



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Bowers Drilling Company Lease & Well No. Gilmore-Chapin #1
 Elevation 1430 Kelly Bushings; Formation- Miss. Ticket Number 6408
 Date Feb. 3, 1965 Sec. 19 Twp. 33 Range 11 County Barber State Kansas
 Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 3 O.K. Misrun Interval Tested From 4568' to 4589' Total Depth 4589'
 Size Main Hole 7 7/8 Rat Hole None Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 4568 Ft. Size 6 3/4 Packer Depth 4563 Ft. Size 6 3/4
 Straddle Yes No Conv. B.T. Damaged Yes No
 Tool Size 5 1/2 OD Packer Depth 4568 Ft. Size 6 3/4 Tool Jt. Size 4 1/2 FH Anchor Length 21 Ft. Size 5 1/2 OD

RECORDERS Depth 4582 Ft. Clock No. 6861 Depth 4585 Ft. Clock No. 105
 Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 60 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 7:50A 5:10 M
 Tool Open I.F.P. From 5:13A M to 5:23 M Hr. 10 Min. From (B) 42 P.S.I. To (C) 49 P.S.I.
 Tool Closed I.C.I.P. From 5:23A M. to 5:53 M. Hr. 30 Min. (D) 1495 P.S.I.
 Tool Open F.F.P. From 5:53A M. to 7:23A M. Hr. 1 Hr. 30 Min. From (E) 84 P.S.I. To (F) 160 P.S.I.
 Tool Closed F.C.I.P. From 7:23A M. to 7:53A M. Hr. 30 Min. (G) 1298 P.S.I.
 Initial Hydrostatic Pressure (A) 2400 P.S.I. Final Hydrostatic Pressure (H) 2383 P.S.I.

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

BLOW Good blow Gas to surface in twenty minutes too weak to gauge. Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 441; total fluid
292' muddy oil - 149' oil cut water Mud _____
 Reversed Out Yes No Mud Type starch Viscosity 44 Weight 10 Maximum Temp. 128 °F
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
 Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
 Length Drill Pipe 4423 ft. I.D. Drill Pipe 3.8 In. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Length Drill Collars 119 ft.
 I. D. Drill Collars 225 in. Length D. S. T. Tool 41 ft.

Remarks Western clock shook loose while going in the hole without tool.



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Company Bowers Drilling Company Lease & Well No. Gilmore-Chapin #1
Elevation 1430 Kelley Bushings; Formation=Miss. Ticket Number 6407
Date Feb. 2, 1965 Sec. 19 Twp. 33 Range 11 County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 2 O.K. Misrun Interval Tested From 4540' to 4570' Total Depth 4570'
Size Main Hole 7 7/8 Rat Hole none Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 4540 Ft. Size 6 3/4 Packer Depth 4535 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 FH Anchor Length 30 Ft. Size 5 1/2 OD

RECORDERS Depth 4564 Ft. Clock No. 6861 Depth 4567 Ft. Clock No. 105
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 9:54
Tool Open I.F.P. From 9:57 M. to 10:00 M. Hr. 3 Min. From (B) 502 P.S.I. To (C) 497 P.S.I.
Tool Closed I.C.I.P. From 10:00 M. to 10:30 M. Hr. 30 Min. (D) 1662 P.S.I.
Tool Open F.F.P. From 10:30 P. to 12:00 M. Hr. 1 Hr. 30 Min. From (E) 610 P.S.I. To (F) 415 P.S.I.
Tool Closed F.C.I.P. From 12:00 P. to 12:30 M. Hr. 30 Min. (G) 1396 P.S.I.
Initial Hydrostatic Pressure (A) 2406 P.S.I. Final Hydrostatic Pressure (H) 2400 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Strong . Gas to surface in 1 1/2 minutes. Mud in 60 minutes. Oil in 70 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes No Recovery Total Ft. 760' - 700' oil - 60' muddy oil
Reversed Out Yes No Mud Type starch Viscosity 45 Weight 10 Maximum Temp. 126 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
Length Drill Pipe 4401 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 119 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 50 ft.

Remarks Waited till daylight to pull oil.

WESTERN TESTING CO., INC.
Pressure Data

Date Feb.2,1965

Test Ticket No. 6407

Recorder No. 1558 Capacity 4200 Location 4564 Ft.

Clock No. 6861 Elevation 1430 Kelly Bushings Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2406</u> P.S.I.	Opened Tool	<u>9:54 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>502</u> P.S.I.	First Flow Pressure	<u>3</u> Mins.	<u>3</u> Mins.
C First Final Flow Pressure	<u>497</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1662</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>610</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>415</u> P.S.I.			
G Final Closed-in Pressure	<u>1396</u> P.S.I.			
H Final Hydrostatic Mud	<u>2400</u> P.S.I.			

