



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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

No 1261

Elevation 1855 RB Formation KANSAS C.G. Eff. Pay Ft.

District PRATT Date 4-5-79 Customer Order No.

COMPANY NAME National Oil Co
ADDRESS

LEASE AND WELL NO. Geigsby A-1 COUNTY Barber STATE KANSAS Sec. 15 Twp. 30s Rge. 13w

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

Mail Charts To Same Address No. Copies Requested

Formation Test No. 1 Interval Tested from 4002 ft. to 4015 ft. Total Depth 4015 ft.
Packer Depth 3797 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4002 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

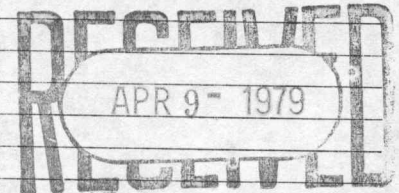
Top Recorder Depth (Inside) 4006 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 4009 ft. Recorder Number 2606 Cap. 4150
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Union Drilling Co Drill Collar Length I. D. in.
Mud Type Starch Viscosity 44 Weight Pipe Length I. D. in.
Weight 9.4 Water Loss 7.2 cc. Drill Pipe Length 3797 I. D. 3.8 in.
Chlorides 26000 P.P.M. Test Tool Length 21 in. Tool Size 5300 in.
Jars: Make NO Serial Number Anchor Length 13' ft. Size 5300 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: Strong blow through out Test - gas to surface in 7 min.
see flow chart

Recovered 35 ft. of drilling mud
Recovered 60 ft. of water with mud
Recovered 180 ft. of water

Recovered ft. of
Recovered ft. of
Remarks: clock on single recorder 2604 stopped
read chart # 2606



Time Set Packer(s) 3:45 AM Time Started Off Bottom 5:45 AM Maximum Temperature 117° F
Initial Hydrostatic Pressure 2023 P.S.I. (A) 83 P.S.I. to (C) 62 P.S.I.
Initial Flow Period 30 Minutes (B) 1194 P.S.I.
Initial Closed In Period 30 Minutes (D) 104 P.S.I. to (F) 135 P.S.I.
Final Flow Period 60 Minutes (E) 1194 P.S.I.
Final Closed In Period 60 Minutes (G) 2052 P.S.I.
Final Hydrostatic Pressure 2052 P.S.I. (H)

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 Jay R. Pink
Signature of Customer or his authorized representative

Western Representative Red Trist Thank You

FIELD INVOICE

Open Hole Test \$ 460.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Extra Charts \$

TOTAL \$ 460.00



GAS FLOW REPORT

N^o 1397

Date 4-5-79 Ticket 1241 Company NATIONAL oil Co.
 Well Name and No. Geigby #A2 Dst No. 1 Interval Tested 4002-4015
 County Barber State KANSAS Sec. 15 Twp. 30s Rg. 13w

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
2:45 P.M. ^{10ches} ^{of} Water gage					
52-7 min		1"			Tool open
10	18"	1			gas to surface
20	15"	1			110,000 m.c.f.P.D.
30	13"	1			101,000
					93,600

SECOND FLOW

3:45 P.M.	orifice				Tool open
10	22"	1"			121,000 m.c.f.P.D.
20	10"				81,600
30	6"				63,300
40	6"				63,300
50	6"				63,300
60	6"				63,300

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 4-5-79 Recorder No. 2604 Capacity 4150 Location 4006 Ft.
Clock No. _____ Elevation 1855 HB Well Temperature 717 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2092</u>	P.S.I.	<u>3:45</u>	<u>P M</u>
B. First Initial Flow Pressure	<u>85</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C. First Final Flow Pressure	<u>68</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D. Initial Closed-in Pressure	<u>1240</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E. Second Initial Flow Pressure	<u>127</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
F. Second Final Flow Pressure	<u>141</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1226</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>2057</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.

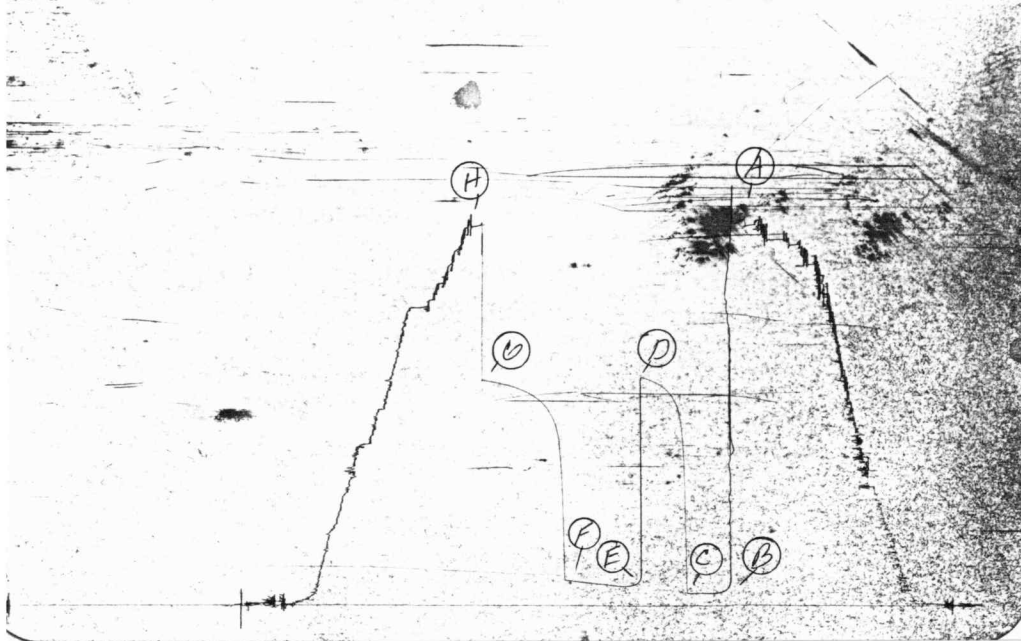
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

