



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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

No. 14254 OK

Elevation N/A

Formation MISS.

Eff. Pay Pt.

District

PRATT

Date

11-11-81

Customer Order No.

COMPANY NAME NATIONAL OIL COMPANY

ADDRESS 200 W. Douglas Suite 800 Wichita 67202

LEASE AND WELL NO. Smith #24-35 COUNTY Kingman STATE KS Sec. 35 Twp. 30S Rge. 7W

Mail Invoice To Same

Co. Name

Address

No. Copies Requested Rag

Mail Charts To Same

Address

No. Copies Requested Rag

Formation Test No. 1 Interval Tested from 4355 ft. to 4380 ft. Total Depth 4380 ft.

Packer Depth 4350 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4355 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4361 ft.

Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4364 ft.

Recorder Number 15640 Cap. 6600

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor KAW

Drill Collar Length I. D. in.

Mud Type CHEM-DRISPA Viscosity 62

Weight Pipe Length 274 I. D. 2.8 in.

Weight 9.5 Water Loss 10.0 cc.

Drill Pipe Length 4302 I. D. 3.8 in.

Chlorides 15,000 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 O.D. in.

Jars: Make NO Serial Number NO

Anchor Length 25 ft. Size 5 1/2 O.D. 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 in.

Blow: I.F.P. - V. WEAK (1/4" under water) DIED TO Surface of water
F.F.P. - V. WEAK (Surface of water) Held steady

Recovered 125 ft. of Drilling fluid

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
NOV 16 1981

Time On Location 7:45 AM Time Pick Up Tool 11:00 AM Time Off Location 7:00 AM

Time Set Packer(s) 1:15 AM Time Started Off Bottom 3:15 AM Maximum Temperature 122°F

Initial Hydrostatic Pressure (A) 2123 P.S.I.

Initial Flow Period Minutes 30 (B) 64 P.S.I. to (C) 43 P.S.I.

Initial Closed In Period Minutes 30 (D) 1143 P.S.I.

Final Flow Period Minutes 30 (E) 86 P.S.I. to (F) 75 P.S.I.

Final Closed In Period Minutes 30 (G) 708 P.S.I.

Final Hydrostatic Pressure (H) 2070 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

Allen Smith
Signature of Customer or his authorized representative

Western Representative

Karl Geo West Jr. Thank you

FIELD INVOICE

Open Hole Test \$ 700.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage 71 \$ 53.25

Fluid Sampler \$

Extra Charts \$

Insurance \$

TOTAL \$ 753.25

WESTERN TESTING CO., INC.

Pressure Data

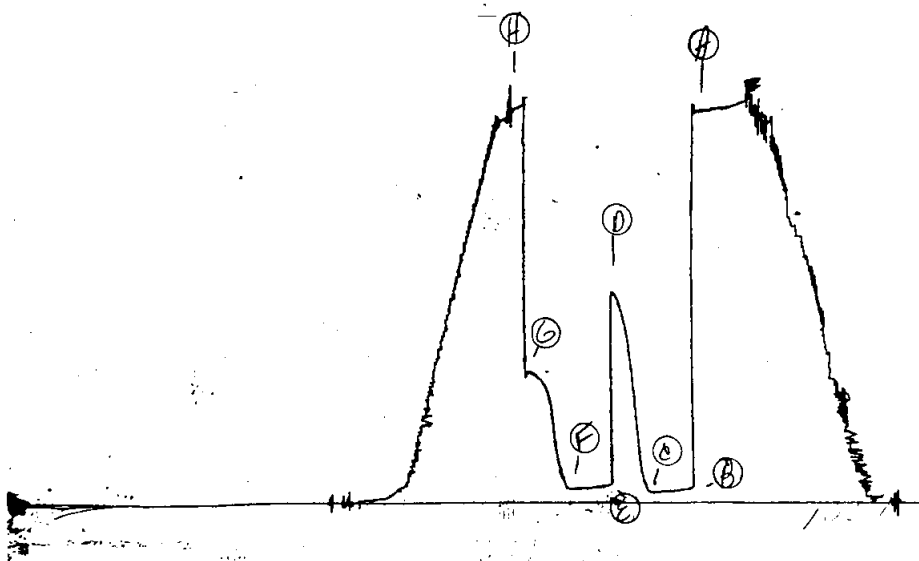
Date: 11-11 Recorder No. 1051 Capacity 4250 Test Ticket No. 14254 Location 4361 Ft.
 Clock No. Elevation Well Temperature 122 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2155</u> P.S.I.	<u>1:15</u> A	<u> </u> M
B First Initial Flow Pressure	<u>77</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>62</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1167</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>97</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>81</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
G Final Closed-in Pressure	<u>731</u> P.S.I.		
H Final Hydrostatic Mud	<u>2155</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>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>77</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>81</u>
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>69</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>108</u>
P 3 <u>10</u>	<u>72</u>	<u>6</u>	<u>123</u>	<u>10</u>	<u>92</u>	<u>6</u>	<u>172</u>
P 4 <u>15</u>	<u>69</u>	<u>9</u>	<u>256</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>265</u>
P 5 <u>20</u>	<u>66</u>	<u>12</u>	<u>450</u>	<u>20</u>	<u>85</u>	<u>12</u>	<u>409</u>
P 6 <u>25</u>	<u>62</u>	<u>15</u>	<u>646</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>559</u>
P 7 <u>30</u>	<u>62</u>	<u>18</u>	<u>825</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>636</u>
P 8 <u>35</u>		<u>21</u>	<u>962</u>	<u>35</u>		<u>21</u>	<u>672</u>
P 9 <u>40</u>		<u>24</u>	<u>1051</u>	<u>40</u>		<u>24</u>	<u>698</u>
P10 <u>45</u>		<u>27</u>	<u>1127</u>	<u>45</u>		<u>27</u>	<u>719</u>
P11 <u>50</u>		<u>30</u>	<u>1167</u>	<u>50</u>		<u>30</u>	<u>731</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>731</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>	

