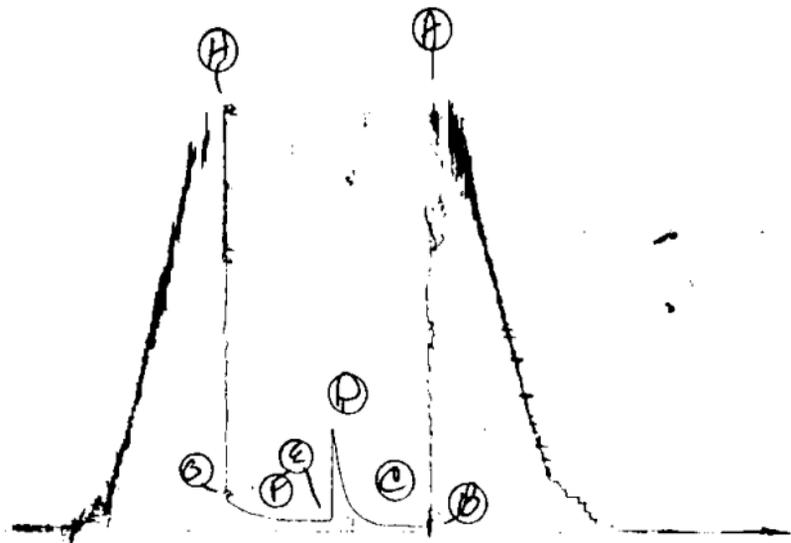
<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>9</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	<u>0</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>
P 2	<u>5</u>	<u>3</u>	<u>40</u>	<u>5</u>		<u>3</u>	<u>55</u>
P 3	<u>10</u>	<u>6</u>	<u>51</u>	<u>10</u>		<u>6</u>	<u>59</u>
P 4	<u>15</u>	<u>9</u>	<u>61</u>	<u>15</u>		<u>9</u>	<u>65</u>
P 5	<u>20</u>	<u>12</u>	<u>80</u>	<u>20</u>		<u>12</u>	<u>70</u>
P 6	<u>25</u>	<u>15</u>	<u>112</u>	<u>25</u>		<u>15</u>	<u>74</u>
P 7	<u>30</u>	<u>18</u>	<u>162</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>82</u>
P 8	<u>35</u>	<u>21</u>	<u>245</u>	<u>35</u>		<u>21</u>	<u>93</u>
P 9	<u>40</u>	<u>24</u>	<u>363</u>	<u>40</u>		<u>24</u>	<u>106</u>
P10	<u>45</u>	<u>27</u>	<u>432</u>	<u>45</u>		<u>27</u>	<u>122</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>		<u>30</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>	

Qkt # 770.1

I

335.8



Rains & Williamson Oil Co., Inc.

H. Roth #1

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_

Elevation 1214 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 7701

Date 9/25/80 Sec. 8 Twp. 33S Range 2W County Summer State Kansas

Test Approved by John R. Rose Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 3414 ft. to 3456 ft. Total Depth 3456 ft.

Packer Depth 3409 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3414 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3419 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 3450 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Rains & Williamson Drlg. Co. Drill Collar Length 270 I. D. 2 1/2 in.

Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 12.6 cc. Drill Pipe Length 3145 I. D. 3.8 in.

Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 OD in.

Jars: Make NO Serial Number - Anchor Length 42 ft. Size 4 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 blow for thirty-five minutes.

Recovered 50 ft. of slight gas cut, trace of oil and mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 5:45 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 7:45 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 116°

Initial Hydrostatic Pressure (A) 1663 P.S.I.

Initial Flow Period (B) 30 Minutes (C) 16 P.S.I. to (D) 24 P.S.I.

Initial Closed In Period (E) 27 Minutes (F) 422 P.S.I.

Final Flow Period (G) 30 Minutes (H) 51 P.S.I. to (I) 51 P.S.I.

Final Closed In Period (J) 27 Minutes (K) 122 P.S.I.

Final Hydrostatic Pressure (L) 1663 P.S.I.

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

Date 9-25-80

Test Ticket No. 7701

Recorder No. 3354 Capacity 4200

Location 3419 Ft.