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>85</u>	0	<u>68</u>	0	<u>127</u>	0	<u>141</u>
P 2 5	<u>77</u>	3	<u>519</u>	5	<u>111</u>	3	<u>554</u>
P 3 10	<u>70</u>	6	<u>901</u>	10	<u>107</u>	6	<u>872</u>
P 4 15	<u>68</u>	9	<u>1054</u>	15	<u>107</u>	9	<u>985</u>
P 5 20	<u>7</u>	12	<u>1119</u>	20	<u>109</u>	12	<u>1031</u>
P 6 25	<u>7</u>	15	<u>1153</u>	25	<u>113</u>	15	<u>1065</u>
P 7 30	<u>68</u>	18	<u>1170</u>	30	<u>115</u>	18	<u>1082</u>
P 8 35		21	<u>1188</u>	35	<u>117</u>	21	<u>1102</u>
P 9 40		24	<u>1199</u>	40	<u>119</u>	24	<u>1122</u>
P10 45		27	<u>1222</u>	45	<u>121</u>	27	<u>1141</u>
P11 50		30	<u>1240</u>	50	<u>128</u>	30	<u>1159</u>
P12 55		33		55	<u>135</u>	33	<u>1167</u>
P13 60		36		60	<u>141</u>	36	<u>1175</u>
P14		39		65		39	<u>1183</u>
P15		42		70		42	<u>1191</u>
P16		45		75		45	<u>1199</u>
P17		48		80		48	<u>1204</u>
P18		51		85		51	<u>1209</u>
P19		54		90		54	<u>1216</u>
P20		57				57	<u>1221</u>
		60				60	<u>1226</u>

2006 DST #1

TKT #1261
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Company The National Oil Company Lease & Well No. Grigsby "A" #1
Elevation 1855 Kelly Bushing Kansas City Formation 30S Effective Pay -- Ft. Ticket No. 1261
Date 4/5/79 Sec. 15 Twp. 30S Range 13W County Barber State Kansas
Test Approved by Jay R. Dirks Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4002' ft. to 4015' ft. Total Depth 4015' ft.

Packer Depth 3997 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4002 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4006 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4009 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor Union Drilling Company Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 7.2 cc. Drill Pipe Length 3791 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 13' 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 FH in.

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

Recovered 35 ft. of drilling mud

Recovered 60 ft. of water cut mud

Recovered 180 ft. of water

Recovered - ft. of -

Recovered - ft. of -

Remarks: Clock on inside recorder 2604 stopped. READ CHART # 2606

Time Set Packer(s) 3:45 ~~A.M.~~ P.M. Time Started Off Bottom 5:45 ~~A.M.~~ P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 2072 P.S.I.

Initial Flow Period Minutes 30 (B) 85 P.S.I. to (C) 68 P.S.I.

Initial Closed In Period Minutes 30 (D) 1240 P.S.I.

Final Flow Period Minutes 60 (E) 127 P.S.I. to (F) 141 P.S.I.

Final Closed In Period Minutes 60 (G) 1226 P.S.I.

Final Hydrostatic Pressure (H) 2057 P.S.I.

GAS FLOW REPORT

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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[illegible]

Serial No. -- Date Bottle Filled -- Date to be Invoiced 4/5/79

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.

Authorized by Jay R. Dirks

WESTERN TESTING CO., INC.

Pressure Data

Date 4/5/79
 Recorder No. 2604 Capacity 4150 Test Ticket No. 1261
 Clock No. Elevation 1855 Kelly Bushing Location 4006 Ft.
 Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2072	P.S.I.	3:45 P M	
B First Initial Flow Pressure	85	P.S.I.	30	30
C First Final Flow Pressure	68	P.S.I.	30	30
D Initial Closed-in Pressure	1240	P.S.I.	60	60
E Second Initial Flow Pressure	127	P.S.I.	60	60
F Second Final Flow Pressure	141	P.S.I.		
G Final Closed-in Pressure	1226	P.S.I.		
H Final Hydrostatic Mud	2057	P.S.I.		

