



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Abercrombie Drilling, Inc. Lease & Well No. Orth #1
Elevation 2253' K.B. Ticket Number 3620
Date 11-28-63 Sec. 4 Twp. 14S Range 19W County Ellis State Kansas
Test Approved by Jerry Langrehr Western Representative Jack Toelkes

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3584' 8 to 3619' Total Depth 3619'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 3579 Ft. Size 6 3/4" Packer Depth 3584 Ft. Size 6 3/4"
Straddle ☐ Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 35 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>3610</u> Ft.	Clock No. <u>6892</u>	Depth <u>3613</u> Ft.	Clock No. <u>140</u>
	Top Make <u>Amerada</u> Cap. <u>3150#</u> No. <u>1562</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>57</u>	Inside ☐ Outside ☒
	Below Straddle: Depth _____ Clock No. _____	Inside ☐ Outside ☐	Depth _____ Ft. Clock No. _____	Inside ☐ Outside ☐
	Top Make _____ Cap. _____ No. _____	Inside ☐ Outside ☐	Bottom Make _____ Cap. _____ No. _____	Inside ☐ Outside ☐

Time Set Packer 5:02P M
Tool Open I.F.P. From 5:04P M to 5:09P M - Hr. 5 Min. From (B) 34 P.S.I. To (C) 34 P.S.I.
Tool Closed I.C.I.P. From 5:09P M. to 5:39P M. - Hr. 30 Min. (D) 591 P.S.I.
Tool Open F.F.P. From 5:39P M. to 6:39P M. 1 Hr. - Min. From (E) 39 P.S.I. To (F) 42 P.S.I.
Tool Closed F.C.I.P. From 6:39P M. to 7:09P M. - Hr. 30 Min. (G) 256 P.S.I.
Initial Hydrostatic Pressure (A) 1954 P.S.I. Final Hydrostatic Pressure (H) 1913 P.S.I.

SURFACE	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____

BLOW Very weak 5 mins. Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 30' Drilling Mud

Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 38 Weight 10.1 Maximum Temp. 110 °F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
Length Drill Pipe 3423 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 90 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 56 ft.

Remarks
Flushed tool after 10 mins. - OK

WESTERN TESTING CO., INC.

Pressure Data

Date 11-28-63 Test Ticket No. 3620
 Recorder No. 1562 Capacity 3150# Location 3610 Ft.
 Clock No. 6892 Elevation 2253' K.B. Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1954</u> P.S.I.	Opened Tool	<u>5:02 P</u>	<u>5:02 PM</u>
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>591</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>39</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>28</u> Mins.
F Second Final Flow Pressure	<u>42</u> P.S.I.			
G Final Closed-in Pressure	<u>256</u> P.S.I.			
H Final Hydrostatic Mud	<u>1913</u> P.S.I.			

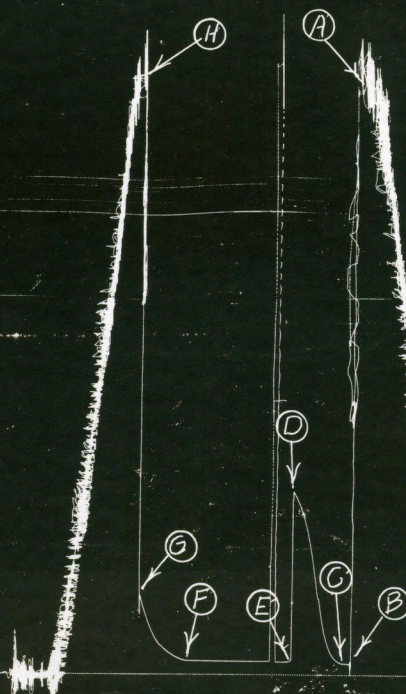
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>—</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>—</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>—</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>42</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>43</u>	<u>5</u>	<u>39</u>	<u>3</u>	<u>47</u>
P 3		<u>6</u>	<u>61</u>	<u>10</u>	<u>39</u>	<u>6</u>	<u>51</u>
P 4		<u>9</u>	<u>102</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>61</u>
P 5		<u>12</u>	<u>179</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>73</u>
P 6		<u>15</u>	<u>283</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>86</u>
P 7		<u>18</u>	<u>387</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>103</u>
P 8		<u>21</u>	<u>469</u>	<u>35</u>	<u>42</u>	<u>21</u>	<u>135</u>
P 9		<u>24</u>	<u>532</u>	<u>40</u>	<u>42</u>	<u>24</u>	<u>172</u>
P10		<u>27</u>	<u>572</u>	<u>45</u>	<u>42</u>	<u>27</u>	<u>228</u>
P11		<u>30</u>	<u>591</u>	<u>50</u>	<u>42</u>	<u>28</u>	<u>256</u>
P12				<u>55</u>	<u>42</u>		
P13				<u>60</u>	<u>42</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drilling Inc.
Orth #1

