



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

Company Bowers Drilling Company Lease & Well No. Binning B #1
Elevation --- Ticket Number 3243
Date 1-26-64 Sec. 35 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3584' to 3598' Total Depth 3598'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 3584 Ft. Size 6 3/4" Packer Depth 3579 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" IF Anchor Length 14 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>3590</u> Ft.	Clock No. <u>6859</u>	Depth <u>3593</u> Ft.	Clock No. <u>59</u>
	Top Make <u>Amerada</u> Cap. <u>4200#</u> No. <u>1559</u>	Inside ☐ Outside ☐	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>59</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 ☐

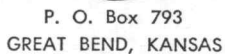
Time Set Packer 9:02A M
Tool Open I.F.P. From 9:07A M to 9:12A M --- Hr. 5 Min. From (B) 64 P.S.I. To (C) 159 P.S.I.
Tool Closed I.C.I.P. From 9:12A M. to 9:42A M. --- Hr. 30 Min. (D) 1425 P.S.I.
Tool Open F.F.P. From 9:42A M. to 10:42A M. 1 Hr. --- Min. From (E) 284 P.S.I. To (F) 566 P.S.I.
Tool Closed F.C.I.P. From 10:42A M. to 11:12A M. --- Hr. 30 Min. (G) 1390 P.S.I.
Initial Hydrostatic Pressure (A) 1972 P.S.I. Final Hydrostatic Pressure (H) 1959 P.S.I.

SURFACE	Size Choke <u>1/2</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u>See Attached Sheet</u>		M.	
			M.	
			M.	

BLOW Strong - Gas to surface in 2 mins. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 30' Muddy Water

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 47 Weight 9.6 Maximum Temp. 112 °F
EXTRA EQUIPMENT: Dual Packers ☒ 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 3384 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe --- ft. I.D. Weight Pipe --- in. Length Drill Collars 180 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 34 ft.

Remarks



Lease & Well No Binning B#1

Interval Tested From 3584! To 3598!

Size Choke	Surface	In.	Bottom	In.
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Remarks_____

WESTERN TESTING CO., INC.

Pressure Data

Date 1-26-64 Test Ticket No. 3243
 Recorder No. 1559 Capacity 4200# Location 3590 Fr.
 Clock No. 6859 Elevation - Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1972</u> P.S.I.	Opened Tool	<u>9:02 A</u>	<u>9:02 AM</u>
B First Initial Flow Pressure	<u>64</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>159</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1425</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>70</u> Mins.
E Second Initial Flow Pressure	<u>284</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>566</u> P.S.I.			
G Final Closed-in Pressure	<u>1390</u> P.S.I.			
H Final Hydrostatic Mud	<u>1959</u> P.S.I.			

