

23-45-23W



TIGHT HOLE

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

Company **Abercrombie Drilling Inc.** Lease & Well No. **Doolittle #1**
Elevation **2391 Kelly Bushings** Formation **Toronto** Effective Pay _____ Ft. Ticket No. **13430**
Date **10-7-69** Sec. **23** Twp. **4S** Range **23W** County **Horton** State **Kansas**
Test Approved by **Jack K. Wharton** Western Representative **Kenneth Cheney**
Formation Test No. **1** O.K. ☒ Misrun _____ Interval Tested From **3468'** to **3520'** Total Depth **3520'**
Size Main Hole **7 7/8** Rat Hole _____ Conv. ☒ B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. ☒ Damaged Yes ☒ No
Top Packer Depth **3463** Ft. Size **6 3/4"** Packer Depth **3468** Ft. Size **6 3/4"**
Straddle Yes _____ No ☒ Conv. _____ B.T. _____ Damaged Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" FH-4" FH** Anchor Length **52** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3512** Ft. Clock No. **9725** Depth **3514** Ft. Clock No. **8378**
Top Make **Kuster** Cap. **4150** No. **2608** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4150** No. **1559** 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 **12:24** P. M.
Tool Open I.F.P. From **12:25** M. to **12:40 P.** M. Hr. **15** Min. From (B) **54** P.S.I. To (C) **52** P.S.I.
Tool Closed I.C.I.P. From **12:40** M. to **1:10 P.** M. Hr. **30** Min. (D) **1173** P.S.I.
Tool Open F.F.P. From **1:10** M. to **2:10 P.** M. Hr. **1** Min. From (E) **56** P.S.I. To (F) **64** P.S.I.
Tool Closed F.C.I.P. From **2:10** M. to **2:40 P.** M. Hr. **30** Min. (G) **912** P.S.I.
Initial Hydrostatic Pressure (A) **1966** P.S.I. Final Hydrostatic Pressure (H) **1930** P.S.I.
SURFACE Size Choke **3/8** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW **Weak thru-out test** Bottom Choke Size **3/4** In.
Did Well Flow Yes ☒ No _____ Recovery Total Ft. **80 feet oil speck mud**
6 feet free oil
Reversed Out Yes ☒ No _____ Mud Type **Starch** Viscosity **44** Weight **9.9** Water Loss **9.6** cc. Maximum Temp. **99** °F
Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **No** Did Packer Hold? **Yes** Where? _____
Length Drill Pipe **2560** ft. I.D. Drill Pipe **2.7** in. Length Weight Pipe **888** ft. I.D. Weight Pipe **3.8** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **72** ft.
Remarks _____

WESTERN TESTING CO., INC. Pressure Data

Date 10-7-69 Test Ticket No. 13430
 Recorder No. 2608 Capacity 4150 Location 3512 Ft.
 Clock No. 9725 Elevation 2391 Kelly Bushings Well Temperature 99 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1966 P.S.I. Open Tool 12:24 M
 B First Initial Flow Pressure 54 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 C First Final Flow Pressure 52 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 1173 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 56 P.S.I. Final Closed-in Pressure 30 Mins. 31 Mins.
 F Second Final Flow Pressure 64 P.S.I.
 G Final Closed-in Pressure 912 P.S.I.
 H Final Hydrostatic Mud 1930 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of <u>1</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
<u>0</u>	<u>54</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>64</u>
P 1 <u>5</u>	<u>47</u>	<u>3</u>	<u>214</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>118</u>
P 2 <u>10</u>	<u>48</u>	<u>6</u>	<u>869</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>301</u>
P 3 <u>15</u>	<u>52</u>	<u>9</u>	<u>1060</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>635</u>
P 4 _____	_____	<u>12</u>	<u>1105</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>774</u>
P 5 _____	_____	<u>15</u>	<u>1127</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>819</u>
P 6 _____	_____	<u>18</u>	<u>1140</u>	<u>30</u>	<u>60</u>	<u>18</u>	<u>846</u>
P 7 _____	_____	<u>21</u>	<u>1153</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>867</u>
P 8 _____	_____	<u>24</u>	<u>1161</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>882</u>
P 9 _____	_____	<u>27</u>	<u>1169</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>894</u>
P10 _____	_____	<u>30</u>	<u>1173</u>	<u>50</u>	<u>62</u>	<u>30</u>	<u>906</u>
P11 _____	_____	_____	_____	<u>55</u>	<u>63</u>	<u>31</u>	<u>912</u>
P12 _____	_____	_____	_____	<u>60</u>	<u>64</u>	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