Test #1
TKT#3620



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	1954	PSI
(B)	First Initial Flow Pressure	34	PSI
(C)	First Final Flow Pressure	34	PSI
(D)	Initial Closed-in Pressure	591	PSI
(E)	Second Initial Flow Pressure	39	PSI
(F)	Second Final Flow Pressure	42	PSI
(G)	Final Closed-in Pressure	256	PSI
(H)	Final Hydrostatic Mud	1913	PSI



Home Office: Great Bend, Kansas
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Company Abercrombie Drilling, Inc. Lease & Well No. Orth #1
Elevation 2253' K.B. Ticket Number 3621
Date 11-29-63 Sec. 4 Twp. 14S Range 19W County Ellis State Kansas
Test Approved by Jerry Langrehr Western Representative Jack Toelkes

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3747' to 3769' Total Depth 3769'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☐ No ☐
Packer Depth 3743 Ft. Size 6 3/4" Packer Depth 3747 Ft. Size 6 3/4"
Straddle ☐ Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐

Packer Depth 3743 Ft. Size 6 3/4"
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 22 Ft. Size 5 1/2" OD

RECORDERS Depth 3761 Ft. Clock No. 6892 Depth 3764 Ft. Clock No. 140
Top Make Amerada Cap. 3150# No. 1562 Inside ☐ Outside ☒ Bottom Make Western Cap. 4000# No. 57 Inside ☐ Outside ☒
Below Straddle: Depth Clock No. Inside ☐ Outside ☐ Depth Ft. Clock No. Inside ☐ Outside ☐
Top Make Cap. No. Inside ☐ Outside ☐ Bottom Make Cap. No. Inside ☐ Outside ☐

Time Set Packer 9:32P M
Tool Open I.F.P. From 9:34P M to 9:39P M - Hr. 5 Min. From (B) 39 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 9:39P M. to 10:09P M. - Hr. 30 Min. (D) 606 P.S.I.
Tool Open F.F.P. From 10:09P M. to 11:09P M. 1 Hr. - Min. From (E) 42 P.S.I. To (F) 47 P.S.I.
Tool Closed F.C.I.P. From 11:09P M. to 11:34P M. - Hr. 30 Min. (G) 96 P.S.I.
Initial Hydrostatic Pressure (A) 2074 P.S.I. Final Hydrostatic Pressure (H) 2070 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION M.
 M.
 M.

BLOW Very weak for five mins. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 50' Drilling Mud

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 40 Weight 10.1 Maximum Temp. 111 °F
EXTRA EQUIPMENT: Dual Packers ☒ Yes Safety Joint ☐ No Jars: Size ☐ No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? ☐ No Where? Did Packer Hold? ☒ Yes
Length Drill Pipe 3635 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 90 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 44 ft.

Remarks Tool slid approximately 4' to bottom - Flushed tool after 12 mins. - OK

WESTERN TESTING CO., INC.

