



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5424

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation Formation Eff. Pay Ft.

K.C. Kansas City

District Pratt Date 9/8/80 Customer Order No.

COMPANY NAME Patton Oil Company
ADDRESS Greenwood Plaza No. 5460 S. Syracuse Circle Suite 200 Englewood

LEASE AND WELL NO. Park #2 COUNTY Kiowa STATE KS Sec. 1 Twp 28 Rge 18

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4186 ft. to 4200 ft. Total Depth 4200 ft.
Packer Depth 4181 ft. Size 6 3/4 in. Packer Depth = ft. Size = in.
Packer Depth 4186 ft. Size 6 3/4 in. Packer Depth = ft. Size = in.

Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4190 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4193 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Big Springs Drilling Rig #1
Mud Type Premix-Dripac Viscosity 36
Weight 9.8 Water Loss 56 cc.
Chlorides 52,000 P.P.M.
Jars: Make - Serial Number -
Did Well Flow? Yes Reversed Out No
Drill Collar Length - I. D. - in.
Weight Pipe Length - I. D. - in.
Drill Pipe Length 4165 I. D. 3.8 in.
Test Tool Length 21 ft. Tool Size 5500 in.
Anchor Length 14 3/4 ft. Size 5500 in.
Surface Choke Size 7 3/8 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods test.
Gas to surface in 14 min on preflow Qu attached

Recovered 90 ft. of Watery Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Arrived: 8:00 P.M.
Picked Up Tools: 9:30 P.M.
Left: 4:00 AM

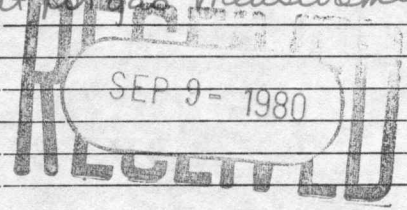


Table with 4 columns: Time Set Packer(s), Time Started Off Bottom, Maximum Temperature, and various pressure/period measurements (A-H).

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bernard Lainsbury
Signature of Customer or his authorized representative

Western Representative Jim Woods Thank You

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage 35m, Fluid Sampler, Extra Charts, and TOTAL.



GAS FLOW REPORT

No 1701

Date 9/8/80 Ticket # 5424 Company Patton Oil Co
Well Name and No. Fark #2 Dst No. 1 Interval Tested 4186-4200
County Kiowa State Ks Sec. 1 Twp. 28 Rg. 18

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
					<i>Gas to surface in 14 min Cubic Foot Per Day</i>
20	11 H ₂ O	1/4"			5,600 C.F.P.D
30	14"	"			6,330 "
					OK

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
SECOND FLOW					
					<i>Cubic Foot Per Day</i>
10	20 H ₂ O	1/4"			7,510 C.F.P.D
20	16 "	"			6,720 "
30	15 "	"			6,550 "
					OK

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 _____
Authorized by _____
(Signature)

WESTERN TESTING CO., INC.