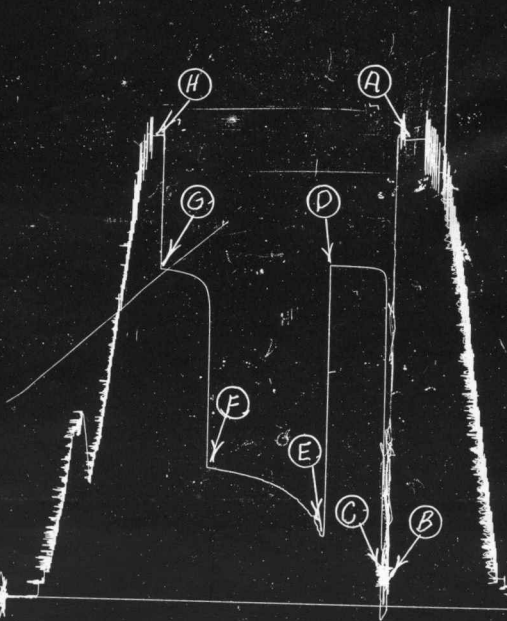
PRESSURE BREAKDOWN

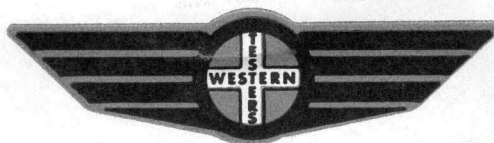
First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>14</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In 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>64</u>	<u>0</u>	<u>159</u>	<u>0</u>	<u>284</u>	<u>0</u>	<u>566</u>
P 2 <u>5</u>	<u>159</u>	<u>3</u>	<u>1346</u>	<u>5</u>	<u>351</u>	<u>3</u>	<u>1307</u>
P 3		<u>6</u>	<u>1413</u>	<u>10</u>	<u>390</u>	<u>6</u>	<u>1342</u>
P 4		<u>9</u>	<u>1420</u>	<u>15</u>	<u>428</u>	<u>9</u>	<u>1359</u>
P 5		<u>12</u>	<u>1422</u>	<u>20</u>	<u>455</u>	<u>12</u>	<u>1369</u>
P 6		<u>15</u>	<u>1424</u>	<u>25</u>	<u>485</u>	<u>15</u>	<u>1374</u>
P 7		<u>18</u>	<u>1425</u>	<u>30</u>	<u>500</u>	<u>18</u>	<u>1378</u>
P 8		<u>21</u>	<u>1425</u>	<u>35</u>	<u>514</u>	<u>21</u>	<u>1382</u>
P 9		<u>24</u>	<u>1425</u>	<u>40</u>	<u>527</u>	<u>24</u>	<u>1386</u>
P10		<u>27</u>	<u>1425</u>	<u>45</u>	<u>535</u>	<u>27</u>	<u>1388</u>
P11		<u>30</u>	<u>1425</u>	<u>50</u>	<u>545</u>	<u>30</u>	<u>1390</u>
P12		<u>33</u>	<u>1425</u>	<u>55</u>	<u>549</u>		
P13				<u>60</u>	<u>556</u>		
P14				<u>65</u>	<u>562</u>		
P15				<u>70</u>	<u>566</u>		
P16							
P17							
P18							
P19							
P20							

Bowers Drlg. Co.
Binning #B-1

Test # 1
TKT# 3243





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

Company Bowers Drilling Company Lease & Well No. Binning B #1
Elevation — Ticket Number 3244
Date 1-26-64 Sec. 35 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 2 O.K. ☒ Misrun — Interval Tested From 3598' to 3619' Total Depth 3619'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. — Damaged Yes ☒ No — Conv. — B.T. ☒ Damaged Yes ☒ No —
Packer Depth 3598 Ft. Size 6 3/4" Packer Depth 3593 Ft. Size 6 3/4"
Straddle — Yes — No ☒ Conv. — B.T. — Damaged Yes — No —
Tool Size 5 1/2" OD Packer Depth — Ft. Size —
Tool Jt. Size 4 1/2" IF Anchor Length 21 Ft. Size 5 1/2" OD

RECORDERS Depth 3612 Ft. Clock No. 6859 Depth 3615 Ft. Clock No. 59
Top Make Amerada Cap. 4200# No. 1559 Inside — Outside — Bottom Make Western Cap. 4000# No. 59 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 8:00 P M —
Tool Open I.F.P. From 8:02P M to 8:07P M — Hr. 5 Min. From (B) 194 P.S.I. To (C) 194 P.S.I.
Tool Closed I.C.I.P. From 8:07P M. to 8:37P M. — Hr. 30 Min. (D) 1425 P.S.I.
Tool Open F.F.P. From 8:37P M. to 9:37P M. 1 Hr. — Min. From (E) 219 P.S.I. To (F) 319 P.S.I.
Tool Closed F.C.I.P. From 9:37P M. to 10:07P M. — Hr. 30 Min. (G) 1369 P.S.I.
Initial Hydrostatic Pressure (A) 1968 P.S.I. Final Hydrostatic Pressure (H) 1955 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. — Time — Description of Flow —
INFORMATION See attached sheet M. —
— M. —
— M. —

BLOW Strong - Gas to surface in 1/2 min. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes — No — Recovery Total Ft. 540' Salt Water

Reversed Out — Yes ☒ No — Mud Type Starch Viscosity 39 Weight 9.7 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? ☒ Where? — Did Packer Hold? Yes
Length Drill Pipe 3488 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 41 ft.

