



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 13941

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

Elevation 1378 KB Formation CLEVELAND Eff. Pay Ft.

District AUGUSTA Date 11-5-82 Customer Order No.

COMPANY NAME AYLWARD DRILLING CO
ADDRESS 909 FIRST NAT'L BANK BLDG WICHITA, KS 67202
LEASE AND WELL NO. AYLWARD JOINT VENTURE "B" COUNTY COWLEY STATE KS Sec. 4 Twp. 31S Rge. 7E
Mail Invoice To SAME #1 AYLWARD JOINT No. Copies Requested 1
Co. Name SAME Address Address
Mail Charts To SAME VENTURE "B" No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2354 ft. to 2390 ft. Total Depth 2390 ft.
Packer Depth 2349 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2354 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2373 ft. Recorder Number 5666 Cap. 3950
Bottom Recorder Depth (Outside) 2376 ft. Recorder Number 3354 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor WTE #7 Drill Collar Length 279 I. D. 2 1/4 in.
Mud Type Chem Viscosity 38 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 10.6 cc. Drill Pipe Length 2057 I. D. 3.8 in.
Chlorides 800 P.P.M. Test Tool Length 25 ft. Tool Size 5 in.
Jars: Make - Serial Number - Anchor Length 36 ft. Size 5 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 XH in.

Blow: WEAK (1") thru out

Recovered 70 ft. of DRILL MUD w/ oil spots on top
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Remarks:

RECEIVED
NOV 8 - 1982

Time On Location 10:30 P.M. Time Pick Up Tool 11:20 P.M. Time Off Location 6:00 A.M.
Time Set Packer(s) 1:00 A.M. Time Started Off Bottom 3:30 A.M. Maximum Temperature 100°F
Initial Hydrostatic Pressure (A) 1185 P.S.I.
Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period Minutes 30 (D) 550 P.S.I.
Final Flow Period Minutes 60 (E) 60 P.S.I. to (F) 70 P.S.I.
Final Closed In Period Minutes 30 (G) 430 P.S.I.
Final Hydrostatic Pressure (H) 1175 P.S.I. #5666

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 Frank Hamlin
Signature of Customer or his authorized representative

Western Representative AMEN EDGINGTON

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 11-5 Test Ticket No. 13941
 Recorder No. 5666 Capacity 3950 Location 2372 Ft.
 Clock No. --- Elevation 1378 KB Well Temperature 100 °F

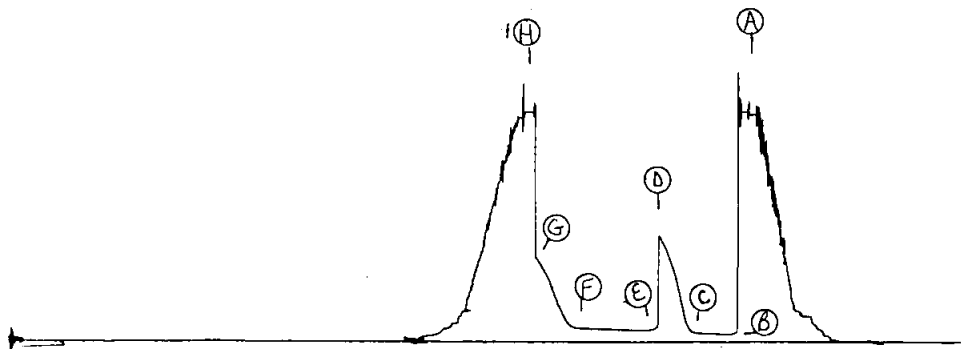
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1187</u> P.S.I.	<u>1:00</u> A M	
B First Initial Flow Pressure	<u>40</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>552</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>60</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>72</u> P.S.I.		
G Final Closed-in Pressure	<u>434</u> P.S.I.		
H Final Hydrostatic Mud	<u>1183</u> 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>10</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>10</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	<u>40</u>	0	<u>49</u>	0	<u>60</u>	0	<u>72</u>
P 2 5	<u>40</u>	3	<u>57</u>	5	<u>60</u>	3	<u>83</u>
P 3 10	<u>41</u>	6	<u>88</u>	10	<u>60</u>	6	<u>102</u>
P 4 15	<u>43</u>	9	<u>155</u>	15	<u>60</u>	9	<u>137</u>
P 5 20	<u>45</u>	12	<u>245</u>	20	<u>61</u>	12	<u>183</u>
P 6 25	<u>47</u>	15	<u>331</u>	25	<u>62</u>	15	<u>231</u>
P 7 30	<u>49</u>	18	<u>400</u>	30	<u>64</u>	18	<u>284</u>
P 8 35		21	<u>453</u>	35	<u>65</u>	21	<u>334</u>
P 9 40		24	<u>502</u>	40	<u>66</u>	24	<u>373</u>
P10 45		27	<u>540</u>	45	<u>67</u>	27	<u>408</u>
P11 50		30	<u>552</u>	50	<u>69</u>	30	<u>434</u>
P12 55		33		55	<u>71</u>	33	
P13 60		36		60	<u>72</u>	36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT # 13941

