



TIGHT HOLE

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

Company Walters Drilling Company Lease & Well No. Skinner #1
Elevation 2018 Kelly Bushings; Formation- Miss. Ticket Number 4199
Date Nov. 22, 1964 Sec. 14 Twp. 32 Range 15 County Barber State Kansas
Test Approved by Alfred James III Western Representative George Tew

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4770' to 4810' Total Depth 4810'
Size Main Hole 7 7/8" / 32 Rat Hole None Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐
Packer Depth 4770 Ft. Size 6 3/4 Packer Depth 4765 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth Ft. Size
Tool Size 5 1/2" O. D. Tool Jt. Size 4 1/2" F. N. Anchor Length 40 Ft. Size 5 1/2" O. D.

RECORDERS	Depth <u>4803</u> Ft.	Clock No. <u>6861</u>	Depth <u>4806</u> Ft.	Clock No. <u>105</u>
	Top Make <u>Kuster</u> Cap. <u>4200</u> No. <u>1558</u>	Inside <u> </u> Outside <u> </u>	Bottom Make <u>Western</u> Cap. <u>4000</u> No. <u>60</u>	Inside <u> </u> Outside <u> </u>
Below Straddle:	Depth <u> </u> Clock No. <u> </u>	Inside <u> </u> Outside <u> </u>	Depth <u> </u> Ft. Clock No. <u> </u>	Inside <u> </u> Outside <u> </u>
	Top Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside <u> </u> Outside <u> </u>	Bottom Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside <u> </u> Outside <u> </u>

Time Set Packer 4:22 P M
Tool Open I.F.P. From 4:25 P M to 4:30 P M Hr. 5 Min. From (B) 46 P.S.I. To (C) 46 P.S.I.
Tool Closed I.C.I.P. From 4:30 P M. to 5:00 P M. Hr. 30 Min. (D) 62 P.S.I.
Tool Open F.F.P. From 5:00 P M. to 6:00 M. 1 Hr. Min. From (E) 50 P.S.I. To (F) 50 P.S.I.
Tool Closed F.C.I.P. From 6:00 P M. to 6:30 P M. Hr. 30 Min. (G) 626 P.S.I.
Initial Hydrostatic Pressure (A) 2595 P.S.I. Final Hydrostatic Pressure (H) 2582 P.S.I.

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

BLOW Good blow throughout Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 60' slightly gas out mud

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 43 Weight 9.9 Maximum Temp. 124 °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 4750 ft. I.D. Drill Pipe 3.0 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.
I. D. Drill Collars in. Length D. S. T. Tool 60 ft.

Remarks

WESTERN TESTING CO., INC. Pressure Data

Date November 22, 1964 Test Ticket No. 4199
Recorder No. 1558 Capacity 4200 Location 4803 Ft.
Clock No. 6861 Elevation 2018 Kelly Bushings Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2595</u> P.S.I.	Opened Tool	<u>4:22 P</u> M	
B First Initial Flow Pressure	<u>46</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>46</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>62</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>50</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>50</u> P.S.I.			
G Final Closed-in Pressure	<u>626</u> P.S.I.			
H Final Hydrostatic Mud	<u>2582</u> P.S.I.			