Pressure Data

Date 11-29-63 Test Ticket No. 3621
 Recorder No. 1562 Capacity 3150# Location 3761 Ft.
 Clock No. 6892 Elevation 2253' K.B. Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2074</u>	P.S.I.	<u>9:32 P</u>	<u>9:32 PM</u>
B First Initial Flow Pressure	<u>39</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>39</u>	P.S.I.	<u>30</u> Mins.	<u>28</u> Mins.
D Initial Closed-in Pressure	<u>606</u>	P.S.I.	<u>60</u> Mins.	<u>61</u> Mins.
E Second Initial Flow Pressure	<u>42</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>47</u>	P.S.I.		
G Final Closed-in Pressure	<u>96</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2070</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>1</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>39</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>89</u>	<u>5</u>	<u>42</u>	<u>3</u>	<u>48</u>
P 3		<u>6</u>	<u>130</u>	<u>10</u>	<u>42</u>	<u>6</u>	<u>51</u>
P 4		<u>9</u>	<u>195</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>58</u>
P 5		<u>12</u>	<u>248</u>	<u>20</u>	<u>47</u>	<u>12</u>	<u>64</u>
P 6		<u>15</u>	<u>313</u>	<u>25</u>	<u>47</u>	<u>15</u>	<u>70</u>
P 7		<u>18</u>	<u>381</u>	<u>30</u>	<u>47</u>	<u>18</u>	<u>78</u>
P 8		<u>21</u>	<u>452</u>	<u>35</u>	<u>47</u>	<u>21</u>	<u>84</u>
P 9		<u>24</u>	<u>507</u>	<u>40</u>	<u>47</u>	<u>24</u>	<u>91</u>
P10		<u>27</u>	<u>583</u>	<u>45</u>	<u>47</u>	<u>27</u>	<u>96</u>
P11		<u>28</u>	<u>606</u>	<u>50</u>	<u>47</u>		
P12				<u>55</u>	<u>47</u>		
P13				<u>60</u>	<u>47</u>		
P14				<u>61</u>	<u>47</u>		
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drilling Inc.
Orth #1

Test # 2
TKT#3621



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2074	PSI
(B) First Initial Flow Pressure	39	PSI
(C) First Final Flow Pressure	39	PSI
(D) Initial Closed-in Pressure	606	PSI
(E) Second Initial Flow Pressure	42	PSI
(F) Second Final Flow Pressure	47	PSI
(G) Final Closed-in Pressure	96	PSI
(H) Final Hydrostatic Mud	2070	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Abercrombie Drlg., Inc. Lease & Well No. Orth #1
Elevation 2253' K.B. Ticket Number 3622
Date 11-30-63 Sec. 4 Twp. 14S Range 19W County Ellis State Kansas
Test Approved by Jerry Langrehr Western Representative Jack Toelkes

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 3903' to 3910' Total Depth 3910'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☐ No ☐
Packer Depth 3898 Ft. Size 6 3/4" Packer Depth 3903 Ft. Size 6 3/4"
Straddle ☐ Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth Ft. Size
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 7 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>3891 A.P.</u> Ft.	Clock No. <u>6892</u>	Depth <u>3906</u> Ft.	Clock No. <u>140</u>
	Top Make <u>Amerada</u> Cap. <u>3150#</u> No. <u>1562</u>	Inside ☐ Outside ☐	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>57</u>	Inside ☐ Outside ☐
	Below Straddle: Depth <u> </u> Clock No. <u> </u>	Inside ☐ Outside ☐	Depth <u> </u> Ft. Clock No. <u> </u>	Inside ☐ Outside ☐
	Top Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside ☐ Outside ☐	Bottom Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside ☐ Outside ☐

Time Set Packer 3:00 A M
Tool Open I.F.P. From 3:02A M to 3:07A M - Hr. 5 Min. From (B) 9 P.S.I. To (C) 9 P.S.I.
Tool Closed I.C.I.P. From 3:07A M. to 3:37A M. - Hr. 30 Min. (D) 15 P.S.I.
Tool Open F.F.P. From 3:37A M. to 4:37A M. 1 Hr. - Min. From (E) 12 P.S.I. To (F) 12 P.S.I.
Tool Closed F.C.I.P. From 4:37A M. to 5:07A M. - Hr. 30 Min. (G) 23 P.S.I.
Initial Hydrostatic Pressure (A) 2154 P.S.I. Final Hydrostatic Pressure (H) 2138 P.S.I.

SURFACE	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>

BLOW Very weak 5 mins. Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft.

Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 45 Weight 10.2 Maximum Temp. 113 °F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? No Where? Did Packer Hold? Yes
Length Drill Pipe 3786 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 90 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 34 ft.