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

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: 12 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	85	0	68	0	127	0	141
P 2 5	77	3	519	5	111	3	554
P 3 10	70	6	901	10	107	6	872
P 4 15	68	9	1054	15	107	9	985
P 5 20	68	12	1119	20	109	12	1031
P 6 25	68	15	1153	25	113	15	1065
P 7 30	68	18	1170	30	115	18	1082
P 8		21	1188	35	117	21	1102
P 9		24	1199	40	119	24	1122
P10		27	1222	45	121	27	1141
P11		30	1240	50	128	30	1159
P12				55	135	33	1167
P13				60	141	36	1175
P14						39	1183
P15						42	1191
P16						45	1199
P17						48	1204
P18						51	1209
P19						54	1216
P20						57	1221
						60	1226



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 1330

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

Elevation 1841 KB Formation *W. Kansas City* Eff. Pay Ft.

District *Pratt*

Date *8-6-79*

Customer Order No.

COMPANY NAME *The NATIONAL Oil Co.*

ADDRESS *200 W Douglas Suite 550* *City* *67202* *15* *38S* *13W*

LEASE AND WELL NO. *Grigsby #1-A* COUNTY *Barber* STATE *KANSAS* Sec. *25* Twp. *30S* Rge. *13W*

Mail Invoice To *SAME* Co. Name Address No. Copies Requested *5*

Mail Charts To *SAME* Address No. Copies Requested *5*

Formation Test No. *12* Interval Tested from *4201* ft. to *4220* ft. Total Depth *4220* ft.

Packer Depth *4196* ft. Size *6 3/4* in. Packer Depth *—* ft. Size *—* in.

Packer Depth *4201* ft. Size *6 3/4* in. Packer Depth *—* ft. Size *—* in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) *4200* ft. Recorder Number *969* Cap. *4200*

Bottom Recorder Depth (Outside) *4203* ft. Recorder Number *1051* Cap. *4250*

Below Straddle Recorder Depth *—* ft. Recorder Number *—* Cap. *—*

Drilling Contractor *Union Rig Co*

Drill Collar Length *—* I. D. *—* in.

Mud Type *Premix* Viscosity *36*

Weight Pipe Length *—* I. D. *—* in.

Weight *9.3* Water Loss *12.0* cc.

Drill Pipe Length *4191* I. D. *3.8* in.

Chlorides *35000* P.P.M.

Test Tool Length *20* in. Tool Size *5 5/8 OD* in.

Jars: Make *—* Serial Number *—*

Anchor Length *19* ft. Size *5 5/8 OD* in.

Did Well Flow? *NO* Reversed Out *NO*

Surface Choke Size *3 1/4* in. Bottom Choke Size *3 1/4* in.

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

Blow: *Weak thru out flow Periods*

Recovered *35* ft. of *mud*

Recovered *—* ft. of *—*

Recovered *—* ft. of *—*

Recovered *—* ft. of *—*

Recovered *—* ft. of *—*

Remarks:

Time Set Packer(s) *3:55* *A.M.* Time Started Off Bottom *6:55* *A.M.* Maximum Temperature *126°*

Initial Hydrostatic Pressure (A) *2115* P.S.I.

Initial Flow Period Minutes *30* (B) *40* P.S.I. to (C) *40* P.S.I.

Initial Closed In Period Minutes *45* (D) *1209* P.S.I.

Final Flow Period Minutes *60* (E) *51* P.S.I. to (F) *51* P.S.I.

Final Closed In Period Minutes *45* (G) *686* P.S.I.

Final Hydrostatic Pressure (H) *2105* P.S.I.

COMPANY TERMS

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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 *Jon R. Link*
Signature of Customer or his authorized representative

Western Representative *Lon Emmons* *Thank You.*

FIELD INVOICE

Open Hole Test \$ *46000*
Misrun \$ *—*
Straddle Test \$ *—*
Jars \$ *—*
Selective Zone \$ *—*
Safety Joint \$ *—*
Standby \$ *—*
Evaluation \$ *—*
Extra Packer \$ *—*
Circ. Sub. \$ *—*
Mileage \$ *—*
Extra Charts \$ *—*

TOTAL \$ *46000*

WESTERN TESTING CO., INC.

