



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 3489

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

Elevation 1640 G.L. Formation Miss Eff. Pay Ft.

District Pratt Date 1-15-80 Customer Order No.

COMPANY NAME Patton Oil Company
ADDRESS Route 200-5660 & Lyngrove Circle, Englewood Colo. 80110

LEASE AND WELL NO. Younger #2 COUNTY Barber STATE Ko Sec. 22 Twp 32S Rge 13W

Mail Invoice To SAME Co. Name SAME Address No. Copies Requested reg

Mail Charts To SAME Address No. Copies Requested reg

Formation Test No. Interval Tested from 4470 ft. to 4520 ft. Total Depth 4520 ft.
Packer Depth 4465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4470 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4485 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4488 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Big Springs Rig #1
Mud Type starch Viscosity 42
Weight 10.0 Water Loss 11.2 cc.
Chlorides 46,000 P.P.M.
Jars: Make WTC Serial Number 407
Did Well Flow? NO Reversed Out NO
Drill Collar Length - I. D. - in.
Weight Pipe Length 185 I. D. - in.
Drill Pipe Length 4255 I. D. 3.8 in.
Test Tool Length 30 ft. Tool Size 5 1/2 O.D. in.
Anchor Length 8 50 ft. Size 5 1/2 O.D. in.
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 F.H. in.

Blow: Weak blow throughout ~~not~~ decreasing to very weak. Very weak on second flow dying in 13 min.

Recovered 90 ft. of Drilling Mud (slightly oil speckled?)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 11:40 A.M. Time Started Off Bottom 1:55 P.M. Maximum Temperature 120°
Initial Hydrostatic Pressure (A) 2387 P.S.I.
Initial Flow Period Minutes 45 (B) 52 P.S.I. to (C) 52 P.S.I.
Initial Closed In Period Minutes 30 (D) 73 P.S.I.
Final Flow Period Minutes 30 (E) 52 P.S.I. to (F) 52 P.S.I.
Final Closed In Period Minutes 30 (G) 84 P.S.I.
Final Hydrostatic Pressure (H) 2292 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 W. Lounshury
Signature of Customer or his authorized representative

Western Representative Mike Titt - Thank you!

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$ 275.00
Selective Zone \$
Safety Joint \$ 35.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 860.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-15-80 Recorder No. 3354 Capacity 4200 Location 4485 Ft.
 Clock No. _____ Elevation 16406 ft. Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2377</u> P.S.I.	Open Tool	<u>11:40</u> A	M
B First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>57</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>82</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>63</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.			
G Final Closed-in Pressure	<u>90</u> P.S.I.			
H Final Hydrostatic Mud	<u>2303</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</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>53</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>63</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>57</u>	<u>5</u>		<u>3</u>	<u>63</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>60</u>	<u>10</u>		<u>6</u>	<u>66</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>65</u>	<u>15</u>		<u>9</u>	<u>69</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>68</u>	<u>20</u>		<u>12</u>	<u>74</u>
P 6 <u>25</u>	<u>57</u>	<u>15</u>	<u>70</u>	<u>25</u>		<u>15</u>	<u>77</u>
P 7 <u>30</u>		<u>18</u>	<u>73</u>	<u>30</u>	<u>63</u>	<u>18</u>	<u>80</u>
P 8 <u>35</u>		<u>21</u>	<u>75</u>	<u>35</u>		<u>21</u>	<u>84</u>
P 9 <u>40</u>		<u>24</u>	<u>78</u>	<u>40</u>		<u>24</u>	<u>87</u>
P10 <u>45</u>	<u>57</u>	<u>27</u>	<u>80</u>	<u>45</u>		<u>27</u>	<u>88</u>
P11 <u>50</u>		<u>30</u>	<u>82</u>	<u>50</u>		<u>30</u>	<u>90</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. Younger #2
Elevation 1640 Ground Level Mississippi Effective Pay --- Ft. Ticket No. 3489
Date 1/15/80 Sec. 22 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Bernard W. Lounsbury Western Representative Mike Tritt

Formation Test No. 1 Interval Tested from 4470 ft. to 4520 ft. Total Depth 4520 ft.

Packer Depth 4465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4470 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4485 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 4488 ft. Recorder Number 2605 Cap. 4150

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 42 Weight Pipe Length 185 I. D. - in.

Weight 10.0 Water Loss 11.2 cc. Drill Pipe Length 4255 I. D. 3.8 in.