Remarks



P. O. Box 793
GREAT BEND, KANSAS

Company Bowers Drilling Company Lease & Well No. Binning B#

Test No. 2 Interval Tested From 3598' To 3619'

Time	Max. Press. P.S.I.	Description of Flow
<u>5 Mins.</u>	<u>1 Lb.</u>	<u>734,000</u>
<u>10 "</u>	<u>2 "</u>	<u>1,020,000</u>
<u>20 "</u>	<u>2 "</u>	<u>1,020,000</u>
<u>30 "</u>	<u>2 "</u>	<u>1,020,000</u>
<u>40 "</u>	<u>2 "</u>	<u>1,020,000</u>
<u>50 "</u>	<u>2 "</u>	<u>1,020,000</u>
<u>60 "</u>	<u>2 "</u>	<u>1,020,000</u>

Size Choke Surface In. Bottom In.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 1-26-64 Test Ticket No. 3244
 Recorder No. 1559 Capacity 4200 # Location 3612 Ft.
 Clock No. 6859 Elevation - Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1968</u> P.S.I.	Opened Tool	<u>8:00 P</u>	<u>8:00 PM</u>
B First Initial Flow Pressure	<u>194</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>194</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1425</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>64</u> Mins.
E Second Initial Flow Pressure	<u>219</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>319</u> P.S.I.			
G Final Closed-in Pressure	<u>1369</u> P.S.I.			
H Final Hydrostatic Mud	<u>1955</u> P.S.I.			

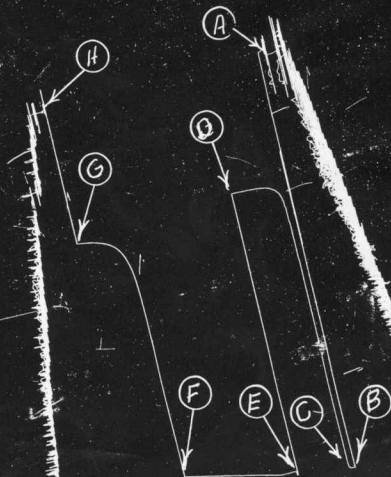
PRESSURE BREAKDOWN

First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of - Min.
Initial Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of - Min.
Second Flow Pressure Breakdown: 12 Inc. of 5 mins. and a final inc. of 4 Min.
Final Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of - Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>194</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>219</u>	<u>0</u>	<u>519</u>
P 2 <u>5</u>	<u>194</u>	<u>3</u>	<u>1290</u>	<u>5</u>	<u>229</u>	<u>3</u>	<u>1196</u>
P 3		<u>6</u>	<u>1390</u>	<u>10</u>	<u>231</u>	<u>6</u>	<u>1267</u>
P 4		<u>9</u>	<u>1411</u>	<u>15</u>	<u>240</u>	<u>9</u>	<u>1313</u>
P 5		<u>12</u>	<u>1418</u>	<u>20</u>	<u>250</u>	<u>12</u>	<u>1332</u>
P 6		<u>15</u>	<u>1421</u>	<u>25</u>	<u>259</u>	<u>15</u>	<u>1344</u>
P 7		<u>18</u>	<u>1424</u>	<u>30</u>	<u>267</u>	<u>18</u>	<u>1353</u>
P 8		<u>21</u>	<u>1425</u>	<u>35</u>	<u>273</u>	<u>21</u>	<u>1359</u>
P 9		<u>24</u>	<u>1425</u>	<u>40</u>	<u>282</u>	<u>24</u>	<u>1365</u>
P10		<u>27</u>	<u>1425</u>	<u>45</u>	<u>289</u>	<u>27</u>	<u>1367</u>
P11		<u>30</u>	<u>1425</u>	<u>50</u>	<u>298</u>	<u>30</u>	<u>1369</u>
P12				<u>55</u>	<u>305</u>		
P13				<u>60</u>	<u>312</u>		
P14				<u>64</u>	<u>319</u>		
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drilling Co.
B-1
Binning