Abercrombie Drly Co.
Doolittle #1

TKT 13430
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1972	1966	PSI
(B) First Initial Flow Pressure	52	54	PSI
(C) First Final Flow Pressure	52	52	PSI
(D) Initial Closed-in Pressure	1178	1173	PSI
(E) Second Initial Flow Pressure	62	56	PSI
(F) Second Final Flow Pressure	68	64	PSI
(G) Final Closed-in Pressure	913	912	PSI
(H) Final Hydrostatic Mud	1910	1930	PSI



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Abercrombie Drilling Inc.

Doolittle #1

Company _____ Lease & Well No. _____
Elevation **2391 Kelly Bushings** Formation **Lansing** Effective Pay **4** Ft. Ticket No. **13431**
Date **10-8-69** Sec. **23** Twp. **4S** Range **23W** County **Norton** State **Kansas**
Test Approved by **Jack K. Wharton** Western Representative **Kenneth Cheney**

Formation Test No. **2** O.K. ☒ Misrun _____ Interval Tested From **3536'** to **3578'** Total Depth **3578'**
Size Main Hole **7 7/8** Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No
Top Packer Depth **3531** Ft. Size **6 3/4"** Packer Depth **3536** Ft. Size **6 3/4"**
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" F.H. 4" FH** Anchor Length **42** Ft. Size **5 1/2" O.D.**

RECORDERS Depth **3570** Ft. Clock No. **9725** Depth **3572** Ft. Clock No. **8378**
Top Make **Kuster** Cap. **4150** No. **2608** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4150** No. **1559** 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 **4:04** **A.M.**
Tool Open I.F.P. From **4:05** M. to **4:25A.** M. Hr. **20** Min. From (B) **41** P.S.I. To (C) **83** P.S.I.
Tool Closed I.C.I.P. From **4:25** M. to **4:55A.** M. Hr. **30** Min. (D) **1186** P.S.I.
Tool Open F.F.P. From **4:55** M. to **5:55A.** M. **1** Hr. Min. From (E) **99** P.S.I. To (F) **214** P.S.I.
Tool Closed F.C.I.P. From **5:55** M. to **6:25A.** M. Hr. **30** Min. (G) **1099** P.S.I.
Initial Hydrostatic Pressure (A) **1903** P.S.I. Final Hydrostatic Pressure (H) **1880** P.S.I.

SURFACE Size Choke **3/8** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW **Good thru out test** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. **120 feet salty oil cut mud**
314 feet muddy water

Reversed Out _____ Yes _____ No _____ Mud Type **Chem.** Viscosity **44** Weight **9.9** Water Loss **13.4** cc. Maximum Temp. **99** °F
Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **--** Did Packer Hold? **Yes** Where? _____
Length Drill Pipe _____ ft. I.D. Drill Pipe **2.7** in. Length Weight Pipe **888** ft. I.D. Weight Pipe **3.8** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **62** ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 10-8-69 Test Ticket No. 13431
Recorder No. 2608 Capacity 4150 Location 3570 Ft.
Clock No. 9725 Elevation 2391 Kelly Bushings Well Temperature 99 °F

Point	Pressure	Time Given	A.	M	Time Computed
A Initial Hydrostatic Mud	1903 P.S.I.	4:04			
B First Initial Flow Pressure	41 P.S.I.	20			20 Mins.
C First Final Flow Pressure	83 P.S.I.	30			30 Mins.
D Initial Closed-in Pressure	1186 P.S.I.	60			60 Mins.
E Second Initial Flow Pressure	99 P.S.I.	30			30 Mins.
F Second Final Flow Pressure	214 P.S.I.				
G Final Closed-in Pressure	1099 P.S.I.				
H Final Hydrostatic Mud	1880 P.S.I.				