Chlorides 46,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 407 Anchor Length 50 ft. Size 5 1/2 OD

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: Weak blow throughout first flow decreasing to very weak. Very weak on second flow dying in thirteen minutes.

Recovered 90 ft. of drilling mud (slightly oil specked)

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:55 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2377 P.S.I.

Initial Flow Period Minutes 45 (B) 53 P.S.I. to (C) 57 P.S.I.

Initial Closed In Period Minutes 30 (D) 82 P.S.I.

Final Flow Period Minutes 30 (E) 63 P.S.I. to (F) 63 P.S.I.

Final Closed In Period Minutes 30 (G) 90 P.S.I.

Final Hydrostatic Pressure (H) 2303 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/15/80

Test Ticket No. 3489

Recorder No. 3354 Capacity 4200 Location 4485 Ft.

Clock No. -- Elevation 1640 Ground Level Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2377</u> P.S.I.	Open Tool	<u>11:40A</u> M	
B First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>57</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>82</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>63</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.			
G Final Closed-in Pressure	<u>90</u> P.S.I.			
H Final Hydrostatic Mud	<u>2303</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 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.

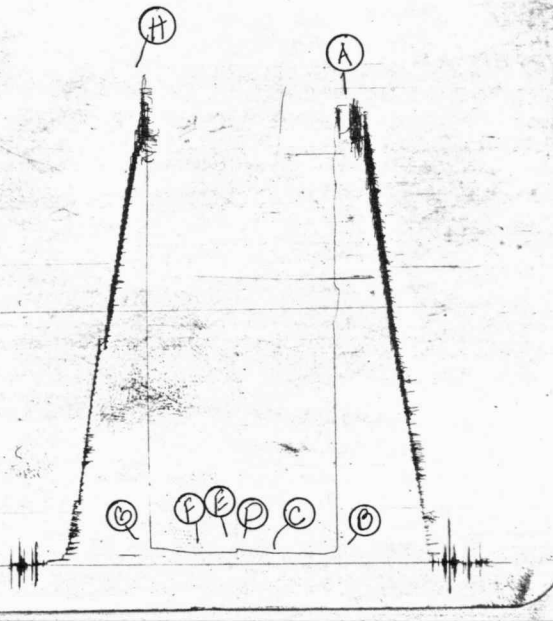
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

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>53</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>63</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>57</u>	<u>5</u>	<u>63</u>	<u>3</u>	<u>63</u>
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>60</u>	<u>10</u>	<u>63</u>	<u>6</u>	<u>66</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>65</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>69</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>68</u>	<u>20</u>	<u>63</u>	<u>12</u>	<u>74</u>
P 6 <u>25</u>	<u>57</u>	<u>15</u>	<u>70</u>	<u>25</u>	<u>63</u>	<u>15</u>	<u>77</u>
P 7 <u>30</u>	<u>57</u>	<u>18</u>	<u>73</u>	<u>30</u>	<u>63</u>	<u>18</u>	<u>80</u>
P 8 <u>35</u>	<u>57</u>	<u>21</u>	<u>75</u>			<u>21</u>	<u>84</u>
P 9 <u>40</u>	<u>57</u>	<u>24</u>	<u>78</u>			<u>24</u>	<u>87</u>
P10 <u>45</u>	<u>57</u>	<u>27</u>	<u>80</u>			<u>27</u>	<u>88</u>
P11		<u>30</u>	<u>82</u>			<u>30</u>	<u>90</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

3354 DST #1

TKL #3489
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5489

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

Elevation 1654 K.B. Formation MISS Eff. Pay — Ft.

District GREAT BEND Date 1-30-80 Customer Order No. —

COMPANY NAME Patton Oil Co - Greenwood Plaza N. 5660 South Syracuse
ADDRESS 5660 S. Syracuse - Suite 200 - Englewood Colo. 80110

LEASE AND WELL NO. #2 Younger COUNTY Barber STATE KS Sec. 22 Twp 32 Rge 13W

Mail Invoice To (DISTRIBUTOR) Co. Name same Address same No. Copies Requested 5

Mail Charts To (DISTRIBUTOR) Co. Name same Address same No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4400 ft. to 4410 ft. Total Depth 4410 ft.

Packer Depth 4395 ft. Size 6 3/4 in. Packer Depth 4400 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) 4403 ft.

Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4406 ft.

Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth — ft.

Recorder Number — Cap. —

Drilling Contractor BIG SPRINGS

Drill Collar Length — I. D. — in.

