

Company Graves Drilling Co., Inc. Lease & Well No. Nicklaus #1

Elevation -- Formation -- Effective Pay -- Ft. Ticket No. 1618

Date 6/5/79 Sec. 34 Twp 28S Range 6W County Kingman State Kansas

Test Approved by R. M. Lineham Western Representative Dave Sloan

Formation Test No. 1 Interval Tested from 4008 ft. to 4015 ft. Total Depth 4015 ft.

Packer Depth 4003 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4008 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4000 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 4011 ft. Recorder Number 5673 Cap. 5400

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

Drilling Contractor Graves Drilling Co. Drill Collar Length 90 I. D. 2.2 in.

Mud Type drispac Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 3891 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 27' ft. Tool Size 5 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 7' ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

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

Recovered 780 ft. of clean gassy oil 38 gravity corrected

Recovered 90 ft. of gas cut muddy oil 5% mud; 95% oil

Recovered 90 ft. of gas cut water chlorides 115,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Remarks: READ RECORDER #5673

Time Set Packer(s) 11:04 ~~A.M.~~ P.M. Time Started Off Bottom 1:49 ~~A.M.~~ P.M. Maximum Temperature 128

Initial Hydrostatic Pressure (A) 2105 P.S.I.

Initial Flow Period 15 Minutes (B) 87 P.S.I. to (C) 115 P.S.I.

Initial Closed In Period 45 Minutes (D) 1473 P.S.I.

Final Flow Period 60 Minutes (E) 134 P.S.I. to (F) 235 P.S.I.

Final Closed In Period 45 Minutes (G) 1373 P.S.I.

Final Hydrostatic Pressure (H) 2032 P.S.I.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 6/5/79 Ticket 1618 Company Graves Drilling Company, Inc.
Well Name and No. Nicklaus #1 Dst No. 1 Interval Tested 4008'-4015'
County Kingman State Kansas Sec. 34 Twp. 28S Rg. 6W

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
PRE FLOW						
	5 min.	50" of water	1" orifice			143,000 CFPD
	10 min.	72" of water	1" orifice			219,000 CFPD
	15 min.	90" of water	1" orifice			244,000 CFPD

SECOND FLOW						
	10 min.	18" of water	1 1/2" orifice			295,000 CFPD
	20 min.	18" of water	1 1/2" orifice			295,000 CFPD
	30 min.	16" of water	1 1/2" orifice			278,000 CFPD
	40 min.	14" of water	1 1/2" orifice			260,000 CFPD
	50 min.	14" of water	1 1/2" orifice			260,000 CFPD
	60 min.	12" of water	1 1/2" orifice			241,000 CFPD

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 6/5/79

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 Graves Drilling Co., Inc.
Authorized by R. M. Lineham

WESTERN TESTING CO., INC.

Pressure Data

Date 6/5/79 Test Ticket No. 1618
 Recorder No. 5673 Capacity 5400 Location 4011 Ft.
 Clock No. -- Elevation -- Well Temperature 128 °F