Pressure Data

Date 4-6-79 Recorder No. 969 Capacity 4200 Location 4200 Ft.
Clock No. _____ Elevation 1841' ± B Well Temperature 126 °F

Test Ticket No. 1330

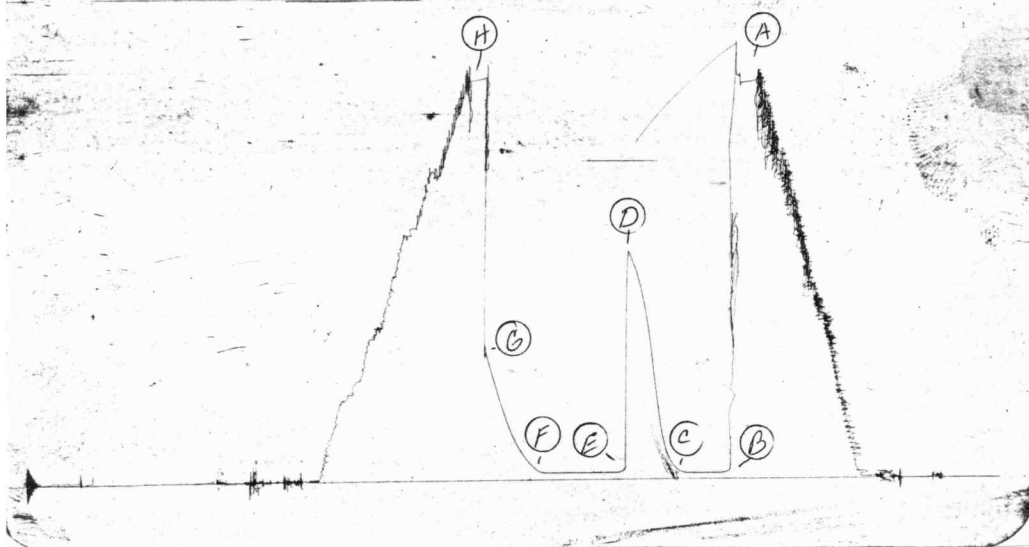
Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud <u>2148</u> <u>2148</u>	P.S.I.	Open Tool	<u>3:55</u> P.M.	
B. First Initial Flow Pressure <u>41</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure <u>31</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure <u>1205</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure <u>49</u>	P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure <u>35</u>	P.S.I.			
G. Final Closed-in Pressure <u>670</u>	P.S.I.			
H. Final Hydrostatic Mud <u>2129</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>41</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>37</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>45</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>47</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>55</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>65</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>76</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>90</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>102</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>145</u>	<u>25</u>	<u>35</u>	<u>15</u>	<u>133</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>234</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>166</u>
P 8 <u>35</u>	<u>31</u>	<u>21</u>	<u>371</u>	<u>35</u>	<u>35</u>	<u>21</u>	<u>203</u>
P 9 <u>40</u>	<u>31</u>	<u>24</u>	<u>535</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>252</u>
P10 <u>45</u>	<u>31</u>	<u>27</u>	<u>727</u>	<u>45</u>	<u>35</u>	<u>27</u>	<u>305</u>
P11 <u>50</u>	<u>31</u>	<u>30</u>	<u>881</u>	<u>50</u>	<u>35</u>	<u>30</u>	<u>369</u>
P12 <u>55</u>	<u>31</u>	<u>33</u>	<u>987</u>	<u>55</u>	<u>35</u>	<u>33</u>	<u>427</u>
P13 <u>60</u>	<u>31</u>	<u>36</u>	<u>1076</u>	<u>60</u>	<u>35</u>	<u>36</u>	<u>485</u>
P14 _____	<u>31</u>	<u>39</u>	<u>1133</u>	<u>65</u>	<u>35</u>	<u>39</u>	<u>548</u>
P15 _____	<u>31</u>	<u>42</u>	<u>1170</u>	<u>70</u>	<u>35</u>	<u>42</u>	<u>611</u>
P16 _____	<u>31</u>	<u>45</u>	<u>1205</u>	<u>75</u>	<u>35</u>	<u>45</u>	<u>670</u>
P17 _____	<u>31</u>	<u>48</u>	<u>1242</u>	<u>80</u>	<u>35</u>	<u>48</u>	<u>735</u>
P18 _____	<u>31</u>	<u>51</u>	<u>1279</u>	<u>85</u>	<u>35</u>	<u>51</u>	<u>800</u>
P19 _____	<u>31</u>	<u>54</u>	<u>1316</u>	<u>90</u>	<u>35</u>	<u>54</u>	<u>865</u>
P20 _____	<u>31</u>	<u>57</u>	<u>1353</u>	<u>95</u>	<u>35</u>	<u>57</u>	<u>929</u>
	<u>31</u>	<u>60</u>	<u>1390</u>	<u>100</u>	<u>35</u>	<u>60</u>	<u>994</u>

969

~~Tab~~ # 1330
I



Company The National Oil Company Lease & Well No. Grigsby "A" #1
Elevation 1841 Kelly Bushing Kansas City Formation 30S Effective Pay -- Ft. Ticket No. 1330
Date 4/6/79 Sec. 15 Twp. 30S Range 13W County Barber State Kansas
Test Approved by Jay R. Dirks Western Representative Ron Emmons

Formation Test No. 2 Interval Tested from 4201 ft. to 4220 ft. Total Depth 4220 ft.
Packer Depth 4196 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4201 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4200 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 4203 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Union Rig #2 Drill Collar Length -- I. D. -- in.
Mud Type premix Viscosity 36 Weight Pipe Length -- I. D. -- in.
Weight 9.3 Water Loss 12.0 cc. Drill Pipe Length 4191 I. D. 3.8 in.
Chlorides 35,000 P.P.M. Test Tool Length 20' =m. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- 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 FH in.