Mud Type Starch Viscosity 45

Weight Pipe Length 183 I. D. 3.4 in.

Weight 9.5 Water Loss 10.8 cc.

Drill Pipe Length 4193 I. D. 3.8 in.

Chlorides 42,000 P.P.M.

Test Tool Length 24 ft. Tool Size 4 3/4 in.

Jars: Make — Serial Number —

Anchor Length 10 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 FH in.

Blow: Weak BLOW SLOWLY INCREASING TO STRONG BLOW FIRST OPENING
(14 INCH BLOW) (same SECOND OPENING)

Recovered 75 ft. of GAS CUT MUD w/ FEW OIL SPOTS = .55 BALS.

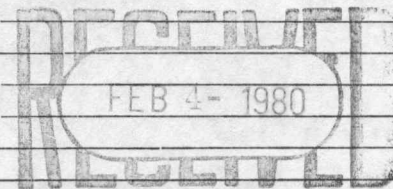
Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: TOOL SLID 5 FT TO BOTTOM



Time Set Packer(s) 1:41 P.M. Time Started Off Bottom 5:13 P.M. Maximum Temperature 123°F

Initial Hydrostatic Pressure 2326 P.S.I.

Initial Flow Period 30 Minutes (B) 71 P.S.I. to (C) 71 P.S.I.

Initial Closed In Period 45 Minutes (D) 133 P.S.I.

Final Flow Period 90 Minutes (E) 71 P.S.I. to (F) 71 P.S.I.

Final Closed In Period 45 Minutes (G) 215 P.S.I.

Final Hydrostatic Pressure 2316 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 Rudd L. Becker
Signature of Customer or his authorized representative

Western Representative Roger Lisenby

FIELD INVOICE

Open Hole Test ✓ \$ 550.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint ✓ \$ 35.00
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
TOTAL \$ 585.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-30-80 Test Ticket No. 5489
 Recorder No. 769 Capacity 4200 Location 4403 Ft.
 Clock No. _____ Elevation 1654 KB. Well Temperature 123 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mud 2331 P.S.I. Open Tool 1:41 P M
 B First Initial Flow Pressure 102 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 62 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 102/133 P.S.I. Second Flow Pressure 90 Mins. 80 Mins.
 E Second Initial Flow Pressure 96 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 F Second Final Flow Pressure 63 P.S.I.
 G Final Closed-in Pressure 221 P.S.I.
 H Final Hydrostatic Mud 2306 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>15</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	102	0	62	0	96	0	63
P 2 5	74	3	67	5	76	3	67
P 3 10	65	6	70	10	67	6	78
P 4 15	63	9	72	15	65	9	86
P 5 20	62	12	74	20	63	12	96
P 6 25	62	15	78	25		15	111
P 7 30	62	18	82	30		18	123
P 8 35		21	87	35		21	135
P 9 40		24	93	40		24	149
P 10 45		27	97	45		27	160
P 11 50		30	102	50		30	172
P 12 55		33	109	55		33	180
P 13 60		36	115	60		36	193
P 14		39	121	65		39	205
P 15		42	127	70		42	213
P 16		45 <u>45</u>	129 133	75		45	221
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90	63	54	
P 20		57				57	
		60				60	

Company Patton Oil Co. Lease & Well No. Younger #2
Elevation 1653 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 5489
Date 1-30-80 Sec. 22 Twp. 32S Range 13W County Barber State Kansas
Test Approved by Gerald B. Becker Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 4400 ft. to 4410 ft. Total Depth 4410 ft.

Packer Depth 4395 ft. Size 6 3/4 in. Packer Depth 4400 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) 4403 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4406 ft. Recorder Number 1061 Cap. 4250

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

Drilling Contractor Big Springs Drlg. Drill Collar Length - I. D. - in.

Mud Type Starch Viscosity 45 Weight Pipe Length 183 I. D. 3.4 in.

Weight 9.7 Water Loss 10.8 cc. Drill Pipe Length 4193 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 24 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out - 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 blow slowly increasing to a strong blow on initial flow period (14" blow).

Weak blow slowly increasing to a strong blow on final flow period (14" blow).

Recovered 75 ft. of gas cut mud with few oil spots = .55 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Tool slid 5' to bottom.

Time Set Packer(s) 1:41 ~~==A.M.~~ P.M. Time Started Off Bottom 5:13 ~~==A.M.~~ P.M. Maximum Temperature 123

Initial Hydrostatic Pressure (A) 2331 P.S.I.

