

Company The Natioanl Oil Company Lease & Well No. Peck #1  
 Elevation 2101 Kelly Bushing Kansas City ----- Ft. Ticket No. 4648  
 Date 3/23/80 18 9S 18W Rooks Kansas  
 Sec. Twp. Range County State  
 Test Approved by Lawrence L. Gray Western Representative Ken Metzler

Formation Test No. 1 Interval Tested from 3456 ft. to 3490 ft. Total Depth 3490 ft.  
 Packer Depth 3451 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3456 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3481 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 3484 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 42 Weight Pipe Length 721 I. D. 2.76 in. FH  
 Weight 9.9 Water Loss 9.8 cc. Drill Pipe Length 2772 I. D. 3.8 in. FH  
 Chlorides 32,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 34 ft. Size 5 1/2 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 FH in.

Blow: Very weak blow; died in twenty-five minutes on first opening.

Recovered 10 ft. of oil cut mud (22% oil; 78% mud)  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 1:42 ~~P.M.~~ A.M. Time Started Off Bottom 3:45 ~~P.M.~~ A.M. Maximum Temperature 103°  
 Initial Hydrostatic Pressure (A) 2048 P.S.I.  
 Initial Flow Period Minutes 30 (B) 42 P.S.I. to (C) 32 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 818 P.S.I.  
 Final Flow Period Minutes 30 (E) 52 P.S.I. to (F) 35 P.S.I.  
 Final Closed In Period Minutes 30 (G) 145 P.S.I.  
 Final Hydrostatic Pressure (H) 1930 P.S.I.

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

Date 3/23/80

Test Ticket No. 4648

Recorder No. 1564

Capacity 3150

Location 3481 Ft.

Clock No. ----- Elevation \_\_\_\_\_

2101 K31ly Bushing

Well Temperature 103° °F

Point	Pressure			Time	
				Given	Computed
A	Initial Hydrostatic Mud	<u>2048</u>	P.S.I.	Open Tool	<u>1:42A</u> M
B	First Initial Flow Pressure	<u>42</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins. <u>30</u> Mins.
C	First Final Flow Pressure	<u>32</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins.
D	Initial Closed-in Pressure	<u>818</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins. <u>30</u> Mins.
E	Second Initial Flow Pressure	<u>52</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins.
F	Second Final Flow Pressure	<u>35</u>	P.S.I.		
G	Final Closed-in Pressure	<u>145</u>	P.S.I.		
H	Final Hydrostatic Mud	<u>1930</u>	P.S.I.		

**PRESSURE BREAKDOWN**

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

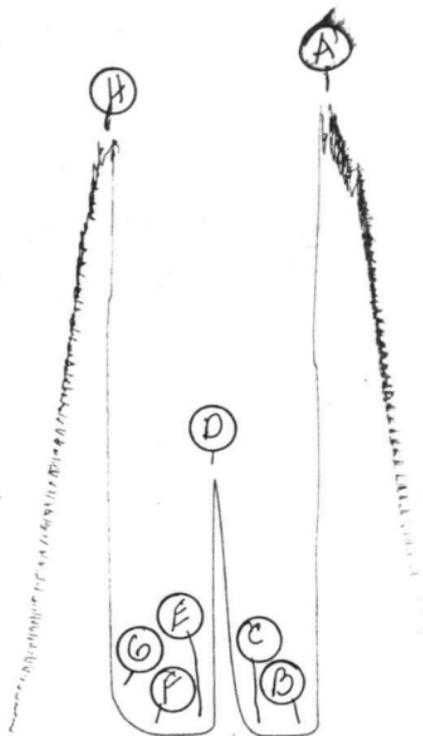
**Initial Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

