



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Torney #1
Elevation - Formation Ft. Scott Effective Pay - Ft. Ticket No. 22851
Date 3-11-78 Sec. 22 Twp. 20s Range 22w County Ness State Kansas
Test Approved by Stanton Cox Western Representative Ken Metzler
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4266' to 4310' Total Depth 4310'
Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4261 Ft. Size 6 3/4 Bottom Packer Depth 4266' Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 44 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4301 Ft. Clock No. 6893 Depth 4304 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 ☐ Inside ☒ Outside Bottom Make Kuster Cap. 4150 No. 2605 ☐ Inside ☒ Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ☐ Inside ☒ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ☐ Inside ☒ Outside
Time Set Packer 4:42A M
Tool Open I.F.P. From 4:45A M. to 5:15A M. - Hr. 30 Min. From (B) 55 P.S.I. To (C) 44 P.S.I.
Tool Closed I.C.I.P. From 5:15A M. to 5:45A M. - Hr. 30 Min (D) 53 P.S.I.
Tool Open F.F.P. From 5:45A M. to 6:15A M. - Hr. 30 Min. From (E) 51 P.S.I. To (F) 46 P.S.I.
Tool Closed F.C.I.P. From 6:15AM to 6:45A M. - Hr. 30 Min. (G) 53 P.S.I.
Initial Hydrostatic Pressure (A) 2280 P.S.I. Final Hydrostatic Pressure (H) 2263 P.S.I. Maximum Temp. 115

INFORMATION

BLOW Very weak blow dead in 10 minutes of initial flow period.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 5' mud with few specks of oil

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 40 Weight 7.7 Water Loss 13.4 cc. Chlorides 45,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? ☐

DRILLING CONTRACTOR Thunderbird #1 Length Drill Pipe? 3498 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 ^{XH} FH In.

Length Weight Pipe 574 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 ^{XH} In. Length Drill Collars ☐ Ft. I.D. Drill Collars ☐ In.

Tool Joint Size ☐ In. Length D.S.T. Tool 62 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-11-78

Test Ticket No. 22851

Recorder No. 3354 Capacity 4200 Location 4301 Ft.

Clock No. 6893 Elevation - Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2280</u> P.S.I.	Open Tool	<u>4:42A</u> M	
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>44</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>53</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		Mins. Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.			
G Final Closed-in Pressure	<u>53</u> P.S.I.			
H Final Hydrostatic Mud	<u>2263</u> P.S.I.			

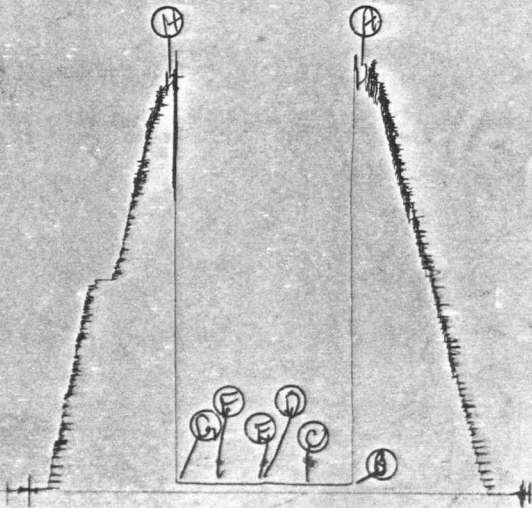
PRESSURE BREAKDOWN

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>55</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>47</u>	<u>3</u>	<u>44</u>	<u>5</u>	<u>46</u>	<u>3</u>	<u>46</u>
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>44</u>	<u>10</u>	<u>46</u>	<u>6</u>	<u>46</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>44</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>46</u>
P 5 <u>20</u>	<u>44</u>	<u>12</u>	<u>44</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>46</u>
P 6 <u>25</u>	<u>44</u>	<u>15</u>	<u>45</u>	<u>25</u>	<u>46</u>	<u>15</u>	<u>49</u>
P 7 <u>30</u>	<u>44</u>	<u>18</u>	<u>46</u>	<u>30</u>	<u>46</u>	<u>18</u>	<u>49</u>
P 8		<u>21</u>	<u>49</u>			<u>21</u>	<u>49</u>
P 9			<u>49</u>			<u>24</u>	<u>51</u>
P10			<u>51</u>			<u>27</u>	<u>53</u>
P11			<u>53</u>			<u>30</u>	<u>53</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

3354

TKT # 22851

I.