Pressure Data

Date 8-8-80 Test Ticket No. 5424
 Recorder No. 2607 Capacity 4150 Location 4190 Ft.
 Clock No. _____ Elevation _____ Well Temperature 115 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2181</u>	P.S.I.	Open Tool	<u>11:50 P.M.</u>	
B First Initial Flow Pressure	<u>87</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1136</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>72</u>	P.S.I.			
G Final Closed-in Pressure	<u>1040</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2135</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 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: 6 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>0</u>	<u>87</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>72</u>
P 2	<u>5</u>	<u>3</u>	<u>67</u>	<u>296</u>	<u>5</u>	<u>77</u>	<u>284</u>
P 3	<u>10</u>	<u>6</u>	<u>61</u>	<u>460</u>	<u>10</u>	<u>74</u>	<u>430</u>
P 4	<u>15</u>	<u>9</u>	<u>61</u>	<u>619</u>	<u>15</u>	<u>74</u>	<u>550</u>
P 5	<u>20</u>	<u>12</u>	<u>60</u>	<u>742</u>	<u>20</u>	<u>73</u>	<u>661</u>
P 6	<u>25</u>	<u>15</u>	<u>60</u>	<u>834</u>	<u>25</u>	<u>73</u>	<u>752</u>
P 7	<u>30</u>	<u>18</u>	<u>59</u>	<u>921</u>	<u>30</u>	<u>72</u>	<u>816</u>
P 8	<u>35</u>	<u>21</u>		<u>992</u>	<u>35</u>		<u>873</u>
P 9	<u>40</u>	<u>24</u>		<u>1046</u>	<u>40</u>		<u>929</u>
P10	<u>45</u>	<u>27</u>		<u>1086</u>	<u>45</u>		<u>977</u>
P11	<u>50</u>	<u>30</u>		<u>1136</u>	<u>50</u>		<u>1040</u>
P12	<u>55</u>	<u>33</u>			<u>55</u>		
P13	<u>60</u>	<u>36</u>			<u>60</u>		
P14		<u>39</u>			<u>65</u>		
P15		<u>42</u>			<u>70</u>		
P16		<u>45</u>			<u>75</u>		
P17		<u>48</u>			<u>80</u>		
P18		<u>51</u>			<u>85</u>		
P19		<u>54</u>			<u>90</u>		
P20		<u>57</u>					
		<u>60</u>					

Company Patton Oil Company Lease & Well No. Fark #2
 Elevation ---- Formation Kansas City Effective Pay --- Ft. Ticket No. 5424
 Date 9/8/80 Sec. 1 Twp. 28S Range 18W County Kiowa State Kansas
 Test Approved by Bernard Lounsbury Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4186 ft. to 4200 ft. Total Depth 4200 ft.
 Packer Depth 4181 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4186 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4190 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4193 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Big Springs Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix-drispac Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 56 cc. Drill Pipe Length 4165 I. D. 3.8 in.
 Chlorides 52,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 14 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: Strong blow throughout test. Gas to surface in fourteen minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 90 ft. of watery mud
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:50 ~~AM~~ P.M. Time Started Off Bottom 1:50 ~~PM~~ A.M. Maximum Temperature 115°
 Initial Hydrostatic Pressure (A) 2181 P.S.I.
 Initial Flow Period Minutes 30 (B) 87 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1136 P.S.I.
 Final Flow Period Minutes 30 (E) 89 P.S.I. to (F) 72 P.S.I.
 Final Closed In Period Minutes 30 (G) 1040 P.S.I.
 Final Hydrostatic Pressure (H) 2135 P.S.I.

GAS FLOW REPORT

Date 9/8/80 Ticket 5424 Company Patton Oil Company
 Well Name and No. Fark #2 Dst No. 1 Interval Tested 4186'-4200'
 County Kiowa State Kansas Sec. 1 Twp. 28S Rg. 18W

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
Gas to surface in fourteen minutes PRE FLOW						
	20 min.	11" of water		1/4" orifice		5,600 CFPD
	30 min.	14" of water		1/4" orifice		6,330 CFPD

SECOND FLOW						
	10 min.	20" of water		1/4" orifice		7,510 CFPD
	20 min.	16" of water		1/4" orifice		6,720 CFPD
	30 min.	15" of water		1/4" orifice		6,550 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled --- Date to be Invoiced 9/8/80

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 1/2% per month, equal to 18% 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
Bernard Lounsbury
 Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 9-8-80 Test Ticket No. 5424
 Recorder No. 2607 Capacity 4150 Location 4190 Ft.
 Clock No. ----- Elevation ----- Well Temperature 115 °F