TKT # 14254
I



Company National Oil Company Lease & Well No. Smith #24-35

Elevation N/A Formation Mississippi Effective Pay - Ft. Ticket No. 14254

Date 11/11/81 Sec. 35 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Allen Smith Western Representative Karl L. West, Jr.

Formation Test No. 1 Interval Tested from 4355 ft. to 4380 ft. Total Depth 4380 ft.

Packer Depth 4350 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4355 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4361 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4364 ft. Recorder Number 15640 Cap. 6600

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

Drilling Contractor Kaw Drlg. Drill Collar Length - I. D. - in.

Mud Type chem-driscap Viscosity 62 Weight Pipe Length 274 I. D. 2.8 in.

Weight 9.5 Water Loss 10.0 cc. Drill Pipe Length 4302 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 25 ft. Size 5 1/2 OD in.

Did Well Flow? N O 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 in.

Blow: Initial flow period very weak (1/4" under water) died to surface of water. Final flow period very weak (surface of water) held steady.

Recovered 125 ft. of drilling fluid

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 122°

Initial Hydrostatic Pressure 2155 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 77 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period 30 Minutes (D) 1167 P.S.I.

Final Flow Period 30 Minutes (E) 97 P.S.I. to (F) 81 P.S.I.

Final Closed In Period 33 Minutes (G) 731 P.S.I.

Final Hydrostatic Pressure 2155 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/11/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 14254 Location 4361 Ft. ---
 Clock No. --- Elevation --- Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2155	P.S.I.	1:15A	M
B First Initial Flow Pressure	77	P.S.I.	30	Min 30
C First Final Flow Pressure	62	P.S.I.	30	Min 30
D Initial Closed-in Pressure	1167	P.S.I.	30	Min 30
E Second Initial Flow Pressure	97	P.S.I.	30	Min 33
F Second Final Flow Pressure	81	P.S.I.		
G Final Closed-in Pressure	731	P.S.I.		
H Final Hydrostatic Mud	2155	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>77</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>81</u>
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>69</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>108</u>
P 3 <u>10</u>	<u>72</u>	<u>6</u>	<u>123</u>	<u>10</u>	<u>92</u>	<u>6</u>	<u>172</u>
P 4 <u>15</u>	<u>69</u>	<u>9</u>	<u>256</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>265</u>
P 5 <u>20</u>	<u>66</u>	<u>12</u>	<u>450</u>	<u>20</u>	<u>85</u>	<u>12</u>	<u>409</u>
P 6 <u>25</u>	<u>62</u>	<u>15</u>	<u>646</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>559</u>
P 7 <u>30</u>	<u>62</u>	<u>18</u>	<u>825</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>636</u>
P 8		<u>21</u>	<u>962</u>			<u>21</u>	<u>672</u>
P 9		<u>24</u>	<u>1051</u>			<u>24</u>	<u>698</u>
P10		<u>27</u>	<u>1127</u>			<u>27</u>	<u>719</u>
P11		<u>30</u>	<u>1167</u>			<u>30</u>	<u>731</u>
P12						<u>33</u>	<u>731</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

~~1557 25~~

WESTERN TESTING CO., INC.

Pressure Data

Test Ticket No. 11-12 14318
 Order No. 1560 Capacity 4500 Location 4393 Ft.
 Well No. Elevation Well Temperature 117 °F

Int	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>2230</u> P.S.I.		<u>4:15</u> P	
First Initial Flow Pressure	<u>66</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>86</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
Initial Closed-in Pressure	<u>1320</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Initial Flow Pressure	<u>122</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Final Flow Pressure	<u>170</u> P.S.I.			
Final Closed-in Pressure	<u>1317</u> P.S.I.			
Final Hydrostatic Mud	<u>2164</u> P.S.I.			

