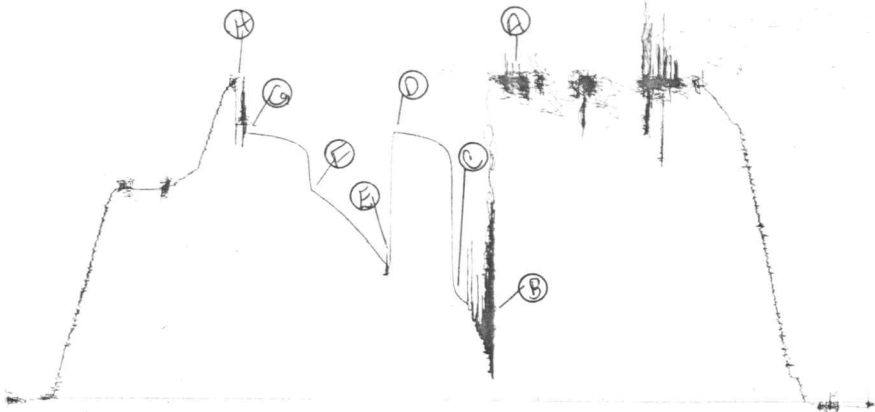


2604

TKT # 23437  
I.





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

Company The National Oil Company Lease & Well No. Hayter #1  
Elevation 1298 Kelly Bush. Formation Stalnaker Effective Pay - Ft. Ticket No. 23437  
Date 2-20-78 Sec. 25 Twp. 33S Range 6W County Harper State Kansas  
Test Approved by R.B. Jinkins Western Representative Rod Tritt  
Formation Test No. 1 O.K.  Misrun  Interval Tested From 3475' to 3530' Total Depth 3530'  
Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Top Packer Depth 3470 Ft. Size 6 1/2OD Bottom Packer Depth 3475 Ft. Size 6 1/2OD  
Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -  
Tool Size 5 1/2OD Tool Joint Size 4 1/2FH Anchor Length 55 Ft. Size 5 1/2OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
RECORDERS Depth 3476 Ft. Clock No. 19617 Depth 3479 Ft. Clock No. 6894  
Top Make Kuster Cap. 4150 No. 2606 Inside Bottom Make Kuster Cap. 4150 No. 2606 Outside  
Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Outside  
Time Set Packer 9:50P. M  
Tool Open I.F.P. From 9:50P M. to 10:20P M. - Hr. 30 Min. From (B) 112 P.S.I. To (C) 596 P.S.I.  
Tool Closed I.C.I.P. From 10:20P M. to 11:05P M. - Hr. 45 Min (D) 1457 P.S.I.  
Tool Open F.F.P. From 11:05P M. to 12:05A M. - Hr. 60 Min. From (E) 736 P.S.I. To (F) 1140 P.S.I.  
Tool Closed F.C.I.P. From 12:05A M. to 12:50A M. - Hr. 45 Min. (G) 1446 P.S.I.  
Initial Hydrostatic Pressure (A) 1720 P.S.I. Final Hydrostatic Pressure (H) 1720 P.S.I. Maximum Temp. 140

#### INFORMATION

BLOW Strong blow throughout initial flow period. Strong blow on final flow period. Gas  
to surface in 45 minutes, see attached sheet for gas measurements.  
Did Well Flow  Yes  No Recovery Total Fr. 2440' of water cut mud and salt water. No oil show.  
Chlorides checked: 140,000 PPM

Reversed Out  Yes  No Mud Type Starch Viscosity 37 Weight 9.4 Water Loss 11.6 cc. Chlorides 27,000 PPM  
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 Graves Drilling Length Drill Pipe? 2756 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2FH In.  
Length Weight Pipe 670 Ft. I.D. Weight Pipe 2-3/8 Tool Joint Size 4 1/2XH In. Length Drill Collars 55 Ft. I.D. Drill Collars 2 1/4 In.  
Tool Joint Size 4 1/2H-90 In. Length D.S.T. Tool 45 Ft.

Remarks: Slid tool approx. 10' to 12' to bottom. Reversed salt water into pit.  
Spudded 25'.



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

**GAS FLOW REPORT**

Date 2-20-78 Ticket 23437 Company The National Oil Company  
 Well Name and No. Hayter #1 Dst No. 1 Interval Tested 3475' - 3530'  
 County Harper State Kansas Sec. 25 Twp. 33S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitor Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
<b>PRE FLOW</b>						
9:50PM	Tool opened, strong blow, no gas to surface.					