Test # 2
TKT# 3244





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

Company Bowers Drilling Company Lease & Well No. Binning B #1
Elevation - Ticket Number 3245
Date 1-27-64 Sec. 35 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 3840' to 3860' Total Depth 3860'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☒ No ☐
Packer Depth 3840 Ft. Size 6 3/4" Packer Depth 3835 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" IF Anchor Length 20 Ft. Size 5 1/2" OD

RECORDERS Depth 3854 Ft. Clock No. 6859 Depth 3857 Ft. Clock No. 59
Top Make Amerada Cap. 4200# No. 1559 Inside ☐ Outside ☒ Bottom Make Western Cap. 4000# No. 59 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 10:07 P M
Tool Open I.F.P. From 10:10P M to 10:15P M - Hr. 5 Min. From (B) 37 P.S.I. To (C) 37 P.S.I.
Tool Closed I.C.I.P. From 10:15P M. to 10:35P M. - Hr. 20 Min. (D) 1487 P.S.I.
Tool Open F.F.P. From 10:35P M. to 11:05P M. - Hr. 30 Min. From (E) 50 P.S.I. To (F) 71 ~~XXX~~ P.S.I.
Tool Closed F.C.I.P. From 11:05P M. to 11:25P M. - Hr. 20 Min. (G) 1367 P.S.I.
Initial Hydrostatic Pressure (A) 2113 P.S.I. Final Hydrostatic Pressure (H) 2099 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION ☐ M. ☐ M. ☐ M.

BLOW Few bubbles when tool opened Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 70' Muddy water

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 42 Weight 9.9 Maximum Temp. 110 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size No Make ☐ Ser. No. ☐
Type Circ. Sub. Plug Did Tool Plug? ☐ No Where? ☐ Did Packer Hold? ☒ Yes
Length Drill Pipe 3730 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 40 ft.

Remarks

Flushed tool - No help

WESTERN TESTING CO., INC.

Pressure Data

Date 1-27-64 Test Ticket No. 3245
 Recorder No. 1559 Capacity 4200# Location 3854 Ft.
 Clock No. 6859 Elevation - Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2113</u>	P.S.I.	<u>10:07 P</u>	<u>10:07 PM</u>
B First Initial Flow Pressure	<u>37</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>37</u>	P.S.I.	<u>20</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>1487</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>50</u>	P.S.I.	<u>20</u> Mins.	<u>21</u> Mins.
F Second Final Flow Pressure	<u>71</u>	P.S.I.		
G Final Closed-in Pressure	<u>1367</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2099</u>	P.S.I.		

