



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

Company Patton Oil Company Lease & Well No. McMichaels "B" #1
Elevation 1696 Kelly Bushing Formation Herrington Effective Pay -- Ft. Ticket No. 1537
Date 2/21/79 Sec. N23 Twp. 27S Range 10W County Kingman State Kansas
Test Approved by Robert C. Armstrong Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 1552' ft. to 1590' ft. Total Depth 1590' ft.
Packer Depth 1547 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 1552 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --

Top Recorder Depth (Inside) 1580 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 1583 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Big Springs Drilling Rig #1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 35 Weight Pipe Length 31 I. D. 2.7 in.
Weight 10.2 Water Loss 15.6 cc. Drill Pipe Length 1500 I. D. 3.8 in.
Chlorides 144,000 P.P.M. Test Tool Length 21' = 10' Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 38' ft. Size 5 1/2 OD in.
Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak to strong blow on first flow period. Strong blow throughout second flow period.
Gas to surface in three minutes on second flow. See attached sheet for gas measurements.

Recovered 110 ft. of thin mud
Recovered -- ft. of --
Recovered -- ft. of --
Recovered -- ft. of --
Recovered -- ft. of --

Remarks: --

Time Set Packer(s) 10:10 A.M. Time Started Off Bottom 12:30 A.M. Maximum Temperature 81
Initial Hydrostatic Pressure (A) 866 P.S.I.
Initial Flow Period Minutes 30 (B) 70 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period Minutes 30 (D) 532 P.S.I.
Final Flow Period Minutes 40 (E) 95 P.S.I. to (F) 68 P.S.I.
Final Closed In Period Minutes 40 (G) 540 P.S.I.
Final Hydrostatic Pressure (H) 829 P.S.I.



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GAS FLOW REPORT

Date 2/21/79 Ticket 1537 Company Patton Oil Company
Well Name and No. McMichaels "B" #1 Dst No. 1 Interval Tested 1552' - 1590'
County Kingman State Kansas Sec. K123 Twp. 27S Rg. 10W

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						

Gas to surface in three minutes.

SECOND FLOW

5 min.	16" of water 1/2" orifice			25,100 CFPD
10 min.	15" of water 1/2" orifice			24,500 CFPD
20 min.	22" of water 1/2" orifice			29,400 CFPD
30 min.	32" of water 1/2" orifice			35,500 CFPD
40 min.	34" of water 1/2" orifice			36,500 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 2/21/79

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 Patton Oil Company

Authorized by Robert C. Armstrong

WESTERN TESTING CO., INC.

Pressure Data

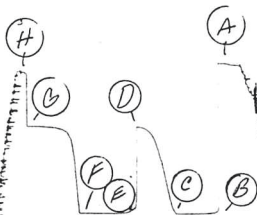
Date 2/21/79 Test Ticket No. 1537
 Recorder No. 2607 Capacity 4150 Location 1580 Ft.
 Clock No. -- Elevation 1696 Kelly Bushing Well Temperature 81 °F

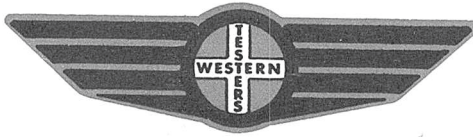
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	866 P.S.I.	10:10A M	
B First Initial Flow Pressure	70 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	59 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	532 P.S.I.	40 Mins.	45 Mins.
E Second Initial Flow Pressure	95 P.S.I.	40 Mins.	39 Mins.
F Second Final Flow Pressure	68 P.S.I.		
G Final Closed-in Pressure	540 P.S.I.		
H Final Hydrostatic Mud	829 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>13</u> Inc. of <u>3</u> mins. and a 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>70</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>68</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>89</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>280</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>176</u>	<u>10</u>	<u>68</u>	<u>6</u>	<u>439</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>265</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>500</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>347</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>519</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>426</u>	<u>25</u>	<u>65</u>	<u>15</u>	<u>527</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>483</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>530</u>
P 8		<u>21</u>	<u>508</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>534</u>
P 9		<u>24</u>	<u>523</u>	<u>40</u>	<u>68</u>	<u>24</u>	<u>535</u>
P10		<u>27</u>	<u>529</u>	<u>45</u>	<u>68</u>	<u>27</u>	<u>536</u>
P11		<u>30</u>	<u>532</u>			<u>30</u>	<u>537</u>
P12						<u>33</u>	<u>538</u>
P13						<u>36</u>	<u>539</u>
P14						<u>39</u>	<u>540</u>
P15							
P16							
P17							
P18							
P19							
P20							