Remarks
Flushed tool twice after 10 mins. - OK

WESTERN TESTING CO., INC. Pressure Data

Date 11-30-63 Test Ticket No. 3622
Recorder No. 1562 Capacity 3150# Location 3891 Ft.
Clock No. 6892 Elevation 2253' K.B. Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2154</u>	P.S.I.	<u>3:00</u> A	<u>3:00</u> AM
B First Initial Flow Pressure	<u>9</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>9</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>15</u>	P.S.I.	<u>60</u> Mins.	<u>58</u> Mins.
E Second Initial Flow Pressure	<u>12</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>12</u>	P.S.I.		
G Final Closed-in Pressure	<u>23</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2138</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>11</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>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>3</u> Min.	final inc. of <u>-</u> Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>9</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>12</u>	<u>0</u>	<u>12</u>
P 2 <u>5</u>	<u>9</u>	<u>3</u>	<u>9</u>	<u>5</u>	<u>12</u>	<u>3</u>	<u>12</u>
P 3		<u>6</u>	<u>9</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>13</u>
P 4		<u>9</u>	<u>9</u>	<u>15</u>	<u>12</u>	<u>9</u>	<u>14</u>
P 5		<u>12</u>	<u>9</u>	<u>20</u>	<u>12</u>	<u>12</u>	<u>15</u>
P 6		<u>15</u>	<u>10</u>	<u>25</u>	<u>12</u>	<u>15</u>	<u>16</u>
P 7		<u>18</u>	<u>11</u>	<u>30</u>	<u>12</u>	<u>18</u>	<u>18</u>
P 8		<u>21</u>	<u>12</u>	<u>35</u>	<u>12</u>	<u>21</u>	<u>19</u>
P 9		<u>24</u>	<u>13</u>	<u>40</u>	<u>12</u>	<u>24</u>	<u>20</u>
P10		<u>27</u>	<u>14</u>	<u>45</u>	<u>12</u>	<u>27</u>	<u>21</u>
P11		<u>30</u>	<u>15</u>	<u>50</u>	<u>12</u>	<u>30</u>	<u>23</u>
P12				<u>55</u>	<u>12</u>		
P13				<u>58</u>	<u>12</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drilling Inc.
Orth #1

Test #3
TKT #3622



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2154	PSI
(B)	First Initial Flow Pressure	9	PSI
(C)	First Final Flow Pressure	9	PSI
(D)	Initial Closed-in Pressure	15	PSI
(E)	Second Initial Flow Pressure	12	PSI
(F)	Second Final Flow Pressure	12	PSI
(G)	Final Closed-in Pressure	23	PSI
(H)	Final Hydrostatic Mud	2138	PSI



Home Office: Great Bend, Kansas
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Company 12-1-63 - Abercrombie Drlg. Co. Lease & Well No. Orth #1
Elevation 2253' K.B. Ticket Number 3623
Date 12-1-63 Sec. 4 Twp. 14S Range 19W County Ellis State Kansas
Test Approved by Jerry Langrehr Western Representative Jack Toelkes

Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 3910' to 3920' Total Depth 3920'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 3905 Ft. Size 6 3/4" Packer Depth 3910 Ft. Size 6 3/4"
Straddle ☐ Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth Ft. Size
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 10 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>3913</u>	Ft.	Clock No. <u>6892</u>	Depth <u>3916</u>	Ft.	Clock No. <u>140</u>
	Top Make <u>Amerada</u>	Cap. <u>3150#</u>	No. <u>1562</u>	Bottom Make <u>Western</u>	Cap. <u>4000#</u>	No. <u>57</u>
			Inside ☐ Outside ☐			Inside ☐ Outside ☐
Below Straddle:	Depth <u> </u>		Clock No. <u> </u>	Depth <u> </u>		Clock No. <u> </u>
	Top Make <u> </u>	Cap. <u> </u>	No. <u> </u>	Bottom Make <u> </u>	Cap. <u> </u>	No. <u> </u>
			Inside ☐ Outside ☐			Inside ☐ Outside ☐

Time Set Packer 2:12P M
Tool Open I.F.P. From 2:14P M to 2:19P M - Hr. 5 Min. From (B) 15 P.S.I. To (C) 15 P.S.I.
Tool Closed I.C.I.P. From 2:19P M. to 2:49P M. - Hr. 30 Min. (D) 1069 P.S.I.
Tool Open F.F.P. From 2:49P M. to 3:49P M. 1 Hr. - Min. From (E) 25 P.S.I. To (F) 27 P.S.I.
Tool Closed F.C.I.P. From 3:49P M. to 4:19P M. - Hr. 30 Min. (G) 712 P.S.I.
Initial Hydrostatic Pressure (A) 2163 P.S.I. Final Hydrostatic Pressure (H) 2148 P.S.I.

SURFACE	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>

BLOW Very weak 5 mins. Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 35' Sli. wtry. mud with few specks dead oil

Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 46 Weight 10.2 Maximum Temp. 114 °F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? No Where? Did Packer Hold? Yes
Length Drill Pipe 3786 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 90 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 31 ft.