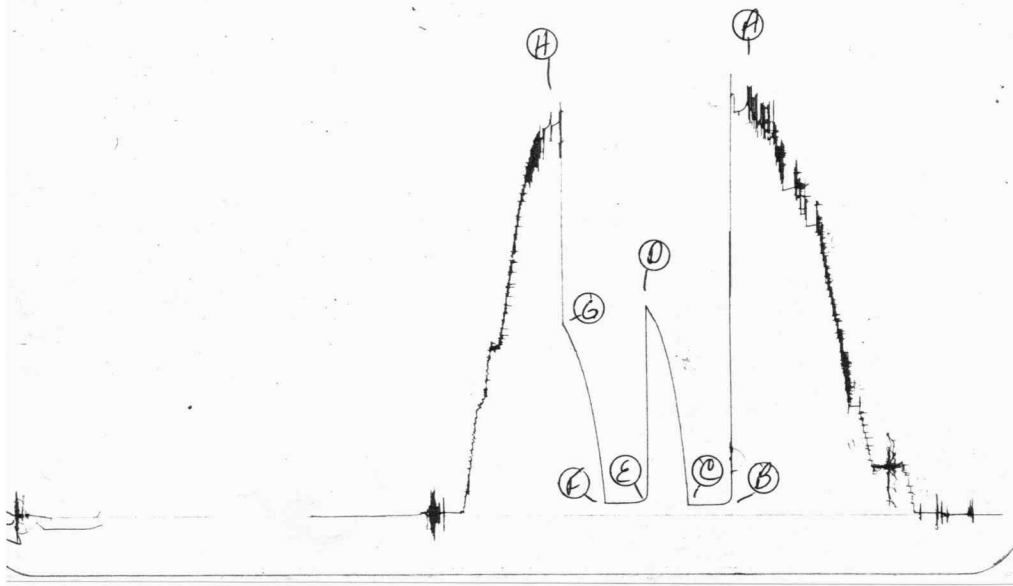
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2181 P.S.I.	11:50 P _M	
B First Initial Flow Pressure	87 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	59 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1136 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	89 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	72 P.S.I.		
G Final Closed-in Pressure	1040 P.S.I.		
H Final Hydrostatic Mud	2135 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	0	87	0	59	0	89	0	72
P 2	5	67	3	296	5	77	3	284
P 3	10	61	6	460	10	74	6	430
P 4	15	61	9	619	15	74	9	550
P 5	20	60	12	742	20	73	12	661
P 6	25	60	15	834	25	73	15	752
P 7	30	59	18	921	30	72	18	816
P 8			21	992			21	873
P 9			24	1046			24	929
P10			27	1086			27	977
P11			30	1136			30	1040
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

SKT #5424

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7238

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation Formation MISSISSIPPI Eff. Pay Ft.

District GREAT BEND Date 9/10/80 Customer Order No.
COMPANY NAME PATTON Oil Company
ADDRESS 5660 S. Syracuse Circle, Englewood, Colo.
LEASE AND WELL NO. #2 FARK COUNTY Kiowa STATE KS Sec. 1 Twp 28S Rge 18W
Mail Invoice To same as above No. Copies Requested 5
Co. Name Address
Mail Charts To same as above No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 4744 ft. to 4780 ft. Total Depth 4780 ft.
Packer Depth 4739 ft. Size 6 3/4 in. Packer Depth 4744 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4769 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 4771 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Big Springs Rig #1 Drill Collar Length I. D. in.
Mud Type Premix Viscosity 46 Weight Pipe Length I. D. in.
Weight 9.5 Water Loss 16.8 cc. Drill Pipe Length 4723 I. D. 3.8 in.
Chlorides 32,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Anchor Length 36 ft. Size 5 1/2 in.
Jars: Make Serial Number Anchor Length 36 ft. Size 5 1/2 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 in.

Blow: 1st - STRONG BLOW THROUGHOUT OFF BOF OF BUCKET IMMEDIATELY.
Initial flow period GAS TO SURFACE IN 5 min. Reattached shut for gas measurement
Recovered 70' ft. of BCM oil cut mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: STARTED IN HOLE - AFTER 7 STANDS IN WE HIT A LOOSE SURFACE PIPE CAME BACK
OUT OF HOLE WENT BACK IN WITH COLLARS HIT PIPE 8 STANDS IN CAME BACK OUT
THEN RAN 8" REAMER IN HOLE CAME BACK OUT THEN WENT BACK IN WITH TOOL

Time On Location 4:00 A.M. Time Pick Up Tool A.M. Time Off Location A.M.
P.M. P.M. P.M.
Time Set Packer(s) 10:45 A.M. Time Started Off Bottom 1:15 A.M. Maximum Temperature 121°
P.M. P.M.
Initial Hydrostatic Pressure (A) 2532 P.S.I.
Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period Minutes 30 (D) 1309 P.S.I.
Final Flow Period Minutes 60 (E) 46 P.S.I. to (F) 58 P.S.I.
Final Closed In Period Minutes 30 (G) 1390 P.S.I.
Final Hydrostatic Pressure (H) 2439 P.S.I.