<b>SECOND FLOW</b>						
11:05PM						Tool open
11:20PM	15 min.	3" of water	1/2" orifice			10,900 C.F.P.D.
11:30PM	25 min.	4" of water	1/2" orifice			12,900 C.F.P.D.
11:40PM	35 min.	5" of water	1/2" orifice			14,100 C.F.P.D.
11:50PM	45 min.	5" of water	1/2" orifice			14,100 C.F.P.D.
12:00AM	55 min.	4" of water	1/2" orifice			12,900 C.F.P.D.
12:05AM	60 min.	3" of water	1/2" orifice			10,900 C.F.P.D.

**GAS BOTTLE**

Serial No. 624 Date Bottle Filled 2-20-78 Date to be Invoiced 2-20-78

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 The National Oil Company  
 Authorized by R.B. Jinkins

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 2-20-78 Test Ticket No. 23437  
 Recorder No. 2604 Capacity 4150 Location 3476 Ft.  
 Clock No. 19617 Elevation 1298 Kelly Bushing Well Temperature 140 °F

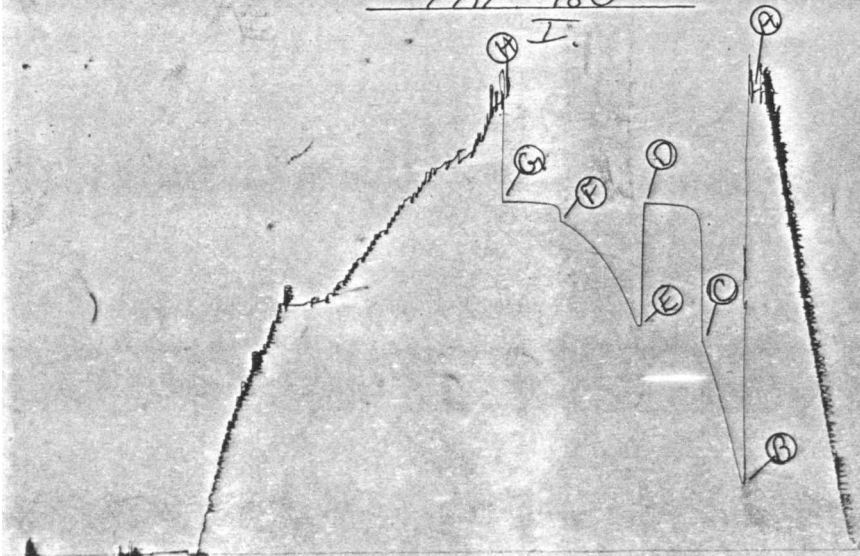
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1720</u> P.S.I.	Open Tool	<u>9:50P</u> M	
B First Initial Flow Pressure	<u>112</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>596</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1457</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>736</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>1140</u> P.S.I.			
G Final Closed-in Pressure	<u>1446</u> P.S.I.			
H Final Hydrostatic Mud	<u>1720</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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>112</u>	<u>0</u>	<u>596</u>	<u>0</u>	<u>736</u>	<u>0</u>	<u>1140</u>
P 2 <u>5</u> plugging action		<u>3</u>	<u>1033</u>	<u>5</u>	<u>757</u>	<u>3</u>	<u>1282</u>
P 3 <u>10</u> plugging action		<u>6</u>	<u>1341</u>	<u>10</u>	<u>805</u>	<u>6</u>	<u>1360</u>
P 4 <u>15</u> plugging action		<u>9</u>	<u>1375</u>	<u>15</u>	<u>853</u>	<u>9</u>	<u>1378</u>
P 5 <u>20</u>	<u>523</u>	<u>12</u>	<u>1391</u>	<u>20</u>	<u>898</u>	<u>12</u>	<u>1394</u>
P 6 <u>25</u>	<u>561</u>	<u>15</u>	<u>1406</u>	<u>25</u>	<u>938</u>	<u>15</u>	<u>1401</u>
P 7 <u>30</u>	<u>596</u>	<u>18</u>	<u>1416</u>	<u>30</u>	<u>978</u>	<u>18</u>	<u>1410</u>
P 8		<u>21</u>	<u>1423</u>	<u>35</u>	<u>1015</u>	<u>21</u>	<u>1416</u>
P 9		<u>24</u>	<u>1430</u>	<u>40</u>	<u>1046</u>	<u>24</u>	<u>1422</u>
P10		<u>27</u>	<u>1435</u>	<u>45</u>	<u>1077</u>	<u>27</u>	<u>1427</u>
P11		<u>30</u>	<u>1441</u>	<u>50</u>	<u>1103</u>	<u>30</u>	<u>1432</u>
P12		<u>33</u>	<u>1445</u>	<u>55</u>	<u>1132</u>	<u>33</u>	<u>1436</u>
P13		<u>36</u>	<u>1448</u>	<u>60</u>	<u>1140</u>	<u>36</u>	<u>1438</u>
P14		<u>39</u>	<u>1452</u>			<u>39</u>	<u>1441</u>
P15		<u>42</u>	<u>1455</u>			<u>42</u>	<u>1444</u>
P16		<u>45</u>	<u>1457</u>			<u>45</u>	<u>1446</u>
P17							
P18							
P19							
P20							

