



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Kelly #1
Elevation 2332 Kelly Bushings Formation Kansas City Effective Pay --- Ft. Ticket No. 18713
Date 11-12-73 Sec. 28 Twp. 1S Range 26W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Gerrel D. Watch

Formation Test No. 1 O.K. Misrun --- Interval Tested From 3332' to 3359' Total Depth 3359'
Size Main Hole 6 3/4" Rat Hole --- Conv. B.T. --- Damaged --- Yes No Conv. B.T. --- Damaged --- Yes No
Top Packer Depth 3327 Ft. Size 5 1/2" Bottom Packer Depth 3332 Ft. Size 5 1/2"
Straddle No Conv. --- B.T. --- Damaged --- Yes --- No Packer Depth --- Ft. Size ---
Tool Size 4 1/2" OD Tool Joint Size 3 1/2" IF - 4" & 4 1/2" FH Anchor Length 27 Ft. Size 4 1/2" OD Surface Choke Size 3/8 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3340 Ft. Clock No. 9103 Depth 3345 Ft. Clock No. 8475
Top Make Kuster Cap. 4150 No. 2608 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4300 No. 1567 ~~Inside~~ ^{Outside}
Below Straddle: Depth --- Rec. No. --- Clock No. --- ~~Outside~~ ^{Inside} Depth --- Ft. Rec. No. --- Clock No. --- ~~Inside~~ ^{Outside}

Time Set Packer 9:12 P. M
Tool Open I.F.P. From 9:15 M. to 9:45 P.M. Hr. 30 Min. From (B) 22 P.S.I. To (C) 22 P.S.I.
Tool Closed I.C.I.P. From 9:45 M. to 10:15 P.M. Hr. 30 Min (D) 22 P.S.I.
Tool Open F.F.P. From 10:15 M. to 10:45 P.M. Hr. 30 Min. From (E) 22 P.S.I. To (F) 22 P.S.I.
Tool Closed F.C.I.P. From 10:45 M. to 11:15 P.M. Hr. 30 Min. (G) 22 P.S.I.
Initial Hydrostatic Pressure (A) 1822 P.S.I. Final Hydrostatic Pressure (H) 1753 P.S.I. Maximum Temp. 97

INFORMATION

BLOW Weak Blow for 10 minutes
Did Well Flow Yes No --- Recovery Total Ft. 3 feet Drilling Mud

Reversed Out Yes No --- Mud Type Chem Viscosity 41 Weight 9.8 Water Loss 11.6 cc. Chlorides ---
EXTRA EQUIPMENT: Type Circ. Sub. Plug Safety Joint No Jars: Size --- In. Make --- Ser. No. ---
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? ---

DRILLING CONTRACTOR --- Length Drill Pipe? 2132 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size --- In.
Length Weight Pipe 850 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 330 In. Length Drill Collars 330 Ft. I.D. Drill Collars 2.5 In.
Tool Joint Size --- In. Length D.S.T. Tool 47 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date November 12, 1973 Test Ticket No. 18713
 Recorder No. 2608 Capacity 4150 Location 3340 Ft.
 Clock No. 9103 Elevation 2332 Kelly Bushings Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1822</u>	P.S.I.	<u>9:12</u>	<u>P. M.</u>
B First Initial Flow Pressure	<u>22</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>22</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>22</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>22</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>22</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
G Final Closed-in Pressure	<u>22</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1753</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>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>22</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>22</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>22</u>	<u>5</u>	<u>22</u>	<u>3</u>	<u>22</u>
P 3 <u>10</u>	<u>22</u>	<u>6</u>	<u>22</u>	<u>10</u>	<u>22</u>	<u>6</u>	<u>22</u>
P 4 <u>15</u>	<u>22</u>	<u>9</u>	<u>22</u>	<u>15</u>	<u>22</u>	<u>9</u>	<u>22</u>
P 5 <u>20</u>	<u>22</u>	<u>12</u>	<u>22</u>	<u>20</u>	<u>22</u>	<u>12</u>	<u>22</u>
P 6 <u>25</u>	<u>22</u>	<u>15</u>	<u>22</u>	<u>25</u>	<u>22</u>	<u>15</u>	<u>22</u>
P 7 <u>30</u>	<u>22</u>	<u>18</u>	<u>22</u>	<u>30</u>	<u>22</u>	<u>18</u>	<u>22</u>
P 8		<u>21</u>	<u>22</u>			<u>21</u>	<u>22</u>
P 9		<u>24</u>	<u>22</u>			<u>24</u>	<u>22</u>
P10		<u>27</u>	<u>22</u>			<u>27</u>	<u>22</u>
P11		<u>30</u>	<u>22</u>			<u>30</u>	<u>22</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Kelly #1
Elevation 2527 Kelly Bushings Formation Kansas City Effective Pay --- Ft. Ticket No. 18714
Date 11-14-73 Sec. 28 Twp. 1S Range 26W County Decatur State Kansas
Test Approved by Jack M. Wharton Western Representative Gerrell Veatch