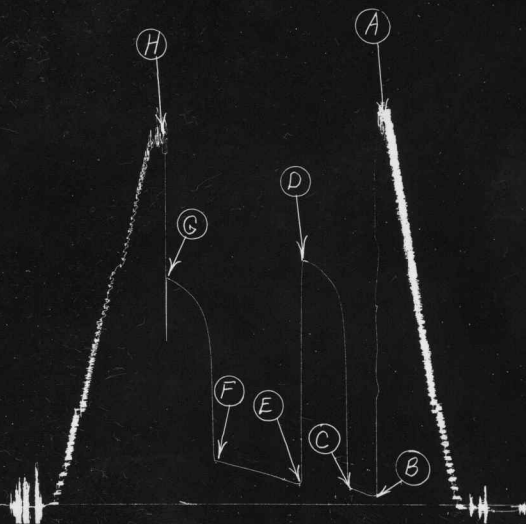
PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>4</u> Inc.	Breakdown: <u>10</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> </u> Min.	final inc. of <u> </u> Min.	final inc. of <u> </u> Min.	final inc. of <u> </u> Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	41	0	83	0	99	0	214
P 2	5	43	3	830	5	101	3	788
P 3	10	53	6	1004	10	114	6	904
P 4	15	72	9	1057	15	128	9	956
P 5	20	83	12	1086	20	138	12	989
P 6			15	1117	25	151	15	1016
P 7			18	1142	30	157	18	1037
P 8			21	1159	35	172	21	1053
P 9			24	1169	40	180	24	1070
P10			27	1180	45	191	27	1084
P11			30	1186	50	201	30	1099
P12					55	210		
P13					60	214		
P14								
P15								
P16								
P17								
P18								
P19								
P20								

Abercrombie DrLg. Inc.
Doolittle #1

T.K.T. # 13431
Test # 2



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1910	1903	PSI
(B) First Initial Flow Pressure	41	41	PSI
(C) First Final Flow Pressure	79	83	PSI
(D) Initial Closed-in Pressure	1188	1186	PSI
(E) Second Initial Flow Pressure	104	99	PSI
(F) Second Final Flow Pressure	214	214	PSI
(G) Final Closed-in Pressure	1099	1099	PSI
(H) Final Hydrostatic Mud	1878	1880	PSI



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23-46-23w.

Company **Abercrombie Drilling Inc.** Lease & Well No. **Doolittle #1**

Elevation **2391 Kelly Bushings** Formation **Lansing** Effective Pay _____ Ft. Ticket No. **13432**

Date **10-9-69** Sec. **23** Twp. **4S** Range **23W** County **Norton** State **Kansas**

Test Approved by **Jack K. Wharton** Western Representative **Kenneth Cheney**

Formation Test No. **3** O.K. ☒ Misrun _____ Interval Tested From **3580'** to **3625'** Total Depth **3625'**

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

Top Packer Depth **3575** Ft. Size **6 3/4"** Packer Depth **3580** Ft. Size **6 3/4"**

Straddle Yes _____ No ☒ Conv. _____ B.T. _____ Damaged Yes _____ No _____

Packer Depth _____ Ft. Size _____

Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" FH-4"FH** Anchor Length **45** Ft. Size **5 1/2" O.D.**

RECORDERS Depth **3618** Ft. Clock No. **9725** Depth **3620** Ft. Clock No. **8378**

Top Make **Kuster** Cap. **4150** No. **2608** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4150** No. **1559** 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 **7:14** **A** M

Tool Open I.F.P. From **7:15** M. to **7:30A.** M. Hr. **15** Min. From (B) **54** P.S.I. To (C) **93** P.S.I.

