



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 6126

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

Elevation 2079 ^{elly} ~~Pushing~~ Formation Mississippi Eff. Pay _____ Ft.

District Pratt Date 6-26-80 Customer Order No. _____

COMPANY NAME Patton Oil Company

ADDRESS Greenwood Plaza N., 5660 S. Wyandale Circle, Suite 200 Englewood Colo 80110

LEASE AND WELL NO. Michael #3 COUNTY Edwards STATE KANSAS Sec. 29 Twp 26S Rge 16W

Mail Invoice To Same Michael #3 No. Copies Requested Reg

Co. Name _____ Address _____ No. Copies Requested Reg

Mail Charts To Same Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4422 ft. to 4435 ft. Total Depth 4435 ft.

Packer Depth 4417 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4422 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4424 ft. Recorder Number 4332* Cap. 4200

Bottom Recorder Depth (Outside) 4427 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor Big Springs Rig #2 Drill Collar Length _____ I. D. _____ in.

Mud Type Drispac Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 4402 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 520D in.

Jars: Make NO Serial Number _____ Anchor Length 13 ft. Size 5120D 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: Strong blow - gas to surface 15 minutes throughout test See attached sheet for gas measurements

Recovered 30 ft. of gas cut drilling mud

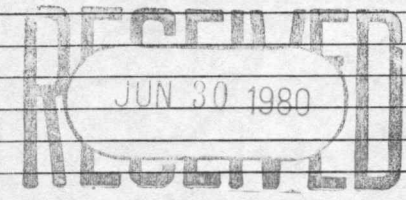
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Read Recorder # 4332*



Time Set Packer(s) 11:50 AM Time Started Off Bottom 3:50 Maximum Temperature 124 °F

Initial Hydrostatic Pressure (A) 2389 P.S.I.

Initial Flow Period (B) 30-25 Minutes 75-71 P.S.I. to (C) 54-58 P.S.I.

Initial Closed In Period (D) 30-33 Minutes 1146 P.S.I. 1147

Final Flow Period (E) 30-30 Minutes 75-78 P.S.I. to (F) 64-69 P.S.I.

Final Closed In Period (G) 30-33 Minutes 1082 P.S.I. 1049

Final Hydrostatic Pressure (H) 2344 P.S.I. 2368

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 Robert Chmura Signature of Customer or his authorized representative

Western Representative Rod Smit Thank You

FIELD INVOICE

- Open Hole Test \$ 600.00
- Misrun \$ _____
- Straddle Test \$ _____
- Jars \$ _____
- Selective Zone \$ _____
- Safety Joint \$ _____
- Standby \$ _____
- Evaluation \$ _____
- Extra Packer \$ _____
- Circ. Sub. \$ _____
- Mileage 154.30 mi \$ 22.50
- Fluid Sampler \$ _____
- Extra Charts \$ _____

TOTAL \$ 622.50



GAS FLOW REPORT

No 2051

Date 6-26 Ticket 6126 Company Patten Oil Company
 Well Name and No. Michael #3 Dst No. 1 Interval Tested 4422-4435
 County Edwards State Kansas Sec. 9 Twp 26S Rg. 16W

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					
1:50 AM		3/4			Tool open gas to surface
15 min		3/4			OK → 77,800 C.F.P.D.
20 "	30 inches	✓			
30 "	30 inches	✓			OK → 80,300
	32 "				

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					
2:30 PM		3/4			Tool open
10	12 lbs	3/4			OK 288,000 C.F.P.D.
20	13 lbs	✓			OK 303,000
30	13 lbs	✓			OK 303,000

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 Patten Oil Company

Authorized by Robert C. Armstrong

(Initials)

