

Company Don D. Ash Lease & Well No. Short #1
Elevation 1328 Kelly Bushing Stalnaker Effective Pay -- Ft. Ticket No. 3661
Date 5/8/80 Sec. 33 Twp. 31S Range 5W County Harper State Kansas
Test Approved by W. Webb (Day Driller) Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3322 ft. to 3327 ft. Total Depth 3327 ft.

Packer Depth 3322 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3317 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3315 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 3327 ft. Recorder Number 2605 Cap. 4150

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

Drilling Contractor Aspen Drilling Rig #3 Drill Collar Length -- I. D. -- in.

Mud Type salt-gel & Starch Viscosity 43 Weight Pipe Length -- I. D. -- in.

Weight 9.7 Water Loss 14 cc. Drill Pipe Length 3289 I. D. -- in.

Chlorides 94,000 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 403 Anchor Length 5 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes 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 IF in.

Blow: Weak blow building to fair first flow period; fair blow throughout second flow period.

Recovered 480 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:10 A.M. Time Started Off Bottom 9:55 A.M. Maximum Temperature ?

Initial Hydrostatic Pressure 1741 P.S.I.

Initial Flow Period 30 Minutes (B) 33 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period 21 Minutes (D) 1329 P.S.I.

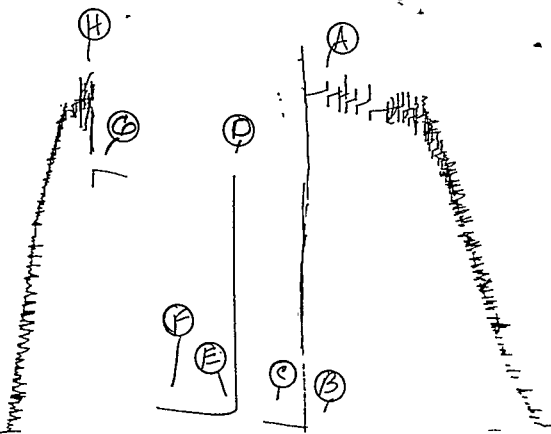
Final Flow Period 60 Minutes (E) 108 P.S.I. to (F) 141 P.S.I.

Final Closed In Period 45 Minutes (G) 1367 P.S.I.

Final Hydrostatic Pressure 1725 P.S.I.

5666
3661

TRC # 3661
I



WESTERN TESTING CO., INC.

Pressure Data

Date 5-8-80 Test Ticket No. 3661
 Recorder No. 5666 Capacity 3950 Location 5315 Ft.
 Clock No. --- Elevation 1328 Kelly Bushing Well Temperature -- °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1741</u> P.S.I.	<u>7:10</u> A. M.	
B First Initial Flow Pressure	<u>33</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>61</u> P.S.I.	<u>30</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>1329</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>108</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>141</u> P.S.I.		
G Final Closed-in Pressure	<u>1367</u> P.S.I.		
H Final Hydrostatic Mud	<u>1725</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>7</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>33</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>141</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>950</u>	<u>5</u>	<u>106</u>	<u>3</u>	<u>865</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>1157</u>	<u>10</u>	<u>102</u>	<u>6</u>	<u>1151</u>
P 4 <u>15</u>	<u>46</u>	<u>9</u>	<u>1235</u>	<u>15</u>	<u>102</u>	<u>8</u>	<u>1239</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>1275</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>1275</u>
P 6 <u>25</u>	<u>57</u>	<u>15</u>	<u>1301</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>1299</u>
P 7 <u>30</u>	<u>61</u>	<u>18</u>	<u>1319</u>	<u>30</u>	<u>114</u>	<u>18</u>	<u>1310</u>
P 8		<u>21</u>	<u>1329</u>	<u>35</u>	<u>119</u>	<u>21</u>	<u>1321</u>
P 9				<u>40</u>	<u>123</u>	<u>24</u>	<u>1333</u>
P10				<u>45</u>	<u>128</u>	<u>27</u>	<u>1342</u>
P11				<u>50</u>	<u>132</u>	<u>30</u>	<u>1353</u>
P12				<u>55</u>	<u>137</u>	<u>33</u>	<u>1356</u>
P13				<u>60</u>	<u>141</u>	<u>36</u>	<u>1359</u>
P14						<u>39</u>	<u>1362</u>
P15						<u>42</u>	<u>1365</u>
P16						<u>45</u>	<u>1367</u>
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 3661

Elevation 1328 Kb Formation Stal. Eff. Day Ft.