Tool Closed I.C.I.P. From **7:30** M. to **8:00A.** M. Hr. **30** Min. (D) **1227** P.S.I.

Tool Open F.F.P. From **8:00** M. to **9:00A.** M. Hr. **1** Min. From (E) **126** P.S.I. To (F) **291** P.S.I.

Tool Closed F.C.I.P. From **9:00** M. to **9:30 A.** M. Hr. **30** Min. (G) **1115** P.S.I.

Initial Hydrostatic Pressure (A) **1981** P.S.I. Final Hydrostatic Pressure (H) **1970** P.S.I.

SURFACE Size Choke **3/8** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____

INFORMATION _____ M. _____ M. _____ M. _____

BLOW **Good thru out** Bottom Choke Size **3/4** In.

Did Well Flow Yes ☒ No _____ Recovery Total Ft. **420 feet water cut mud**
180 feet muddy water

Reversed Out Yes ☒ No _____ Mud Type **Chem.** Viscosity **44** Weight **9.9** Water Loss **8.4** cc. Maximum Temp. **100** °F

Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **No** Did Packer Hold? **Yes** Where? _____

Length Drill Pipe **2672** ft. I.D. Drill Pipe **2.7** in. Length Weight Pipe **888** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool **65** ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 10-9-69 Test Ticket No. 13432
 Recorder No. 2608 Capacity 4150 Location 3618 Ft.
 Clock No. 9725 Elevation 2391 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1981</u>	P.S.I.	<u>7:14</u> P.M.	
B First Initial Flow Pressure	<u>54</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>93</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1227</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>126</u>	P.S.I.	<u>30</u> Mins.	<u>28</u> Mins.
F Second Final Flow Pressure	<u>291</u>	P.S.I.		
G Final Closed-in Pressure	<u>1115</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1970</u>	P.S.I.		

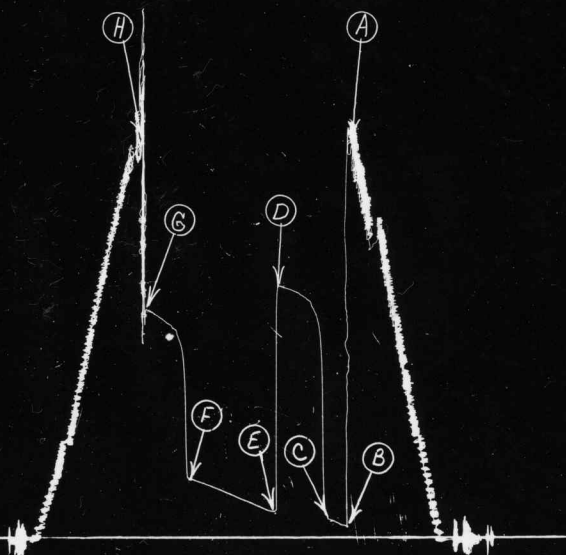
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of <u>1</u> Min.	