TK# 180

I.





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

Company The National Oil Company      Lease & Well No. #1 Wayter  
 Elevation 1298 Kelly Bushing      Formation Simpson      Effective Pay -      Ft.      Ticket No. 180  
 Date 2-27-78      Sec. 25      Twp. 33S      Range 6W      County Harper      State Kansas  
 Test Approved by Clyde Kuhn & Everett Kimball      Western Representative Tim Wilson

Formation Test No. 2      Interval Tested from 4819      ft. to 4851      ft.      Total Depth 4851      ft.  
 Packer Depth 4814      ft.      Size 6 3/4 in.      Packer Depth -      ft.      Size - in.  
 Packer Depth 4819      ft.      Size 6 3/4 in.      Packer Depth -      ft.      Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside)      4843      ft.      Recorder Number 1559      Cap. 4200  
 Bottom Recorder Depth (Outside)      4846      ft.      Recorder Number 1561      Cap. 3200  
 Below Straddle Recorder Depth      -      ft.      Recorder Number -      Cap. -

Drilling Contractor Graves Drilling Co., Rig #1      Drill Collar Length 93      I. D. 2 1/4 in.  
 Mud Type Starch      Viscosity 49      Weight Pipe Length 240      I. D. 2 3/8 in.  
 Weight 9.4      Water Loss 10.0 cc.      Drill Pipe Length 4467      I. D. 3.8 in.  
 Chlorides 24,000      P.P.M.      Test Tool Size 5 1/2 OD in.      Tool Joint Size 4 1/2 FH in.  
 Jars: Make -      Serial Number -      Anchor Length 32 ft.      Size 5 1/2 OD in.  
 Did Well Flow? -      Reversed Out -      Surface Choke Size 3/4 in.      Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in.

Blow: Strong blow throughout test

Recovered 4310 ft. of Fluid, gas & oil cut mud & gas & oil cut salt water.  
 Recovered - ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Reversed out.

Time Set Packer(s) 4:13 A.M.      Time Started Off Bottom 7:15 P.M.      Maximum Temperature 146  
 Initial Hydrostatic Pressure ..... (A) 2467 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 364 P.S.I. to (C) 1134 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1881 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 1222 P.S.I. to (F) 1787 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 1890 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2414 P.S.I.

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

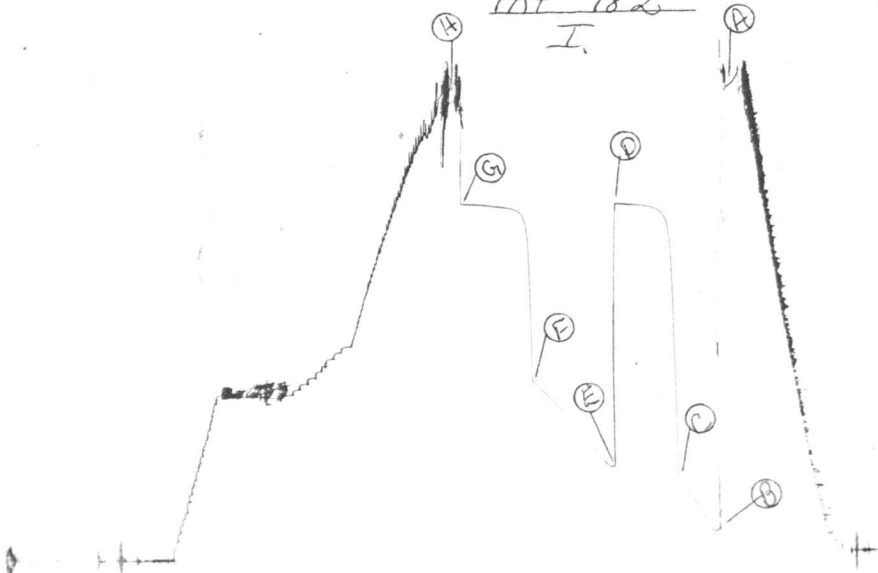
Date 2-27-78 Test Ticket No. 180  
 Recorder No. 1559 Capacity 4200 Location 4843 Ft.  
 Clock No. - Elevation 1298 Kelly Bushing Well Temperature 146 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2467</u> P.S.I.	Open Tool	<u>4:13</u> A M	
B First Initial Flow Pressure	<u>364</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>1134</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1881</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1222</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>1787</u> P.S.I.			
G Final Closed-in Pressure	<u>1890</u> P.S.I.			
H Final Hydrostatic Mud	<u>2414</u> P.S.I.			