COMPANY TERMS

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of the one for whom a test is made or for any loss suffered or sustained directly or indirectly
through the use of its equipment, of its statements or opinion concerning the results of any test.
Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred
for collection will be added to the original amount.

Test Approved By Bernard E Lounsbury
Signature of Customer or his authorized representative

Western Representative Daniel O Clapham Thank you

FIELD INVOICE

Open Hole Test \$ 600.00
Miscrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby 4 \$ 72.00
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 35 \$ 26.25
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$ 698.25



GAS FLOW REPORT

Nº 1613

Date 9/10/80 Ticket 7238 Company Patton Oil Company
Well Name and No. FARK #2 Dst No. 2 Interval Tested 4740-4780
County KIOWA State KS Sec. 1 Twp. 28S Rg. 11W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW
TOOL OPEN AT 10:45 A.M. 30-30-60-30

SECOND FLOW
2ND OPENING 11:45 A.M. GAS TO SURFACE AT 11:50 A.M. Cubic Foot Per Day

<u>10 MIN</u>	<u>6" #20</u>	<u>3/4" surface</u>	<u>---</u>	<u>---</u>	<u>34,700 C.F.P.D</u>
<u>20 MIN</u>	<u>8" #20</u>	<u>3/4"</u>	<u>---</u>	<u>---</u>	<u>40,000</u>
<u>30 MIN</u>	<u>11" #20</u>	<u>"</u>	<u>---</u>	<u>---</u>	<u>58,500</u>
<u>40 MIN</u>	<u>16" #20</u>	<u>"</u>	<u>---</u>	<u>---</u>	<u>56,800</u>
<u>50 MIN</u>	<u>16" #20</u>	<u>"</u>	<u>---</u>	<u>---</u>	<u>56,800</u>
<u>60 MIN</u>	<u>16" #20</u>	<u>"</u>	<u>---</u>	<u>---</u>	<u>56,800</u>

Did not want Bottle **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.

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COMPANY'S NAME Patton Oil Company
Authorized by Bernard E. Leunskerry

WESTERN TESTING CO., INC.
Pressure Data

Date 9-10-80 Test Ticket No. 7238
 Recorder No. 10266 Capacity 4650 Location 4769 Ft.
 Clock No. _____ Elevation _____ Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2538</u>	P.S.I.	<u>10:45 A M</u>	
B First Initial Flow Pressure	<u>63</u>	P.S.I.	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1326</u>	P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>70</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>62</u>	P.S.I.		
G Final Closed-in Pressure	<u>1402</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2423</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>4</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>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	<u>63</u>	0	<u>56</u>	0	<u>70</u>	0	<u>62</u>
P 2	5	<u>56</u>	3	<u>101</u>	5	<u>61</u>	3	<u>376</u>
P 3	10	<u>56</u>	6	<u>221</u>	10	<u>59</u>	6	<u>935</u>
P 4	15	<u>56</u>	9	<u>439</u>	15	<u>59</u>	9	<u>1123</u>
P 5	20	<u>56</u>	12	<u>645</u>	20	<u>59</u>	12	<u>1221</u>
P 6	25	<u>56</u>	15	<u>829</u>	25	<u>59</u>	15	<u>1298</u>
P 7	30	<u>56</u>	18	<u>981</u>	30	<u>61</u>	18	<u>1335</u>
P 8	35	<u>56</u>	21	<u>1115</u>	35	<u>61</u>	21	<u>1365</u>
P 9	40	<u>56</u>	24	<u>1205</u>	40	<u>61</u>	24	<u>1391</u>
P10	45	<u>56</u>	27	<u>1274</u>	45	<u>62</u>	27	<u>1402</u>
P11	50	<u>56</u>	30	<u>1326</u>	50	<u>62</u>	30	
P12	55	<u>56</u>	33		55	<u>62</u>	33	
P13	60	<u>56</u>	36		60		36	
P14			39		65		39	
P15			42		70		42	
P16			45		75		45	
P17			48		80		48	
P18			51		85		51	
P19			54		90		54	
P20			57				57	
			60				60	