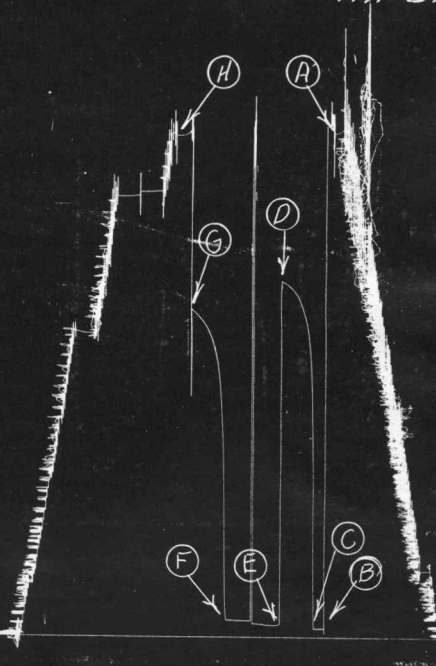
PRESSURE BREAKDOWN

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>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>7</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>37</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>71</u>
P 2 <u>5</u>	<u>37</u>	<u>3</u>	<u>807</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>556</u>
P 3		<u>6</u>	<u>1244</u>	<u>10</u>	<u>52</u>	<u>6</u>	<u>1014</u>
P 4		<u>9</u>	<u>1367</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>1196</u>
P 5		<u>12</u>	<u>1424</u>	<u>20</u>	<u>68</u>	<u>12</u>	<u>1267</u>
P 6		<u>15</u>	<u>1455</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>1311</u>
P 7		<u>18</u>	<u>1474</u>	<u>30</u>	<u>71</u>	<u>18</u>	<u>1344</u>
P 8		<u>21</u>	<u>1487</u>			<u>21</u>	<u>1367</u>
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drilling Co.
Binning #B-1

TEST #3
TKT #3245





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

Company Bowers Drilling Co. Lease & Well No. Binning B #1
Elevation - Ticket Number 3246
Date 1-28-64 Sec. 35 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 3907' to 3920' Total Depth 3920'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Packer Depth 3907 Ft. Size 6 3/4" Packer Depth 3902 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" IF Anchor Length 13 Ft. Size 5 1/2" OD

RECORDERS Depth 3911 Ft. Clock No. 6859 Depth 3914 Ft. Clock No. 59
Top Make Amerada Cap. 4200# No. 1559 Inside ☐ Outside ☐ Bottom Make Western Cap. 4000# No. 59 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 12:56 P M
Tool Open I.F.P. From 1:01P M to 1:06P M - Hr. 5 Min. From (B) 209 P.S.I. To (C) 367 P.S.I.
Tool Closed I.C.I.P. From 1:06P M. to 1:56P M. - Hr. 50 Min. (D) 1500 P.S.I.
Tool Open F.F.P. From 1:56P M. to 2:56P M. 1 Hr. - Min. From (E) 422 P.S.I. To (F) 537 P.S.I.
Tool Closed F.C.I.P. From 2:56P M. to 3:26P M. - Hr. 30 Min. (G) 1403 P.S.I.
Initial Hydrostatic Pressure (A) 2130 P.S.I. Final Hydrostatic Pressure (H) 2120 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION Gas 7 Lbs. 5 M. 1,930,000
Gas 9 " 10 M. 2,190,000
Gas 10 " 20 M. 2,310,000

BLOW Strong Gas to surface 1 1/2 mins. - Mud and water 24 mins. - Mud to surface in 24 mins., changing to salt water Bottom Choke Size 3/4
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 410' Salt Water

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 37 Weight 10. Maximum Temp. 122 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☒ Jars: Size No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? ☒ No Where? Did Packer Hold? ☒ Yes
Length Drill Pipe 3797 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 33 ft.

Remarks

50 Min. I.B.H. was caused by being unable to start motors.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-28-64 Test Ticket No. 3246
 Recorder No. 1559 Capacity 4200# Location 3911 Ft.
 Clock No. 6859 Elevation _____ Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2130</u>	P.S.I.	<u>12:56 P</u>	<u>12:56 PM</u>
B First Initial Flow Pressure	<u>209</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>367</u>	P.S.I.	<u>50</u> Mins.	<u>50</u> Mins.
D Initial Closed-in Pressure	<u>1500</u>	P.S.I.	<u>60</u> Mins.	<u>59</u> Mins.
E Second Initial Flow Pressure	<u>422</u>	P.S.I.	<u>30</u> Mins.	<u>32</u> Mins.
F Second Final Flow Pressure	<u>537</u>	P.S.I.		
G Final Closed-in Pressure	<u>1403</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2120</u>	P.S.I.		

