



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

Company Abercrombie Drilling Company Lease & Well No. Vahling #1
Elevation 2616 Kelly Bushings Formation Kansas City Ticket Number 5374
Date April 15, 1966 Sec. 24 Twp. 6 Range 26 County Sheridan State Kansas
Test Approved by Jerry Langrehr Western Representative Leon Elmore

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3700' to 3780' Total Depth 4270'
Size Main Hole 7 5/8 Hole 6 3/4 Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No _____
Packer Depth 3700 Ft. Size 6 3/4 Packer Depth 3780 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 80 Ft. Size 62 - D.P. 18" 45-0, D.
RECORDERS Depth 3769 Ft. Clock No. 8378 Depth 3772 Ft. Clock No. 5665
Top Make Kuster Cap. 4300 No. 1566 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth 4270 Ft. Clock No. 139 Inside Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside

Time Set Packer 10:00 A M
Tool Open I.F.P. From 10:11 M to 10:26 M Hr. 15 Min. From (B) 75 P.S.I. To (C) 216 P.S.I.
Tool Closed I.C.I.P. From 10:26 M. to 10:56 M. Hr. 30 Min. (D) 1226 P.S.I.
Tool Open F.F.P. From 10:56 M. to 12:11 M. 1 Hr. 15 Min. From (E) 259 P.S.I. To (F) 378 P.S.I.
Tool Closed F.C.I.P. From 12:11 M. to 12:41 M. Hr. 30 Min. (G) 1184 P.S.I.
Initial Hydrostatic Pressure (A) 1950 P.S.I. Final Hydrostatic Pressure (H) 1928 P.S.I.

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

BLOW Strong - surging Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 590' mud

Reversed Out _____ Yes ☒ No _____ Mud Type starch Viscosity 43 Weight 9.8 Maximum Temp. 102 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Jars: Size 3 1/2 OD Make Bowen Ser. No. 2330
Type Circ. Sub. plug Did Tool Plug? partially Where? anchor Did Packer Hold? yes

Length Drill Pipe 3465 ft. I.D. Drill Pipe _____ in Length Weight Pipe 468 ft. I.D. Weight Pipe _____ in Length Drill Collars 314 ft.
I. D. Drill Collars _____ in Length D.S.T. Tool 59 ft.

Remarks Flushed tool 20 and 35 minutes.



Home Office: Great Bend, Kansas
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Company Abercrombie Drilling Company Lease & Well No. Vahling #1
Elevation 2616 Kelly Bushings Formation Kansas City Ticket Number 5375
Date April 16, 1966 Sec. 24 Twp. 6 Range 26 County Sheridan State Kansas
Test Approved by Jerry Langrehr Western Representative Leon Elmore

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3699' 3780' Total Depth 4270'
Size Main Hole 7 7/8 Rat Hole 6 3/4 Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 3699 Ft. Size 6 3/4 Packer Depth 3780 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 81 Ft. Size 31-W.P. 50 - 5 1/2 OD
RECORDERS Depth 3769 Ft. Clock No. 8378 Depth 3772 Ft. Clock No.
Top Make Kuster Cap. 4300 No. 1566 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside
Below Straddle: Depth 4270 Clock No. 139 ~~Inside~~ Outside Depth Ft. Clock No.
Top Make Western Cap. 4000 No. 60 ~~Inside~~ Outside Bottom Make Cap. No. ~~Inside~~ Outside

Time Set Packer 1:30 A M
Tool Open I.F.P. From == M to == M Hr. == Min. From (B) == P.S.I. To (C) == P.S.I.
Tool Closed I.C.I.P. From == M. to == M. Hr. == Min. (D) 1227 P.S.I.
Tool Open F.F.P. From 1:34 A M. to 4:34 M. 3 Hr. Min. From (E) 76 P.S.I. To (F) 699 P.S.I.
Tool Closed F.C.I.P. From 4:34 M. to 5:04 M. Hr. 30 Min. (G) 1199 P.S.I.
Initial Hydrostatic Pressure (A) 1989 P.S.I. Final Hydrostatic Pressure (H) 1986 P.S.I.

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

BLOW STRONG Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 60' oil cut mud; 1350' slightly oil cut muddy water.

Mud
Reversed Out Yes ☒ No ☐ Mud Type starch Viscosity 43 Weight 9.7 Maximum Temp. 106 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Size 3 1/2 OD Make Bowen Ser. No. 2330

Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe 3465 ft. I.D. Drill Pipe in Length Weight Pipe 468 ft. I.D. Weight Pipe in Length Drill Collars 314 ft.

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

Remarks Bypassed tool on F.S.I.P. trapping Hyd. pressure, then leaking back to true pressure. Test #1 had considerable plugging action throughout flow periods. Test #2 is a re-run of Test #1. Both shut-in pressures were taken from Test #1, flow pressures were read from Test #2.

WESTERN TESTING CO., INC.

Pressure Data

Date April 16, 1966 Test Ticket No. 5375
 Recorder No. 1566 & 2603 Capacity 4300 & 4400 Location 3769 Ft.
 Clock No. 8378 Elevation 2616 Kelly Bushings Well Temperature 106 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1989</u> P.S.I.	<u>1:34</u> M	<u>1:34</u>
B First Initial Flow Pressure	<u>==</u> P.S.I.	Plugging action <u>==</u> Mins.	
C First Final Flow Pressure	<u>==</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1227</u> P.S.I.	<u>180</u> Mins.	<u>176</u> Mins.
E Second Initial Flow Pressure	<u>76</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>699</u> P.S.I.		
G Final Closed-in Pressure	<u>1199</u> P.S.I.		
H Final Hydrostatic Mud	<u>1986</u> P.S.I.		