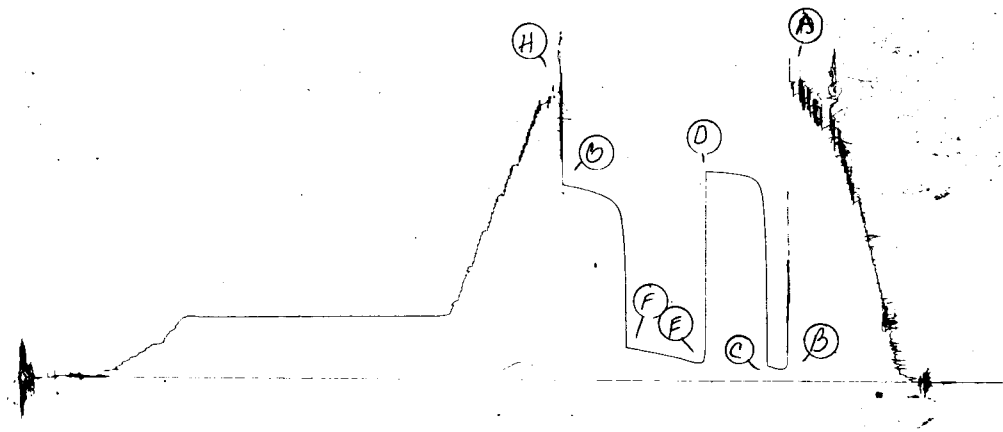
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2105	P.S.I.	11:04P	
B First Initial Flow Pressure	87	P.S.I.	15	15
C First Final Flow Pressure	115	P.S.I.	45	45
D Initial Closed-in Pressure	1473	P.S.I.	60	60
E Second Initial Flow Pressure	134	P.S.I.	45	45
F Second Final Flow Pressure	235	P.S.I.		
G Final Closed-in Pressure	1373	P.S.I.		
H Final Hydrostatic Mud	2032	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</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>87</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>235</u>
P 2 <u>5</u>	<u>85</u>	<u>3</u>	<u>932</u>	<u>5</u>	<u>126</u>	<u>3</u>	<u>1016</u>
P 3 <u>10</u>	<u>98</u>	<u>6</u>	<u>1303</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>1211</u>
P 4 <u>15</u>	<u>115</u>	<u>9</u>	<u>1386</u>	<u>15</u>	<u>153</u>	<u>9</u>	<u>1241</u>
P 5		<u>12</u>	<u>1422</u>	<u>20</u>	<u>164</u>	<u>12</u>	<u>1270</u>
P 6		<u>15</u>	<u>1435</u>	<u>25</u>	<u>178</u>	<u>15</u>	<u>1286</u>
P 7		<u>18</u>	<u>1443</u>	<u>30</u>	<u>183</u>	<u>18</u>	<u>1300</u>
P 8		<u>21</u>	<u>1449</u>	<u>35</u>	<u>194</u>	<u>21</u>	<u>1311</u>
P 9		<u>24</u>	<u>1454</u>	<u>40</u>	<u>205</u>	<u>24</u>	<u>1322</u>
P10		<u>27</u>	<u>1459</u>	<u>45</u>	<u>216</u>	<u>27</u>	<u>1332</u>
P11		<u>30</u>	<u>1462</u>	<u>50</u>	<u>224</u>	<u>30</u>	<u>1341</u>
P12		<u>33</u>	<u>1464</u>	<u>55</u>	<u>229</u>	<u>33</u>	<u>1349</u>
P13		<u>36</u>	<u>1466</u>	<u>60</u>	<u>235</u>	<u>36</u>	<u>1354</u>
P14		<u>39</u>	<u>1468</u>			<u>39</u>	<u>1362</u>
P15		<u>42</u>	<u>1471</u>			<u>42</u>	<u>1368</u>
P16		<u>45</u>	<u>1473</u>			<u>45</u>	<u>1373</u>
P17							
P18							
P19							
P20							

5673.

Tkt # 1618
0





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 1618.

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

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District PRATT Date 6-5-79 Customer Order No. _____

COMPANY NAME GRAVES DRILLING CO. INC.

ADDRESS 910 Union St.

LEASE AND WELL NO. NICKLAUS #1 COUNTY KINGMAN STATE KANS. Sec. 34 Twp. 28S Rge. 6W

Mail Invoice To SAME Co. Name _____ Address _____ No. Copies Requested Reg

Mail Charts To SAME Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4008 ft. to 4015 ft. Total Depth 4015 ft.

Packer Depth 4003 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4008 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4000 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 4011 ft. Recorder Number 5673 Cap. 5400

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

Drilling Contractor GRAVES DRILLING CO. Drill Collar Length 90' I. D. 2.2 in.

Mud Type DRIS PAC Viscosity 43 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 14.6 cc. Drill Pipe Length 3891 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 27' in. Tool Size 5 1/2 O.D.

Jars: Make _____ Serial Number _____ Anchor Length 7' ft. Size 5 1/2 O.D. in.

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

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

Blow: STRONG Blow Thru-out Test. GAS TO SURFACE
5 MIN. SEE FLOW SHEET.

Recovered 780 ft. of CL. GASEY OIL

Recovered 90 ft. of G.C. MUDY OIL

Recovered 90 ft. of G.C. WATER

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: READ RECORDER #5673

Time Set Packer(s) 11:04 A.M. Time Started Off Bottom 1:49 A.M. Maximum Temperature 128

Initial Hydrostatic Pressure _____ (A) 2105 P.S.I.

Initial Flow Period _____ Minutes 15 (B) 81 P.S.I. to (C) 95 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1470 P.S.I.

Final Flow Period _____ Minutes 60 (E) 122 P.S.I. to (F) 232 P.S.I.

Final Closed In Period _____ Minutes 45 (G) 1362 P.S.I.