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>54</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>126</u>	<u>0</u>	<u>291</u>
P 2 <u>5</u>	<u>66</u>	<u>3</u>	<u>539</u>	<u>5</u>	<u>131</u>	<u>3</u>	<u>877</u>
P 3 <u>10</u>	<u>85</u>	<u>6</u>	<u>1033</u>	<u>10</u>	<u>145</u>	<u>6</u>	<u>977</u>
P 4 <u>15</u>	<u>93</u>	<u>9</u>	<u>1109</u>	<u>15</u>	<u>162</u>	<u>9</u>	<u>1022</u>
P 5 _____		<u>12</u>	<u>1153</u>	<u>20</u>	<u>176</u>	<u>12</u>	<u>1045</u>
P 6 _____		<u>15</u>	<u>1171</u>	<u>25</u>	<u>193</u>	<u>15</u>	<u>1060</u>
P 7 _____		<u>18</u>	<u>1184</u>	<u>30</u>	<u>210</u>	<u>18</u>	<u>1076</u>
P 8 _____		<u>21</u>	<u>1198</u>	<u>35</u>	<u>224</u>	<u>21</u>	<u>1091</u>
P 9 _____		<u>24</u>	<u>1209</u>	<u>40</u>	<u>241</u>	<u>24</u>	<u>1105</u>
P10 _____		<u>27</u>	<u>1217</u>	<u>45</u>	<u>253</u>	<u>27</u>	<u>1111</u>
P11 _____		<u>30</u>	<u>1223</u>	<u>50</u>	<u>268</u>	<u>28</u>	<u>1115</u>
P12 _____		<u>33</u>	<u>1227</u>	<u>55</u>	<u>280</u>		
P13 _____				<u>60</u>	<u>291</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Abercrombie Drilling Co.
Doolittle #1

T.K.T. # 13432
Test # 3



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1983	1981	PSI
(B) First Initial Flow Pressure	62	54	PSI
(C) First Final Flow Pressure	89	93	PSI
(D) Initial Closed-in Pressure	1244	1227	PSI
(E) Second Initial Flow Pressure	124	126	PSI
(F) Second Final Flow Pressure	301	291	PSI
(G) Final Closed-in Pressure	1130	1115	PSI
(H) Final Hydrostatic Mud	1972	1970	PSI



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23-45-23w
Company **Abercrombie Drilling Inc.** Lease & Well No. **Doolittle #1**
Elevation **2391 Kelly Bushings** Formation **Sand** Effective Pay **4** Ft. Ticket No. **13433**
Date **10-10-69** Sec. **23** Twp. **4S** Range **23W** County **Norton** State **Kansas**
Test Approved by **Jack K. Wharton** Western Representative **Kenneth Cheney**
Formation Test No. **4** O.K. ☐ Misrun ☒ Interval Tested From **3744'** to **3760'** Total Depth **3760'**
Size Main Hole **7 7/8** Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. ☐ Damaged Yes ☒ No
Top Packer Depth **3739** Ft. Size **6 3/4"** Packer Depth **3744** Ft. Size **6 3/4"**
Straddle Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size **5 1/2" O.D.** Tool Jt. Size **4 1/2" F.H.** Anchor Length **16** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3753** Ft. Clock No. **9725** Depth **3755** Ft. Clock No. **8378**
Top Make **Kuster** Cap. **4150** No. **2608** Inside ☐ Outside ☒ Bottom Make **Kuster** Cap. **4150** No. **1559** Inside ☐ Outside ☒
Below Straddle: Depth ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Clock No. ☐ Inside ☐ Outside ☐
Top Make ☐ Cap. ☐ No. ☐ Outside ☐ Bottom Make ☐ Cap. ☐ No. ☐ Outside ☐
Time Set Packer **8:09** **A.M.**
Tool Open I.F.P. From **8:10** M. to **8:25A.** M. Hr. **15** Min. From (B) **29** P.S.I. To (C) **54** P.S.I.
Tool Closed I.C.I.P. From **8:25** M. to **8:55A.** M. Hr. **30** Min. (D) **1078** P.S.I.
Tool Open F.F.P. From ☐ M. to ☐ M. Hr. ☐ Min. From (E) ☐ P.S.I. To (F) ☐ P.S.I.
Tool Closed F.C.I.P. From ☐ M. to ☐ M. Hr. ☐ Min. (G) ☐ P.S.I.
Initial Hydrostatic Pressure (A) **2026** P.S.I. Final Hydrostatic Pressure (H) **2016** P.S.I.
SURFACE Size Choke **3/8** In. Max. Press. P.S.I. ☐ Time ☐ Description of Flow ☐
INFORMATION ☐ M. ☐
☐ M. ☐
☐ M. ☐
BLOW **Very weak for 7 minutes and died** Bottom Choke Size **3/4** In.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. **180 feet mud**
Reversed Out Yes ☒ No ☐ Mud Type **Chem.** Viscosity **44** Weight **10.0** Water Loss **10.4** cc. Maximum Temp. **102** °F
Type Circ. Sub. **Plug** Did Tool Plug? **No** Jars: Size ☐ Make ☐ Ser. No. ☐
EXTRA EQUIPMENT: Dual Packers **Yes** Safety Joint **No** Did Packer Hold? **for 12 minutes** Where? ☐
Length Drill Pipe ☐ ft. I.D. Drill Pipe **2.8** in. Length Weight Pipe **888** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D.S.T. Tool **36** ft.
Remarks **Packer failed after ICIP and some on I.F.**