PRESSURE BREAKDOWN

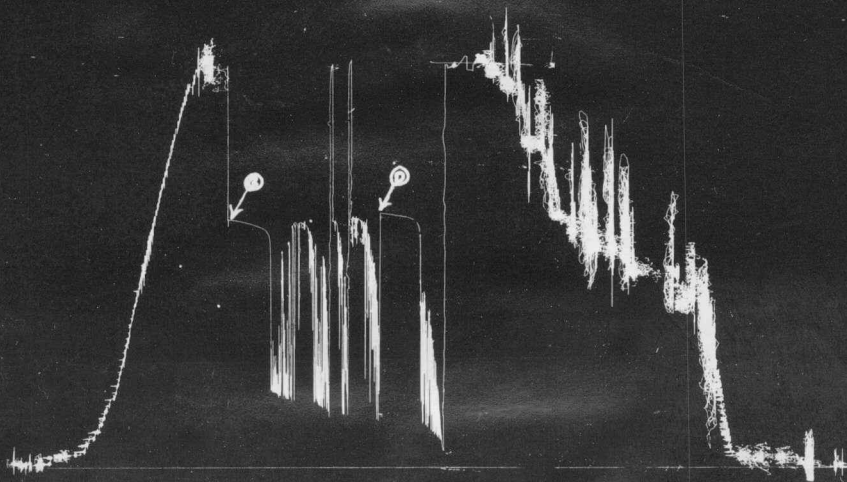
First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>==</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>==</u> mins. and a		of <u>3</u> mins. and a		of <u>10</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>==</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>6</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 Plugging action		<u>0</u>	Plugging action	<u>0</u>	<u>76</u>	<u>0</u>	<u>699</u>
P 2		<u>3</u>	<u>1142</u>	<u>10</u>	<u>174</u>	<u>3</u>	<u>1119</u>
P 3		<u>6</u>	<u>1187</u>	<u>20</u>	<u>214</u>	<u>6</u>	<u>1152</u>
P 4		<u>9</u>	<u>1199</u>	<u>30</u>	<u>256</u>	<u>9</u>	<u>1162</u>
P 5		<u>12</u>	<u>1204</u>	<u>40</u>	<u>293</u>	<u>12</u>	<u>1169</u>
P 6		<u>15</u>	<u>1209</u>	<u>50</u>	<u>338</u>	<u>15</u>	<u>1175</u>
P 7		<u>18</u>	<u>1216</u>	<u>60</u>	<u>381</u>	<u>18</u>	<u>1181</u>
P 8		<u>21</u>	<u>1220</u>	<u>70</u>	<u>417</u>	<u>21</u>	<u>1186</u>
P 9		<u>24</u>	<u>1222</u>	<u>80</u>	<u>453</u>	<u>24</u>	<u>1190</u>
P10		<u>27</u>	<u>1224</u>	<u>90</u>	<u>489</u>	<u>27</u>	<u>1194</u>
P11		<u>30</u>	<u>1227</u>	<u>100</u>	<u>522</u>	<u>30</u>	<u>1199</u>
P12				<u>110</u>	<u>551</u>		
P13				<u>120</u>	<u>579</u>		
P14				<u>130</u>	<u>604</u>		
P15				<u>140</u>	<u>633</u>		
P16				<u>150</u>	<u>655</u>		
P17				<u>160</u>	<u>676</u>		
P18				<u>170</u>	<u>694</u>		
P19				<u>176</u>	<u>699</u>		
P20							

Abercrombie DrLg. Co.

Vahling #1

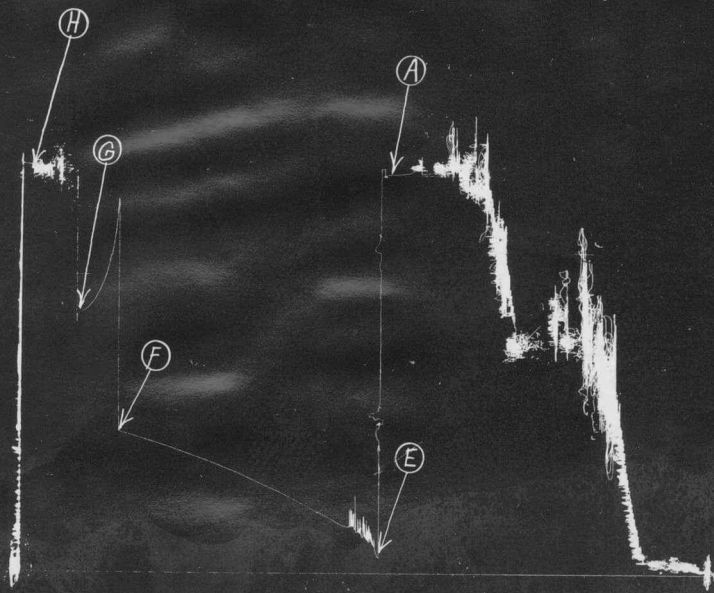
(Mis Run) Test #1

TKT# 5374



Abercombie DrLg. Co.
Vahling #1

Test #2
TKT# 5375



A Bercombie DrLg Co.

Vahling #1

Test # 2

T.KT# 5375

BOTTOM HOLE
CHART