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Torney #1
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 22852
Date 3-12-78 Sec. 22 Twp. 20s Range 22w County Ness State Kansas
Test Approved by Stanton Cox Western Representative Ken Metzler
Formation Test No. 2 O.K. X Misrun - Interval Tested From 4383' to 4397' Total Depth 4397'
Size Main Hole 7 7/8 at Hole 12 1/4 Conv. - B.T. X Damaged - Yes - No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 4378' Ft. Size 6 3/4 Bottom Packer Depth 4383' Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 14 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4388 Ft. Clock No. 6893 Depth 4391 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 Inside Bottom Make Kuster Cap. 4150 No. 2605 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Outside Depth - Ft. Rec. No. - Clock No. - Outside
Time Set Packer 2:42A M
Tool Open I.F.P. From 2:45A M. to 3:15A M. - Hr. 30 Min. From (B) 21 P.S.I. To (C) 21 P.S.I.
Tool Closed I.C.I.P. From 3:15A M. to 3:45A M. - Hr. 30 Min (D) 103 P.S.I.
Tool Open F.F.P. From 3:45A M. to 4:15A M. - Hr. 30 Min. From (E) 49 P.S.I. To (F) 34 P.S.I.
Tool Closed F.C.I.P. From 4:15A M. to 4:45A M. - Hr. 30 Min. (G) 68 P.S.I.
Initial Hydrostatic Pressure (A) 2360 P.S.I. Final Hydrostatic Pressure (H) 2311 P.S.I. Maximum Temp. 117

INFORMATION

BLOW Very weak blow. Dead in 5 minutes on initial flow period.

Did Well Flow - Yes X No Recovery Total Ft. 5' mud. No show.

Reversed Out - Yes X No Mud Type Starch Viscosity 52 Weight 9.8 Water Loss 17.8 cc. Chlorides 54,000 PPM
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint None Jars: Size - In. Make - Ser. No. -
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? =

DRILLING CONTRACTOR Thunderbird #1 Length Drill Pipe 3561 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 ^{XH} _{FH} In.
Length Weight Pipe 574 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 ^{XH} In. Length Drill Collars - Ft. I.D. Drill Collars - In.
Tool Joint Size - In. Length D.S.T. Tool 32 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-12-78

Test Ticket No. 22852

Recorder No. 3354

Capacity 4200

Location 4388 Ft.

Clock No. 6893

Elevation -

Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2360</u>	P.S.I.	<u>2:42A</u>	<u>M</u>
B First Initial Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>103</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>49</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>34</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
G Final Closed-in Pressure	<u>68</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2311</u>	P.S.I.		

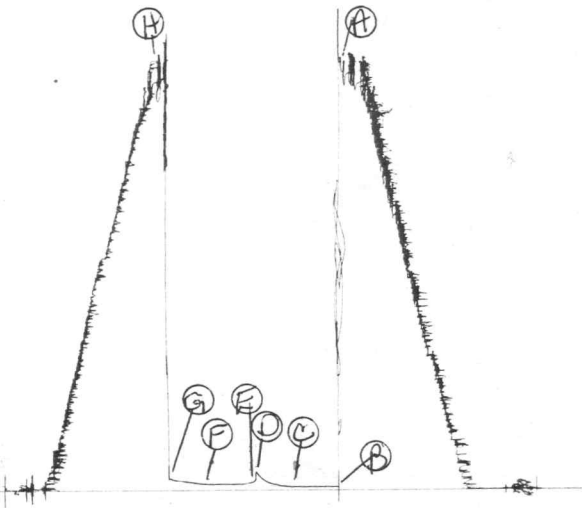
PRESSURE BREAKDOWN

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>21</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>21</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>34</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>23</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>36</u>
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>25</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>40</u>
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>30</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>42</u>
P 6 <u>25</u>	<u>21</u>	<u>15</u>	<u>36</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>46</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>40</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>49</u>
P 8		<u>21</u>	<u>51</u>			<u>21</u>	<u>53</u>
P 9		<u>24</u>	<u>65</u>			<u>24</u>	<u>57</u>
P10		<u>27</u>	<u>91</u>			<u>27</u>	<u>63</u>
P11		<u>30</u>	<u>103</u>			<u>30</u>	<u>68</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

*2

3354

TKT # 22852
2.