WESTERN TESTING CO., INC. Pressure Data

Date 10-10-69 Test Ticket No. 13433
 Recorder No. 2608 Capacity 4150 Location 3753 Ft.
 Clock No. 9725 Elevation 2391 Kelly Bushings Well Temperature 102 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2026</u> P.S.I.	<u>8:09</u>	<u>A_M</u>
B First Initial Flow Pressure	<u>29</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	P.S.I.	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.	Mins.	Mins.
G Final Closed-in Pressure	P.S.I.		
H Final Hydrostatic Mud	<u>2016</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>3</u> Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.
of <u>5</u> mins. and a	of _____ mins. and a	of _____ mins. and a	of _____ mins. and a
final inc. of _____ Min.	final inc. of _____ Min.	final inc. of _____ Min.	final inc. of _____ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>54</u>				
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>54</u>				
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>False bottom hole</u>		<u>None Taken</u>		
P 4 <u>15</u>	<u>54</u>		<u>pressures -</u>				
P 5 _____			<u>Movement caused by</u>				
P 6 _____			<u>cuttings in hole</u>				
P 7 _____							
P 8 _____							
P 9 _____							
P10 _____							
P11 _____							
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Abercrombie DrLg. Inc.
Doolittle #1

T.K.T. # 13433
Test # 4



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2026	2026	PSI
(B) First Initial Flow Pressure	27	29	PSI
(C) First Final Flow Pressure	50	54	PSI
(D) Initial Closed-in Pressure	1078	?	PSI
(E) Second Initial Flow Pressure			PSI
(F) Second Final Flow Pressure			PSI
(G) Final Closed-in Pressure			PSI
(H) Final Hydrostatic Mud	2016	2016	PSI



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

23-45-23w

Company Abercrombie Drilling Co. Lease & Well No. Doolittle #1

Elevation 2391 Kelly Bushings Formation Sand Effective Pay _____ Ft. Ticket No. 13434

Date 10-10-69 Sec. 23 Twp. 4S Range 23W County Norton State Kansas

Test Approved by Jack K. Wharton Western Representative Kenneth Cheney

Formation Test No. 5 O.K. X Misrun _____ Interval Tested From 3728' to 3771' Total Depth 3771'

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

Top Packer Depth 3723 Ft. Size 6 3/4" Packer Depth 3728 Ft. Size 6 3/4"

Straddle _____ Yes _____ No X Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" FH-4" FH Anchor Length 43 Ft. Size 5 1/2" O.D.

RECORDERS	Depth	Ft.	Clock No.	Inside	Depth	Ft.	Clock No.	Inside
Top Make <u>Kuster</u> Cap. <u>4150</u> No. <u>2608</u>	<u>3764</u>		<u>9725</u>	<u>Outside</u>	Bottom Make <u>Kuster</u> Cap. <u>4150</u> No. <u>1559</u>	<u>3766</u>	<u>8378</u>	<u>Inside</u>
Below Straddle: Depth _____ Clock No. _____				<u>Inside</u>	Depth _____ Ft. _____ Clock No. _____			<u>Inside</u>
Top Make _____ Cap. _____ No. _____				<u>Outside</u>	Bottom Make _____ Cap. _____ No. _____			<u>Outside</u>

Time Set Packer 7:39 P. M

Tool Open I.F.P. From 7:40 M. to 8:10P. M. Hr. 30 Min. From (B) 35 P.S.I. To (C) 33 P.S.I.