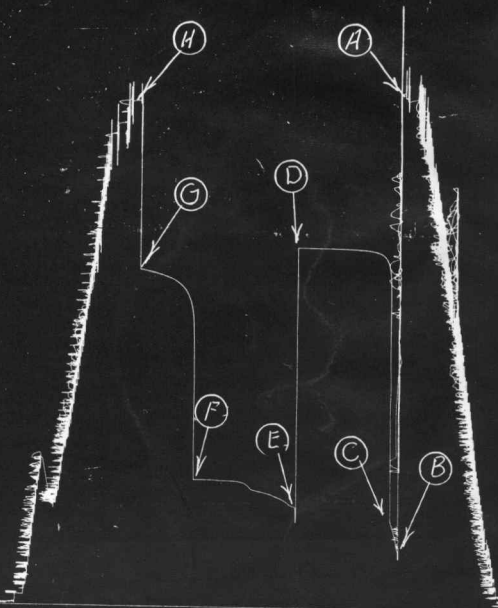
PRESSURE BREAKDOWN

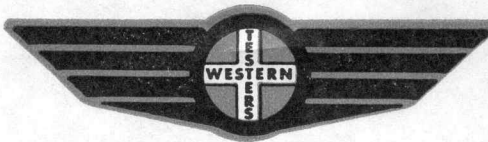
First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	Second Flow Pressure Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>4</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>209</u>	<u>0</u>	<u>367</u>	<u>0</u>	<u>422</u>	<u>0</u>	<u>537</u>
P 2 <u>5</u>	<u>367</u>	<u>3</u>	<u>1392</u>	<u>5</u>	<u>441</u>	<u>3</u>	<u>1231</u>
P 3 _____		<u>6</u>	<u>1470</u>	<u>10</u>	<u>462</u>	<u>6</u>	<u>1311</u>
P 4 _____		<u>9</u>	<u>1485</u>	<u>15</u>	<u>479</u>	<u>9</u>	<u>1342</u>
P 5 _____		<u>12</u>	<u>1489</u>	<u>20</u>	<u>485</u>	<u>12</u>	<u>1359</u>
P 6 _____		<u>15</u>	<u>1493</u>	<u>25</u>	<u>493</u>	<u>15</u>	<u>1369</u>
P 7 _____		<u>18</u>	<u>1497</u>	<u>30</u>	<u>510</u>	<u>18</u>	<u>1380</u>
P 8 _____		<u>21</u>	<u>1497</u>	<u>35</u>	<u>529</u>	<u>21</u>	<u>1388</u>
P 9 _____		<u>24</u>	<u>1498</u>	<u>40</u>	<u>535</u>	<u>24</u>	<u>1395</u>
P10 _____		<u>27</u>	<u>1499</u>	<u>45</u>	<u>537</u>	<u>27</u>	<u>1399</u>
P11 _____		<u>30</u>	<u>1500</u>	<u>50</u>	<u>537</u>	<u>30</u>	<u>1401</u>
P12 _____		<u>33</u>	<u>1500</u>	<u>55</u>	<u>537</u>	<u>32</u>	<u>1403</u>
P13 _____		<u>36</u>	<u>1500</u>	<u>59</u>	<u>537</u>		
P14 _____		<u>39</u>	<u>1500</u>				
P15 _____		<u>42</u>	<u>1500</u>				
P16 _____		<u>45</u>	<u>1500</u>				
P17 _____		<u>48</u>	<u>1500</u>				
P18 _____		<u>50</u>	<u>1500</u>				
P19 _____							
P20 _____							

Bowers Drlg. Co.
Binning. *B-1

TEST #4
TKT #3246





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

Company Bowers Drilling Company Lease & Well No. Binning B-1
Elevation 1688' K.B. Ticket Number 3247
Date 2-2-64 Sec. 35 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Robert McCann Western Representative Guy M. Knipe

Formation Test No. 5 O.K. ☒ Misrun ☐ Interval Tested From 4464' to 4516' Total Depth ☒ 4516'
Size Main Hole 7 7/8" Rat Hole ☐ Conv. ☒ B.T. ☒ Damaged Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐
Packer Depth 4461 Ft. Size 6 3/4" Packer Depth 4464 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth 30' Ft. Size 4 1/2" DP - 22' 5 1/2" OD Perf.
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 52 Ft.