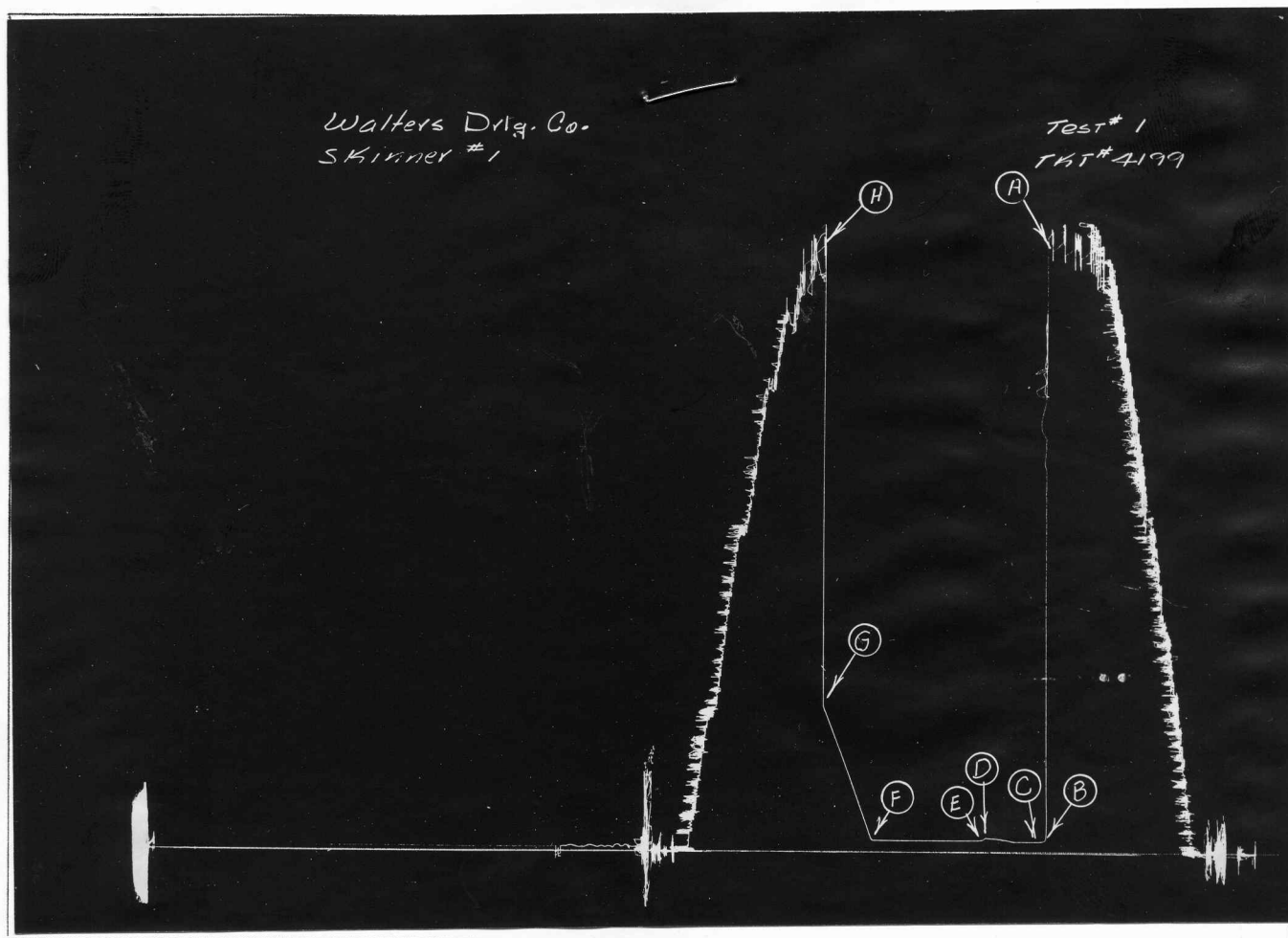
PRESSURE BREAKDOWN

First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of 0 Min.
Initial Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.
Second Flow Pressure Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.
Final Shut-In Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>50</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>96</u>
		<u>6</u>	<u>46</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>160</u>
P 3		<u>9</u>	<u>46</u>	<u>15</u>	<u>50</u>	<u>9</u>	<u>221</u>
P 4		<u>12</u>	<u>46</u>	<u>20</u>	<u>50</u>	<u>12</u>	<u>270</u>
P 5		<u>15</u>	<u>46</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>320</u>
P 6		<u>18</u>	<u>52</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>371</u>
P 7		<u>21</u>	<u>56</u>	<u>35</u>	<u>50</u>	<u>21</u>	<u>419</u>
P 8		<u>24</u>	<u>59</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>476</u>
P 9		<u>27</u>	<u>61</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>524</u>
P 10		<u>30</u>	<u>62</u>	<u>50</u>	<u>50</u>	<u>30</u>	<u>576</u>
P 11				<u>55</u>	<u>50</u>	<u>33</u>	<u>626</u>
P 12				<u>60</u>	<u>50</u>		
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Walters Drilg. Co.
Skinner #1

Test # 1
TAT# 4199

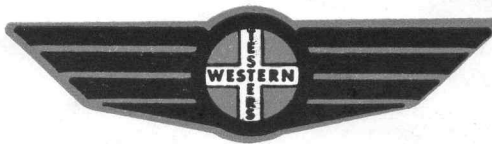


This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2595	PSI
(B) First Initial Flow Pressure	46	PSI
(C) First Final Flow Pressure	46	PSI
(D) Initial Closed-in Pressure	62	PSI
(E) Second Initial Flow Pressure	50	PSI
(F) Second Final Flow Pressure	50	PSI
(G) Final Closed-in Pressure	626	PSI
(H) Final Hydrostatic Mud	2582	PSI



TIGHT HOLE

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

Company Walters Drilling Company Lease & Well No. Skinner #1
Elevation 2018 Kelly Bushings; Formation - Miss. Ticket Number 4200
Date Nov. 23, 1964 Sec. 14 Twp. 32 Range 15 County Barber State Kansas
Test Approved by Alfred James III Western Representative George Tew

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4810' to 4830' Total Depth 4830'
Size Main Hole 7 7/8 Rat Hole None Conv. ☐ B.T. ☐ Damaged ☒ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☒ Yes ☒ No ☐
Packer Depth 4810 Ft. Size 6 3/4 Packer Depth 4805 Ft. Size 6 3/4
Straddle ☒ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☒ Yes ☒ No ☐
Packer Depth Ft. Size
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 20 Ft. Size 5 1/2 O. D.

RECORDERS Depth 4824 Ft. Clock No. 6861 Depth 4827 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 4:52 P M
Tool Open I.F.P. From 4:55 M to 5:00 M Hr. 5 Min. From (B) 33 P.S.I. To (C) 33 P.S.I.
Tool Closed I.C.I.P. From 5:00 M to 5:30 P M. Hr. 30 Min. (D) 113 P.S.I.
Tool Open F.F.P. From 5:30 P M. to 6:30 P M. 1 Hr. Min. From (E) 37 P.S.I. To (F) 38 P.S.I.
Tool Closed F.C.I.P. From 6:30 P M. to 7:00 P M. Hr. 30 Min. (G) 478 P.S.I.
Initial Hydrostatic Pressure (A) 2610 P.S.I. Final Hydrostatic Pressure (H) 2597 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 throughout Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☒ No Recovery Total Ft. 45' slightly gas cut mud

Reversed Out ☒ Yes ☒ No Mud Type starch Viscosity 60 Weight 9.8 Maximum Temp. 124 °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 1790 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 40 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date November 23, 1964 Test Ticket No. 4200
 Recorder No. 1558 Capacity 4200 Location 4824 Ft.
 Clock No. 6861 Elevation 2018 Kelly Bushings Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2610</u> P.S.I.	Opened Tool	<u>4:52 P</u> M	
B First Initial Flow Pressure	<u>33</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>113</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>38</u> P.S.I.			
G Final Closed-in Pressure	<u>478</u> P.S.I.			
H Final Hydrostatic Mud	<u>2597</u> P.S.I.			