**Final Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>42</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>42</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>35</u>	<u>6</u>	<u>39</u>	<u>10</u>	<u>38</u>	<u>6</u>	<u>40</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>50</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>44</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>70</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>52</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>129</u>	<u>25</u>	<u>35</u>	<u>15</u>	<u>61</u>
P 7 <u>30</u>	<u>32</u>	<u>18</u>	<u>188</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>71</u>
P 8 _____	_____	<u>21</u>	<u>327</u>	_____	_____	<u>21</u>	<u>86</u>
P 9 _____	_____	<u>24</u>	<u>538</u>	_____	_____	<u>24</u>	<u>111</u>
P10 _____	_____	<u>27</u>	<u>720</u>	_____	_____	<u>27</u>	<u>129</u>
P11 _____	_____	<u>30</u>	<u>818</u>	_____	_____	<u>30</u>	<u>145</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

TRC # 4648  
I



Company The National Oil Company Lease & Well No. Peck #1  
 Elevation 2101 Kelly Bushing Kansas City Formation --- Effective Pay --- Ft. Ticket No. 4649  
 Date 3/23/80 Sec. 18 Twp. 9S Range 18W County Rooks State Kansas  
 Test Approved by Lawrence L. Gray Western Representative Ken Metzler

Formation Test No. 2 Interval Tested from 3498 ft. to 3535 ft. Total Depth 3535 ft.  
 Packer Depth 3493 ft. Size 6 3/4 Packer Depth - ft. Size - in.  
 Packer Depth 3498 ft. Size 6 3/4 Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3526 ft. Recorder Number 1564 Cap 3150  
 Bottom Recorder Depth (Outside) 3529 ft. Recorder Number 3005 Cap 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 44 Weight Pipe Length 721 I. D. 2.76 in.  
 Weight 10.1 Water Loss 10.0 cc. Drill Pipe Length 2833 I. D. 3.8 in.  
 Chlorides 30,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 37 ft. Size 5 1/2 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 FH in.

Blow: MisRun - Packer Failure

Recovered 200 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of     MISRUN

Remarks:    

Time Set Packer(s) 4:27 A.M. Time Started Off Bottom 5:00 A.M. Maximum Temperature -  
 Initial Hydrostatic Pressure (A) 1979 P.S.I.  
 Initial Flow Period (B) -- P.S.I. to (C) -- P.S.I.  
 Initial Closed In Period (D) -- P.S.I.  
 Final Flow Period (E) -- P.S.I. to (F) -- P.S.I.  
 Final Closed In Period (G) -- P.S.I.  
 Final Hydrostatic Pressure (H) 1917 P.S.I.

#2

TRC # 4649  
I

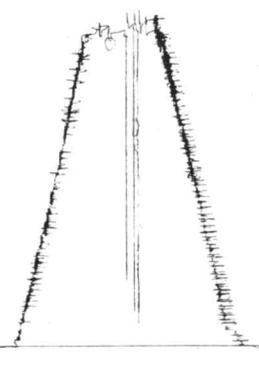
(A) (A)



#2

3085

TRC # 4649  
O



Company The National Oil Company Lease & Well No. Peck #1  
 Elevation 2101 Kelly Bushing Kansas City Formation Kansas Effective Pay - Ft. Ticket No. 4650  
 Date 3/23/80 Sec. 18 Twp. 9S Range 18W County Rooks State Kansas  
 Test Approved by Lawrence L. Gray Western Representative Ken Metzler

Formation Test No. 3 Interval Tested from 3490 ft. to 3535 ft. Total Depth 3535 ft.  
 Packer Depth 3485 ft. Size 6 3/4 Packer Depth - ft. Size - in.  
 Packer Depth 3490 ft. Size 6 3/4 Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3526 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 3529 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 44 Weight Pipe Length 721 I. D. 2.76 in.  
 Weight 10.1 Water Loss 10.0 cc. Drill Pipe Length 2833 I. D. 3.8 in.  
 Chlorides 30,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 45 ft. Size 5 1/2 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 FH in.

Blow: Very weak blow; dead in twenty-five minutes on first opening.