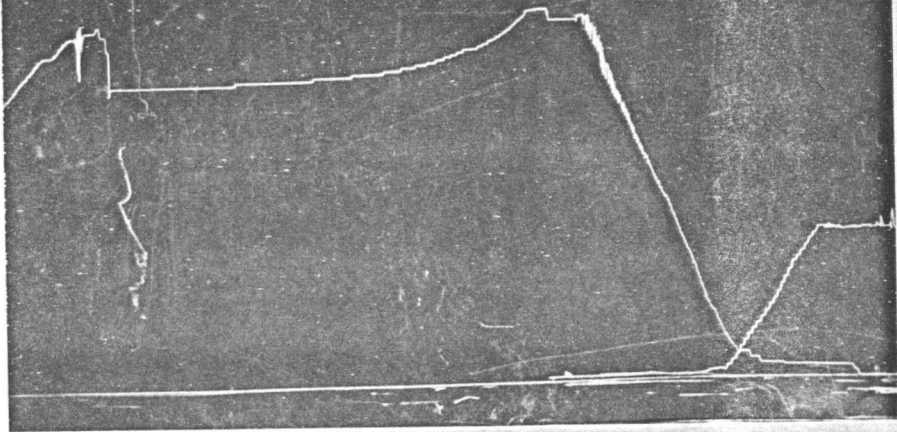
**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>14</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>364</u>	<u>0</u>	<u>1134</u>	<u>0</u>	<u>1222</u>	<u>0</u>	<u>1787</u>
P 2 <u>5</u>	<u>471</u>	<u>3</u>	<u>1802</u>	<u>5</u>	<u>1270</u>	<u>3</u>	<u>1867</u>
P 3 <u>10</u>	<u>626</u>	<u>6</u>	<u>1839</u>	<u>10</u>	<u>1354</u>	<u>6</u>	<u>1877</u>
P 4 <u>15</u>	<u>763</u>	<u>9</u>	<u>1854</u>	<u>15</u>	<u>1431</u>	<u>9</u>	<u>1881</u>
P 5 <u>20</u>	<u>898</u>	<u>12</u>	<u>1862</u>	<u>20</u>	<u>1498</u>	<u>12</u>	<u>1884</u>
P 6 <u>25</u>	<u>1023</u>	<u>15</u>	<u>1867</u>	<u>25</u>	<u>1558</u>	<u>15</u>	<u>1885</u>
P 7 <u>30</u>	<u>1134</u>	<u>18</u>	<u>1869</u>	<u>30</u>	<u>1606</u>	<u>18</u>	<u>1886</u>
P 8		<u>21</u>	<u>1870</u>	<u>35</u>	<u>1653</u>	<u>21</u>	<u>1888</u>
P 9		<u>24</u>	<u>1873</u>	<u>40</u>	<u>1690</u>	<u>24</u>	<u>1889</u>
P10		<u>27</u>	<u>1876</u>	<u>45</u>	<u>1725</u>	<u>27</u>	<u>1889</u>
P11		<u>30</u>	<u>1878</u>	<u>50</u>	<u>1754</u>	<u>30</u>	<u>1889</u>
P12		<u>33</u>	<u>1879</u>	<u>55</u>	<u>1777</u>	<u>33</u>	<u>1890</u>
P13		<u>36</u>	<u>1880</u>	<u>60</u>	<u>1787</u>	<u>36</u>	<u>1890</u>
P14		<u>39</u>	<u>1880</u>			<u>39</u>	<u>1890</u>
P15		<u>42</u>	<u>1881</u>			<u>42</u>	
P16							
P17							
P18							
P19							
P20							

TKT # 182  
I.