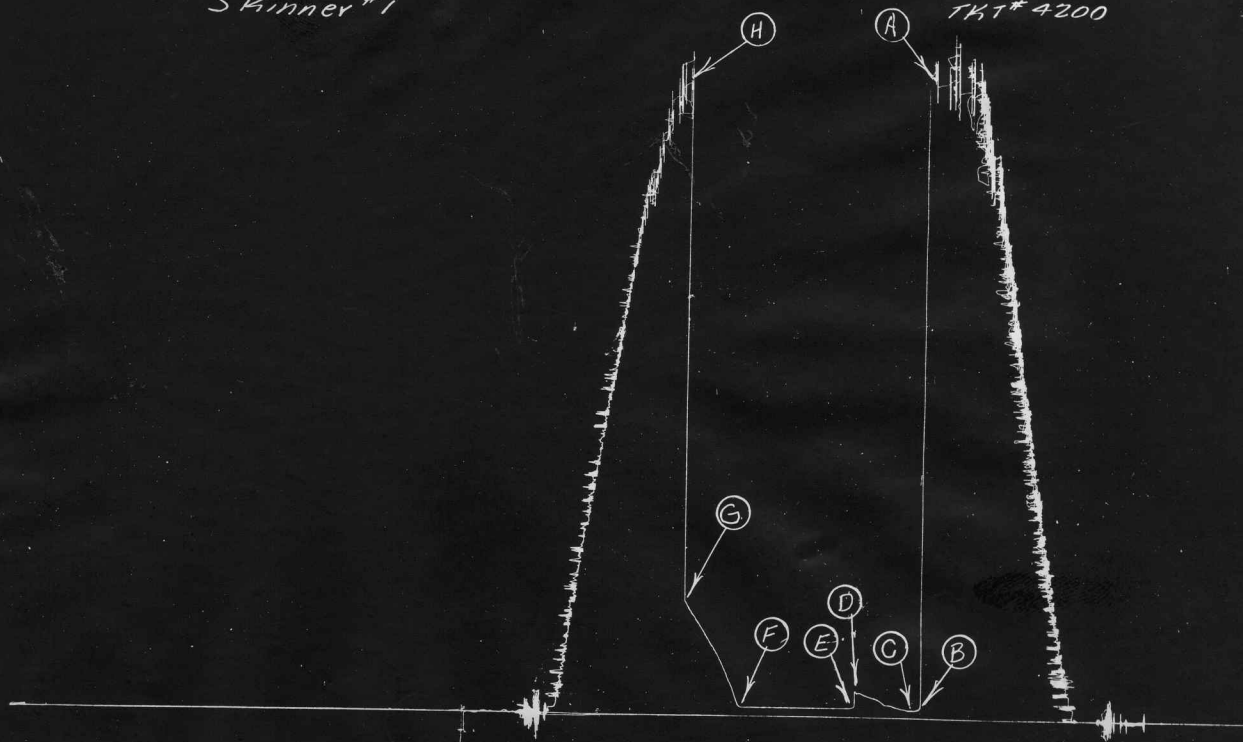
PRESSURE BREAKDOWN

First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of 0 Min.
Initial Shut-In Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.
Second Flow Pressure Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.
Final Shut-In Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>38</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>107</u>
P 3		<u>6</u>	<u>40</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>168</u>
P 4		<u>9</u>	<u>46</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>213</u>
P 5		<u>12</u>	<u>50</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>257</u>
P 6		<u>15</u>	<u>54</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>291</u>
P 7		<u>18</u>	<u>63</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>320</u>
P 8		<u>21</u>	<u>80</u>	<u>35</u>	<u>38</u>	<u>21</u>	<u>358</u>
P 9		<u>24</u>	<u>88</u>	<u>40</u>	<u>38</u>	<u>24</u>	<u>392</u>
P 10		<u>27</u>	<u>96</u>	<u>45</u>	<u>38</u>	<u>27</u>	<u>426</u>
P 11		<u>30</u>	<u>103</u>	<u>50</u>	<u>38</u>	<u>30</u>	<u>478</u>
P 12		<u>33</u>	<u>113</u>	<u>55</u>	<u>38</u>		
P 13				<u>60</u>	<u>38</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Walters Drilg. Co.
Skinner #1

Test #1
TKT# 4200



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2610	PSI
(B) First Initial Flow Pressure	33	PSI
(C) First Final Flow Pressure	33	PSI
(D) Initial Closed-in Pressure	113	PSI
(E) Second Initial Flow Pressure	37	PSI
(F) Second Final Flow Pressure	38	PSI
(G) Final Closed-in Pressure	478	PSI
(H) Final Hydrostatic Mud	2597	PSI



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

Walters & Ferguson

Skinner #1

Company _____ Lease & Well No. _____
Elevation 2018 Kelly Bushings; Formation-Viola Ticket Number 5964
Date Nov. 25, 1964 Sec. 14 Twp. 32 Range 15 County Barber State Kansas
Test Approved by Don W. Beauchamp Western Representative Joe M. Fetterofl, Jr.

Formation Test No. 3 O.K. yes Misrun no Interval Tested From 4969' to 5010' Total Depth 5010'
Size Main Hole 7 7/8 Rat Hole no Conv. B.T. x Damaged Yes no Conv. x B.T. no Damaged Yes x No
Packer Depth 4964 Ft. Size 6 3/4 Packer Depth 4969 Ft. Size 6 3/4
Straddle m Yes No x Conv. B.T. Damaged Yes No
Packer Depth Ft. Size
Tool Size 5 1/2 O.D. Tool Jt. Size 4 1/2 Anchor Length 41 Ft. Size 5 1/2 O.D.