Recovered 10 ft. of drilling mud with few specks heavy oil  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s)	<u>9:12</u>	<u>AM</u>	Time Started Off Bottom	<u>11:15</u>	<u>AM</u>	Maximum Temperature	<u>105°</u>
Initial Hydrostatic Pressure		<u>P.M.</u>	(A)	<u>2014</u>	<u>P.S.I.</u>		
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>60</u>	P.S.I. to (C) <u>50</u> P.S.I.
Initial Closed In Period			Minutes	<u>30</u>	(D)	<u>99</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(E)	<u>81</u>	P.S.I. to (F) <u>68</u> P.S.I.
Final Closed In Period			Minutes	<u>33</u>	(G)	<u>74</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>2002</u>	<u>P.S.I.</u>		

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

Date 3/23/80 Test Ticket No. 4650  
 Recorder No. 1564 Capacity 3150 Location 3526 Ft.  
 Clock No. -- Elevation 2101 Kelly Bushing Well Temperature 105° °F

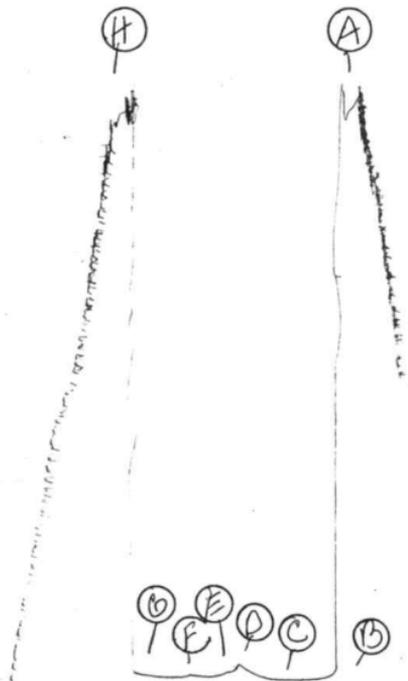
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2014</u> P.S.I.	Open Tool	<u>9:12P</u> M	
B First Initial Flow Pressure	<u>60</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>99</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>81</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>68</u> P.S.I.			
G Final Closed-in Pressure	<u>74</u> P.S.I.			
H Final Hydrostatic Mud	<u>2002</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>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a 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>60</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>68</u>	
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>50</u>	<u>5</u>	<u>75</u>	<u>3</u>	<u>62</u>	
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>51</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>59</u>	
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>51</u>	<u>15</u>	<u>60</u>	<u>9</u>	<u>58</u>	
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>53</u>	<u>20</u>	<u>60</u>	<u>12</u>	<u>58</u>	
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>57</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>60</u>	
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>66</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>62</u>	
P 8		<u>21</u>	<u>73</u>			<u>21</u>	<u>64</u>	
P 9		<u>24</u>	<u>81</u>			<u>24</u>	<u>67</u>	
P10		<u>27</u>	<u>90</u>			<u>27</u>	<u>68</u>	
P11		<u>30</u>	<u>99</u>			<u>30</u>	<u>71</u>	
P12						<u>33</u>	<u>74</u>	
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

1564

TRK # 4650  
I



Company The National Oil Company Lease & Well No. Peck #1  
 Elevation 2101 Kelly Bushing Arbuckle Formation Effective Pay - Ft. Ticket No. 4651  
 Date 3/24/80 Sec. 18 Twp. 9S Range 18W County Rooks State Kansas

Test Approved by Lawrence L. Gray Western Representative Ken Metzler

Formation Test No. 4 Interval Tested from 3593 ft. to 3605 ft. Total Depth 3605 ft.  
 Packer Depth 3588 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3593 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3596 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 3599 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 41 Weight Pipe Length 721 I. D. 2.76 in.  
 Weight 10.1 Water Loss 10.0 cc. Drill Pipe Length 2896 I. D. 3.8 in.  
 Chlorides 30,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 12 ft. Size 5 1/2 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 FH in.

Blow: Very weak blow; died forty minutes on first opening. Flushed tool fifteen minutes on second opening. No help.

Recovered 75 ft. of drilling mud  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks: Packers did not hold first try, held second try. Slid three feet to bottom.

