



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

Company H & M Oil Producers, Inc. Lease & Well No. Tuttle #8-2
Elevation 1968 Kelly Bush. Formation Morrow Effective Pay - Ft. Ticket No. 22736
Date 9-26-77 Sec. 3 Twp. 35S Range 22W County Clark State Kansas
Test Approved by G. W. Speer Western Representative Joe N. Lusk
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 5652' to 5745' Total Depth 5745'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 5647 Ft. Size 6 3/4 Bottom Packer Depth 5652 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 93 Ft. Size 33' 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5658 Ft. Clock No. 10168 Depth 5661 Ft. Clock No. 6894
Top Make Kuster Cap. 4150 No. 969 Inside Bottom Make Kuster Cap. 4400 No. 2603 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Inside
Time Set Packer 11:43P M
Tool Open I.F.P. From 11:45P M. to 12:00M M. - Hr. 15 Min. From (B) 1662 P.S.I. To (C) 1722 P.S.I.
Tool Closed I.C.I.P. From 12:00M M. to 1:00A M. - Hr. 60 Min (D) 2055 P.S.I.
Tool Open F.F.P. From 1:00A M. to 1:15A M. - Hr. 15 Min. From (E) 1748 P.S.I. To (F) 1794 P.S.I.
Tool Closed F.C.I.P. From 1:15A M. to 2:45A M. - Hr. 90 Min. (G) 1986 P.S.I.
Initial Hydrostatic Pressure (A) 2878 P.S.I. Final Hydrostatic Pressure (H) 2778 P.S.I. Maximum Temp. 133

INFORMATION

BLOW Strong blow immediately on intial flow period. Gas to surface in 3 minutes. See attached sheet for gas measurements.

Did Well Flow - Yes ☒ No Recovery Total Ft. 20' disstilate

Reversed Out ☐ Yes ☒ No Mud Type Premix Viscosity 8.0 Weight 9.5 Water Loss 8.4 cc. Chlorides 10,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. -

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

DRILLING CONTRACTOR Thomas Drlg Rig #2 Length Drill Pipe? 5120 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 561 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH Length D.S.T. Tool 124 Ft.

Remarks:

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GAS FLOW REPORT

Date 9-26-77 Ticket 227336 Company H & M Oil Producers Inc.
Well Name and No. Tuttle #8-2 Dst No. 1 Interval Tested 5652' - 5745'
County Clark State Kansas Sec. 3 Twp. 35S Rg. 22W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
11:53PM	8 min.	55 lbs.	2" orifice			6,640,000 C.F.P.D.
11:58PM	13 min.	80 lbs.	2" orifice			9,010,000 C.F.P.D.
12:00M	15 min.	80 lbs.	2" orifice			9,010,000 C.F.P.D.
Gas to surface in 3 minutes.						

SECOND FLOW

[illegible]

GAS BOTTLE

Serial No. _____ - _____ Date Bottle Filled _____ - _____ Date to be Invoiced _____ - _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME H & M Oil Producers Inc.

Authorized by G. W. Speer

WESTERN TESTING CO., INC.

Pressure Data

Date 9-26-77 Test Ticket No. 22736
 Recorder No. 969 Capacity 4150 Location 5658 Ft.
 Clock No. 10168 Elevation 1968 Kelly Bushing Well Temperature 133 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2878 P.S.I.	11:43P M	
B First Initial Flow Pressure	1662 P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure	1722 P.S.I.	60 Mins.	57 Mins.
D Initial Closed-in Pressure	2055 P.S.I.	15 Mins.	15 Mins.
E Second Initial Flow Pressure	1748 P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	1794 P.S.I.		
G Final Closed-in Pressure	1986 P.S.I.		
H Final Hydrostatic Mud	2778 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>30</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>1662</u>	<u>0</u>	<u>1722</u>	<u>0</u>	<u>1748</u>	<u>0</u>	<u>1794</u>
P 2 <u>5</u>	<u>1671</u>	<u>3</u>	<u>1990</u>	<u>5</u>	<u>1770</u>	<u>3</u>	<u>1958</u>
P 3 <u>10</u>	<u>1707</u>	<u>6</u>	<u>2013</u>	<u>10</u>	<u>1788</u>	<u>6</u>	<u>1965</u>
P 4 <u>15</u>	<u>1722</u>	<u>9</u>	<u>2028</u>	<u>15</u>	<u>1794</u>	<u>9</u>	<u>1973</u>
P 5		<u>12</u>	<u>2037</u>			<u>12</u>	<u>1976</u>
P 6		<u>15</u>	<u>2042</u>			<u>15</u>	<u>1987</u>
P 7		<u>18</u>	<u>2046</u>			<u>18</u>	<u>1989</u>
P 8		<u>21</u>	<u>2047</u>			<u>21</u>	<u>1981</u>
P 9		<u>24</u>	<u>2051</u>			<u>24</u>	<u>1982</u>
P10		<u>27</u>	<u>2053</u>			<u>27</u>	<u>1983</u>
P11		<u>30</u>	<u>2053</u>			<u>30</u>	<u>1984</u>
P12		<u>33</u>	<u>2054</u>			<u>33</u>	<u>1985</u>
P13		<u>36</u>	<u>2054</u>			<u>36</u>	<u>1985</u>
P14		<u>39</u>	<u>2054</u>			<u>39</u>	<u>1985</u>
P15		<u>42</u>	<u>2054</u>			<u>42</u>	<u>1985</u>
P16		<u>45</u>	<u>2055</u>			<u>45</u>	<u>1985</u>
P17		<u>48</u>	<u>2055</u>			<u>48</u>	<u>1985</u>
P18		<u>51</u>	<u>2055</u>			<u>51</u>	<u>1985</u>
P19		<u>54</u>	<u>2055</u>			<u>54</u>	<u>1985</u>
P20		<u>57</u>	<u>2055</u>			<u>57</u>	<u>1985</u>

WESTERN TESTING CO., INC.

Pressure Data

9-26-77

Test Ticket No. 22736

Date Recorder No. 969

Capacity 4150

Location 5658 Ft.

Clock No. 10168

Elevation 1968 Kelly Bushing

Well Temperature 133 °F

Point

Pressure

Time Given

Time Computed

A Initial Hydrostatic Mud 2878 P.S.I.
B First Initial Flow Pressure 1662 P.S.I.
C First Final Flow Pressure 1722 P.S.I.
D Initial Closed-in Pressure 2055 P.S.I.
E Second Initial Flow Pressure 1748 P.S.I.
F Second Final Flow Pressure 1794 P.S.I.
G Final Closed-in Pressure 1986 P.S.I.
H Final Hydrostatic Mud 2778 P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

11:43P M
15 Mins. 15 Mins.
60 Mins. 57 Mins.
15 Mins. 15 Mins.
90 Mins. 90 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 3 Inc.

of 5 mins. and a

final inc. of 0 Min.

Initial Shut-In

Breakdown: 19 Inc.

of 3 mins. and a

final inc. of 0 Min.

Second Flow Pressure

Breakdown: 3 Inc.

of 5 mins. and a

final inc. of 0 Min.

Final Shut-In

Breakdown: 30 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						60	1985
P 2						63	1986
P 3						66	1986
P 4						69	1986
P 5						72	1986
P 6						75	1986
P 7						78	1986
P 8						81	1986
P 9						84	1986
P10						87	1986
P11						90	1986
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

969

TK+ # 22736

I.