RECORDERS Depth 4983 Ft. Clock No. 4964 Depth 4986 Ft. Clock No. 139
Top Make Amerada Cap. 3150 No. 1562 Inside Outside Bottom Make Western Cap. 4000 No. 41 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 1:21 A. M.
Tool Open I.F.P. From 1:24 M. to 1:30 M. Hr. 6 Min. From (B) 1087 P.S.I. To (C) 1163 P.S.I.
Tool Closed I.C.I.P. From 1:30 M. to 2:00 M. Hr. 30 Min. (D) 1696 P.S.I.
Tool Open F.F.P. From 2:00 M. to 4:00 M. Hr. 2 Min. From (E) 1239 P.S.I. To (F) 1469 P.S.I.
Tool Closed F.C.I.P. From 4:00 M. to 5:00 M. Hr. 1 Min. (G) 1695 P.S.I.
Initial Hydrostatic Pressure (A) 2677 P.S.I. Final Hydrostatic Pressure (H) 2641 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION M.
 M.
 M.

BLOW Very strong blow throughout test. Bottom Choke Size 3/4 in.
Did Well Flow Yes x No Recovery Total Ft. 425 ft of clean oil & 1945 ft. of salt water

Reversed Out Yes x No Mud Type starch Viscosity 44 Weight 10 Maximum Temp. 142 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make Ser. No.
Type Circ. Sub. 4 1/2 FH plug Did Tool Plug? no Where? Did Packer Hold? yes
Length Drill Pipe 4950 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 60 ft.
Remarks

Gas to surface in five minutes.



P. O. Box 793
GREAT BEND, KANSAS

Company **Walters & Ferguson**

Lease & Well No. **Skinner #1**

Test No. **3**

Interval Tested From **4969'** To **5010'**

Time	Max. Press. P.S.I.	Description of Flow
2:00 AM	=====	Gas - Not gaugeable
2:15	=====	Flowing slightly oil cut mud
2:30	802,000	Flowing heavy oil cut mud
2:45	734,000	Flowing clean oil
3:00	734,000 1,250,000	Water and oil
3:15	1,250,000	Water and oil
3:30	734,000 1,250,000	Water and oil
3:45	734,000 1,250,000	Water and oil
4:00	734,000 1,250,000	Water and oil

Size Choke Surface **2** In. Bottom **3/4** In.

Remarks **Pressure was fluctuating very badly from 1 # to 3#**

WESTERN TESTING CO., INC.

Pressure Data

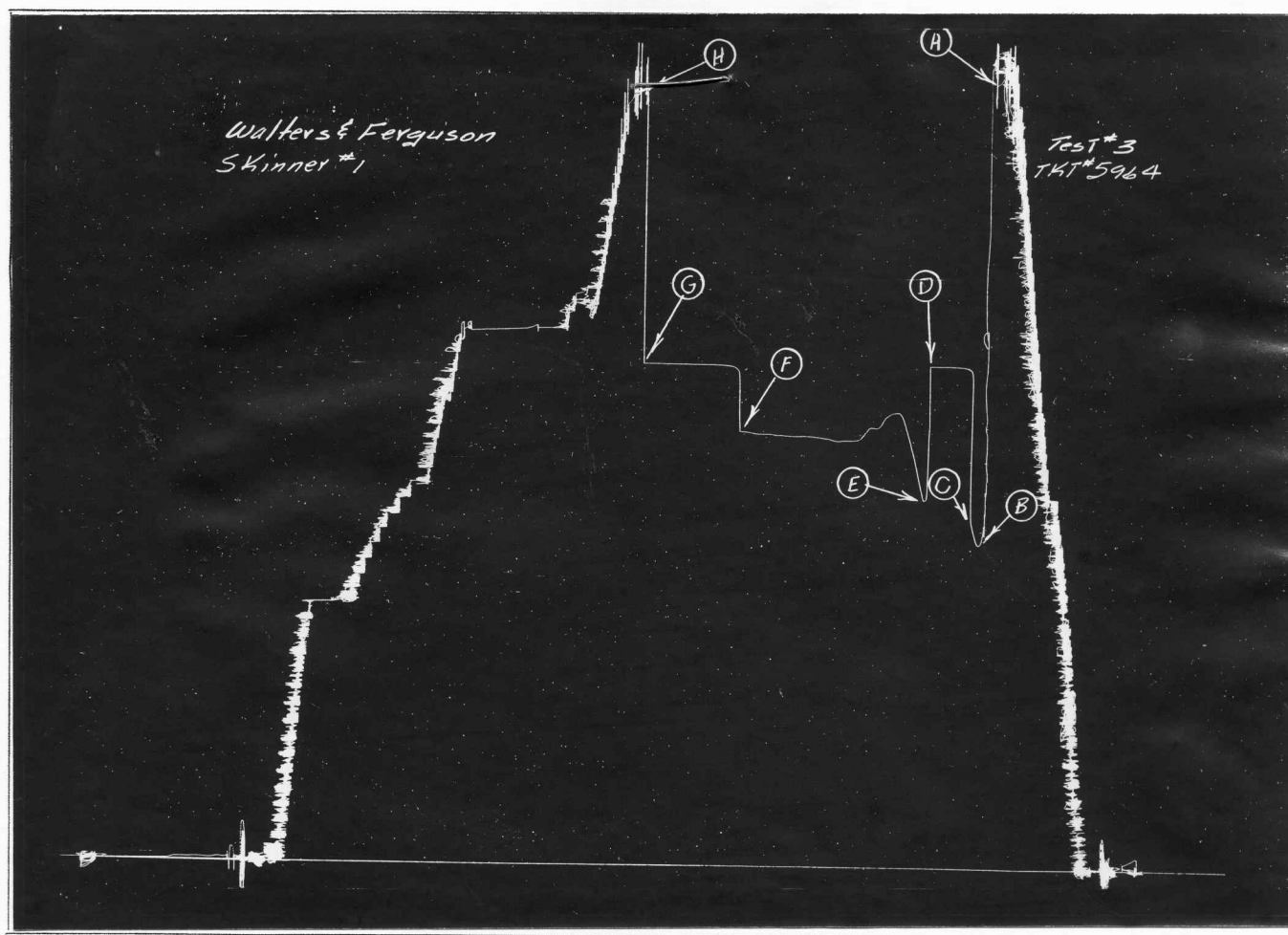
Date November 25, 1964 Test Ticket No. 5964
 Recorder No. 1562 Capacity 3150 Location 4983 Ft.
 Clock No. 4964 Elevation 2018 Kelly Bushings Well Temperature 142 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2677</u> P.S.I.	<u>1:21 A</u> M	
B First Initial Flow Pressure	<u>1087</u> P.S.I.	<u>6</u> Mins.	<u>6</u> Mins.
C First Final Flow Pressure	<u>1163</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1696</u> P.S.I.	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>1239</u> P.S.I.	<u>60</u> Mins.	<u>59</u> Mins.
F Second Final Flow Pressure	<u>1467</u> P.S.I.		
G Final Closed-in Pressure	<u>1695</u> P.S.I.		
H Final Hydrostatic Mud	<u>2641</u> P.S.I.		

