



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 21880

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation Bart Elevation 1234KB Eff. Pay - Ft.

District Augusta Date 7-1-77 Customer Order No. -

COMPANY NAME Durine Equities, Inc.

ADDRESS 260 N. Rock road Suite 140 Wichita, Ks 67206

LEASE AND WELL NO. Mettling #1 COUNTY Cowley STATE Ks Sec. 36 Twp 30S Rge. 3E

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 O.K.  Misrun  Interval Tested From 2970 to 2990 Total Depth 2990

Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 2965 Ft. Size 6 3/4 Bottom Packer Depth 2970 Ft. Size 6 3/4

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -

Tool Size 4 1/2 Tool Joint Size 3 1/2 IF Anchor Length 20 Ft. Size 4 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2983 Ft. Clock No. 9102 Inside Depth 2986 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 Outside Bottom Make Kuster Cap. 4200 No. 1559 Inside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Outside

Time Set Packer 11:28 AM

Tool Open I.F.P. From 11:30 M. to 12:00 M. Hr. 30 Min. From (B) 15 P.S.I. To (C) 24 P.S.I.

Tool Closed I.C.I.P. From 12:00 M. to 12:30 M. Hr. 30 Min. (D) 40 P.S.I. To (E) 40 P.S.I.

Tool Open F.F.P. From 12:30 M. to 1:30 M. Hr. 60 Min. From (E) 23 P.S.I. To (F) 30 P.S.I.

Tool Closed F.C.I.P. From 1:30 M. to 2:00 P.M. Hr. 30 Min. (G) 31 P.S.I. To (H) 33 P.S.I.

Initial Hydrostatic Pressure (A) 1485 P.S.I. Final Hydrostatic Pressure (H) 1485 P.S.I. Maximum Temp. 106

INFORMATION

BLOW Break to very weak 10 minutes

Did Well Flow  Yes  No Recovery Total Ft. 20 Drilling mud w/ few specs of oil

Reversed Out  Yes  No Mud Type Chem Viscosity 40 Weight 9.4 Water Loss 15 cc. Chlorides 2000

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? Yw Where? -

DRILLING CONTRACTOR White & Ellis Drilling Co Length Drill Pipe 2140 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 450 ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 360 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 H90 In. Length D.S.T. Tool 40 ft.

Remarks

INVOICE SECTION

Open Hole Test	\$ 380.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 380.00

COMPANY TERMS  
Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By William C Broadley Western Representative Norman Allen  
Signature of Customer or his Authorized Representative Operator's Time \_\_\_\_\_ Hrs. /

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-1-77 Test Ticket No. 21880  
 Recorder No. 1562 Capacity 3150 Location 2983 Ft.  
 Clock No. 9102 Elevation 1234 KB Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1486</u> P.S.I.	Open Tool	<u>11:28 A</u> M	
B First Initial Flow Pressure	<del>24</del> <u>19</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>19</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>40</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>24</u> P.S.I.			
G Final Closed-in Pressure	<u>33</u> P.S.I.			
H Final Hydrostatic Mud	<u>1483</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<del>24</del> <u>19</u>	0	<u>19</u>	0	<u>30</u>	0	<u>24</u>
P 2 5	<del>24</del> <u>20</u>	3	<del>22</del> <u>20</u>	5	<u>24</u>	3	<u>25</u>
P 3 10	<del>24</del> <u>19</u>	6	<del>22</del> <u>22</u>	10	<u>22</u>	6	<u>26</u>
P 4 15	<del>24</del> <u>19</u>	9	<del>27</del> <u>25</u>	15	<u>21</u>	9	<u>27</u>
P 5 20	<del>24</del> <u>19</u>	12	<del>30</del> <u>27</u>	20	<u>21</u>	12	<u>28</u>
P 6 25	<del>24</del> <u>19</u>	15	<del>30</del> <u>30</u>	25		15	<u>29</u>
P 7 30	<del>24</del> <u>19</u>	18	<del>33</del> <u>33</u>	30		18	<u>30</u>
P 8 35		21	<del>35</del> <u>35</u>	35		21	<u>31</u>
P 9 40		24	<u>38</u>	40		24	<u>32</u>
P10 45		27	<u>40</u>	45		27	<u>33</u>
P11 50		30		50	<u>21</u>	30	<u>33</u>
P12 55		33		55	<u>24</u>	33	
P13 60		36		60	<u>24</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	