RECORDERS Depth 4473 Ft. Clock No. 6859 Depth 4476 Ft. Clock No. 59
Top Make Amerada Cap. 4200# No. 1559 Inside ☐ Outside ☐ Bottom Make Western Cap. 4000# No. 59 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 10:28A M
Tool Open I.F.P. From 10:32A M to 10:38A M - Hr. 6 Min. From (B) 18 P.S.I. To (C) 18 P.S.I.
Tool Closed I.C.I.P. From 10:38A M. to 11:08A M. - Hr. 30 Min. (D) 18 P.S.I.
Tool Open F.F.P. From 11:08A M. to 12:08P M. - Hr. 1 Min. From (E) 18 P.S.I. To (F) 25 P.S.I.
Tool Closed F.C.I.P. From 12:08P M. to 12:38P M. - Hr. 30 Min. (G) 27 P.S.I.
Initial Hydrostatic Pressure (A) 2462 P.S.I. Final Hydrostatic Pressure (H) 2443 P.S.I.

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

BLOW Fair blow for 6 mins.-Shut tool in-Tool open-No blow-Flushed tool-Weak blow 6 mins. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 20' Drilling Mud

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 43 Weight 9.8 Maximum Temp. 127 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? ☐ No Where? Did Packer Hold? ☒ Yes
Length Drill Pipe 4445 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool 71 ft. with 30' D.P. in anchor

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 2-2-64 Test Ticket No. 3247
 Recorder No. 1559 Capacity 4200# Location 4473 Ft.
 Clock No. 6859 Elevation 1688' K.B. Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2462</u> P.S.I.	Opened Tool	<u>10:28</u> A M	<u>10:28</u> AM
B First Initial Flow Pressure	<u>18</u> P.S.I.	First Flow Pressure	<u>6</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>18</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>18</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>18</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>25</u> P.S.I.			
G Final Closed-in Pressure	<u>27</u> P.S.I.			
H Final Hydrostatic Mud	<u>2443</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>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>18</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>25</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>18</u>	<u>5</u>	<u>18</u>	<u>3</u>	<u>26</u>
P 3		<u>6</u>	<u>18</u>	<u>10</u>	<u>18</u>	<u>6</u>	<u>27</u>
P 4		<u>9</u>	<u>18</u>	<u>15</u>	<u>25</u>	<u>9</u>	<u>27</u>
P 5		<u>12</u>	<u>18</u>	<u>20</u>	<u>25</u>	<u>12</u>	<u>27</u>
P 6		<u>15</u>	<u>18</u>	<u>25</u>	<u>25</u>	<u>15</u>	<u>27</u>
P 7		<u>18</u>	<u>18</u>	<u>30</u>	<u>25</u>	<u>18</u>	<u>27</u>
P 8		<u>21</u>	<u>18</u>	<u>35</u>	<u>25</u>	<u>21</u>	<u>27</u>
P 9		<u>24</u>	<u>18</u>	<u>40</u>	<u>25</u>	<u>24</u>	<u>27</u>
P10		<u>27</u>	<u>18</u>	<u>45</u>	<u>25</u>	<u>27</u>	<u>27</u>
P11		<u>30</u>	<u>18</u>	<u>50</u>	<u>25</u>	<u>30</u>	<u>27</u>
P12				<u>55</u>	<u>25</u>		
P13				<u>60</u>	<u>25</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Bowers Drlg. Co.
Binning #B-1

Test #5
TKT#3247

