

28-25-25



TIGHT HOLE

Home Office: Great Bend, Kansas

P. O. Box 793

(316) 793-7903

U. S. Hydrocarbon Co.

Lease & Well No.

Wichita Project #2

Elevation 1381 Kelly Bushings Formation Burgess Effective Pay _____ Ft. Ticket No. 15738

Date Nov. 17, 1971 Sec. 28 Twp. 25 Range 2E County Sedgwick State Kansas

Test Approved by Charley V. Shank Western Representative George Tew

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 2853' to 2889' Total Depth 2889'

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

Packer Depth 2852 Ft. Size 63/4" Packer Depth _____ Ft. Size _____

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 36 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2877 Ft. Clock No. 6896 Depth 2880 Ft. Clock No. 6894

Top Make Kuster Cap. 4500 No. 3086 Inside _____ Outside _____ Bottom Make Kuster Cap. 4300 No. 1566 Inside _____ Outside _____

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

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

Time Set Packer. 12:52 P. _____ M _____

Tool Open I.F.P. From 12:55 M. to 1:25 P. M. _____ Hr. 30 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.

Tool Closed I.C.I.P. From 12:55 M. to 1:55 P. M. _____ Hr. 30 Min. (D) 36 P.S.I.

Tool Open F.F.P. From 1:55 M. to 2:25 P. M. _____ Hr. 30 Min. From (E) 23 P.S.I. To (F) 23 P.S.I.

Tool Closed F.C.I.P. From 2:25 M. to 2:55 P. M. _____ Hr. _____ Min. (G) 25 P.S.I.

Initial Hydrostatic Pressure (A) 1406 P.S.I. Final Hydrostatic Pressure (H) 1400 P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

_____ M. _____

BLOW Weak for 10 minutes then died. Bottom Choke Size 3/4 In.

Did Well Flow ☒ Yes _____ No _____ Recovery Total Ft. 10 feet Drilling Mud

Reversed Out ☒ Yes _____ No _____ Mud Type Chem Viscosity 41 Weight 9.8 Water Loss 12 cc. Maximum Temp. 110 °F

Type Circ. Sub. Plug Did Tool Plug? ☒ No _____ Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers ☒ No _____ Safety Joint ☒ No _____ Did Packer Hold? ☒ Yes _____ Where? _____

Length Drill Pipe 2777 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 60 ft.

I. D. Drill Collars 2 1/2 in. Length D.S.T. Tool 51 ft.

Remarks _____

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WESTERN TESTING CO., INC.

Pressure Data

28-25-2E

Date **November 17, 1971**

Test Ticket No. **15738**

Recorder No. **3086**

Capacity **4500**

Location **2877** Ft.

Clock No. **6896**

Elevation **1381 Kelly Bushings**

Well Temperature **110** °F

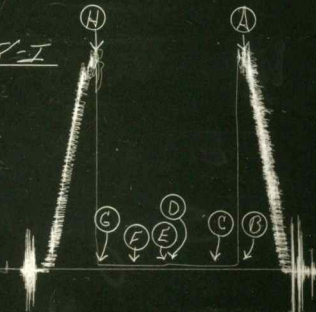
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1406	P.S.I.	12:52 P. M.	
B First Initial Flow Pressure	23	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	23	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	36	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	23	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	23	P.S.I.		
G Final Closed-in Pressure	25	P.S.I.		
H Final Hydrostatic Mud	1400	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 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	23	0	23	0	23	0	23
P 2 5	23	3	23	5	23	3	23
P 3 10	23	6	24	10	23	6	23
P 4 15	23	9	25	15	23	9	23
P 5 20	23	12	26	20	23	12	23
P 6 25	23	15	27	25	23	15	23
P 7 30	23	18	28	30	23	18	23
P 8 _____		21	30	35		21	23
P 9 _____		24	32			24	24
P10 _____		27	34			27	25
P11 _____		30	36			30	25
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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TKT-15738-I





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company U. S. Hydrocarbon Co. Lease & Well No. Wichita Project #2
Elevation 1381 Kelly Bushings Formation Burgess Effective Pay _____ Ft. Ticket No. 15739
Date Nov. 18, 1971 Sec. 28 Twp. 25 Range 2E County Sedgwick State Kansas
Test Approved by Charley V. Shank Western Representative George Tew
Formation Test No. 2 O.K. _____ Misrun _____ Interval Tested From 2853' to 2899' Total Depth 2899'
Size Main Hole 7 7/8" Rat Hole None Conv. X B.T. _____ Damaged _____ Yes X No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth 2853 Ft. Size 6 3/4" Packer Depth _____ Ft. Size _____
Straddle _____ 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" F.H. Anchor Length 46 Ft. Size 5 1/2" O.D.
RECORDERS Depth 2860 Ft. Clock No. 6896 Depth 2863 Ft. Clock No. 8894
Top Make Kuster Cap. 4500 No. 3086 Inside _____ Outside _____ Bottom Make Kuster Cap. 4300 No. 1566 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 12:27 A. M
Tool Open I.F.P. From 12:30 M. to 1:00 M. Hr. 30 Min. From (B) 16 P.S.I. To (C) 16 P.S.I.
Tool Closed I.C.I.P. From 1:00 M. to 1:30 M. Hr. 30 Min. (D) 165 P.S.I.
Tool Open F.F.P. From 1:30 M. to 2:00 M. Hr. 30 Min. From (E) 47 P.S.I. To (F) 28 P.S.I.
Tool Closed F.C.I.P. From 2:00 M. to 2:30 M. Hr. 30 Min. (G) 184 P.S.I.
Initial Hydrostatic Pressure (A) 1432 P.S.I. Final Hydrostatic Pressure (H) 1417 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak to dead in 20 minutes Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes X No _____ Recovery Total Ft. 10 feet Drilling Mud
Reversed Out _____ Yes X No _____ Mud Type Chem Viscosity 41 Weight 9.8 Water Loss 12 cc. Maximum Temp 110 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2790 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 30 ft.
I. D. Drill Collars 2 1/2 in. Length D.S.T. Tool 79 ft.
Remarks Flushed tool at 1:40 A.M.