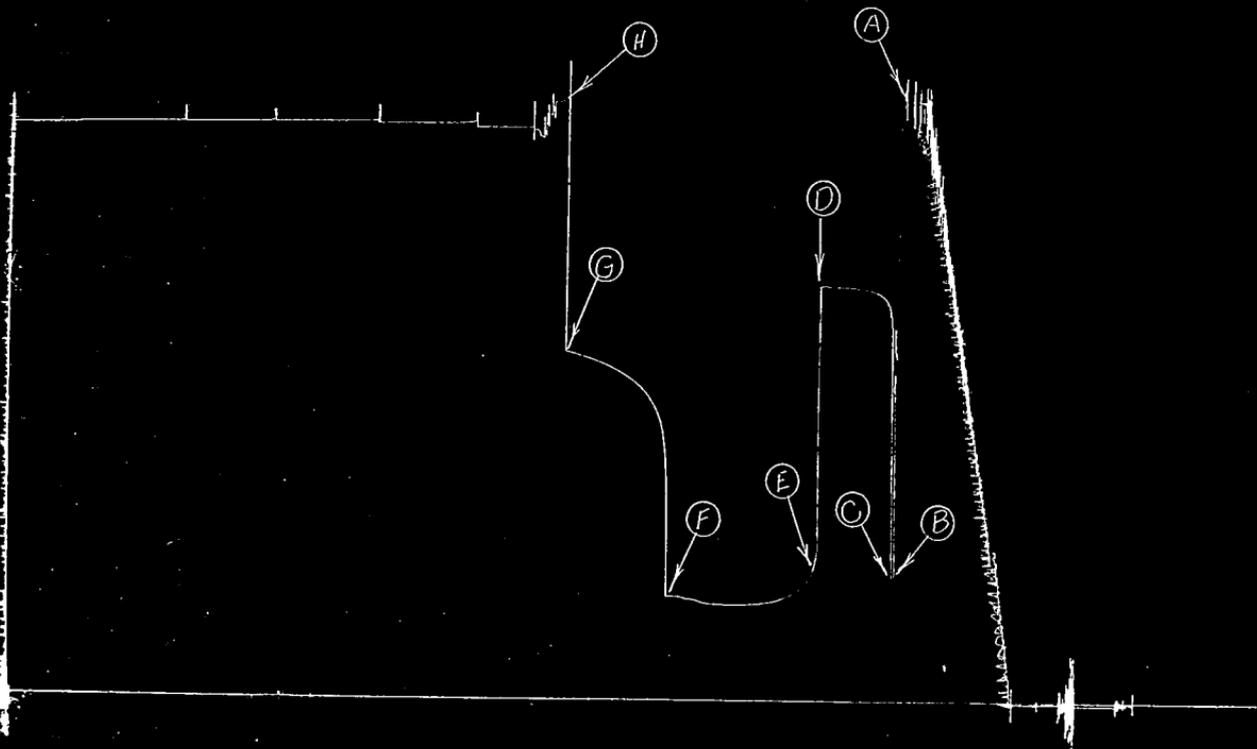
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>13</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>497</u>	<u>0</u>	<u>610</u>	<u>0</u>	<u>415</u>
P 2	<u>3</u>	<u>3</u>	<u>1605</u>	<u>5</u>	<u>485</u>	<u>3</u>	<u>1071</u>
P 3		<u>6</u>	<u>1626</u>	<u>10</u>	<u>445</u>	<u>6</u>	<u>1148</u>
P 4		<u>9</u>	<u>1639</u>	<u>15</u>	<u>424</u>	<u>9</u>	<u>1194</u>
P 5		<u>12</u>	<u>1647</u>	<u>20</u>	<u>407</u>	<u>12</u>	<u>1223</u>
P 6		<u>15</u>	<u>1651</u>	<u>25</u>	<u>394</u>	<u>15</u>	<u>1248</u>
P 7		<u>18</u>	<u>1656</u>	<u>30</u>	<u>390</u>	<u>18</u>	<u>1267</u>
P 8		<u>21</u>	<u>1658</u>	<u>35</u>	<u>386</u>	<u>21</u>	<u>1284</u>
P 9		<u>24</u>	<u>1660</u>	<u>40</u>	<u>383</u>	<u>24</u>	<u>1298</u>
P10		<u>27</u>	<u>1660</u>	<u>45</u>	<u>383</u>	<u>27</u>	<u>1311</u>
P11		<u>30</u>	<u>1661</u>	<u>50</u>	<u>383</u>	<u>30</u>	<u>1323</u>
P12		<u>33</u>	<u>1661</u>	<u>55</u>	<u>383</u>	<u>33</u>	<u>1334</u>
P13		<u>36</u>	<u>1662</u>	<u>60</u>	<u>386</u>	<u>36</u>	<u>1344</u>
P14		<u>39</u>	<u>1662</u>	<u>65</u>	<u>396</u>	<u>39</u>	<u>1353</u>
P15				<u>70</u>	<u>407</u>	<u>42</u>	<u>1361</u>
P16				<u>75</u>	<u>413</u>	<u>45</u>	<u>1367</u>
P17				<u>80</u>	<u>415</u>	<u>48</u>	<u>1372</u>
P18				<u>85</u>	<u>415</u>	<u>51</u>	<u>1380</u>
P19						<u>54</u>	<u>1386</u>
P20						<u>57</u>	<u>1396</u>