TK# 182.  
Below 5+rodde





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

Company The National Oil Company Lease & Well No. Hayter #1  
 Elevation 1298 Kelly Bush. Formation Simpson Effective Pay - Ft. Ticket No. 182  
 Date 3-1-78 Sec. 25 Twp. 33S Range 6W County Harper State Kansas  
 Test Approved by Clyde R. Kuhn Western Representative Tim Wilson

Formation Test No. 3 Interval Tested from 4820 ft. to 4835 ft. Total Depth 5031 ft.  
 Packer Depth 4820 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4835 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4825 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 4828 ft. Recorder Number 1561 Cap. 3200  
 Below Straddle Recorder Depth 5029 & 2 ft. Recorder Number 29 & 44 Cap. -

Drilling Contractor Graves Drilling Co. #1 Drill Collar Length 88 I. D. 2 1/4 in.  
 Mud Type Starch Viscosity 45 Weight Pipe Length 60 I. D. 2 3/8 in.  
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 4659 I. D. 3.8 in.  
 Chlorides 26,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.  
 Jars: Make - Serial Number - Anchor Length 15 ft. Size 5 1/2 OD in.  
 Did Well Flow? Yes Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in.

Blow: Strong throughout test. Gas to surface in 60 minutes. See attached sheet for gas measurements.

Recovered 180 ft. of oil and gas cut mud  
 Recovered 2130 ft. of oil and gas cut water  
 Recovered 2310 ft. of total fluid  
 Recovered        ft. of         
 Recovered        ft. of       

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

Time Set Packer(s) 7:48 ~~AM~~ P.M. Time Started Off Bottom 10:48 ~~AM~~ P.M. Maximum Temperature 148  
 Initial Hydrostatic Pressure ..... (A) 2519 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 130 P.S.I. to (C) 406 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1892 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 475 P.S.I. to (F) 936 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 1898 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2459 P.S.I.

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

Date 3-1-78 Test Ticket No. 182  
 Recorder No. 1559 Capacity 4200 Location 4825 Ft.  
 Clock No. - Elevation 1298 Kelly Bushing Well Temperature 148 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2519</u> P.S.I.	Open Tool	<u>7:48P</u> M	
B First Initial Flow Pressure	<u>130</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>406</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1892</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>475</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>936</u> P.S.I.			
G Final Closed-in Pressure	<u>1898</u> P.S.I.			
H Final Hydrostatic Mud	<u>2459</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>130</u>	<u>0</u>	<u>406</u>	<u>0</u>	<u>475</u>	<u>0</u>	<u>936</u>
P 2	<u>121</u>	<u>3</u>	<u>1169</u>	<u>5</u>	<u>483</u>	<u>3</u>	<u>1452</u>
P 3	<u>179</u>	<u>6</u>	<u>1673</u>	<u>10</u>	<u>534</u>	<u>6</u>	<u>1791</u>
P 4	<u>240</u>	<u>9</u>	<u>1812</u>	<u>15</u>	<u>583</u>	<u>9</u>	<u>1846</u>
P 5	<u>301</u>	<u>12</u>	<u>1846</u>	<u>20</u>	<u>628</u>	<u>12</u>	<u>1864</u>
P 6	<u>357</u>	<u>15</u>	<u>1863</u>	<u>25</u>	<u>672</u>	<u>15</u>	<u>1872</u>
P 7	<u>406</u>	<u>18</u>	<u>1871</u>	<u>30</u>	<u>710</u>	<u>18</u>	<u>1878</u>
P 8		<u>21</u>	<u>1878</u>	<u>35</u>	<u>750</u>	<u>21</u>	<u>1881</u>
P 9		<u>24</u>	<u>1882</u>	<u>40</u>	<u>789</u>	<u>24</u>	<u>1884</u>
P10		<u>27</u>	<u>1884</u>	<u>45</u>	<u>835</u>	<u>27</u>	<u>1886</u>
P11		<u>30</u>	<u>1886</u>	<u>50</u>	<u>873</u>	<u>30</u>	<u>1888</u>
P12		<u>33</u>	<u>1887</u>	<u>55</u>	<u>910</u>	<u>33</u>	<u>1891</u>
P13		<u>36</u>	<u>1888</u>	<u>60</u>	<u>936</u>	<u>36</u>	<u>1892</u>
P14		<u>39</u>	<u>1891</u>			<u>39</u>	<u>1895</u>
P15		<u>42</u>	<u>1892</u>			<u>42</u>	<u>1896</u>
P16		<u>45</u>	<u>1892</u>			<u>45</u>	<u>1896</u>
P17						<u>48</u>	<u>1897</u>
P18						<u>51</u>	<u>1898</u>
P19							
P20							