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WESTERN TESTING CO., INC.

Pressure Data

28-25-2E

Date November 18, 1971

Test Ticket No. 15739

Recorder No. 3086 Capacity 4500 Location 28 60 Ft.

Clock No. 6896 Elevation 1381 Kelly Bushings Well Temperature 110 °F

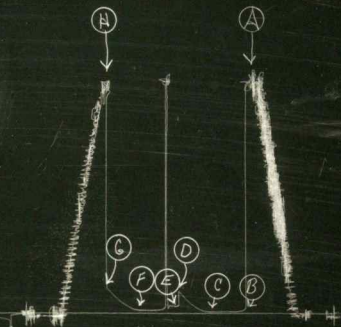
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1432</u> P.S.I.		<u>12:27</u> A. M	
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>16</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>165</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>47</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>28</u> P.S.I.			
G Final Closed-in Pressure	<u>184</u> P.S.I.			
H Final Hydrostatic Mud	<u>1417</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 _____ 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>16</u>	<u>0</u>	<u>16</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>28</u>
P 2 <u>5</u>	<u>16</u>	<u>3</u>	<u>19</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>33</u>
P 3 <u>10</u>	<u>16</u>	<u>6</u>	<u>23</u>	<u>10</u>	<u>28</u>	<u>6</u>	<u>40</u>
P 4 <u>15</u>	<u>16</u>	<u>9</u>	<u>37</u>	<u>15</u>	<u>28</u>	<u>9</u>	<u>56</u>
P 5 <u>20</u>	<u>16</u>	<u>12</u>	<u>52</u>	<u>20</u>	<u>28</u>	<u>12</u>	<u>73</u>
P 6 <u>25</u>	<u>16</u>	<u>15</u>	<u>71</u>	<u>25</u>	<u>28</u>	<u>15</u>	<u>94</u>
P 7 <u>30</u>	<u>16</u>	<u>18</u>	<u>91</u>	<u>30</u>	<u>28</u>	<u>18</u>	<u>114</u>
P 8 _____		<u>21</u>	<u>111</u>			<u>21</u>	<u>132</u>
P 9 _____		<u>24</u>	<u>135</u>	Iratic Pressure		<u>24</u>	<u>156</u>
P10 _____		<u>27</u>	<u>146</u>	first 5 minutes		<u>27</u>	<u>170</u>
P11 _____		<u>30</u>	<u>165</u>	caused by Plugging		<u>30</u>	<u>184</u>
P12 _____				action			
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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THT-15739-0





28-25-36

Home Office: Great Bend, Kansas

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Company U. S. Hydrocarbon Co. Lease & Well No. Wichita Project #2
Elevation 1381 Kelly Bushings Formation Burgess Effective Pay _____ Ft. Ticket No. 15740
Date Nov. 18, 1971 Sec. 28 Twp. 25 Range 2E County Sedgwick State Kansas
Test Approved by Charley V. Shank Western Representative George Tew

Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 2853' to 2918' Total Depth 2918'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth 2853 Ft. Size 6 3/4" Packer Depth _____ Ft. Size _____
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 65 Ft. Size 5 1/2" O.D.

RECORDERS	Depth <u>2870</u>	Ft.	Clock No. <u>6894</u>	Depth <u>2873</u>	Ft.	Clock No. <u>6896</u>
	Top Make <u>3086</u>	Cap. <u>4500</u>	No. <u>3086</u>	Bottom Make <u>Kuster</u>	Cap. <u>4300</u>	No. <u>1566</u>
			Inside _____			Inside _____
			Outside _____			Outside _____
Below Straddle: Depth _____			Inside _____	Depth _____		Inside _____
			Outside _____			Outside _____
Top Make _____			Inside _____	Bottom Make _____		Inside _____
Cap. _____			Outside _____	Cap. _____		Outside _____

Time Set Packer 11:27 A. M
Tool Open I.F.P. From 11:30 M. to 12:00 M. Hr. 30 Min. From (B) 172 P.S.I. To (C) 694 P.S.I.
Tool Closed I.C.I.P. From 12:00 M. to 1:00 P. M. 1 Hr. 00 Min. (D) 761 P.S.I.
Tool Open F.F.P. From 1:00 M. to 3:00 P. M. 2 Hr. 00 Min. From (E) 727 P.S.I. To (F) 761 P.S.I.
Tool Closed F.C.I.P. From 3:00 M. to 4:00 M. 1 Hr. 00 Min. (G) 761 P.S.I.
Initial Hydrostatic Pressure (A) 1430 P.S.I. Final Hydrostatic Pressure (H) 1426 P.S.I.