Final Hydrostatic Pressure _____ (H) 2037 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.

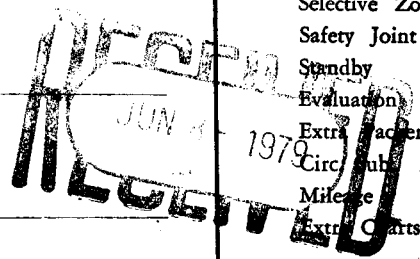
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature]
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

Nº 1930

Date 6-5-79 Ticket 1618 Company GRAVES DRIG. CO.
 Well Name and No. NICKLAUS #1 Dst No. 1 Interval Tested 4008-4015
 County KINGMAN State KANS. Sec. _____ Twp. _____ Rg. _____

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					
	<i>Inchs of WATER</i>				
5	50	1 INCH			143,000 C. F. P. D.
10	72	1 INCH			219,000 C. F. P. D.
15	90	1 INCH			244,000 C. F. P. D.

SECOND FLOW					
	<i>Inchs of WATER</i>				
10	18	1 1/2 INCH			295,000 C. F. P. D.
20	18	1 1/2 INCH			295,000 C. F. P. D.
30	16	1 1/2 INCH			278,000 C. F. P. D.
40	14	1 1/2 INCH			260,000 C. F. P. D.
50	14	1 1/2 INCH			260,000 C. F. P. D.
60	12	1 1/2 INCH			241,000 C. F. P. D.

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 6-5-79 Test Ticket No. 1618
 Recorder No. 5673 Capacity 5400 Location 4011 Ft.
 Clock No. Elevation Well Temperature 128 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2105</u> P.S.I.	<u>11:04</u> P.M.	
B First Initial Flow Pressure	<u>87</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>115</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1473</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>134</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>235</u> P.S.I.		
G Final Closed-in Pressure	<u>1373</u> P.S.I.		
H Final Hydrostatic Mud	<u>2032</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</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>87</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>235</u>
P 2 <u>5</u>	<u>85</u>	<u>3</u>	<u>932</u>	<u>5</u>	<u>126</u>	<u>3</u>	<u>1016</u>
P 3 <u>10</u>	<u>98</u>	<u>6</u>	<u>1303</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>1211</u>
P 4 <u>15</u>	<u>115</u>	<u>9</u>	<u>1386</u>	<u>15</u>	<u>153</u>	<u>9</u>	<u>1241</u>
P 5 <u>20</u>		<u>12</u>	<u>1422</u>	<u>20</u>	<u>164</u>	<u>12</u>	<u>1270</u>
P 6 <u>25</u>		<u>15</u>	<u>1435</u>	<u>25</u>	<u>178</u>	<u>15</u>	<u>1286</u>
P 7 <u>30</u>		<u>18</u>	<u>1443</u>	<u>30</u>	<u>183</u>	<u>18</u>	<u>1300</u>
P 8 <u>35</u>		<u>21</u>	<u>1449</u>	<u>35</u>	<u>194</u>	<u>21</u>	<u>1317</u>
P 9 <u>40</u>		<u>24</u>	<u>1454</u>	<u>40</u>	<u>205</u>	<u>24</u>	<u>1322</u>
P10 <u>45</u>		<u>27</u>	<u>1459</u>	<u>45</u>	<u>216</u>	<u>27</u>	<u>1332</u>
P11 <u>50</u>		<u>30</u>	<u>1462</u>	<u>50</u>	<u>224</u>	<u>30</u>	<u>1341</u>
P12 <u>55</u>		<u>33</u>	<u>1464</u>	<u>55</u>	<u>229</u>	<u>33</u>	<u>1349</u>
P13 <u>60</u>		<u>36</u>	<u>1466</u>	<u>60</u>	<u>235</u>	<u>36</u>	<u>1354</u>
P14		<u>39</u>	<u>1468</u>	<u>65</u>		<u>39</u>	<u>1362</u>
P15		<u>42</u>	<u>1471</u>	<u>70</u>		<u>42</u>	<u>1368</u>
P16		<u>45</u>	<u>1473</u>	<u>75</u>		<u>45</u>	<u>1373</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>	

Company Graves Drilling Company, Inc. Lease & Well No. Nicklaus #1
Elevation -- Formation -- Effective Pay -- Ft. Ticket No. 1619
Date 6/5/79 Sec. 34 Twp. 28S Range 6W County Kingman State Kansas
Test Approved by R. M. Lineham Western Representative Dave Sloan

Formation Test No. 2 Interval Tested from 4016 ft. to 4023 ft. Total Depth 4023 ft.