Blow: Weak throughout flow periods.

Recovered 25 ft. of mud
Recovered -- ft. of --
Recovered -- ft. of --
Recovered -- ft. of --
Recovered -- ft. of --

Remarks: --

Time Set Packer(s) 3:55 A.M. Time Started Off Bottom 6:55 A.M. Maximum Temperature 126
Initial Hydrostatic Pressure (A) 2148 P.S.I.
Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period Minutes 45 (D) 1205 P.S.I.
Final Flow Period Minutes 60 (E) 49 P.S.I. to (F) 35 P.S.I.
Final Closed In Period Minutes 45 (G) 670 P.S.I.
Final Hydrostatic Pressure (H) 2129 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/6/79
 Recorder No. 969 Capacity 4200 Test Ticket No. 1330
 Clock No. -- Elevation 1841 Kelly Bushing Location 4200 Ft.
 Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2148	P.S.I.	3:55P	M
B First Initial Flow Pressure	41	P.S.I.	30	Mins.
C First Final Flow Pressure	31	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1205	P.S.I.	60	Mins.
E Second Initial Flow Pressure	49	P.S.I.	45	Mins.
F Second Final Flow Pressure	35	P.S.I.		
G Final Closed-in Pressure	670	P.S.I.		
H Final Hydrostatic Mud	2129	P.S.I.		

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

PRESSURE BREAKDOWN

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

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

Second Flow Pressure
 Breakdown: 12 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 <u>0</u>	<u>41</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>37</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>45</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>47</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>55</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>65</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>76</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>90</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>102</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>145</u>	<u>25</u>	<u>35</u>	<u>15</u>	<u>133</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>234</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>166</u>
P 8 <u></u>	<u></u>	<u>21</u>	<u>371</u>	<u>35</u>	<u>35</u>	<u>21</u>	<u>203</u>
P 9 <u></u>	<u></u>	<u>24</u>	<u>535</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>252</u>
P 10 <u></u>	<u></u>	<u>27</u>	<u>727</u>	<u>45</u>	<u>35</u>	<u>27</u>	<u>305</u>
P 11 <u></u>	<u></u>	<u>30</u>	<u>881</u>	<u>50</u>	<u>35</u>	<u>30</u>	<u>369</u>
P 12 <u></u>	<u></u>	<u>33</u>	<u>987</u>	<u>55</u>	<u>35</u>	<u>33</u>	<u>427</u>
P 13 <u></u>	<u></u>	<u>36</u>	<u>1076</u>	<u>60</u>	<u>35</u>	<u>36</u>	<u>485</u>
P 14 <u></u>	<u></u>	<u>39</u>	<u>1133</u>	<u></u>	<u></u>	<u>39</u>	<u>548</u>
P 15 <u></u>	<u></u>	<u>42</u>	<u>1170</u>	<u></u>	<u></u>	<u>42</u>	<u>611</u>
P 16 <u></u>	<u></u>	<u>45</u>	<u>1205</u>	<u></u>	<u></u>	<u>45</u>	<u>670</u>
P 17 <u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
P 18 <u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
P 19 <u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
P 20 <u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

1331

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

Elevation 1541 KB Formation _____ Eff. Pay _____ Ft.

District POTT Date 5-8-79 Customer Order No. _____
COMPANY NAME The National Oil Co 200 W Anglin Drive 550
ADDRESS Wichita, Kansas
LEASE AND WELL NO. Grigsby FA COUNTY Barber STATE KANSAS Sec. 15 Twp. 30S Rge. 13W
Mail Invoice To _____ Co. Name SAME Address SAME No. Copies Requested 5
Mail Charts To _____ Address SAME No. Copies Requested 5

Formation Test No. 73 Interval Tested from 4337 ft. to 4432 ft. Total Depth 4432 ft.
Packer Depth 4332 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4337 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4423 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 4426 ft. Recorder Number 1051 Cap. 4350
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Union Rig #2 Drill Collar Length _____ I. D. _____ in.
Mud Type Premix-Starch Viscosity 35 Weight Pipe Length _____ I. D. _____ in.
Weight 9.4 Water Loss 80 cc. Drill Pipe Length 4317 I. D. 3.8 in.
Chlorides 35,000 P.P.M. Test Tool Length 20 in. Tool Size 5 1/2 OD in.
Jars: Make _____ Serial Number _____ Anchor Length 95 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 2 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong Blow threw out flow Periods. (During First Flow it took 5 min. to Blow off Bottom of Bucket)

Recovered 30 ft. of mud
Recovered _____ ft. of _____
Recovered _____ ft. of 400 Ft GAS in Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

Time Set Packer(s) 4:25 AM Time Started Off Bottom 7:25 AM Maximum Temperature _____
Initial Hydrostatic Pressure _____ (A) 2221 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 133 P.S.I.
Final Flow Period _____ Minutes 60 (E) 40 P.S.I. to (F) 40 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 450 P.S.I.
Final Hydrostatic Pressure _____ (H) 2210 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 [Signature]
Signature of Customer or his authorized representative

Western Representative Ron Emmons Thank You

FIELD INVOICE

Open Hole Test \$ 460.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Extra Charts \$ _____

TOTAL \$ 460.00

WESTERN TESTING CO., INC.