District Augusta

Date 5/8/80

Customer Order No.

COMPANY NAME Don D Ash

ADDRESS 951 South Rock Road Wichita Ks

LEASE AND WELL NO. Short #1 COUNTY Harper STATE Ks Sec. 33 Twp 31S Rge 5W

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Co. Name Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3322 ft. to 3327 ft. Total Depth 3327 ft.

Packer Depth 3322 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3317 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3315 ft.

Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 3327 ft.

Recorder Number 2605 Cap. 4150

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Aspen Rig #3

Drill Collar Length I. D. in.

Mud Type Salt Br 4 Straddle Viscosity 43

Weight Pipe Length I. D. in.

Weight 9.7 Water Loss 14 cc.

Drill Pipe Length 3289 I. D. in.

Chlorides 94,000 P.P.M.

Test Tool Length 33 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number

Anchor Length 5 ft. Size 5 1/2 in.

Did Well Flow? N.O. Reversed Out yes

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 IF in.

Blow: Weak blow building to fair first flow period, four blow through out second flow period

Recovered 480 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

On location 12 midnight, start packing tools up 3am, job completed 1230 AM

Time Set	Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure			(A) <u>1745</u>		P.S.I.
Initial Flow Period			Minutes <u>30</u>	(B) <u>30</u>	P.S.I. to (C) <u>61</u> P.S.I.
Initial Closed In Period			Minutes <u>30</u>	(D) <u>1324</u>	P.S.I.
Final Flow Period			Minutes <u>60</u>	(E) <u>102</u>	P.S.I. to (F) <u>132</u> P.S.I.
Final Closed In Period			Minutes <u>45</u>	(G) <u>1354</u>	P.S.I.
Final Hydrostatic Pressure			(H) <u>1745</u>		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 WW Webb Signature of Customer or his authorized representative

Western Representative Kenneth Kerkendall

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ <u> </u>
Straddle Test	\$ <u> </u>
Jars	\$ <u> </u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u>50.00</u>
Standby	\$ <u>30.00</u>
Evaluation	\$ <u> </u>
Extra Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Mileage X 754	\$ <u>50.25</u>
Fluid Sampler	\$ <u> </u>
Extra Charts	\$ <u> </u>

TOTAL

\$ 680.25

WESTERN TESTING CO., INC.

Pressure Data

Date 5-8-80 Test Ticket No. 3661
 Recorder No. 5666 Capacity 3950 Location 5315 Ft.
 Clock No. _____ Elevation 1328 AB Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1741</u> P.S.I.	<u>7:10</u> A	M
B. First Initial Flow Pressure	<u>33</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>61</u> P.S.I.	<u>30</u> Mins.	<u>21</u> Mins.
D. Initial Closed-in Pressure	<u>1329</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>108</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>141</u> P.S.I.		
G. Final Closed-in Pressure	<u>1367</u> P.S.I.		
H. Final Hydrostatic Mud	<u>1725</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>7</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>33</u>	0	<u>61</u>	0	<u>108</u>	0	<u>141</u>
P 2 5	<u>38</u>	3	<u>950</u>	5	<u>106</u>	3	<u>865</u>
P 3 10	<u>41</u>	6	<u>1157</u>	10	<u>102</u>	6	<u>1151</u>
P 4 15	<u>46</u>	9	<u>1235</u>	15	<u>102</u>	9	<u>1239</u>
P 5 20	<u>51</u>	12	<u>1275</u>	20	<u>104</u>	12	<u>1275</u>
P 6 25	<u>57</u>	15	<u>1301</u>	25	<u>108</u>	15	<u>1299</u>
P 7 30	<u>61</u>	18	<u>1319</u>	30	<u>114</u>	18	<u>1310</u>
P 8 35		21	<u>1329</u>	35	<u>119</u>	21	<u>1321</u>
P 9 40		24		40	<u>123</u>	24	<u>1333</u>
P10 45		27		45	<u>127</u>	27	<u>1342</u>
P11 50		30		50	<u>132</u>	30	<u>1353</u>
P12 55		33		55	<u>137</u>	33	<u>1356</u>
P13 60		36		60	<u>141</u>	36	<u>1359</u>
P14		39		65		39	<u>1362</u>
P15		42		70		42	<u>1365</u>
P16		45		75		45	<u>1367</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	