Company Patton Oil Company Lease & Well No. #2 Fark

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 7238

Date 9-10-80 Sec. 1 Twp. 28S Range 18W County Kiowa State Kansas

Test Approved by Bernard E Lounsbury Western Representative Darrel O. Claphan

Formation Test No. 2 Interval Tested from 4744 ft. to 4780 ft. Total Depth 4780 ft.

Packer Depth 4739 ft. Size 6 3/4 in. Packer Depth 4744 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4769 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4771 ft. Recorder Number 6233 Cap. 4000

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

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

Mud Type Premix Drispac viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 16.8 cc. Drill Pipe Length 4723 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make - Serial Number - Anchor Length 36 ft. Size 5 1/2 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 in.

Blow: Initial flow period strong blow throughout. Off bottom of bucket immediately. Final flow period gas to surface in 5 minutes. See attached sheet for gas measurements.

Recovered 70 ft. of oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Started in hole. After 7 stands in we hit a loose surface pipe came back out of hole went back in with collars. Hit pipe 8 stands in, came back out then ran 8" reamer in hole. Came back out then went back in with tool

Time Set Packer(s) 10:45 A.M. Time Started Off Bottom 1:15 P.M. Maximum Temperature 121

Initial Hydrostatic Pressure 2538 (A) P.S.I.

Initial Flow Period 20 (B) Minutes 63 (C) P.S.I. to 56 (D) P.S.I.

Initial Closed In Period 30 (D) Minutes 1326 (E) P.S.I.

Final Flow Period 55 (E) Minutes 70 (F) P.S.I. to 62 (G) P.S.I.

Final Closed In Period 27 (G) Minutes 1402 (H) P.S.I.

Final Hydrostatic Pressure 2423 (H) P.S.I.

GAS FLOW REPORT

Date 9-10-80 Ticket 7238 Company Patton Oil Company
 Well Name and No. Fark #2 Dst No. 2 Interval Tested 4744-4780
 County Kiowa State Kansas Sec. 1 Twp. 28S Rg. 11W

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						
		TOOL OPEN AT 10:45 A.M.				30-30-60-30

SECOND FLOW						
		2ND OPENING 11:45 A.M.		GAS TO SURFACE AT 11:50 A.M.		
10 Min	6" Water	3/4" Orifice				34,7000 C.F.P.D.
20 Min	8" Water	3/4" Orifice				40,000 C.F.P.D.
30 Min	17" Water	3/4" Orifice				58,500 C.F.P.D.
40 Min	16" Water	3/4" Orifice				56,800 C.F.P.D.
50 Min	16" Water	3/4" Orifice				56,800 C.F.P.D.
60 Min	16" Water	3/4" Orifice				56,800 C.F.P.D.

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.