Bowers Drlg. Co.
Gilmore-Chapin #1

TEST # 2
TKT # 6407





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

Company Bowers Drilling Company Lease & Well No. Gilmore-Chapin #1
Elevation 1430 Kelly Bushings ; Formation-Miss. Ticket Number 6406
Date Feb. 1, 1965 Sec. 19 Twp. 33 Range 11 County Barber State Kansas
Test Approved by Robert McCann Western Representative George Tew

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 4508' to 4540' Total Depth 4540'
Size Main Hole 7 7/8 Rat Hole None Conv. B.T. _____ Damaged _____ Yes _____ No _____ Conv. B.T. _____ Damaged _____ Yes _____ No _____
Packer Depth 4508 Ft. Size 6 3/4 Packer Depth 4503 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 32 Ft. Size 5 1/2 OD

RECORDERS Depth 4533 Ft. Clock No. 6861 Depth 4536 Ft. Clock No. 105
Top Make Kuster Cap. 4200 No. 1558 Inside _____ Outside _____ Bottom Make Western Cap. 4000 No. 60 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 9:25 A _____ M
Tool Open I.F.P. From 9:28 M to 9:38 M Hr. 10 Min. From (B) _____ P.S.I. To (C) _____ 42 P.S.I.
Tool Closed I.C.I.P. From 9:38 M. to 10:08 M. Hr. _____ Min. (D) _____ 42 P.S.I.
Tool Open F.F.P. From 10:08 M. to 11:38 M. 1 Hr. _____ Min. From (E) _____ P.S.I. To (F) _____ 42 P.S.I.
Tool Closed F.C.I.P. From 11:38 M. to 12:08 M. Hr. _____ Min. (G) _____ 75 P.S.I.
Initial Hydrostatic Pressure (A) 2408 P.S.I. Final Hydrostatic Pressure (H) _____ 2402 P.S.I.

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

BLOW Strong . Gas to surface in 90 minutes. Bottom Choke Size 3/4 in.
Did Well Flow Yes _____ No _____ Recovery Total Ft. 40' gas cut mud

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 45 Weight 10 Maximum Temp. 118 _____ °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
Length Drill Pipe 4369 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 119 ft.
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 52 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date February 1, 1965

Test Ticket No. 6406

Recorder No. 1558 Capacity 4200 Location 4523 Ft.

Clock No. 6861 Elevation 1430 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2408</u> P.S.I.	Opened Tool	<u>9:25 AM</u>	
B First Initial Flow Pressure	<u>42</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>42</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>42</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>32</u> Mins.
F Second Final Flow Pressure	<u>42</u> P.S.I.			
G Final Closed-in Pressure	<u>75</u> P.S.I.			
H Final Hydrostatic Mud	<u>2402</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</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>2</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>42</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>42</u>
P 2 <u>5</u>	<u>42</u>	<u>3</u>	<u>42</u>	<u>5</u>	<u>42</u>	<u>3</u>	<u>50</u>
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>42</u>	<u>10</u>	<u>42</u>	<u>6</u>	<u>59</u>
P 4		<u>9</u>	<u>42</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>67</u>
P 5		<u>12</u>	<u>42</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>71</u>
P 6		<u>15</u>	<u>42</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>75</u>
P 7		<u>18</u>	<u>42</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>75</u>
P 8		<u>21</u>	<u>42</u>	<u>35</u>	<u>42</u>	<u>21</u>	<u>75</u>
P 9		<u>24</u>	<u>42</u>	<u>40</u>	<u>42</u>	<u>24</u>	<u>75</u>
P10		<u>27</u>	<u>42</u>	<u>45</u>	<u>42</u>	<u>27</u>	<u>75</u>
P11		<u>30</u>	<u>42</u>	<u>50</u>	<u>42</u>	<u>30</u>	<u>75</u>
P12				<u>55</u>	<u>42</u>	<u>32</u>	<u>75</u>
P13				<u>60</u>	<u>42</u>		
P14				<u>65</u>	<u>42</u>		
P15				<u>70</u>	<u>42</u>		
P16				<u>75</u>	<u>42</u>		
P17				<u>80</u>	<u>42</u>		
P18				<u>85</u>	<u>42</u>		
P19				<u>90</u>	<u>42</u>		
P20							

Bowers Dr. Co.
Gilmore - Chapin #1

TEST # 1
TKT # 6406

