



Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Sumner C-2

Elevation 2514 Kelly Bushings Formation Toronto-Lansing Effective Pay _____ Ft. Ticket No. 16656

Date 3-26-72 Sec. 4 Twp. 1S Range 26W County Decatur State Kansas

Test Approved by Jack K. Wharton Western Representative Mike Davenport

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3259' to 3311' Total Depth 3311'

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

Packer Depth 3254 Ft. Size 6 3/4" Packer Depth 3259 Ft. Size 6 3/4"

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

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 52 Ft. Size 31' Weight Pipe
21' 5 1/2" O.D. Perf.

RECORDERS Depth 3304 Ft. Clock No. 6799 Depth 3307 Ft. Clock No. 6893

Top Make Kuster Cap 4150 No. 2604 Inside Outside Bottom Make Kuster Cap 4300 No. 1567 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 8:56 A.M.

Tool Open I.F.P. From 9:00 M. to 9:30A M. Hr. 30 Min. From (B) 51 P.S.I. To (C) 34 P.S.I.

Tool Closed I.C.I.P. From 9:30 M. to 10:00A M. Hr. 30 Min. (D) 782 P.S.I.

Tool Open F.F.P. From 10:00 M. to 10:30A M. Hr. 30 Min. From (E) 51 P.S.I. To (F) 51 P.S.I.

Tool Closed F.C.I.P. From 10:30 M. to 11:15A M. Hr. 45 Min. (G) 786 P.S.I.

Initial Hydrostatic Pressure (A) 1787 P.S.I. Final Hydrostatic Pressure (H) 1775 P.S.I.

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

INFORMATION _____ M. _____ M. _____ M.

BLOW I.F.P. very weak blow for 30 min. F.F.P. - no blow Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 30 feet heavy mud

Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 38 Weight 9.9 Water Loss 11.4 cc. Maximum Temp. 93 °F

Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? Yes Where? _____

Length Drill Pipe 2241 ft. I.D. Drill Pipe 3.5 in. Length Weight Pipe 998 ft. I.D. Weight Pipe 3.5 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 3-26-72 Test Ticket No. 16656
 Recorder No. 2604 Capacity 4150 Location 3304 Ft.
 Clock No. 6799 Elevation 2514 Kelly Bushings Well Temperature 93 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1787</u> P.S.I.	Open Tool	<u>8:56 A.</u> M	
B First Initial Flow Pressure	<u>51</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</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>782</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>786</u> P.S.I.			
H Final Hydrostatic Mud	<u>1775</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: <u>10</u> Inc.		Breakdown: _____ Inc.		Breakdown: <u>15</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 _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>34</u>	<u>0</u>	To much plugging	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>335</u>	<u>5</u>	action for pressure	<u>3</u>	<u>157</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>552</u>	<u>10</u>	break down	<u>6</u>	<u>414</u>
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>644</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>556</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>692</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>635</u>
P 6 <u>25</u>	<u>34</u>	<u>15</u>	<u>721</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>675</u>
P 7 <u>30</u>	Slight plugging	<u>18</u>	<u>740</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>702</u>
P 8 _____	action	<u>21</u>	<u>757</u>			<u>21</u>	<u>719</u>
P 9 _____		<u>24</u>	<u>767</u>			<u>24</u>	<u>736</u>
P10 _____		<u>27</u>	<u>777</u>			<u>27</u>	<u>748</u>
P11 _____		<u>30</u>	<u>782</u>			<u>30</u>	<u>757</u>
P12 _____						<u>33</u>	<u>765</u>
P13 _____						<u>36</u>	<u>771</u>
P14 _____						<u>39</u>	<u>777</u>
P15 _____						<u>42</u>	<u>782</u>
P16 _____						<u>45</u>	<u>786</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							