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Torney #1
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 22853
Date 3-12-78 Sec. 22 Twp. 20s Range 22w County Ness State Kansas
Test Approved by Stanton Cox Western Representative Ken Metzler
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4391' to 4405' Total Depth 4405'
Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☒ Yes ☐ No
Top Packer Depth 4386 Ft. Size 6 3/4 Bottom Packer Depth 4391 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 14 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4396 Ft. Clock No. 6893 Depth 4399 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 2605 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 2:42P M
Tool Open I.F.P. From 2:45P M. to 3:15P M. - Hr. 30 Min. From (B) 42 P.S.I. To (C) 33 P.S.I.
Tool Closed I.C.I.P. From 3:15P M. to 4:00 M. - Hr. 45 Min (D) 1304 P.S.I.
Tool Open F.F.P. From 4:00P M. to 4:30P M. - Hr. 30 Min. From (E) 57 P.S.I. To (F) 37 P.S.I.
Tool Closed F.C.I.P. From 4:30P M. to 5:00P M. - Hr. 30 Min. (G) 1124 P.S.I.
Initial Hydrostatic Pressure (A) 2283 P.S.I. Final Hydrostatic Pressure (H) 2283 P.S.I. Maximum Temp. 115

INFORMATION

BLOW Weak to very weak intermittent blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 10' mud. No show.

Reversed Out - Yes ☒ No ☐ Mud Type starch Viscosity 49 Weight 9.5 Water Loss 8.8 cc. Chlorides 52,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Thunderbird #1 Length Drill Pipe? 3561 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 ^{XH} FH In.

Length Weight Pipe 574 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 ^{XH} In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 32 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-12-78 Test Ticket No. 22853
Recorder No. 3354 Capacity 4200 Location 4396 Ft.
Clock No. 6893 Elevation - Well Temperature 115 °F

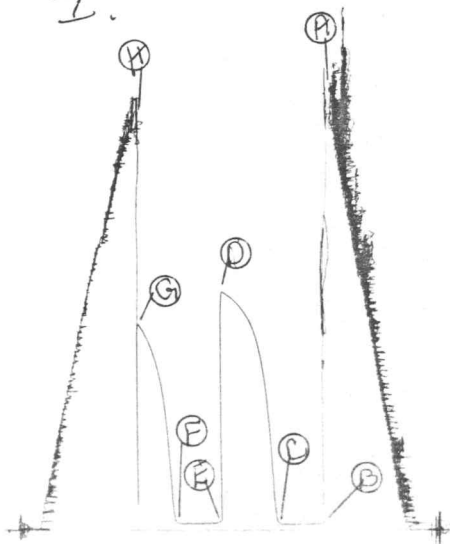
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>883</u> P.S.I.	Open Tool	<u>2:42P</u>	<u>M</u>
B First Initial Flow Pressure <u>42</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>33</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure <u>1304</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure <u>57</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure <u>37</u> P.S.I.			
G Final Closed-in Pressure <u>1124</u> P.S.I.			
H Final Hydrostatic Mud <u>2283</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>15</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>42</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>37</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>101</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>100</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>382</u>	<u>10</u>	<u>38</u>	<u>6</u>	<u>371</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>620</u>	<u>15</u>	<u>38</u>	<u>9</u>	<u>603</u>
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>785</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>755</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>920</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>861</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>1019</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>941</u>
P 8		<u>21</u>	<u>1091</u>			<u>21</u>	<u>1005</u>
P 9		<u>24</u>	<u>1143</u>			<u>24</u>	<u>1053</u>
P10		<u>27</u>	<u>1180</u>			<u>27</u>	<u>1095</u>
P11		<u>30</u>	<u>1215</u>			<u>30</u>	<u>1124</u>
P12		<u>33</u>	<u>1242</u>				
P13		<u>36</u>	<u>1263</u>				
P14		<u>39</u>	<u>1281</u>				
P15		<u>42</u>	<u>1296</u>				
P16		<u>45</u>	<u>1304</u>				
P17							
P18							
P19							
P20							