Packer Depth 4011 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4016 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4008 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 4019 ft. Recorder Number 5673 Cap. 5400

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

Drilling Contractor Graves Drilling Company

Drill Collar Length 90 I. D. 2.2 in.

Mud Type premix Viscosity 41

Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 12.4 cc.

Drill Pipe Length 3899 I. D. 3.8 in.

Chlorides 15,000 P.P.M.

Test Tool Length 27 ft. Tool Size 5 3/4 OD in.

Jars: Make -- Serial Number --

Anchor Length 7 ft. Size 5 3/4 OD

Did Well Flow? No Reversed Out -

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

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

Blow: Fair blow throughout test.

Recovered 15 ft. of slightly oil cut mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 3:42 ~~A.M.~~ P.M. Time Started Off Bottom 6:27 ~~A.M.~~ P.M. Maximum Temperature 125

Initial Hydrostatic Pressure (A) 2070 P.S.I.

Initial Flow Period 15 Minutes (B) 16 P.S.I. to (C) 5 P.S.I.

Initial Closed In Period 45 Minutes (D) 194 P.S.I.

Final Flow Period 60 Minutes (E) 26 P.S.I. to (F) 16 P.S.I.

Final Closed In Period 48 Minutes (G) 280 P.S.I.

Final Hydrostatic Pressure (H) 2021 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6/5/79 Test Ticket No. 1619
Recorder No. 6246 Capacity 5200 Location 4008 Ft.
Clock No. -- Elevation -- Well Temperature 125 °F

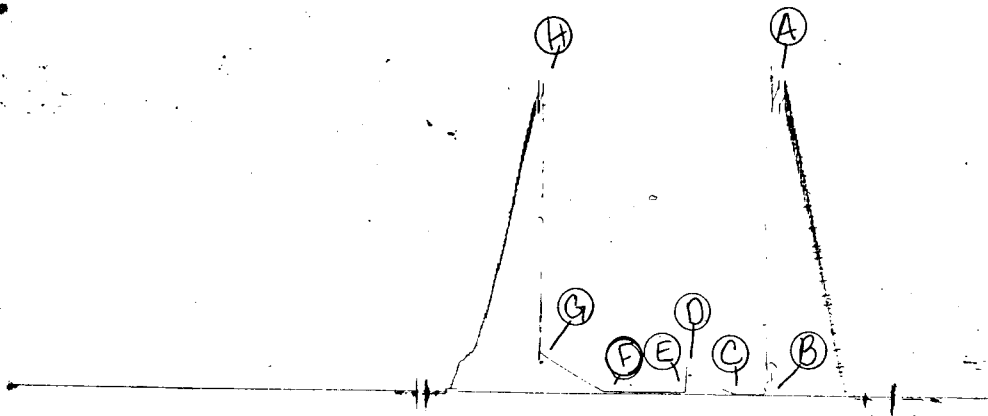
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2070</u> P.S.I.	Open Tool	<u>3:42P</u> M	
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>5</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>194</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>26</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>16</u> P.S.I.			
G Final Closed-in Pressure	<u>280</u> P.S.I.			
H Final Hydrostatic Mud	<u>2021</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</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>16</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>	<u>16</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>26</u>	<u>0</u>	<u>16</u>
P 2 <u>5</u>	<u>5</u>	<u>3</u>	<u>5</u>	<u>5</u>	<u>16</u>	<u>3</u>	<u>29</u>
P 3 <u>10</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>10</u>	<u>16</u>	<u>6</u>	<u>47</u>
P 4 <u>15</u>	<u>5</u>	<u>9</u>	<u>18</u>	<u>15</u>	<u>16</u>	<u>9</u>	<u>63</u>
P 5		<u>12</u>	<u>29</u>	<u>20</u>	<u>16</u>	<u>12</u>	<u>76</u>
P 6		<u>15</u>	<u>42</u>	<u>25</u>	<u>16</u>	<u>15</u>	<u>94</u>
P 7		<u>18</u>	<u>53</u>	<u>30</u>	<u>16</u>	<u>18</u>	<u>105</u>
P 8		<u>21</u>	<u>65</u>	<u>35</u>	<u>16</u>	<u>21</u>	<u>126</u>
P 9		<u>24</u>	<u>79</u>	<u>40</u>	<u>16</u>	<u>24</u>	<u>139</u>
P10		<u>27</u>	<u>94</u>	<u>45</u>	<u>16</u>	<u>27</u>	<u>160</u>
P11		<u>30</u>	<u>110</u>	<u>50</u>	<u>16</u>	<u>30</u>	<u>173</u>
P12		<u>33</u>	<u>128</u>	<u>55</u>	<u>16</u>	<u>33</u>	<u>194</u>
P13		<u>36</u>	<u>141</u>	<u>60</u>	<u>16</u>	<u>36</u>	<u>209</u>
P14		<u>39</u>	<u>165</u>			<u>39</u>	<u>230</u>
P15		<u>42</u>	<u>186</u>			<u>42</u>	<u>249</u>
P16		<u>45</u>	<u>194</u>			<u>45</u>	<u>267</u>
P17						<u>48</u>	<u>280</u>
P18							
P19							
P20							