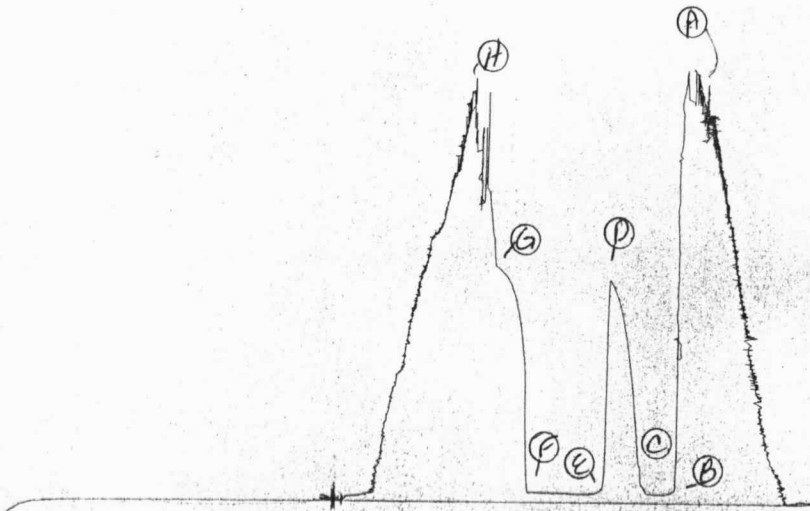
All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Patton Oil Company
 Authorized by Bernard E Lounsbury

10266

JKT # 7238

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7239

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation Formation MISSISSIPPI Eff. Pay Ft.

District GREAT BEND Date 9/11/80 Customer Order No.

COMPANY NAME PATTON Oil Company

ADDRESS 5660 S. Syracuse Circle Englewood Colo 80110

LEASE AND WELL NO. #2 FARM COUNTY Kiowa STATE KS Sec. 1 Twp 28S Rge 18W

Mail Invoice To Co. Name Same as above Address Address No. Copies Requested 5

Mail Charts To Co. Name Same as above Address Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4780 ft. to 4795 ft. Total Depth 4795 ft.

Packer Depth 4775 ft. Size 6 3/4 in. Packer Depth 4780 ft. Size 6 3/4 in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4788 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4791 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

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

Mud Type Cement Duds Pak Viscosity 46.7 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 16.8 cc. Drill Pipe Length 4759 I. D. 3.8 in.

Chlorides 32,000 P.P.M. Test Tool Length 21' ft. Tool Size 4 1/2 in.

Jars: Make Serial Number Anchor Length 15' ft. Size 5 1/2 in.

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

initial flow period Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 in.

Blow: 1st - WEAK BLOW BUILDING TO STRONG BLOW 1/2" TO 15" IN 9 minutes

2nd - STRONG BLOW THROUGHOUT

Recovered 120' ft. of G. I. P. Gas in pipe

Recovered 40' ft. of BCM Gas Cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: SLFD TOOL APPROX 4'

Time On Location 7:20 A.M. Time Pick Up Tool P.M. Time Off Location A.M.

Time Set Packer(s) 2:00 A.M. Time Started Off Bottom 4:00 A.M. Maximum Temperature 126 degrees

Initial Hydrostatic Pressure (A) 2568 P.S.I.

Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 46 P.S.I.

Initial Closed In Period Minutes 30 (D) 878 P.S.I.

Final Flow Period Minutes 30 (E) 58 P.S.I. to (F) 58 P.S.I.

Final Closed In Period Minutes 30 (G) 1100 P.S.I.

Final Hydrostatic Pressure (H) 2450 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bernard E. Lounsbury Signature of Customer or his authorized representative

Western Representative Daniel Clapham Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$600.00), Mileage 35 (\$26.35), and TOTAL (\$626.35).