PRESSURE BREAKDOWN

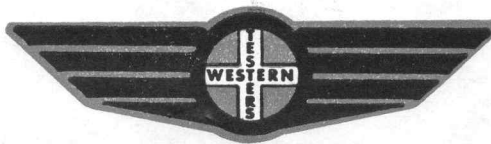
First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>9</u> Inc.	Breakdown: <u>23</u> Inc.	Breakdown: <u>19</u> Inc.
of <u>5</u> mins. and a	of <u>3</u> mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>1</u> Min.	final 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>1087</u>	<u>0</u>	<u>1163</u>	<u>0</u>	<u>1239</u>	<u>0</u>	<u>1467</u>
<u>5</u>	<u>1141</u>	<u>3</u>	<u>1690</u>	<u>5</u>	<u>1307</u>	<u>3</u>	<u>1682</u>
P 2 <u>6</u>	<u>1163</u>	<u>6</u>	<u>1695</u>	<u>10</u>	<u>1406</u>	<u>6</u>	<u>1684</u>
P 3		<u>9</u>	<u>1695</u>	<u>15</u>	<u>1503</u>	<u>9</u>	<u>1686</u>
P 4		<u>12</u>	<u>1696</u>	<u>20</u>	<u>1532</u>	<u>12</u>	<u>1688</u>
P 5		<u>15</u>	<u>1696</u>	<u>25</u>	<u>1520</u>	<u>15</u>	<u>1690</u>
P 6		<u>18</u>	<u>1696</u>	<u>30</u>	<u>1481</u>	<u>18</u>	<u>1691</u>
P 7		<u>21</u>	<u>1696</u>	<u>35</u>	<u>1480</u>	<u>21</u>	<u>1692</u>
P 8		<u>24</u>	<u>1696</u>	<u>40</u>	<u>1451</u>	<u>24</u>	<u>1692</u>
P 9		<u>27</u>	<u>1696</u>	<u>45</u>	<u>1438</u>	<u>27</u>	<u>1693</u>
P 10				<u>50</u>	<u>1439</u>	<u>30</u>	<u>1693</u>
P 11				<u>55</u>	<u>1443</u>	<u>33</u>	<u>1694</u>
P 12				<u>60</u>	<u>1444</u>	<u>36</u>	<u>1694</u>
P 13				<u>65</u>	<u>1447</u>	<u>39</u>	<u>1694</u>
P 14				<u>70</u>	<u>1451</u>	<u>42</u>	<u>1695</u>
P 15				<u>75</u>	<u>1452</u>	<u>45</u>	<u>1695</u>
P 16				<u>80</u>	<u>1452</u>	<u>48</u>	<u>1695</u>
P 17				<u>85</u>	<u>1453</u>	<u>51</u>	<u>1695</u>
P 18				<u>90</u>	<u>1454</u>	<u>54</u>	<u>1695</u>
P 19				<u>95</u>	<u>1456</u>	<u>57</u>	<u>1695</u>
P 20				<u>100</u>	<u>1459</u>	<u>59</u>	<u>1695</u>
				<u>105</u>	<u>1461</u>		
				<u>110</u>	<u>1465</u>		
				<u>115</u>	<u>1467</u>		



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2677 PSI
(B) First Initial Flow Pressure	1087 PSI
(C) First Final Flow Pressure	1163 PSI
(D) Initial Closed-in Pressure	1696 PSI
(E) Second Initial Flow Pressure	1239 PSI
(F) Second Final Flow Pressure	1467 PSI
(G) Final Closed-in Pressure	1695 PSI
(H) Final Hydrostatic Mud	2641 PSI



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

Company Walters & Ferguson Lease & Well No. Skinner #1
Elevation 2018 Kelly Bushings; Formation-Simp. Md. Ticket Number 5965
Date Nov. 26, 1964 Sec. 14 Twp. 32w Range 15 County Barber State Kansas
Test Approved by Don W. Beauchamp Western Representative Joe M. Fetterolf, Jr.