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Company Aylward Drilling Company Lease & Well No. #1Aylward Joint Venture "B"
 Elevation 1378 Kelly Bushing Formation Cleveland Effective Pay -- Ft. Ticket No. 13941
 Date 11/5/82 Sec. 4 Twp. 31S Range 7E County Cowley State Kansas
 Test Approved by Frank Hamlin Western Representative Allen Edgington
 Formation Test No. 1 Interval Tested from 2354 ft. to 2390 ft. Total Depth 2390 ft.
 Packer Depth 2349 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2354 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2372 ft. Recorder Number 5666 Cap 3950
 Bottom Recorder Depth (Outside) 2376 ft. Recorder Number 3354 Cap 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor White & Ellis Drlg. Rig #7 Drill Collar Length 279 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 10.6 cc. Drill Pipe Length 2057 I. D. 3.8 in.
 Chlorides 800 P.P.M. Test Tool Length 25 ft. Tool Size 5 in.
 Jars: Make - Serial Number - Anchor Length 36 ft. Size 5 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 XH in.

Blow: Weak (one inch) throughout test.

Recovered 70 ft. of drilling mud with oil spots on top.

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 1:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 100°
 Initial Hydrostatic Pressure 1187 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 40 P.S.I. to (C) 49 P.S.I.
 Initial Closed In Period 30 Minutes (D) 552 P.S.I.
 Final Flow Period 60 Minutes (E) 60 P.S.I. to (F) 72 P.S.I.
 Final Closed In Period 30 Minutes (G) 434 P.S.I.
 Final Hydrostatic Pressure 1183 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/5/82

Recorder No. 5666

Capacity 3950

Test Ticket No. 13941

Clock No. -- Elevation 1378 Kelly Bushing

Location 2372 Ft.

Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1187	P.S.I.	1:00A	M
B First Initial Flow Pressure	40	P.S.I.	30	Mins.
C First Final Flow Pressure	49	P.S.I.	30	Mins.
D Initial Closed-in Pressure	552	P.S.I.	60	Mins.
E Second Initial Flow Pressure	60	P.S.I.	30	Mins.
F Second Final Flow Pressure	72	P.S.I.		
G Final Closed-in Pressure	434	P.S.I.		
H Final Hydrostatic Mud	1183	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: 10 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>40</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>72</u>
P 2 <u>5</u>	<u>40</u>	<u>3</u>	<u>57</u>	<u>5</u>	<u>60</u>	<u>3</u>	<u>83</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>88</u>	<u>10</u>	<u>60</u>	<u>6</u>	<u>102</u>
P 4 <u>15</u>	<u>43</u>	<u>9</u>	<u>155</u>	<u>15</u>	<u>60</u>	<u>9</u>	<u>137</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>245</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>183</u>
P 6 <u>25</u>	<u>47</u>	<u>15</u>	<u>331</u>	<u>25</u>	<u>62</u>	<u>15</u>	<u>231</u>
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>400</u>	<u>30</u>	<u>64</u>	<u>18</u>	<u>284</u>
P 8		<u>21</u>	<u>453</u>	<u>35</u>	<u>65</u>	<u>21</u>	<u>334</u>
P 9		<u>24</u>	<u>502</u>	<u>40</u>	<u>66</u>	<u>24</u>	<u>373</u>
P10		<u>27</u>	<u>540</u>	<u>45</u>	<u>67</u>	<u>27</u>	<u>408</u>
P11		<u>30</u>	<u>552</u>	<u>50</u>	<u>69</u>	<u>30</u>	<u>434</u>
P12				<u>55</u>	<u>71</u>		
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P19							
P20							