Tool Closed I.C.I.P. From 8:10 M. to 8:40P. M. Hr. 30 Min. (D) 824 P.S.I.

Tool Open F.F.P. From 8:40 M. to 8:55P. M. Hr. 15 Min. From (E) 35 P.S.I. To (F) 35 P.S.I.

Tool Closed F.C.I.P. From 8:55 M. to 9:25P. M. Hr. 30 Min. (G) 710 P.S.I.

Initial Hydrostatic Pressure (A) 2095 P.S.I. Final Hydrostatic Pressure (H) 2050 P.S.I.

SURFACE	Size Choke	In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u>3/8</u>			M.	
				M.	
				M.	

BLOW Weak for 30 minutes Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes X No _____ Recovery Total Ft. 30 feet mud with oil spots in top of tool.

Reversed Out _____ Yes X No _____ Mud Type Chem Viscosity 50 Weight 10.3 Water Loss 8.8 cc. Maximum Temp. 102 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____

Length Drill Pipe 2820 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe 888 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 63 ft.

Remarks _____

WESTERN TESTING CO., INC. Pressure Data

Date 10-9-69 Test Ticket No. 13434
 Recorder No. 2608 Capacity 4150 Location 3764 Ft.
 Clock No. 9725 Elevation 2391 Kelly Bushings Well Temperature 102 °F

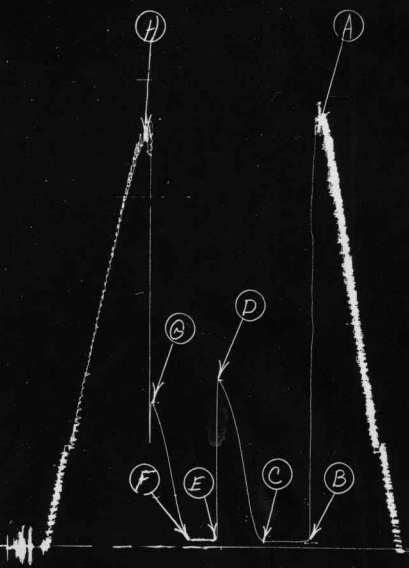
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2095</u> P.S.I.	Open Tool	<u>7:39 P.</u> M	
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>824</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>35</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>28</u> Mins.
F Second Final Flow Pressure	<u>35</u> P.S.I.			
G Final Closed-in Pressure	<u>710</u> P.S.I.			
H Final Hydrostatic Mud	<u>2050</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>3</u> Inc.		Breakdown: <u>9</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of <u>1</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>35</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>41</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>72</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>83</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>120</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>166</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>239</u>
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>305</u>			<u>12</u>	<u>353</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>458</u>			<u>15</u>	<u>474</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>576</u>			<u>18</u>	<u>565</u>
P 8 _____		<u>21</u>	<u>658</u>			<u>21</u>	<u>640</u>
P 9 _____		<u>24</u>	<u>728</u>			<u>24</u>	<u>673</u>
P10 _____		<u>27</u>	<u>776</u>			<u>27</u>	<u>693</u>
P11 _____		<u>30</u>	<u>824</u>			<u>28</u>	<u>710</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Abercrombie DrLg. Co.
Doolittle #1

T.K.T.# 13434
Test# 5



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2097	2095	PSI
(B) First Initial Flow Pressure	35	35	PSI
(C) First Final Flow Pressure	35	33	PSI
(D) Initial Closed-in Pressure	824	824	PSI
(E) Second Initial Flow Pressure	39	35	PSI
(F) Second Final Flow Pressure	39	35	PSI
(G) Final Closed-in Pressure	716	710	PSI
(H) Final Hydrostatic Mud	2050	2050	PSI