Formation Test No. 4 O.K. yes Misrun Interval Tested From 5074' to 5079' Total Depth 5079'
Size Main Hole 7 7/8 Rat Hole no Conv. B.T. X Damaged Yes no Conv. X B.T. Damaged Yes no No
Packer Depth 5069 Ft. Size 6 3/4 Packer Depth 5074 Ft. Size 6 3/4
Straddle Yes No no Conv. B.T. Damaged Yes No
Packer Depth Ft. Size
Tool Size 5 1/2 O.D. Tool Jt. Size 4 1/2 FH Anchor Length 5 Ft. Size ~~XXXXX~~ 5 1/2 O.D.

RECORDERS	Depth <u>5061</u>	Ft.	Clock No. <u>4964</u>	Depth <u>5076</u>	Ft.	Clock No. <u>139</u>
	Top Make <u>Amerada</u>	Cap. <u>3150</u>	No. <u>1562</u>	Bottom Make <u>Western</u>	Cap. <u>4000</u>	No. <u>41</u>
			<u>Inside</u>			<u>Inside</u>
			<u>Outside</u>			<u>Outside</u>
Below Straddle:	Depth <u> </u>		Clock No. <u> </u>	Depth <u> </u>	Ft.	Clock No. <u> </u>
	Top Make <u> </u>	Cap. <u> </u>	No. <u> </u>	Bottom Make <u> </u>	Cap. <u> </u>	No. <u> </u>
			<u>Inside</u>			<u>Inside</u>
			<u>Outside</u>			<u>Outside</u>

Time Set Packer 5:49 A M
Tool Open I.F.P. From 5:51 M to 5:56 M Hr. 5 Min. From (B) 61 P.S.I. To (C) 113 P.S.I.
Tool Closed I.C.I.P. From 5:56 M. to 6:26 M. Hr. 30 Min. (D) 1716 P.S.I.
Tool Open F.F.P. From 6:26 M. to 8:26 M. 2 Hr. Min. From (E) 146 P.S.I. To (F) 1070 P.S.I.
Tool Closed F.C.I.P. From 8:26 M. to 9:26 M. 1 Hr. Min. (G) 1717 ~~18x~~ P.S.I.
Initial Hydrostatic Pressure (A) 2735 P.S.I. Final Hydrostatic Pressure (H) 2735 P.S.I.

SURFACE	Size Choke <u>3/8</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>
	<u> </u>	<u> </u>	<u> </u> M.	<u> </u>

BLOW Strong blow throughout test Bottom Choke Size 3/4 in.
Did Well Flow Yes no Recovery Total Ft. 75' of gas cut mud-230' of heavily oil & gas cut mud-
420' clean oil-790' clean oil cut with 10 to 20% water Mud
Reversed Out Yes no No Mud Type starch Viscosity 46 Weight 10.1 Maximum Temp. 145 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make Ser. No.
Type Circ. Sub. 4 1/2 FH plug Did Tool Plug? no Where? Did Packer Hold? yes
Length Drill Pipe 5050 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 29 ft.

Remarks

Gas to surface in 35 minutes. would not gauge (1064' of sulphur water)

WESTERN TESTING CO., INC.

Pressure Data

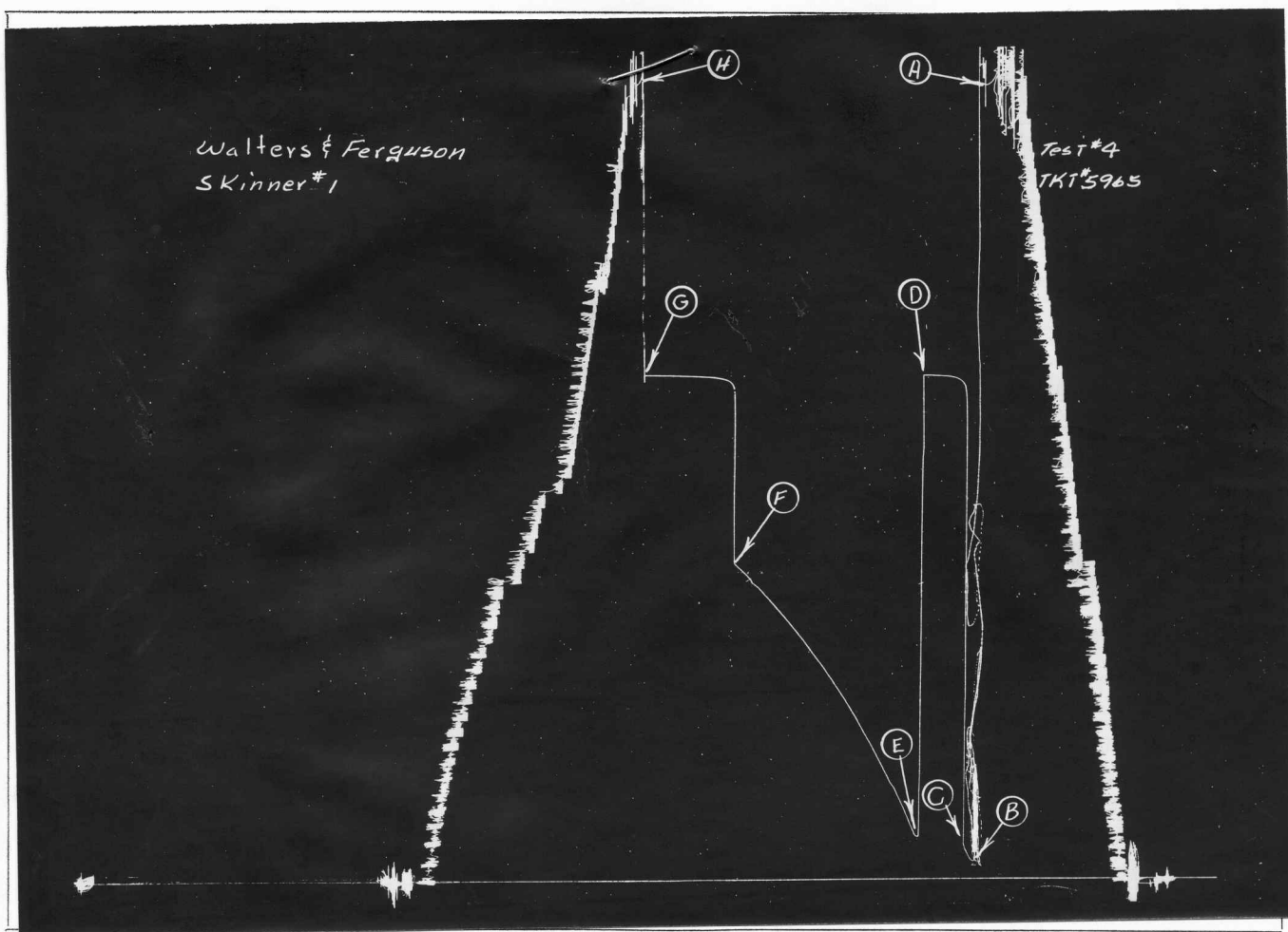
Date November 26, 1964 Test Ticket No. 5965
 Recorder No. 1562 Capacity 3150 Location 5061 Ft.
 Clock No. 4964 Elevation 2018 Kelly Bushings Well Temperature 145 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2735</u> P.S.I.	Opened Tool	<u>5:49 A/</u> M	
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>113</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1716</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>114</u> Mins.
E Second Initial Flow Pressure	<u>146</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>1070</u> P.S.I.			
G Final Closed-in Pressure	<u>1717</u> P.S.I.			
H Final Hydrostatic Mud	<u>2735</u> P.S.I.			