Time Set Packer(s) 1:57 A.M.== Time Started Off Bottom 5:00 A.M.== Maximum Temperature 105°  
P.M. P.M.  
 Initial Hydrostatic Pressure ..... (A) 1976 P.S.I.  
 Initial Flow Period ..... Minutes 40 (B) 62 P.S.I. to (C) 59 P.S.I.  
 Initial Closed In Period ..... Minutes 33 (D) 768 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 78 P.S.I. to (F) 70 P.S.I.  
 Final Closed In Period ..... Minutes 42 (G) 692 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1974 P.S.I.

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

Date 3/24/80 Test Ticket No. 4651  
 Recorder No. 1564 Capacity 3150 Location 3596 Ft.  
 Clock No. ---- Elevation 2101 Kelly Bushing Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1976</u> P.S.I.	Open Tool	<u>1:57P</u> M	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>768</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>78</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>70</u> P.S.I.			
G Final Closed-in Pressure	<u>692</u> P.S.I.			
H Final Hydrostatic Mud	<u>1974</u> P.S.I.			

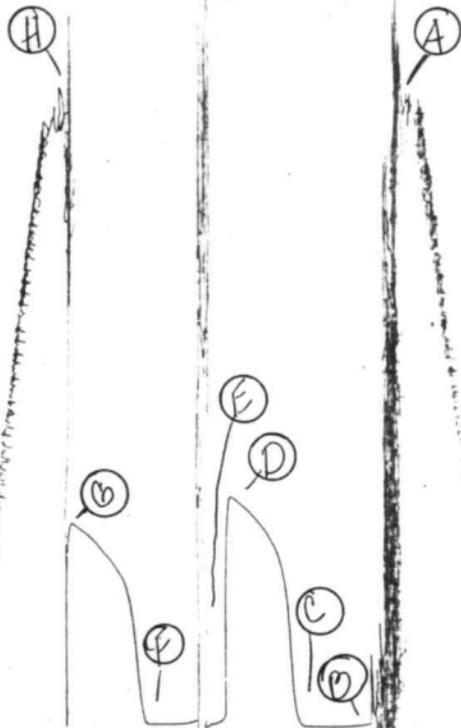
**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>11</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>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>62</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>70</u>	<u>0</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>85</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>132</u>	<u>3</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>194</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>280</u>	<u>6</u>
P 4 <u>15</u>	<u>57</u>	<u>9</u>	<u>422</u>	<u>15</u>	<u>76</u>	<u>9</u>	<u>408</u>	<u>9</u>
P 5 <u>20</u>	<u>56</u>	<u>12</u>	<u>530</u>	<u>20</u>	<u>71</u>	<u>12</u>	<u>483</u>	<u>12</u>
P 6 <u>25</u>	<u>56</u>	<u>15</u>	<u>589</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>525</u>	<u>15</u>
P 7 <u>30</u>	<u>57</u>	<u>18</u>	<u>625</u>	<u>30</u>	<u>70</u>	<u>18</u>	<u>548</u>	<u>18</u>
P 8 <u>35</u>	<u>58</u>	<u>21</u>	<u>653</u>	<u>35</u>	<u>70</u>	<u>21</u>	<u>570</u>	<u>21</u>
P 9 <u>40</u>	<u>59</u>	<u>24</u>	<u>678</u>	<u>40</u>	<u>70</u>	<u>24</u>	<u>592</u>	<u>24</u>
P10		<u>27</u>	<u>697</u>	<u>45</u>	<u>70</u>	<u>27</u>	<u>614</u>	<u>27</u>
P11		<u>30</u>	<u>715</u>			<u>30</u>	<u>636</u>	<u>30</u>
P12		<u>33</u>	<u>768</u>			<u>33</u>	<u>650</u>	<u>33</u>
P13						<u>36</u>	<u>664</u>	<u>36</u>
P14						<u>39</u>	<u>678</u>	<u>39</u>
P15						<u>42</u>	<u>692</u>	<u>42</u>
P16								
P17								
P18								
P19								
P20								

flushed tool

TKT # 4651  
I



Company The National Oil Company Lease & Well No. Peck #1  
 Elevation 2101 Kelly Bushing Arbuckle Formation Effective Pay - Ft. Ticket No. 4652  
 Date 3/25/80 Sec. 18 Twp. 9S Range 18W County Rooks State Kansas  
 Test Approved by Lawrence L. Gray Western Representative Ken Metzler