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

BLOW Strong Dead in 60 minutes Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1745 feet Muddy Salt Water

Reversed Out ☒ Yes _____ No _____ Mud Type Chem Viscosity 41 Weight 9.8 Water Loss 12 cc. Maximum Temp. 112 °F
Type Circ. Sub. Plug Did Tool Plug? ☒ Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☒ Did Packer Hold? ☒ Where? _____
Length Drill Pipe 2808 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 30 ft.
I. D. Drill Collars 2 1/2 in. Length D.S.T. Tool 80 ft.

Remarks

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WESTERN TESTING CO., INC.

Pressure Data

28-25-3E

Date November 18, 1971

Test Ticket No. 15740

Recorder No. 3086 Capacity 4500 Location 2870 Ft.

Clock No. 6894 Elevation 1381 Kelly Bushings Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1430</u> P.S.I.	Open Tool	<u>11:27</u> A.M.	
B First Initial Flow Pressure	<u>172</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>694</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>761</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>727</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>761</u> P.S.I.			
G Final Closed-in Pressure	<u>761</u> P.S.I.			
H Final Hydrostatic Mud	<u>1426</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>20</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>2-</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of _____ 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>172</u>	<u>0</u>	<u>694</u>	<u>0</u>	<u>727</u>	<u>0</u>	<u>761</u>
P 2 <u>5</u>	<u>381</u>	<u>3</u>	<u>727</u>	<u>5</u>	<u>732</u>	<u>3</u>	<u>761</u>
P 3 <u>10</u>	<u>492</u>	<u>6</u>	<u>736</u>	<u>10</u>	<u>743</u>	<u>6</u>	<u>761</u>
P 4 <u>15</u>	<u>574</u>	<u>9</u>	<u>739</u>	<u>15</u>	<u>750</u>	<u>9</u>	<u>761</u>
P 5 <u>20</u>	<u>632</u>	<u>12</u>	<u>741</u>	<u>20</u>	<u>753</u>	<u>12</u>	<u>761</u>
P 6 <u>25</u>	<u>667</u>	<u>15</u>	<u>743</u>	<u>25</u>	<u>756</u>	<u>15</u>	<u>761</u>
P 7 <u>30</u>	<u>694</u>	<u>18</u>	<u>746</u>	<u>30</u>	<u>760</u>	<u>18</u>	<u>761</u>
P 8 _____		<u>21</u>	<u>748</u>	<u>35</u>	<u>761</u>	<u>21</u>	<u>761</u>
P 9 _____		<u>24</u>	<u>749</u>	<u>40</u>	<u>761</u>	<u>24</u>	<u>761</u>
P 10 _____		<u>27</u>	<u>750</u>	<u>45</u>	<u>761</u>	<u>27</u>	<u>761</u>
P 11 _____		<u>30</u>	<u>751</u>	<u>50</u>	<u>761</u>	<u>30</u>	<u>761</u>
P 12 _____		<u>33</u>	<u>752</u>	<u>55</u>	<u>761</u>	<u>33</u>	<u>761</u>
P 13 _____		<u>36</u>	<u>753</u>	<u>60</u>	<u>761</u>	<u>36</u>	<u>761</u>
P 14 _____		<u>39</u>	<u>754</u>	<u>65</u>	<u>761</u>	<u>39</u>	<u>761</u>
P 15 _____		<u>42</u>	<u>755</u>	<u>70</u>	<u>761</u>	<u>42</u>	<u>761</u>
P 16 _____		<u>45</u>	<u>756</u>	<u>75</u>	<u>761</u>	<u>45</u>	<u>761</u>
P 17 _____		<u>48</u>	<u>757</u>	<u>80</u>	<u>761</u>	<u>48</u>	<u>761</u>
P 18 _____		<u>51</u>	<u>758</u>	<u>85</u>	<u>761</u>	<u>51</u>	<u>761</u>
P 19 _____		<u>54</u>	<u>759</u>	<u>90</u>	<u>761</u>	<u>54</u>	<u>761</u>
P 20 _____		<u>57</u>	<u>760</u>	<u>95</u>	<u>761</u>	<u>57</u>	<u>761</u>
		<u>60</u>	<u>761</u>	<u>100</u>	<u>761</u>	<u>60</u>	<u>761</u>
				<u>105</u>	<u>761</u>		
				<u>110</u>	<u>761</u>		
				<u>115</u>	<u>761</u>		
				<u>120</u>	<u>761</u>		

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