Clock No. - Elevation 1214 Kelly Bushing

Well Temperature 116 °F

Point	Pressure	P.S.I.		Time Given	Time Computed
				M	M
A Initial Hydrostatic Mud	1663	P.S.I.	Open Tool	5:45A.	
B First Initial Flow Pressure	16	P.S.I.	First Flow Pressure	30 Mins	30 Mins
C First Final Flow Pressure	24	P.S.I.	Initial Closed-in Pressure	30 Mins	27 Mins
D Initial Closed-in Pressure	422	P.S.I.	Second Flow Pressure	30 Mins	30 Mins
E Second Initial Flow Pressure	51	P.S.I.	Final Closed-in Pressure	30 Mins	27 Mins
F Second Final Flow Pressure	51	P.S.I.			
G Final Closed-in Pressure	122	P.S.I.			
H Final Hydrostatic Mud	1663	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: 9 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>0</u>	<u>16</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>16</u>	<u>3</u>	<u>40</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>55</u>
P 3 <u>10</u>	<u>23</u>	<u>6</u>	<u>51</u>	<u>10</u>	<u>51</u>	<u>6</u>	<u>59</u>
P 4 <u>15</u>	<u>24</u>	<u>9</u>	<u>61</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>65</u>
P 5 <u>20</u>	<u>24</u>	<u>12</u>	<u>80</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>70</u>
P 6 <u>25</u>	<u>24</u>	<u>15</u>	<u>112</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>74</u>
P 7 <u>30</u>	<u>24</u>	<u>18</u>	<u>162</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>82</u>
P 8 _____	_____	<u>21</u>	<u>245</u>	_____	_____	<u>21</u>	<u>93</u>
P 9 _____	_____	<u>24</u>	<u>363</u>	_____	_____	<u>24</u>	<u>106</u>
P10 _____	_____	<u>27</u>	<u>422</u>	_____	_____	<u>27</u>	<u>122</u>
P11 _____	_____	_____	_____	_____	_____	_____	_____
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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

WESTERN TESTING CO., INC.

FORMATION TESTING

Kelly Bushing

TICKET No. 6704  
Kansas City

Elevation 1214 RFB Formation R.C. Eff. Pay Ft.

District Wichita Date 9-26-80 Customer Order No. \_\_\_\_\_  
COMPANY NAME Rains & Williams Oil Co. Inc.  
ADDRESS 435 Page Court West Hays, Kansas 67701  
LEASE AND WELL NO. H. Roth #1 COUNTY \_\_\_\_\_ STATE Ks Sec. 8 Twp 38 Rge 22 #K  
Mail Invoice To \_\_\_\_\_ No. Copies Requested 1  
Co. Name \_\_\_\_\_ Address \_\_\_\_\_  
Mail Charts To \_\_\_\_\_ No. Copies Requested 5  
Address \_\_\_\_\_

Formation Test No. 3 Interval Tested from 3469 ft. to 3505 ft. Total Depth 3571 ft.  
Packer Depth 3469 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3505 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3487 ft. Recorder Number 1559 Cap. 4200  
Bottom Recorder Depth (Outside) 3490 ft. Recorder Number 5530 Cap. 3950  
Below Straddle Recorder Depth 3567 ft. Recorder Number 2774 Cap. 4300

Drilling Contractor R. & W. #3 Drill Collar Length 270 I. D. 2 1/4 in.  
Mud Type Chem Viscosity 56 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Weight 9.1 Water Loss 18.8 cc. Drill Pipe Length 3134 I. D. 3.8 in.  
Chlorides 15,000 P.P.M. Test Tool Length 117 ft. Tool Size 5500 DP in.  
Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 36 ft. Size 5200 in.  
Did Well Flow? No Reversed Out No Surface Choke Size \_\_\_\_\_ in. Bottom Choke Size 3 1/2 in.  
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 X H in.

Blow: Very weak 30 minutes - Very weak intermittent 30 mins on EFP final flow period

Recovered \_\_\_\_\_ ft. of No fluid recovered - Dropped tool on second stand from surface  
Recovered \_\_\_\_\_ ft. of coming out of hole w/ test  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Damaged Recorder #2774  
Damaged top Packer.