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Company Abercrombie Drilling Inc. Lease & Well No. Sumner C-2
Elevation 2514 Kelly Bushings Formation Lansing Effective Pay _____ Ft. Ticket No. 16657
Date 3-26-72 Sec. 4 Twp. 1S Range 26W County Ness State Kansas
Test Approved by Jack K. Wharton Western Representative Mike Davenport
Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3323' to 3350' Total Depth 3350'
Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. ☒ Damaged Yes ☒ No Conv. _____ B.T. ☒ Damaged Yes ☒ No
Packer Depth 3318 Ft. Size 6 3/4" Packer Depth 3323 Ft. Size 6 3/4"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged Yes _____ No
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 27 Ft. Size 5 1/2" O.D. Perf.
RECORDERS Depth 3337 Ft. Clock No. 6799 Depth 3340 Ft. Clock No. 6893
Top Make Kuster Cap 4150 No. 2406 Inside Outside Bottom Make Kuster Cap 4300 No. 1567 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap _____ No. _____ Inside _____ Outside _____
Time Set Packer 8:02 P. M
Tool Open I.F.P. From 8:05 M. to 8:20P. M. Hr. 15 Min. From (B) 21 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 8:20 M. to 8:50P. M. Hr. 30 Min. (D) 34 P.S.I.
Tool Open F.F.P. From 8:50 M. to 9:20P. M. Hr. 30 Min. From (E) 23 P.S.I. To (F) 23 P.S.I.
Tool Closed F.C.I.P. From 9:20 M. to 10:05P. M. Hr. 45 Min. (G) 38 P.S.I.
Initial Hydrostatic Pressure (A) 1841 P.S.I. Final Hydrostatic Pressure (H) 1823 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 blow for 15 min. and died Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No _____ Recovery Total Ft. 5 feet mud
Reversed Out Yes ☒ No _____ Mud Type Chem. Viscosity 43 Weight 10.2 Water Loss 9.9 cc. Maximum Temp. 93 °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 2305 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 998 ft. I.D. Weight Pipe 3.5 in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool 47 ft.
Remarks Pressure from outside recorder

WESTERN TESTING CO., INC.

Pressure Data

Date 3-26-72 Test Ticket No. 16657
 Recorder No. 2604 Capacity 4150 Location 3337 Ft.
 Clock No. 6799 Elevation 2514 Kelly Bushings Well Temperature 93 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1841</u> P.S.I.	Open Tool	<u>8:02</u> P. M	
B First Initial Flow Pressure	<u>21</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>21</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>34</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>23</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>23</u> P.S.I.			
G Final Closed-in Pressure	<u>38</u> P.S.I.			
H Final Hydrostatic Mud	<u>1823</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>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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 _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>21</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>23</u>
P 2 <u>5</u>	<u>21</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>23</u>	<u>3</u>	<u>24</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>22</u>	<u>10</u>	<u>23</u>	<u>6</u>	<u>25</u>
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>23</u>	<u>15</u>	<u>23</u>	<u>9</u>	<u>26</u>
P 5 _____		<u>12</u>	<u>24</u>	<u>20</u>	<u>23</u>	<u>12</u>	<u>27</u>
P 6 _____		<u>15</u>	<u>25</u>	<u>25</u>	<u>23</u>	<u>15</u>	<u>28</u>
P 7 _____		<u>18</u>	<u>26</u>	<u>30</u>	<u>23</u>	<u>18</u>	<u>29</u>
P 8 _____		<u>21</u>	<u>27</u>			<u>21</u>	<u>30</u>
P 9 _____		<u>24</u>	<u>29</u>			<u>24</u>	<u>31</u>
P10 _____		<u>27</u>	<u>31</u>			<u>27</u>	<u>32</u>
P11 _____		<u>30</u>	<u>34</u>			<u>30</u>	<u>33</u>
P12 _____						<u>33</u>	<u>34</u>
P13 _____						<u>36</u>	<u>35</u>
P14 _____						<u>39</u>	<u>36</u>
P15 _____						<u>42</u>	<u>37</u>
P16 _____						<u>45</u>	<u>38</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							



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Company Abercrombie Drilling Inc. Lease & Well No. Sumner C-2

Elevation 2514 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 16658

Date 3-27-72 Sec. 4 Twp. 1S Range 26W County Decatur State Kansas

Test Approved by Jack K. Wharton Western Representative Mike Davenport

Formation Test No. 3 O.K. X Misrun _____ Interval Tested From 3424' to 3485' Total Depth 3485'

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

Packer Depth 3419 Ft. Size 6 3/4" Packer Depth 3424 Ft. Size 6 3/4"

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

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 63 Ft. Size 31' Weight Pipe
32' 5 1/2" O.D. Perf.