PRESSURE BREAKDOWN

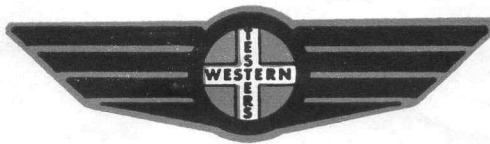
First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of 0 Min.
Initial Shut-In Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.
Second Flow Pressure Breakdown: 22 Inc. of 5 mins. and a final inc. of 4 Min.
Final Shut-In Breakdown: 19 Inc. of 3 mins. and a final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>61</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>146</u>	<u>0</u>	<u>1070</u>
<u>5</u>	<u>113</u>	<u>3</u>	<u>1698</u>	<u>5</u>	<u>168</u>	<u>3.</u>	<u>1695</u>
P 2		<u>6</u>	<u>1709</u>	<u>10</u>	<u>245</u>	<u>6</u>	<u>1703</u>
P 3		<u>9</u>	<u>1712</u>	<u>15</u>	<u>300</u>	<u>9</u>	<u>1708</u>
P 4		<u>12</u>	<u>1714</u>	<u>20</u>	<u>35;</u>	<u>12</u>	<u>1711</u>
P 5		<u>15</u>	<u>1716</u>	<u>25</u>	<u>405</u>	<u>15</u>	<u>1712</u>
P 6		<u>18</u>	<u>1716</u>	<u>30</u>	<u>460</u>	<u>18</u>	<u>1713</u>
P 7		<u>21</u>	<u>1716</u>	<u>35</u>	<u>512</u>	<u>21</u>	<u>1713</u>
P 8		<u>24</u>	<u>1716</u>	<u>40</u>	<u>558</u>	<u>24</u>	<u>1714</u>
P 9		<u>27</u>	<u>1716</u>	<u>45</u>	<u>605</u>	<u>27</u>	<u>1714</u>
P10				<u>50</u>	<u>647</u>	<u>30</u>	<u>1715</u>
P11				<u>55</u>	<u>688</u>	<u>33</u>	<u>1715</u>
P12				<u>60</u>	<u>730</u>	<u>36</u>	<u>1715</u>
P13				<u>65</u>	<u>766</u>	<u>39</u>	<u>1716</u>
P14				<u>70</u>	<u>801</u>	<u>42</u>	<u>1716</u>
P15				<u>75</u>	<u>839</u>	<u>45</u>	<u>1717</u>
P16				<u>80</u>	<u>872</u>	<u>48</u>	<u>1717</u>
P17				<u>85</u>	<u>907</u>	<u>51</u>	<u>1717</u>
P18				<u>90</u>	<u>936</u>	<u>54</u>	<u>1717</u>
P19				<u>95</u>	<u>968</u>	<u>57</u>	<u>1717</u>
P20				<u>100</u>	<u>996</u>		
				<u>105</u>	<u>1026</u>		
				<u>110</u>	<u>1054</u>		
				<u>114</u>	<u>1070</u>		



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2735	PSI
(B) First Initial Flow Pressure	61	PSI
(C) First Final Flow Pressure	113	PSI
(D) Initial Closed-in Pressure	1716	PSI
(E) Second Initial Flow Pressure	146	PSI
(F) Second Final Flow Pressure	1070	PSI
(G) Final Closed-in Pressure	1717	PSI
(H) Final Hydrostatic Mud	2735	PSI



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

Walters Drilling Co.