Remarks
Flushed tool after 10 mins. OK

WESTERN TESTING CO., INC.

Pressure Data

Date 12-1-63 Test Ticket No. 3623
 Recorder No. 1562 Capacity 3150# Location 3913 Ft.
 Clock No. 6892 Elevation 2253' K.B. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2163</u>	P.S.I.	<u>2:12 P</u>	<u>2:12 PM</u>
B First Initial Flow Pressure	<u>15</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>15</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1069</u>	P.S.I.	<u>60</u> Mins.	<u>59</u> Mins.
E Second Initial Flow Pressure	<u>25</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>27</u>	P.S.I.		
G Final Closed-in Pressure	<u>712</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2148</u>	P.S.I.		

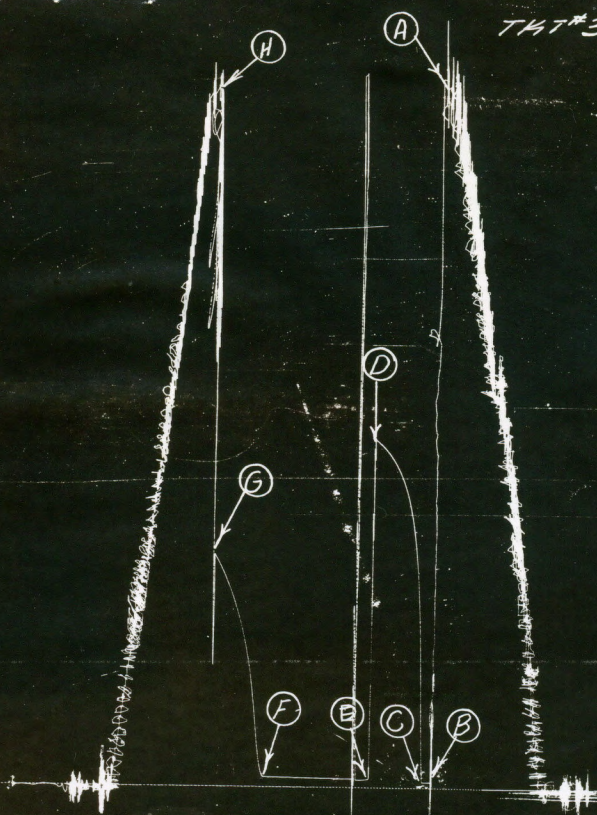
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>4</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>15</u>	<u>0</u>	<u>15</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>27</u>
P 2 <u>5</u>	<u>15</u>	<u>3</u>	<u>579</u>	<u>5</u>	<u>25</u>	<u>3</u>	<u>117</u>
P 3		<u>6</u>	<u>758</u>	<u>10</u>	<u>25</u>	<u>6</u>	<u>255</u>
P 4		<u>9</u>	<u>870</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>375</u>
P 5		<u>12</u>	<u>928</u>	<u>20</u>	<u>27</u>	<u>12</u>	<u>451</u>
P 6		<u>15</u>	<u>968</u>	<u>25</u>	<u>27</u>	<u>15</u>	<u>521</u>
P 7		<u>18</u>	<u>1003</u>	<u>30</u>	<u>27</u>	<u>18</u>	<u>575</u>
P 8		<u>21</u>	<u>1026</u>	<u>35</u>	<u>27</u>	<u>21</u>	<u>619</u>
P 9		<u>24</u>	<u>1058</u>	<u>40</u>	<u>27</u>	<u>24</u>	<u>659</u>
P10		<u>27</u>	<u>1069</u>	<u>45</u>	<u>27</u>	<u>27</u>	<u>692</u>
P11				<u>50</u>	<u>27</u>	<u>30</u>	<u>712</u>
P12				<u>55</u>	<u>27</u>		
P13				<u>59</u>	<u>27</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Abercrombie Drilg. Inc.
Orth #1

Test #4
THT#3623



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2163	PSI
(B)	First Initial Flow Pressure	15	PSI
(C)	First Final Flow Pressure	15	PSI
(D)	Initial Closed-in Pressure	1069	PSI
(E)	Second Initial Flow Pressure	25	PSI
(F)	Second Final Flow Pressure	27	PSI
(G)	Final Closed-in Pressure	712	PSI
(H)	Final Hydrostatic Mud	2148	PSI