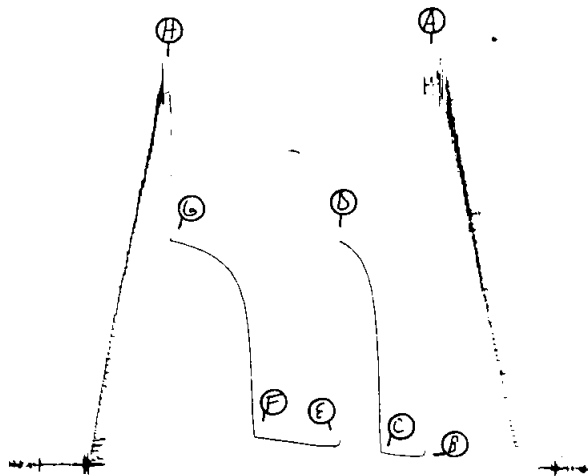
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Int ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	<u>66</u>	0	<u>86</u>	0	<u>122</u>	0	<u>170</u>
2	<u>66</u>	3	<u>640</u>	5	<u>122</u>	3	<u>579</u>
3	<u>66</u>	6	<u>912</u>	10	<u>122</u>	6	<u>847</u>
4	<u>68</u>	9	<u>1056</u>	15	<u>123</u>	9	<u>973</u>
5	<u>71</u>	12	<u>1137</u>	20	<u>127</u>	12	<u>1047</u>
6	<u>78</u>	15	<u>1189</u>	25	<u>133</u>	15	<u>1101</u>
7	<u>86</u>	18	<u>1227</u>	30	<u>139</u>	18	<u>1140</u>
8		21	<u>1258</u>	35	<u>144</u>	21	<u>1167</u>
9		24	<u>1277</u>	40	<u>148</u>	24	<u>1189</u>
0		27	<u>1297</u>	45	<u>153</u>	27	<u>1208</u>
1		30	<u>1312</u>	50	<u>159</u>	30	<u>1225</u>
2		33	<u>1320</u>	55	<u>164</u>	33	<u>1241</u>
3		36		60	<u>170</u>	36	<u>1252</u>
4		39		65		39	<u>1264</u>
5		42		70		42	<u>1273</u>
6		45		75		45	<u>1282</u>
7		48		80		48	<u>1288</u>
8		51		85		51	<u>1296</u>
9		54		90		54	<u>1304</u>
10		57				57	<u>1311</u>
		60				60	<u>1317</u>

TKT # 14318

1560

I



Company National Oil Company Lease & Well No. Smith #24-35

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 14318

Date 11/12/81 Sec. 35 Twp. 30S Range 7W Country Kingman State Kansas

Test Approved by D. F. Moore Western Representative L. Spencer

Formation Test No. 2 Interval Tested from 4380 ft. to 4410 ft. Total Depth 4410 ft.

Packer Depth 4375 ft. 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4380 ft. 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4393 ft. Recorder Number 1560 Cap. 4500

Bottom Recorder Depth (Outside) 4396 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Kaw Drilling Rig Drill Collar Length - I. D. - in.

Mud Type - Viscosity 62 Weight Pipe Length 305 I. D. 3 in.

Weight 9.5 Water Loss 10 cc. Drill Pipe Length 4055 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make = Serial Number = Anchor Length 30 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 3 1/2 in.

Weak blow throughout test.

Blow: 305 ft. of muddy water Chlorides 85,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: -

Time Set Packer(s) 4:15 A.M. P.M. Time Started Off Bottom 7:15 A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure 2230 P.S.I.

Initial Flow Period 30 Minutes (B) 66 P.S.I. to (C) 86 P.S.I.

Initial Closed In Period 33 Minutes (D) 1320 P.S.I.

Final Flow Period 60 Minutes (E) 122 P.S.I. to (F) 170 P.S.I.

Final Closed In Period 60 Minutes (G) 1317 P.S.I.

Final Hydrostatic Pressure 2164 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/12/81 Recorder No. 1560 Capacity 4500 Test Ticket No. 14318
 Clock No. -- Elevation --- Location 4393 Ft. ---
 Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2230 P.S.I.	4:15P	M
B First Initial Flow Pressure	66 P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	86 P.S.I.	30 Mins	33 Mins.
D Initial Closed-in Pressure	1320 P.S.I.	60 Mins	60 Mins.
E Second Initial Flow Pressure	122 P.S.I.	60 Mins	60 Mins.
F Second Final Flow Pressure	170 P.S.I.		
G Final Closed-in Pressure	1317 P.S.I.		
H Final Hydrostatic Mud	2164 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</u> Inc. 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>	66	0	86	0	122	0	170
P 2 <u>5</u>	66	3	640	5	122	3	579
P 3 <u>10</u>	66	6	912	10	122	6	847
P 4 <u>15</u>	68	9	1056	15	123	9	973
P 5 <u>20</u>	71	12	1137	20	127	12	1047
P 6 <u>25</u>	78	15	1189	25	133	15	1101
P 7 <u>30</u>	86	18	1227	30	138	18	1140
P 8		21	1258	35	144	21	1167
P 9		24	1277	40	148	24	1189
P10		27	1297	45	153	27	1208
P11		30	1312	50	159	30	1225
P12		33	1320	55	164	33	1241
P13				60	170	36	1252
P14						39	1264
P15						42	1273
P16						45	1282
P17						48	1288
P18						51	1296
P19						54	1304
P20						57	1311
						60	1317