Formation Test No. 2 O.K. Misrun Interval Tested From 3328' to 3365' Total Depth 3654'
Size Main Hole 6 3/4" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 3323 Ft. Size 5 1/2" Bottom Packer Depth 3328 Ft. Size 5 1/2"
Straddle Yes Conv. B.T. Damaged Yes No Packer Depth 3365 Ft. Size 5 1/2"
Tool Size 4 1/2" OD Tool Joint Size 4 1/2" FH Anchor Length 37 Ft. Size 4 1/2" OD Surface Choke Size 3/8 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3335 Ft. Clock No. 9103 Depth 3340 Ft. Clock No. 8475
Top Make Kuster Cap. 4150 No. 2608 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4300 No. 1567 ~~Inside~~ ^{Outside}
Below Straddle: Depth --- Rec. No. --- Clock No. --- ~~Outside~~ ^{Inside} Depth --- Ft. Rec. No. --- Clock No. --- ~~Inside~~ ^{Outside}

Time Set Packer 12:56 P. M.
Tool Open I.F.P. From 1:00 M. to 1:30 P.M. Hr. 30 Min. From (B) 33 P.S.I. To (C) 36 P.S.I.
Tool Closed I.C.I.P. From 1:30 M. to 2:15 P.M. Hr. 45 Min (D) 954 P.S.I.
Tool Open F.F.P. From 2:15 M. to 2:45 P.M. Hr. 30 Min. From (E) 43 P.S.I. To (F) 43 P.S.I.
Tool Closed F.C.I.P. From 2:45 M. to 3:15 P.M. Hr. 30 Min. (G) 940 P.S.I.
Initial Hydrostatic Pressure (A) 1861 P.S.I. Final Hydrostatic Pressure (H) 1833 P.S.I. Maximum Temp. 97

INFORMATION

BLOW Weak Blow for 30 minutes
Did Well Flow Yes No Recovery Total Ft. 40 feet ~~watery~~ watery mud

Reversed Out Yes No Mud Type Chem Viscosity 36 Weight 9.7 Water Loss 12.0 cc. Chlorides ---
EXTRA EQUIPMENT: Type Circ. Sub. Plug Safety Joint No Jars: Size --- In. Make --- Ser. No. ---
Dual Packer Yes(3) Did Packers Hold? Yes Did Tool Plug? No Where? ---

DRILLING CONTRACTOR --- Length Drill Pipe 2400 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size --- In.
Length Weight Pipe 850 Ft. I.D. Weight Pip 2.7 In. Tool Joint Size --- In. Length Drill Collars 60 Ft. I.D. Drill Collars 2.5 In.
Tool Joint Size --- In. Length D.S.T. Tool 55 Ft. & 289 feet Tail Pipe

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date November 14, 1973 Test Ticket No. 18714
 Recorder No. 2608 Capacity 4150 Location 3335 Ft.
 Clock No. 9103 Elevation 2527 Kelly Bushings Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1861</u>	P.S.I.	<u>1:00</u>	<u>P. M.</u>
B First Initial Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
C First Final Flow Pressure	<u>36</u>	P.S.I.	<u>45</u>	<u>Mins. 43</u> Mins.
D Initial Closed-in Pressure	<u>954</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
E Second Initial Flow Pressure	<u>43</u>	P.S.I.	<u>30</u>	<u>Mins. 28</u> Mins.
F Second Final Flow Pressure	<u>43</u>	P.S.I.		
G Final Closed-in Pressure	<u>940</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1833</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 1 Min.

Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 9 Inc.
 of 3 mins. and a
 final inc. of 1 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>36</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>43</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>241</u>	<u>5</u>	<u>43</u>	<u>3</u>	<u>197</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>619</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>607</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>807</u>	<u>15</u>	<u>43</u>	<u>9</u>	<u>809</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>882</u>	<u>20</u>	<u>43</u>	<u>12</u>	<u>871</u>
P 6 <u>25</u>	<u>35</u>	<u>15</u>	<u>907</u>	<u>25</u>	<u>43</u>	<u>15</u>	<u>903</u>
P 7 <u>30</u>	<u>36</u>	<u>18</u>	<u>925</u>	<u>30</u>	<u>43</u>	<u>18</u>	<u>919</u>
P 8		<u>21</u>	<u>931</u>			<u>21</u>	<u>929</u>
P 9		<u>24</u>	<u>939</u>			<u>24</u>	<u>936</u>
P10		<u>27</u>	<u>944</u>			<u>27</u>	<u>939</u>
P11		<u>30</u>	<u>948</u>			<u>28</u>	<u>940</u>
P12		<u>33</u>	<u>950</u>				
P13		<u>36</u>	<u>952</u>				
P14		<u>39</u>	<u>953</u>				
P15		<u>42</u>	<u>954</u>				
P16		<u>43</u>	<u>954</u>				
P17							
P18							
P19							
P20							