Operation 2:30 PM 9-26-80 Pick up 4:00 PM Job complete @ 4:00 AM 9-27-80

Time Set Packer(s) <u>6:00</u> P.M.	Time Started Off Bottom <u>8:30</u> P.M.	Maximum Temperature <u>117</u>
Initial Hydrostatic Pressure (A) <u>1685</u> P.S.I.	Initial Flow Period (B) <u>30</u> Minutes (C) <u>30</u> P.S.I.	
Initial Closed In Period (D) <u>45</u> Minutes (E) <u>470</u> P.S.I.	Final Flow Period (F) <u>30</u> Minutes (G) <u>40</u> P.S.I.	
Final Closed In Period (H) <u>45</u> Minutes (I) <u>85</u> P.S.I.	Final Hydrostatic Pressure (J) <u>1660</u> P.S.I.	

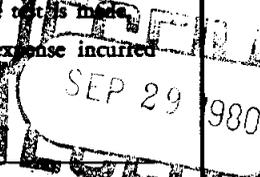
COMPANY TERMS

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 John Rose John Rose  
Signature of Customer or his authorized representative  
Western Representative Roman Allen Wynny Wize

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ _____
Straddle Test	\$ <u>250.00</u>
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
66 Mileage	\$ <u>495.00</u>
Fluid Sampler	\$ _____
Extra Charts	\$ _____
<b>TOTAL</b>	\$ <u>849.50</u>



# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-26 Test Ticket No. 6704  
 Recorder No. 1559 Capacity 4200 Location 3487 Ft.  
 Clock No.        Elevation 1214 KB Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1679</u>	P.S.I.	<u>6:00 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>23</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>23</u>	P.S.I.	<u>42</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>475</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>52</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>37</u>	P.S.I.		
G Final Closed-in Pressure	<u>80</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1652</u>	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: 14 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.

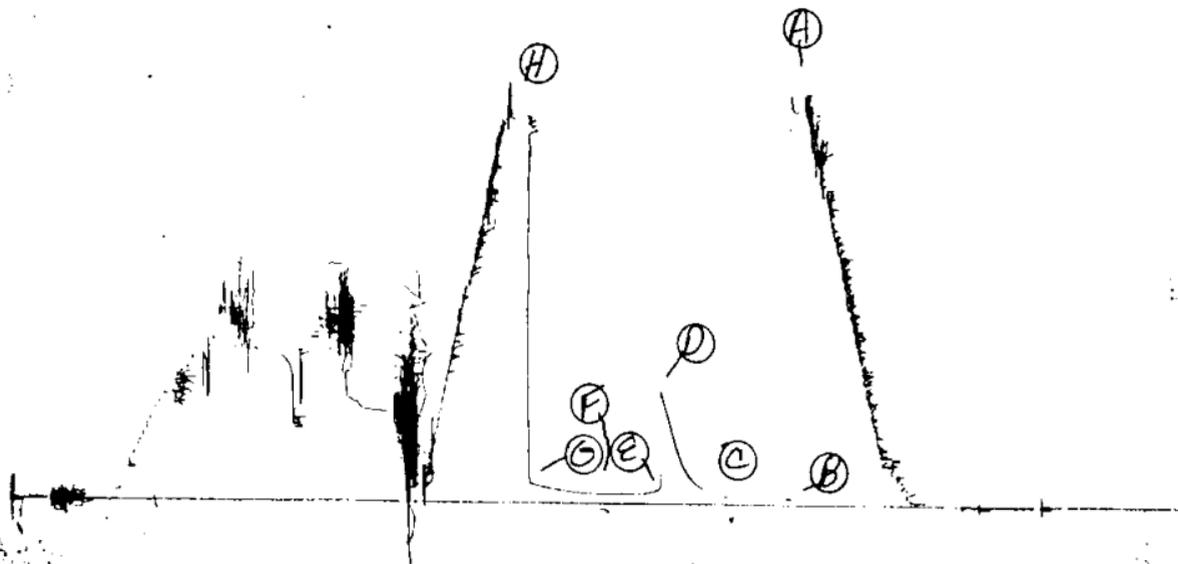
Final Shut-In  
 Breakdown: 15 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>23</u>	0	<u>23</u>	0	<u>52</u>	0	<u>37</u>
P 2 5		3	<u>23</u>	5	<u>44</u>	3	
P 3 10		6	<u>26</u>	10	<u>37</u>	6	
P 4 15		9	<u>42</u>	15		9	
P 5 20		12	<u>48</u>	20		12	<u>37</u>
P 6 25		15	<u>61</u>	25		15	<u>42</u>
P 7 30	<u>33</u>	18	<u>72</u>	30	<u>37</u>	18	<u>47</u>
P 8 35		21	<u>89</u>	35		21	<u>48</u>
P 9 40		24	<u>113</u>	40		24	<u>52</u>
P10 45		27	<u>152</u>	45		27	<u>54</u>
P11 50		30	<u>199</u>	50		30	<u>58</u>
P12 55		33	<u>268</u>	55		33	<u>61</u>
P13 60		36	<u>343</u>	60		36	<u>66</u>
P14		39	<u>420</u>	65		39	<u>71</u>
P15		42	<u>475</u>	70		42	<u>75</u>
P16		45		75		45	<u>80</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