Skinner #1

Company _____ Lease & Well No. _____

Elevation 2018 Kelly Bushings; Formation-Arb. Ticket Number 4129

Date Nov. 28, 1964 Sec. 14 Twp. 32 Range 15 County Barber State Kansas

Test Approved by Don Beauchamp Western Representative George Tew

Formation Test No. 5 O.K. ☒ Misrun _____ Interval Tested From 5167' to 5200' Total Depth 5200'

Size Main Hole 7 7/8 Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No _____

Packer Depth 5167 Ft. Size 6' 3/4 Packer Depth 5162 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 33 Ft. Size 5 1/2 OD

RECORDERS Depth 5191 Ft. Clock No. 6861 Depth 5194 Ft. Clock No. 105

Top Make Kuster Cap. 4200 No. 1558 Inside Bottom Make Western Cap. 4000 No. 60 Inside

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

Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Inside

Time Set Packer 7:12 P M

Tool Open I.F.P. From 7:15P M to 7:50P M Hr. 5 Min. From (B) 40 P.S.I. To (C) 40 P.S.I.

Tool Closed I.C.I.P. From 7:20P M. to 7:50P M. Hr. 30 Min. (D) 1808 P.S.I.

Tool Open F.F.P. From 7:50P M. to 8:27P M. Hr. 37 Min. From (E) 40 P.S.I. To (F) 49 P.S.I.

Tool Closed F.C.I.P. From 8:27P M. to 8:57P M. Hr. 30 Min. (G) 1772 P.S.I.

Initial Hydrostatic Pressure (A) 2769 P.S.I. Final Hydrostatic Pressure (H) 2763 P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW Weak for five minutes. Flushed tool twice. Weak blow for five minutes Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 35' drilling mud

Reversed Out _____ Yes ☒ No _____ Mud Type starch Viscosity 47 Weight 10 Maximum Temp. 133 °F

EXTRA EQUIPMENT: Dual Packers _____ Safety Joint _____ Jars: Size _____ Make _____ Ser. No. _____

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

Length Drill Pipe 5147 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 53 ft.

Remarks _____

WESTERN TESTING CO., INC. Pressure Data

Date November 28, 1964 Test Ticket No. 4129
Recorder No. 1558 Capacity 4200 Location 5191 Ft.
Clock No. 6861 Elevation 2018 Kelly Bushings Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2769</u> P.S.I.	Opened Tool	<u>7:12 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>40</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>40</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>35</u> Mins.
D Initial Closed-in Pressure	<u>1808</u> P.S.I.	Second Flow Pressure	<u>37</u> Mins.	<u>36</u> Mins.
E Second Initial Flow Pressure	<u>40</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-in Pressure	<u>1772</u> P.S.I.			
H Final Hydrostatic Mud	<u>2763</u> P.S.I.			

PRESSURE BREAKDOWN

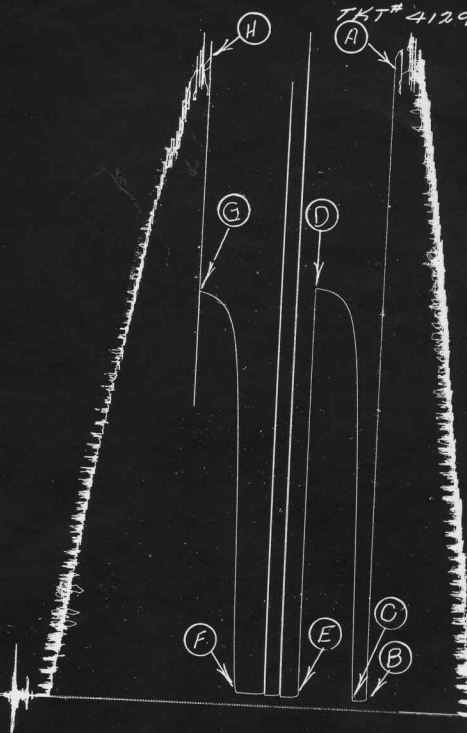
First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>7</u> Inc.	Breakdown: <u>12</u> Inc.
of <u>5</u> mins. and a	of <u>3</u> mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>0</u> Min.	final inc. of <u>2</u> Min.	final inc. of <u>1</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>40</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>49</u>
P 2 <u>5</u>	<u>40</u>	<u>3</u>	<u>375</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>263</u>
P 3		<u>6</u>	<u>732</u>	<u>10</u>	<u>40</u>	<u>6</u>	<u>537</u>
P 4		<u>9</u>	<u>1292</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>1035</u>
P 5		<u>12</u>	<u>1573</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>1512</u>
P 6		<u>15</u>	<u>1698</u>	<u>25</u>	<u>46</u>	<u>15</u>	<u>1605</u>
P 7		<u>18</u>	<u>1746</u>	<u>30</u>	<u>49</u>	<u>18</u>	<u>1668</u>
P 8		<u>21</u>	<u>1774</u>	<u>35</u>	<u>49</u>	<u>21</u>	<u>1715</u>
P 9		<u>24</u>	<u>1789</u>	<u>36</u>	<u>49</u>	<u>24</u>	<u>1734</u>
P10		<u>27</u>	<u>1799</u>	<u>45x</u>		<u>27</u>	<u>1751</u>
P11		<u>30</u>	<u>1805</u>			<u>30</u>	<u>1763</u>
P12		<u>33</u>	<u>1807</u>			<u>33</u>	<u>1767</u>
P13		<u>35</u>	<u>1808</u>			<u>36</u>	<u>1772</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Walters Dr. Co.
Skinner #1

TEST # 5

TKT # 4129



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2769	PSI
(B)	First Initial Flow Pressure	40	PSI
(C)	First Final Flow Pressure	40	PSI
(D)	Initial Closed-in Pressure	1808	PSI
(E)	Second Initial Flow Pressure	40	PSI
(F)	Second Final Flow Pressure	49	PSI
(G)	Final Closed-in Pressure	1772	PSI
(H)	Final Hydrostatic Mud	2763	PSI