33

3354

TKT# 22853L.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Torney #1
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 22854
Date 3-13-78 Sec. 22 Twp. 20s Range 22w County Ness State Kansas
Test Approved by Stanton Cox Western Representative Ken Metzler
Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 4403' to 4415' Total Depth 4415'
Size Main Hole 7 7/8" Rat Hole 12 1/4" Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4398 Ft. Size 6 3/4 Bottom Packer Depth 4403 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size - Tool Joint Size - Anchor Length - Ft. Size - Surface Choke Size - In. Bottom Choke Size - In.
RECORDERS Depth 4408 Ft. Clock No. 6893 Depth 4415' Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 Inside Outside Bottom Make Kuster Cap. 4150 No. 2605 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 8:12A M
Tool Open I.F.P. From 8:15A M. to 8:45A M. 0 Hr. 30 Min. From (B) 23 P.S.I. To (C) 72 P.S.I.
Tool Closed I.C.I.P. From 8:45AM to 9:30AM - Hr. 45 Min (D) 1347 P.S.I.
- Tool Open F.F.P. From 9:30A M. to 10:30AM 1 Hr. - Min. From (E) 108 P.S.I. To (F) 196 P.S.I.
Tool Closed F.C.I.P. From 10:30M to 11:15AM Hr. 45 Min. (G) 1331 P.S.I.
Initial Hydrostatic Pressure (A) 2244 P.S.I. Final Hydrostatic Pressure (H) 2230 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 360' Muddy salt water

Reversed Out ☐ Yes ☒ No Mud Type starch Viscosity 49 Weight 9.5 Water Loss 8.8 cc. Chlorides 52,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Thunderbird #1 Length Drill Pipe 3561 Ft. I.D. Drill Pipe 3 1/8 In. Tool Joint Size 4 1/2 In. ^{XH}

Length Weight Pipe 574 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 30 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 3-13-78

Test Ticket No. 22854

Recorder No. 3354 Capacity 4200 Location 4408 Ft.

Clock No. 6893 Elevation - Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2244</u> P.S.I.	Open Tool	<u>8:12A</u> M	
B First Initial Flow Pressure	<u>23</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>72</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1347</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>108</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>196</u> P.S.I.			
G Final Closed-in Pressure	<u>1331</u> P.S.I.			
H Final Hydrostatic Mud	<u>2230</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>16</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>23</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>196</u>
P 2 <u>5</u>	<u>28</u>	<u>3</u>	<u>857</u>	<u>5</u>	<u>102</u>	<u>3</u>	<u>821</u>
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>1120</u>	<u>10</u>	<u>108</u>	<u>6</u>	<u>1090</u>
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>1200</u>	<u>15</u>	<u>118</u>	<u>9</u>	<u>1175</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>1241</u>	<u>20</u>	<u>128</u>	<u>12</u>	<u>1217</u>
P 6 <u>25</u>	<u>63</u>	<u>15</u>	<u>1266</u>	<u>25</u>	<u>137</u>	<u>15</u>	<u>1247</u>
P 7 <u>30</u>	<u>72</u>	<u>18</u>	<u>1287</u>	<u>30</u>	<u>146</u>	<u>18</u>	<u>1265</u>
P 8		<u>21</u>	<u>1300</u>	<u>35</u>	<u>155</u>	<u>21</u>	<u>1278</u>
P 9		<u>24</u>	<u>1310</u>	<u>40</u>	<u>162</u>	<u>24</u>	<u>1289</u>
P10		<u>27</u>	<u>1320</u>	<u>45</u>	<u>171</u>	<u>27</u>	<u>1300</u>
P11		<u>30</u>	<u>1327</u>	<u>50</u>	<u>180</u>	<u>30</u>	<u>1306</u>
P12		<u>33</u>	<u>1333</u>	<u>55</u>	<u>189</u>	<u>33</u>	<u>1312</u>
P13		<u>36</u>	<u>1338</u>	<u>60</u>	<u>196</u>	<u>36</u>	<u>1317</u>
P14		<u>39</u>	<u>1342</u>			<u>39</u>	<u>1322</u>
P15		<u>42</u>	<u>1345</u>			<u>42</u>	<u>1326</u>
P16		<u>45</u>	<u>1347</u>			<u>45</u>	<u>1329</u>
P17						<u>48</u>	<u>1331</u>
P18							
P19							
P20							

3354

TK+ # 22854
I.