Tkt # 1537
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Company Patton Oil Company Lease & Well No. McMichaels "B" #1

Elevation 1696 Kelly Bushing Formation Indian Cave Effective Pay -- Ft. Ticket No. 1538

Date 2/23/79 Sec. 23 Twp. 27S Range 10W County Kingman State Kansas

Test Approved by Robert C. Armstrong Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 2327 ft. to 2355 ft. Total Depth 2355 ft.

Packer Depth 2322 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2327 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2345 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 2348 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Big Springs Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 39 Weight Pipe Length 31 I. D. 2.7 in.

Weight 10.0 Water Loss 11.6 cc. Drill Pipe Length 2275 I. D. 3.8 in.

Chlorides 103,000 P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 28' ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods.

Recovered 1550 ft. of salt water 155,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:15 A.M. Time Started Off Bottom 7:15 P.M. Maximum Temperature 92

Initial Hydrostatic Pressure 1251 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 604 P.S.I. to (C) 814 P.S.I.

Initial Closed In Period 30 Minutes (D) 1033 P.S.I.

Final Flow Period 30 Minutes (E) 900 P.S.I. to (F) 933 P.S.I.

Final Closed In Period 30 Minutes (G) 1015 P.S.I.

Final Hydrostatic Pressure 1215 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 2/23/79 Recorder No. 2607 Capacity 4150 Test Ticket No. 1538
 Clock No. -- Elevation 1696 Kelly Bushing Location 2345 Ft. --
 Well Temperature 92 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1251</u> P.S.I.	Open Tool	<u>5:15P</u> M	
B. First Initial Flow Pressure	<u>604</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>814</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>1033</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>900</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>933</u> P.S.I.			
G. Final Closed-in Pressure	<u>1015</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1215</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 <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>604</u>	<u>0</u>	<u>814</u>	<u>0</u>	<u>900</u>	<u>0</u>	<u>933</u>
P 2 <u>5</u>	<u>671</u>	<u>3</u>	<u>931</u>	<u>5</u>	<u>891</u>	<u>3</u>	<u>960</u>
P 3 <u>10</u>	<u>685</u>	<u>6</u>	<u>960</u>	<u>10</u>	<u>900</u>	<u>6</u>	<u>975</u>
P 4 <u>15</u>	<u>720</u>	<u>9</u>	<u>981</u>	<u>15</u>	<u>908</u>	<u>9</u>	<u>983</u>
P 5 <u>20</u>	<u>760</u>	<u>12</u>	<u>996</u>	<u>20</u>	<u>916</u>	<u>12</u>	<u>992</u>
P 6 <u>25</u>	<u>793</u>	<u>15</u>	<u>1006</u>	<u>25</u>	<u>923</u>	<u>15</u>	<u>998</u>
P 7 <u>30</u>	<u>814</u>	<u>18</u>	<u>1012</u>	<u>30</u>	<u>933</u>	<u>18</u>	<u>1004</u>
P 8		<u>21</u>	<u>1021</u>			<u>21</u>	<u>1008</u>
P 9		<u>24</u>	<u>1027</u>			<u>24</u>	<u>1010</u>
P10		<u>27</u>	<u>1029</u>			<u>27</u>	<u>1012</u>
P11		<u>30</u>	<u>1033</u>			<u>30</u>	<u>1015</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 1538

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