Pressure Data

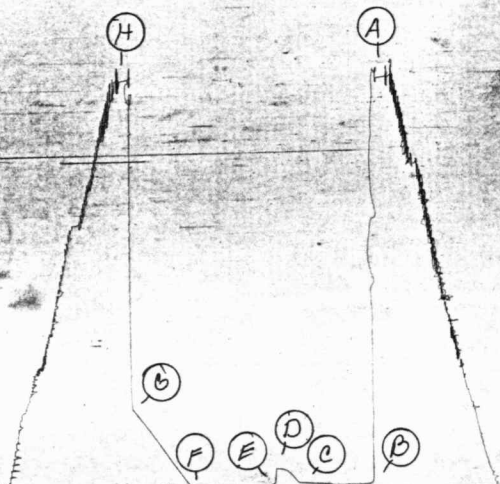
Date 4-8-79 Test Ticket No. 1331
 Recorder No. 969 Capacity 4200 Location 4423 Ft.
 Clock No. Elevation 1541 AB Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2221</u>	P.S.I.	<u>4:25</u>	<u>4 M</u>
B First Initial Flow Pressure	<u>39</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>29</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>125</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>31</u>	P.S.I.		
G Final Closed-in Pressure	<u>453</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2215</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>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 0	<u>39</u>	0	<u>29</u>	0	<u>41</u>	0	<u>31</u>
P 2 5	<u>30</u>	3	<u>37</u>	5	<u>35</u>	3	<u>51</u>
P 3 10	<u>29</u>	6	<u>39</u>	10	<u>31</u>	6	<u>50</u>
P 4 15		9	<u>41</u>	15		9	<u>111</u>
P 5 20		12	<u>43</u>	20		12	<u>143</u>
P 6 25		15	<u>45</u>	25		15	<u>176</u>
P 7 30	<u>29</u>	18	<u>45</u>	30		18	<u>203</u>
P 8 35		21	<u>47</u>	35		21	<u>238</u>
P 9 40		24	<u>47</u>	40		24	<u>268</u>
P10 45		27	<u>65</u>	45		27	<u>303</u>
P11 50		30	<u>92</u>	50		30	<u>336</u>
P12 55		33	<u>113</u>	55		33	<u>363</u>
P13 60		36	<u>122</u>	60	<u>31</u>	36	<u>391</u>
P14		39	<u>125</u>	65		39	<u>412</u>
P15		42	<u>125</u>	70		42	<u>434</u>
P16		45		75		45	<u>453</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Plot # 1331
I



Company The National Oil Company Lease & Well No. Grigsby "A" #1
Elevation 1541 Kelly Bushing Formation -- Effective Pay -- Ft. Ticket No. 1331
Date 4/8/79 Sec. 15 Twp. 30S Range 13W County Barber State Kansas
Test Approved by Jay R. Dirks Western Representative Ron Emmons

Formation Test No. 3 Interval Tested from 4337' ft. to 4432 ft. Total Depth 4432' ft.

Packer Depth 4332 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4337 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4423 ft.

Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4426 ft.

Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth - ft.

Recorder Number - Cap. =

Drilling Contractor Union Drilling Rig #2

Drill Collar Length - I. D. - in.

Mud Type premix-starch Viscosity 35

Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 9.0 cc.

Drill Pipe Length 4317 I. D. 3.8 in.

Chlorides 35,000 P.P.M.

Test Tool Length 20' in. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number --

Anchor Length 95' 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 FH in.

Blow: Strong blow throughout flow periods. (During first flow it took five minutes to blow off bottom of bucket)

Recovered 30 ft. of mud

Recovered 400 ft. of gas in pipe

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 4:25 --P.M. Time Started Off Bottom 7:25 A.M. Maximum Temperature 128

Initial Hydrostatic Pressure (A) 2221 P.S.I.

Initial Flow Period Minutes 30 (B) 39 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period Minutes 45 (D) 125 P.S.I.

Final Flow Period Minutes 60 (E) 41 P.S.I. to (F) 31 P.S.I.

Final Closed In Period Minutes 45 (G) 453 P.S.I.

Final Hydrostatic Pressure (H) 2215 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/8/79

Recorder No. 969

Capacity 4200

Test Ticket No. 1331

Clock No. -- Elevation 1541 Kelly Bushing

Location 4423 Ft.

Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2221	P.S.I.	4:25A	M
B First Initial Flow Pressure	39	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	29	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	125	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	41	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	31	P.S.I.		
G Final Closed-in Pressure	453	P.S.I.		
H Final Hydrostatic Mud	2215	P.S.I.		

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

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: 12 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 <u>0</u>	<u>39</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>31</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>37</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>39</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>80</u>
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>41</u>	<u>15</u>	<u>31</u>	<u>9</u>	<u>111</u>
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>43</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>143</u>
P 6 <u>25</u>	<u>29</u>	<u>15</u>	<u>45</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>176</u>
P 7 <u>30</u>	<u>29</u>	<u>18</u>	<u>45</u>	<u>30</u>	<u>31</u>	<u>18</u>	<u>203</u>
P 8		<u>21</u>	<u>47</u>	<u>35</u>	<u>31</u>	<u>21</u>	<u>238</u>
P 9		<u>24</u>	<u>47</u>	<u>40</u>	<u>31</u>	<u>24</u>	<u>268</u>
P10		<u>27</u>	<u>65</u>	<u>45</u>	<u>31</u>	<u>27</u>	<u>303</u>
P11		<u>30</u>	<u>92</u>	<u>50</u>	<u>31</u>	<u>30</u>	<u>336</u>
P12		<u>33</u>	<u>113</u>	<u>55</u>	<u>31</u>	<u>33</u>	<u>363</u>
P13		<u>36</u>	<u>122</u>	<u>60</u>	<u>31</u>	<u>36</u>	<u>391</u>
P14		<u>39</u>	<u>125</u>			<u>39</u>	<u>412</u>
P15		<u>42</u>	<u>125</u>			<u>42</u>	<u>434</u>
P16						<u>45</u>	<u>453</u>
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 1332

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

Elevation 1541 KB Formation Viola Eff. Pay Ft.

District Pratt Date 3-9-79 Customer Order No.

COMPANY NAME NATIONAL Oil Co.

ADDRESS WICHITA KANSAS

LEASE AND WELL NO. Grigsby #1-A COUNTY Barber STATE KANSAS Sec. 15 Twp. 30S Rge. 13W

Mail Invoice To. Co. Name SAME Address No. Copies Requested 5

Mail Charts To. SAME Address No. Copies Requested 5

Formation Test No. 44 Interval Tested from 4483 ft. to 4516 ft. Total Depth 4516 ft.
Packer Depth 4478 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Packer Depth 4483 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) — ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) — ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Union Rig #2
Mud Type Premix-Starch Viscosity 45
Weight 9.5 Water Loss 2.0 cc.
Chlorides 32,000 P.P.M.
Jars: Make — Serial Number —
Did Well Flow? NO Reversed Out NO
Drill Collar Length — I. D. — in.
Weight Pipe Length — I. D. — in.
Drill Pipe Length 4463 I. D. 3.8 in.
Test Tool Length 20 in. Tool Size 5 1/2 OD in.
Anchor Length 33 ft. Size 5 1/2 OD in.
Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Fair Blow Threw out Flow Periods:

Recovered 20 ft. o.B.L. Gas cut Mud

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Remarks:

600 Ft. Gas in Pipe

Time Set Packer(s) 8:40 A.M. P.M. Time Started Off Bottom 11:40 A.M. P.M. Maximum Temperature 136°
Initial Hydrostatic Pressure (A) 9305 P.S.I.
Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period Minutes 45 (D) 40 P.S.I.
Final Flow Period Minutes 60 (E) 40 P.S.I. to (F) 40 P.S.I.
Final Closed In Period Minutes 45 (G) 40 P.S.I.
Final Hydrostatic Pressure (H) 2295 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. Signature of Customer or his authorized representative

Western Representative Ron Emmons Thank You

FIELD INVOICE

Open Hole Test \$ 460.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby 1979 \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Extra Charts \$

TOTAL \$ 460.00

WESTERN TESTING CO., INC.

Pressure Data

Date 4-9-79 Test Ticket No. 1332

Recorder No. 769 Capacity 4200 Location _____ Ft.