Nicklaus #1 6246
DST #2

TR# 1619
I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 1619

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

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District PRATT Date 6-5-79 Customer Order No. _____
COMPANY NAME G. RAVES DRIG. Co. Inc.
ADDRESS Nichlaus #1
LEASE AND WELL NO. Nichlaus #1 COUNTY KINGMAN STATE KANS. Sec. 34 Twp. 28 Rge. 6W
Mail Invoice To SAME Co. Name _____ Address _____ No. Copies Requested Reg.
Mail Charts To SAME Address _____ No. Copies Requested Reg.

Formation Test No. 2 Interval Tested from 4016 ft. to 4023 ft. Total Depth 4023 ft.
Packer Depth 4011 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4016 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4008 ft. Recorder Number 6246 Cap. 5200
Bottom Recorder Depth (Outside) 4019 ft. Recorder Number 5673 Cap. 5400
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor G. RAVES DRIG. Co. Drill Collar Length 90' I. D. 2.2 in.
Mud Type PREMIX Viscosity 141 Weight Pipe Length _____ I. D. _____ in.
Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3899' I. D. 3.8 in.
Chlorides 15,000 P.P.M. Test Tool Length 21' in. Tool Size 5 3/4 in.
Jars: Make _____ Serial Number _____ Anchor Length 5' in. Size 5 3/4 in.
Did Well Flow? NO Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: STRONG BLOW THRU-OUT TEST.

Recovered 15 ft. of slightly oil cut mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

Time Set Packer(s) 3:42 A.M. Time Started Off Bottom 6:27 P.M. Maximum Temperature 125
Initial Hydrostatic Pressure _____ (A) 2044 P.S.I.
Initial Flow Period _____ Minutes 15 (B) 13 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 170 P.S.I.
Final Flow Period _____ Minutes 60 (E) 13 P.S.I. to (F) 13 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 235 P.S.I.
Final Hydrostatic Pressure _____ (H) 2018 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 [Signature]
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 6-5-79 Test Ticket No. 1619
 Recorder No. 6246 Capacity 5200 Location 4008 Ft.
 Clock No. Elevation Well Temperature 125 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2070 P.S.I. Open Tool 3:42 P M
 B First Initial Flow Pressure 16 P.S.I. First Flow Pressure 15 Mins 15 Mins.
 C First Final Flow Pressure 5 P.S.I. Initial Closed-in Pressure 45 Mins 45 Mins.
 D Initial Closed-in Pressure 194 P.S.I. Second Flow Pressure 60 Mins 60 Mins.
 E Second Initial Flow Pressure 26 P.S.I. Final Closed-in Pressure 45 Mins 48 Mins.
 F Second Final Flow Pressure 16 P.S.I.
 G Final Closed-in Pressure 280 P.S.I.
 H Final Hydrostatic Mud 2021 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</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>16</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 0	16	0	265	0	26	0	16
P 2 5	5	3	5	5	16	3	29
P 3 10	5	6	7	10		6	47
P 4 15	5	9	18	15		9	63
P 5 20		12	29	20		12	76
P 6 25		15	42	25		15	94
P 7 30		18	53	30		18	105
P 8 35		21	65	35		21	126
P 9 40		24	79	40		24	139
P10 45		27	94	45		27	160
P11 50		30	110	50		30	173
P12 55		33	128	55		33	194
P13 60		36	141	60	16	36	209
P14		39	165	63		39	230
P15		42	186	70		42	249
P16		45	194	75		45	267
P17		48		80		48	280
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	