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Dunne Equities, Inc. Lease & Well No. Mettling #1

Elevation 1234 Kelly Bushing Formation Bartlesville Effective Pay - Ft. Ticker No. 21880

Date 7-1-77 Sec. 36 Twp. 30S Range 3E County Cowley State Kansas

Test Approved by Wilbur C. Bradley Western Representative Norman Allen

Formation Test No. 1 O.K.  Misrun  Interval Tested From 2970' to 2990' Total Depth 2990'

Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 2965 Ft. Size 6 3/4 Bottom Packer Depth 2970 Ft. Size 6 3/4

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size

Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 20 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2983 Ft. Clock No. 9102 Depth 2986 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 <sup>Inside</sup> ~~Outside~~ Bottom Make Kuster Cap. 4200 No. 1559 <sup>Inside</sup> ~~Outside~~

Below Straddle: Depth  Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~ Depth  Ft. Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~

Time Set Packer 11:28 AM

Tool Open I.F.P. From 11:30 M. to 12:00 PM. - Hr. 30 Min. From (B) 24 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 12:00 M. to 12:30 PM. - Hr. 30 Min (D) 40 P.S.I.

Tool Open F.F.P. From 12:30 M. to 1:30 PM. 1 Hr. - Min. From (E) 30 P.S.I. To (F) 24 P.S.I.

Tool Closed F.C.I.P. From 1:30 M. to 2:00 PM. - Hr. 30 Min. (G) 33 P.S.I.

Initial Hydrostatic Pressure (A) 1486 P.S.I. Final Hydrostatic Pressure (H) 1483 P.S.I. Maximum Temp. 106

### INFORMATION

BLOW Weak to very weak blow for 10 minutes.

Did Well Flow  Yes  No Recovery Total Ft. 20' drilling mud with few specks of oil.

Reversed Out  Yes  No Mud Type chem Viscosity 40 Weight 9.4 Water Loss 15.0 cc. Chlorides 2,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Jars: Size  In. Make  Ser. No.

Dual Packer  Did Packers Hold?  Did Tool Plug?  no Where?

DRILLING CONTRACTOR White & Ellis Drlg. Co. Length Drill Pipe? 2140 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 450 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 360 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 40 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-1-77 Test Ticket No. 21880  
 Recorder No. 1562 Capacity 3150 Location 2983 Ft.  
 Clock No. 9102 Elevation 1234 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1486 P.S.I.	Open Tool	11:28 AM	
B First Initial Flow Pressure	24 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	19 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	40 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	30 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	24 P.S.I.			
G Final Closed-in Pressure	33 P.S.I.			
H Final Hydrostatic Mud	1483 P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</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>24</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>24</u>
P 2 <u>5</u>	<u>20</u>	<u>3</u>	<u>20</u>	<u>5</u>	<u>24</u>	<u>3</u>	<u>25</u>
P 3 <u>10</u>	<u>19</u>	<u>6</u>	<u>22</u>	<u>10</u>	<u>22</u>	<u>6</u>	<u>26</u>
P 4 <u>15</u>	<u>19</u>	<u>9</u>	<u>25</u>	<u>15</u>	<u>21</u>	<u>9</u>	<u>27</u>
P 5 <u>20</u>	<u>19</u>	<u>12</u>	<u>27</u>	<u>20</u>	<u>21</u>	<u>12</u>	<u>28</u>
P 6 <u>25</u>	<u>19</u>	<u>15</u>	<u>30</u>	<u>25</u>	<u>21</u>	<u>15</u>	<u>29</u>
P 7 <u>30</u>	<u>19</u>	<u>18</u>	<u>33</u>	<u>30</u>	<u>21</u>	<u>18</u>	<u>30</u>
P 8 _____	_____	<u>21</u>	<u>35</u>	<u>35</u>	<u>21</u>	<u>21</u>	<u>31</u>
P 9 _____	_____	<u>24</u>	<u>38</u>	<u>40</u>	<u>21</u>	<u>24</u>	<u>32</u>
P10 _____	_____	<u>27</u>	<u>40</u>	<u>45</u>	<u>21</u>	<u>27</u>	<u>33</u>
P11 _____	_____	_____	_____	<u>50</u>	<u>21</u>	<u>30</u>	<u>33</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>24</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>24</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

11-1-# 21880

I.

(H)

(X)

(G)

(F)

(E)

(D)

(C)

(B)

1562