WESTERN TESTING CO., INC.
Pressure Data

Date 9-11-80 Test Ticket No. 7239
 Recorder No. 10266 Capacity 4650 Location 4988 Ft.
 Clock No. _____ Elevation _____ Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2582</u>	P.S.I.	<u>2:00 A M</u>	
B. First Initial Flow Pressure	<u>70</u>	P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C. First Final Flow Pressure	<u>62</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D. Initial Closed-in Pressure	<u>906</u>	P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
E. Second Initial Flow Pressure	<u>75</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>54</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1128</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>2460</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>5</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>0</u>	<u>62</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>54</u>
P 2	<u>5</u>	<u>3</u>	<u>80</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>195</u>
P 3	<u>10</u>	<u>6</u>	<u>122</u>	<u>10</u>	<u>66</u>	<u>6</u>	<u>333</u>
P 4	<u>15</u>	<u>9</u>	<u>167</u>	<u>15</u>	<u>62</u>	<u>9</u>	<u>458</u>
P 5	<u>20</u>	<u>12</u>	<u>246</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>584</u>
P 6	<u>25</u>	<u>15</u>	<u>387</u>	<u>25</u>	<u>54</u>	<u>15</u>	<u>682</u>
P 7	<u>30</u>	<u>18</u>	<u>540</u>	<u>30</u>		<u>18</u>	<u>792</u>
P 8	<u>35</u>	<u>21</u>	<u>743</u>	<u>35</u>		<u>21</u>	<u>909</u>
P 9	<u>40</u>	<u>24</u>	<u>861</u>	<u>40</u>		<u>24</u>	<u>993</u>
P10	<u>45</u>	<u>27</u>	<u>906</u>	<u>45</u>		<u>27</u>	<u>1065</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>		<u>30</u>	<u>1128</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company Patton Oil Company Lease & Well No. #2 Fark
 Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 7239
 Date 9-11-80 Sec. 1 Twp. 28 S Range 18 W County Kiowa State Kansas
 Test Approved by Bernard E. Lounsbury Western Representative Darrel Claphan

Formation Test No. 3 Interval Tested from 4780 ft. to 4795 ft. Total Depth 4795 ft.
 Packer Depth 4775 ft. Size 6 3/4 in. Packer Depth 4780 ft. Size 6 3/4 in.
 Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----
 Top Recorder Depth (Inside) 4788 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4791 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----

Drilling Contractor Big Spring Rig #1 Drill Collar Length ----- I. D. ----- in.
 Mud Type Premix Dris Pak Viscosity 46 Weight Pipe Length ----- I. D. ----- in.
 Weight 9.5 Water Loss 16.8 cc. Drill Pipe Length 4759 I. D. 3.8 in.
 Chlorides 32,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make ----- Serial Number ----- Anchor Length 15 ft. Size 5 1/2 in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size ----- in. Tool Joint Size ----- in.

Blow: Initial flow period, weak blow building to strong blow. 1/2" to 15" in 9 Minutes. Final flow period, strong blow throughout.

Recovered 120 ft. of Gas in pipe
 Recovered 40 ft. of Gas cut mud
 Recovered ----- ft. of -----
 Recovered ----- ft. of -----
 Recovered ----- ft. of -----

Remarks: Slid tool approximately 4'

Time Set Packer(s) 2:00 ^{A.M.}/_{P.M.} Time Started Off Bottom 4:00 ^{A.M.}/_{P.M.} Maximum Temperature 126
 Initial Hydrostatic Pressure (A) 2582 P.S.I.
 Initial Flow Period Minutes. 25 (B) 70 P.S.I. to (C) 62 P.S.I.
 Initial Closed In Period Minutes. 27 (D) 906 P.S.I.
 Final Flow Period Minutes. 25 (E) 75 P.S.I. to (F) 54 P.S.I.
 Final Closed In Period Minutes. 30 (G) 1128 P.S.I.
 Final Hydrostatic Pressure (H) 2460 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-11-80 Test Ticket No. 7239
 Recorder No. 10266 Capacity 4650 Location 4788 Ft.
 Clock No. _____ Elevation _____ Well Temperature 126 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2582	P.S.I.	Open Tool	2:00 A M	
B First Initial Flow Pressure	70	P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	62	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	906	P.S.I.	Second Flow Pressure	30 Mins.	25 Mins.
E Second Initial Flow Pressure	75	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	54	P.S.I.			
G Final Closed-in Pressure	1128	P.S.I.			
H Final Hydrostatic Mud	2460	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>5</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	0	0	62	0	75	0	54
P 2	5	3	80	5	72	3	195
P 3	10	6	122	10	66	6	333
P 4	15	9	167	15	62	9	458
P 5	20	12	246	20	58	12	584
P 6	25	15	387	25	54	15	682
P 7		18	540			18	792
P 8		21	743			21	909
P 9		24	861			24	993
P10		27	906			27	1065
P11						30	1128
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

1.2.16

SKT # 7239
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