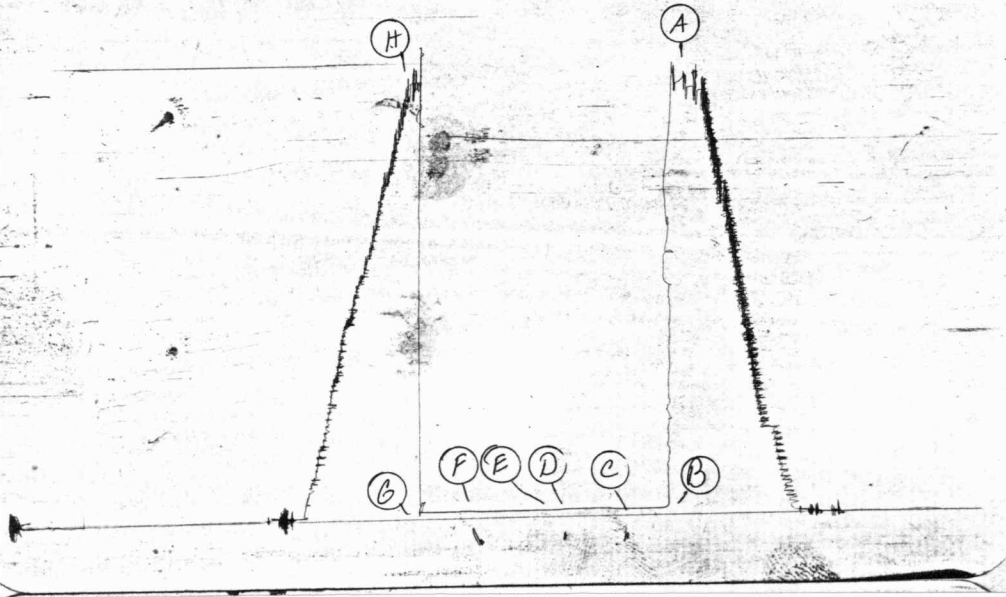
Clock No. _____ Elevation 1541 HB Well Temperature 136 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	2367 <u>2369</u> P.S.I.		<u>8:40</u> A M	
B First Initial Flow Pressure	<u>44</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>38</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>34</u> P.S.I.			
G Final Closed-in Pressure	<u>34</u> P.S.I.			
H Final Hydrostatic Mud	<u>2352</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>44</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>33</u>	<u>5</u>		<u>3</u>	
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>33</u>	<u>10</u>		<u>6</u>	
P 4 <u>15</u>		<u>9</u>	<u>34</u>	<u>15</u>		<u>9</u>	
P 5 <u>20</u>		<u>12</u>	<u>37</u>	<u>20</u>		<u>12</u>	
P 6 <u>25</u>		<u>15</u>	<u>38</u>	<u>25</u>		<u>15</u>	
P 7 <u>30</u>	<u>33</u>	<u>18</u>		<u>30</u>		<u>18</u>	
P 8 <u>35</u>		<u>21</u>		<u>35</u>		<u>21</u>	
P 9 <u>40</u>		<u>24</u>		<u>40</u>		<u>24</u>	
P10 <u>45</u>		<u>27</u>		<u>45</u>		<u>27</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>34</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>38</u>	<u>75</u>		<u>45</u>	<u>34</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>	

Trt # 1332
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The National Oil Company

Grigsby "A" #1

Company 1541 Kelly Bushing Viola Lease & Well No. --
 Elevation Formation Effective Pay -- Ft. Ticket No. 1332
 Date 4/9/79 Sec. 15 Twp. 30S Range 13W County Barber State Kansas
 Test Approved by Jay R. Dirks Western Representative Ron Emmons

Formation Test No. 4 Interval Tested from 4483' ft. to 4516' ft. Total Depth 4516' ft.

Packer Depth 4478 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4483 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) ft. Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Union Drilling Rig #2 Drill Collar Length - I. D. - in.

Mud Type premix-starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 9.0 cc. Drill Pipe Length 4463' I. D. 3.8 in.

Chlorides 37,000 P.P.M. Test Tool Length 20' in. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number --- Anchor Length 33' 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 FH in.

Blow: Fair blow throughout flow periods.

Recovered 20 ft. of slightly gas cut mud

Recovered 600 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 136

Initial Hydrostatic Pressure (A) 2367 P.S.I.

Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period Minutes 45 (D) 38 P.S.I.

Final Flow Period Minutes 60 (E) 34 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 45 (G) 34 P.S.I.

Final Hydrostatic Pressure (H) 2352 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/9/79 Recorder No. 969 Capacity 4200 Test Ticket No. 1332
 Clock No. ----- Elevation 1541 Kelly Bushing Location ---- Ft. ----
 Well Temperature 136 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u>	P.S.I.	8:40	A M
B First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>33</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>38</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>34</u>	P.S.I.		
G Final Closed-in Pressure	<u>34</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2352</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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 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 <u>0</u>	<u>44</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>33</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>34</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>33</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>34</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>34</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>34</u>
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>37</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>34</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>38</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>34</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>38</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>34</u>
P 8		<u>21</u>	<u>38</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>34</u>
P 9		<u>25</u>	<u>38</u>	<u>40</u>	<u>34</u>	<u>25</u>	<u>34</u>
P10		<u>28</u>	<u>38</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>34</u>
P11		<u>30</u>	<u>38</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>34</u>
P12		<u>33</u>	<u>38</u>	<u>55</u>	<u>34</u>	<u>33</u>	<u>34</u>
P13		<u>36</u>	<u>38</u>	<u>60</u>	<u>34</u>	<u>36</u>	<u>34</u>
P14		<u>39</u>	<u>38</u>			<u>39</u>	<u>34</u>
P15		<u>42</u>	<u>38</u>			<u>42</u>	<u>34</u>
P16		<u>45</u>	<u>38</u>			<u>45</u>	<u>34</u>
P17							
P18							
P19							
P20							