SKT #6704

I

1559



JK #6704

Below Straddle



Company Rains & Williamson Oil Co., Inc. Lease & Well No. H. Roth #1  
 Elevation 1214 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 6704  
 Date 9/26/80 Sec. 8 Twp. 33S Range 2W County Sumner State Kansas  
 Test Approved by John Rose Western Representative Norman Allen-Wim Weir

Formation Test No. 3 Interval Tested from 3469 ft. to 3505 ft. Total Depth 3505 ft.  
 Packer Depth 3469 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3505 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3487 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 3490 ft. Recorder Number 5666 Cap. 3950  
 Below Straddle Recorder Depth 3567 ft. Recorder Number 2774 Cap. 4300

Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 270 I. D. 2 1/4 in.  
 Mud Type chemical Viscosity 56 Weight Pipe Length - I. D. - in.  
 Weight 9.1 Water Loss 18.8 cc. Drill Pipe Length 3184 I. D. 3.8 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 117 ft. Tool Size 5 1/2 OD & DP in.  
 Jars: Make - Serial Number - Anchor Length 36 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 x h in.

Blow: Very weak blow for thirty minutes of initial flow period. Very weak intermittent blow for thirty minutes on final flow period.

Recovered -- ft. of No fluid recovery. dropped tool on second stand from surface coming out  
 Recovered - ft. of of hole with test.  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: Damaged Recorder #2774  
Damaged top packer

Time Set Packer(s) 6:00 ~~A.M.~~ P.M. Time Started Off Bottom 8:30 ~~A.M.~~ P.M. Maximum Temperature 117°  
 Initial Hydrostatic Pressure (A) 1679 P.S.I.  
 Initial Flow Period Minutes 30 (B) 23 P.S.I. to (C) 23 P.S.I.  
 Initial Closed In Period Minutes 42 (D) 475 P.S.I.  
 Final Flow Period Minutes 30 (E) 52 P.S.I. to (F) 37 P.S.I.  
 Final Closed In Period Minutes 45 (G) 80 P.S.I.  
 Final Hydrostatic Pressure (H) 1652 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-26-80 Test Ticket No. 6704  
 Recorder No. 1559 Capacity 4200 Location 3487 Ft.  
 Clock No. ----- Elevation 1214 Kelly Bushing Well Temperature 117 °F

Point	Pressure			Time	
		P.S.I.		Given	Computed
A Initial Hydrostatic Mud	1679	P.S.I.	Open Tool	6:00	P M
B First Initial Flow Pressure	23	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	23	P.S.I.	Initial Closed-in Pressure	45	Mins. 42 Mins.
D Initial Closed-in Pressure	475	P.S.I.	Second Flow Pressure	30	Mins. 30 Mins.
E Second Initial Flow Pressure	52	P.S.I.	Final Closed-in Pressure	45	Mins. 45 Mins.
F Second Final Flow Pressure	37	P.S.I.			
G Final Closed-in Pressure	80	P.S.I.			
H Final Hydrostatic Mud	1652	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.
	6		14		6		15	
	of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	23	0	23	0	52	0	37	
P 2 5	23	3	32	5	44	3	37	
P 3 10	23	6	36	10	37	6	37	
P 4 15	23	9	42	15	37	9	37	
P 5 20	23	12	48	20	37	12	37	
P 6 25	23	15	61	25	37	15	43	
P 7 30	23	18	72	30	37	18	47	
P 8		21	89			21	48	
P 9		24	113			24	52	
P10		27	152			27	54	
P11		30	199			30	58	
P12		33	268			33	61	
P13		36	343			36	66	
P14		39	420			39	71	
P15		42	475			42	75	
P16						45		
P17								
P18								
P19								
P20								