RECORDERS Depth 3472 Ft. Clock No. 6799 Depth 3475 Ft. Clock No. 6893

Top Make Kuster Cap 4150 No. 2604 Inside Outside Bottom Make Kuster Cap 4130 No. 1567 Inside Outside

Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____

Top Make _____ Cap _____ No. _____ Inside _____ Outside _____

Bottom Make _____ Cap _____ No. _____ Inside _____ Outside _____

Time Set Packer 2:35 P_M

Tool Open I.F.P. From 2:38 M. to 3:08 P. M. Hr. 30 Min. From (B) 234 P.S.I. To (C) 237 P.S.I.

Tool Closed I.C.I.P. From 3:08 M. to 3:38 P. M. Hr. 30 Min. (D) 275 P.S.I.

Tool Open F.F.P. From 3:38 M. to 4:08 P. M. Hr. 30 Min. From (E) 243 P.S.I. To (F) 243 P.S.I.

Tool Closed F.C.I.P. From 4:08 M. to 4:38 P. M. Hr. 30 Min. (G) 267 P.S.I.

Initial Hydrostatic Pressure (A) 1821 P.S.I. Final Hydrostatic Pressure (H) 1808 P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW I.F.P. strong blow deminished to weak blow F.F.P. - No blow Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes X No _____ Recovery Total Ft. 120 feet heavy mud 265 feet watery mud

spots of oil in top of tool

Reversed Out _____ Yes X No _____ Mud Type Chem. Viscosity 37 Weight 10.0 Water Loss 10.0 cc. Maximum Temp. 95 °F

Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____

Length Drill Pipe 2404 ft. I.D. Drill Pipe 3.5 in. Length Weight Pipe 998 ft. I.D. Weight Pipe 3.5 in. Length Drill Collars _____ ft.

I.D. Drill Collars _____ in. Length D.S.T. Tool 83 ft.

Remarks Picked up mud when sliding tool through bridge

WESTERN TESTING CO., INC.

Pressure Data

Date 3-27-72 Recorder No. 2604 Capacity 4150 Test Ticket No. 16658
 Clock No. 6799 Elevation 2514 Kelly Bushings Location 3472 Ft.
 Well Temperature 95 °F

Point	Pressure		Time Given 2:35	P.	M	Time Computed
A Initial Hydrostatic Mud	1821	P.S.I.				
B First Initial Flow Pressure	234	P.S.I.	30	Mins.		30 Mins.
C First Final Flow Pressure	237	P.S.I.	30	Mins.		30 Mins.
D Initial Closed-in Pressure	275	P.S.I.	30	Mins.		30 Mins.
E Second Initial Flow Pressure	243	P.S.I.	30	Mins.		30 Mins.
F Second Final Flow Pressure	243	P.S.I.	30	Mins.		30 Mins.
G Final Closed-in Pressure	267	P.S.I.				
H Final Hydrostatic Mud	1808	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 _____ 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 0	234	0	237	0	243	0	243
P 2 5	234	3	239	5	243	3	245
P 3 10	234	6	243	10	243	6	247
P 4 15	235	9	247	15	243	9	249
P 5 20	236	12	251	20	243	12	251
P 6 25	237	15	256	25	243	15	253
P 7 30	237	18	260	30	243	18	255
P 8 _____	_____	21	264	_____	_____	21	258
P 9 _____	_____	24	268	_____	_____	24	261
P10 _____	_____	27	273	_____	_____	27	264
P11 _____	_____	30	275	_____	_____	30	267
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____