Formation Test No. 5 Interval Tested from 3603 ft. to 3615 ft. Total Depth 3615 ft.  
 Packer Depth 3598 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3603 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3606 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 3609 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 41 Weight Pipe Length 721 I. D. 2.76 in.  
 Weight 10.1 Water Loss 10.0 cc. Drill Pipe Length 2896 I. D. 3.8 in.  
 Chlorides 30,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 12 ft. Size 5 1/2 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 FH in.

Blow: Weak blow throughout first opening. Weak intermittent blow on second opening. Flushed tool thirty minutes into second opening.

Recovered 90 ft. of watery mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: Slid tool five feet to bottom after open.

Time Set Packer(s)	<u>2:12</u> <del>P.M.</del> <u>A.M.</u>	Time Started Off Bottom	<u>5:15</u> <del>P.M.</del> <u>A.M.</u>	Maximum Temperature	<u>104°</u>
Initial Hydrostatic Pressure	(A) <u>2027</u>		P.S.I.		
Initial Flow Period	Minutes <u>30</u>	(B) <u>62</u>	P.S.I. to (C)	<u>51</u>	P.S.I.
Initial Closed In Period	Minutes <u>45</u>	(D) <u>959</u>	P.S.I.		
Final Flow Period	Minutes <u>60</u>	(E) <u>71</u>	P.S.I. to (F)	<u>67</u>	P.S.I.
Final Closed In Period	Minutes <u>45</u>	(G) <u>887</u>	P.S.I.		
Final Hydrostatic Pressure	(H) <u>1994</u>		P.S.I.		

# WESTERN TESTING CO., INC.

## Pressure Data

Date 3/25/80 Test Ticket No. 4652  
 Recorder No. 1564 Capacity 3150 Location 3606 Ft.  
 Clock No. ---- Elevation 2101 Kelly Bushing Well Temperature 104w °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2027</u> P.S.I.	Open Tool	<u>2:12A</u> M	
B. First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>51</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>959</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>71</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>67</u> P.S.I.			
G. Final Closed-in Pressure	<u>887</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1994</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>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a 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>62</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>67</u>	
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>126</u>	<u>5</u>	<u>68</u>	<u>3</u>	<u>122</u>	
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>477</u>	<u>10</u>	<u>60</u>	<u>6</u>	<u>400</u>	
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>676</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>631</u>	
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>742</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>686</u>	
P 6 <u>25</u>	<u>51</u>	<u>15</u>	<u>785</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>720</u>	
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>820</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>743</u>	
P 8		<u>21</u>	<u>849</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>769</u>	
P 9		<u>24</u>	<u>873</u>	<u>40</u>	<u>67</u>	<u>24</u>	<u>782</u>	
P10		<u>27</u>	<u>895</u>	<u>45</u>	<u>67</u>	<u>27</u>	<u>811</u>	
P11		<u>30</u>	<u>912</u>	<u>50</u>	<u>67</u>	<u>30</u>	<u>834</u>	
P12		<u>33</u>	<u>921</u>	<u>55</u>	<u>67</u>	<u>33</u>	<u>844</u>	
P13		<u>36</u>	<u>929</u>	<u>60</u>	<u>67</u>	<u>36</u>	<u>856</u>	
P14		<u>39</u>	<u>939</u>			<u>39</u>	<u>865</u>	
P15		<u>42</u>	<u>950</u>			<u>42</u>	<u>876</u>	
P16		<u>45</u>	<u>959</u>			<u>45</u>	<u>887</u>	
P17								
P18								
P19								
P20								

#5  
TRK # 4652  
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