WESTERN TESTING CO., INC.
Pressure Data

Date 6-26 Test Ticket No. 6126
 Recorder No. 4332 Capacity 4200 Location 4424 Ft.
 Clock No. — Elevation 2079 KB Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2389</u>	P.S.I.	<u>1:50 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u>	Mins. <u>25</u> Mins.
C First Final Flow Pressure	<u>58</u>	P.S.I.	<u>30</u>	Mins. <u>33</u> Mins.
D Initial Closed-in Pressure	<u>1147</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>78</u>	P.S.I.	<u>30</u>	Mins. <u>33</u> Mins.
F Second Final Flow Pressure	<u>69</u>	P.S.I.		
G Final Closed-in Pressure	<u>1049</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2368</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>11</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>71</u>	0	<u>58</u>	0	<u>78</u>	0	<u>69</u>
P 2	<u>65</u>	3	<u>549</u>	5	<u>72</u>	3	<u>436</u>
P 3	<u>59</u>	6	<u>796</u>	10	<u>69</u>	6	<u>685</u>
P 4	<u>58</u>	9	<u>926</u>	15		9	<u>809</u>
P 5	<u>58</u>	12	<u>985</u>	20		12	<u>882</u>
P 6	<u>58</u>	15	<u>1034</u>	25		15	<u>927</u>
P 7		18	<u>1072</u>	30	<u>69</u>	18	<u>965</u>
P 8		21	<u>1096</u>	35		21	<u>992</u>
P 9		24	<u>1117</u>	40		24	<u>1013</u>
P10		27	<u>1128</u>	45		27	<u>1030</u>
P11		30	<u>1138</u>	50		30	<u>1040</u>
P12		33	<u>1147</u>	55		33	<u>1049</u>
P13		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. Michael #3
 Elevation 2079 Kelly Bushing Mississippi Formation Effective Pay ----- Ft. Ticket No. 6126
 Date 6/26/80 Sec. 9 Twp. 26S Range 16W County Edwards State Kansas
 Test Approved by Robert C. Armstrong Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4422 ft. to 4435 ft. Total Depth 4435 ft.
 Packer Depth 4417 ft. Size 6 3/4 Packer Depth - ft. Size - in.
 Packer Depth 4422 ft. Size 6 3/4 Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4424 ft. Recorder Number 4332* Cap. 4200
 Bottom Recorder Depth (Outside) 4427 ft. Recorder Number 2606 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Big Springs Drilling Rig #2 Drill Collar Length - I. D. - in.
 Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 4402 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 13 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 in.

Blow: Strong blow throughout test. Gas to surface fifteen minutes. See attached sheet for gas measurements.

Recovered 30 ft. of gas cut drilling mud
 Recovered - ft. of -
 Recovered - ft. of - *READ RECORDER #4332
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 1:50 A.M. P.M. Time Started Off Bottom 3:50 A.M. P.M. Maximum Temperature 124°
 Initial Hydrostatic Pressure (A) 2389 P.S.I.
 Initial Flow Period Minutes 25 (B) 71 P.S.I. to (C) 58 P.S.I.
 Initial Closed In Period Minutes 33 (D) 1147 P.S.I.
 Final Flow Period Minutes 30 (E) 78 P.S.I. to (F) 69 P.S.I.
 Final Closed In Period Minutes 33 (G) 1049 P.S.I.
 Final Hydrostatic Pressure (H) 2368 P.S.I.

GAS FLOW REPORT

Date 6/26/80 Ticket 6126 Company Patton Oil Company
 Well Name and No. Michael #3 Dst No. 1 Interval Tested 4422'-4435'
 County Edwards State Kansas Sec. 9 Twp. 26S Rg. 16W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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
1:50AM		Tool open		PRE FLOW		
	15 min.					Gas to surface
	20 min.	30" of water		3/4" orifice		77,800 CFPD
	30 min.	32" of water		3/4" orifice		80,300 CFPD
2:50PM		Tool open		SECOND FLOW		
	10 min.	12 lbs.		3/4" orifice		288,000 CFPD
	20 min.	13 lbs.		3/4" orifice		303,000 CFPD
	30 min.	13 lbs.		3/4" orifice		303,000 CFPD

GAS BOTTLE

Serial No. --0-- Date Bottle Filled --0-- Date to be Invoiced 6/26/80

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
Robert C. Armstrong
 Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 6-26-80 Test Ticket No. 6126
 Recorder No. 4332 Capacity 4200 Location 4424 Ft.
 Clock No. - Elevation 2079 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2389</u>	P.S.I.	<u>1:50P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>58</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1147</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>78</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>69</u>	P.S.I.		
G Final Closed-in Pressure	<u>1049</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2368</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 5 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: 6 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>71</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>69</u>
P 2 <u>5</u>	<u>65</u>	<u>3</u>	<u>549</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>436</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>796</u>	<u>10</u>	<u>69</u>	<u>6</u>	<u>685</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>926</u>	<u>15</u>	<u>69</u>	<u>9</u>	<u>809</u>
P 5 <u>20</u>	<u>58</u>	<u>12</u>	<u>985</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>882</u>
P 6 <u>25</u>	<u>58</u>	<u>15</u>	<u>1036</u>	<u>25</u>	<u>69</u>	<u>15</u>	<u>927</u>
P 7 _____		<u>18</u>	<u>1072</u>	<u>30</u>	<u>69</u>	<u>18</u>	<u>965</u>
P 8 _____		<u>21</u>	<u>1096</u>			<u>21</u>	<u>992</u>
P 9 _____		<u>24</u>	<u>1117</u>			<u>24</u>	<u>1013</u>
P10 _____		<u>27</u>	<u>1128</u>			<u>27</u>	<u>1030</u>
P11 _____		<u>30</u>	<u>1138</u>			<u>30</u>	<u>1040</u>
P12 _____		<u>33</u>	<u>1147</u>			<u>33</u>	<u>1049</u>
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

4332 Dst #1

TKT#6126
I.