Initial Flow Period Minutes 30 (B) 102 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period Minutes 45 (D) 133 P.S.I.

Final Flow Period Minutes 90 (E) 96 P.S.I. to (F) 63 P.S.I.

Final Closed In Period Minutes 45 (G) 221 P.S.I.

Final Hydrostatic Pressure (H) 2306 P.S.I.

Pressure Data

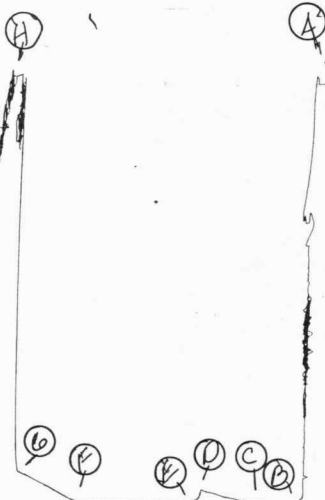
Well Temperature 123 °F

Time Given	Time Computed
1:41P.	M
30	30
Mins.	Mins.
45	45
Mins.	Mins.
90	90
Mins.	Mins.
45	45
Mins.	Mins.

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

WTC - 4

TK# 5489
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 5490

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation 1654 KB Formation MISS Eff. Pay — Ft.

District Great Bend Date 1-31-80 Customer Order No. —

COMPANY NAME Patton oil co - Greenwood Plaza - N. 5660

ADDRESS 5660 SOUTH SYRACUSE CIRCLE - SUITE 200 - ENGELWOOD COLO 80110

LEASE AND WELL NO. #2 YOUNGER COUNTY BANKER STATE KS Sec. 22 Twp. 32S Rge. 13W

Mail Invoice To (DISTRIBUTOR) SAME No. Copies Requested 5

Co. Name (DISTRIBUTOR) Address SAME

Mail Charts To (DISTRIBUTOR) No. Copies Requested 5

Address SAME

Formation Test No. 2 Interval Tested from 4410 ft. to 4445 ft. Total Depth 4445 ft.

Packer Depth 4405 ft. Size 6 3/4 in. Packer Depth 4410 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) 4438 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4441 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor BIG SPRINGS RIG #1 Drill Collar Length — I. D. — in.

Mud Type STARCH Viscosity 45 Weight Pipe Length 183 I. D. 3.4 in.

Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 4203 I. D. 3.8 in.

Chlorides 44,000 P.P.M. Test Tool Length 24 ft. Tool Size 4 3/4 in.

Jars: Make — Serial Number — Anchor Length 35 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 FH in.

Blow: WEAK BLOW DIED IN 18 MIN FIRST OPENING

WEAK BLOW DIED IN 21 MIN SECOND OPENING

Recovered 80 ft. of GAS CUT MUD w/ few OIL SPOTS

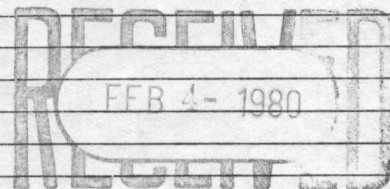
Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: SLID 5' TO BOTTOM



Time Set Packer(s) 8:42 A.M. Time Started Off Bottom 10:44 A.M. Maximum Temperature 123°F

Initial Hydrostatic Pressure (A) 2379 P.S.I.

Initial Flow Period Minutes 30 (B) 92 P.S.I. to (C) 92 P.S.I.

Initial Closed In Period Minutes 30 (D) 102 P.S.I.

Final Flow Period Minutes 30 (E) 92 P.S.I. to (F) 92 P.S.I.

Final Closed In Period Minutes 30 (G) 102 P.S.I.

Final Hydrostatic Pressure (H) 2358 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 Gerald B. Beck
Signature of Customer or his authorized representative

Western Representative Roger Lisenby Thank you

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ 35.00
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —

TOTAL \$ 585.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-30 Recorder No. 969 Capacity 4200 Location 4438 Ft.
 Clock No. _____ Elevation 1654 KB Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2373</u>	P.S.I.	<u>488:42</u>	A M
B First Initial Flow Pressure	<u>96</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>92</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>104</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>101</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>95</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
G Final Closed-in Pressure	<u>103</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2359</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 0	<u>96</u>	0	<u>92</u>	0	<u>101</u>	0	<u>95</u>
P 2 5	<u>86</u>	3	<u>94</u>	5	<u>95</u>	3 <u>97</u>	<u>98</u>
P 3 10	<u>87</u>	6	<u>94</u>	10	<u>94</u>	6	<u>98</u>
P 4 15	<u>88</u>	9	<u>96</u>	15	<u>94</u>	9	<u>99</u>
P 5 20	<u>90</u>	12	<u>98</u>	20	<u>95</u>	12	<u>100</u>
P 6 25	<u>91</u>	15	<u>100</u>	25	<u>95</u>	15	<u>100</u>
P 7 30	<u>92</u>	18	<u>100</u>	30	<u>95</u>	18	<u>101</u>
P 8 35		21	<u>101</u>	35		21	<u>101</u>
P 9 40		24	<u>102</u>	40		24	<u>102</u>
P10 45		27	<u>103</u>	45		27	<u>103</u>
P11 50		30	<u>104</u>	50		30	<u>103</u>
P12 55		33		55		33	
P13 60		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 Co. Lease & Well No. #2 Younger
Elevation 1654 Kelly Bushing Formation Mississippi Effective Pay Ft. Ticket No. 5490
Date 1-31-80 Sec. 22 Twp. 32S Range 13W County Barber State Ks
Test Approved by Gerald B. Becker Western Representative Roger Lisenby
Formation Test No. 2 Interval Tested from 4410 ft. to 4445 ft. Total Depth 4445 ft.
Packer Depth 4405 ft. Size 6 3/4 in. Packer Depth 4410 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) 4438 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 4441 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Big Springs Rig #1 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 45 Weight Pipe Length 183 I. D. 3.4 in.
Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 4203 I. D. 3.8 in.
Chlorides 44,000 P.P.M. Test Tool Length 24 ft. Tool Size 4 3/4 in.
Jars: Make - Serial Number - Anchor Length 35 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 FH in.

Blow: Weak blow died in eighteen minutes first opening, weak blow died in twenty-one minutes on second opening.

Recovered 80 ft. of gas mud with few oil spots
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks: Slid 5' to bottom

Time Set Packer(s) 8:42 A.M. Time Started Off Bottom 10:44 A.M. Maximum Temperature 123
Initial Hydrostatic Pressure (A) 2373 P.S.I.
Initial Flow Period Minutes 30 (B) 96 P.S.I. to (C) 92 P.S.I.
Initial Closed In Period Minutes 30 (D) 104 P.S.I.
Final Flow Period Minutes 30 (E) 101 P.S.I. to (F) 95 P.S.I.
Final Closed In Period Minutes 30 (G) 103 P.S.I.
Final Hydrostatic Pressure (H) 2359 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-80

Test Ticket No. 5490

Recorder No. 969

Capacity 4200

Location 4438 Ft.

Clock No. -

Elevation 1654 Kelly Bushing

Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2373</u> P.S.I.	Open Tool	<u>8:42A</u> M	
B First Initial Flow Pressure	<u>96</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>92</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>104</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>101</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>95</u> P.S.I.			
G Final Closed-in Pressure	<u>103</u> P.S.I.			
H Final Hydrostatic Mud	<u>2359</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>96</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>95</u>
P 2 <u>5</u>	<u>86</u>	<u>3</u>	<u>94</u>	<u>5</u>	<u>95</u>	<u>3</u>	<u>97</u>
P 3 <u>10</u>	<u>87</u>	<u>6</u>	<u>94</u>	<u>10</u>	<u>94</u>	<u>6</u>	<u>98</u>
P 4 <u>15</u>	<u>88</u>	<u>9</u>	<u>96</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>99</u>
P 5 <u>20</u>	<u>90</u>	<u>12</u>	<u>98</u>	<u>20</u>	<u>95</u>	<u>12</u>	<u>100</u>
P 6 <u>25</u>	<u>91</u>	<u>15</u>	<u>100</u>	<u>25</u>	<u>95</u>	<u>15</u>	<u>100</u>
P 7 <u>30</u>	<u>92</u>	<u>18</u>	<u>100</u>	<u>30</u>	<u>95</u>	<u>18</u>	<u>101</u>
P 8		<u>21</u>	<u>101</u>			<u>21</u>	<u>101</u>
P 9		<u>24</u>	<u>102</u>			<u>24</u>	<u>102</u>
P10		<u>27</u>	<u>103</u>			<u>27</u>	<u>103</u>
P11		<u>30</u>	<u>104</u>			<u>30</u>	<u>103</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Tkt #5490
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