



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22335

P. O. BOX 793 PHONE 793-7903  
GREAT BEND, KANSAS

Formation DOUGLAS Elevation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

Marshall District Pratt Date 2-19-77 Customer Order No. \_\_\_\_\_  
COMPANY NAME Marshall Investment Inc.  
ADDRESS 601 Union Center Bldg Wichita, Ks. 67202  
LEASE AND WELL NO. SMITH-STUMPH C-1 COUNTY Barber STATE KANSAS Sec. 25 Twp. 30S Rgd. 13W  
Mail Inv. To GABBERT-JONES Drilling Co 830 Sutton Place No. Copies Requested 1  
Co. Name Address  
Mail Charts To Marshall Investments as above No. Copies Requested 6  
Address

Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3801 to 3814 Total Depth 3874  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv.  B.T. \_\_\_\_\_ Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
Top Packer Depth 3794 Ft. Size 6 3/4 Bottom Packer Depth 3801 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 13 Ft. Size 5 1/2 OD Surface Choke Size 34 In. Bottom Choke Size 34 In.

RECORDERS Depth 3805 Ft. Clock No. 9726 Inside  
Top Make Kuster Cap 4000 No. 3351 Outside  
Bottom Make Kuster Cap 4150 No. 2606 Inside  
Below Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside  
Depth \_\_\_\_\_ Ft. Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside

Time Set Packer 2:27 AM  
Tool Open I.F.P. From 2:30 AM to 3:00 AM - Hr. 30 Min. From (B) 104 P.S.I. To (C) 83 P.S.I.  
Tool Closed I.C.I.P. From 3:00 AM to 3:30 AM - Hr. 30 Min. (D) 432 P.S.I.  
Tool Open F.F.P. From 3:30 AM to 4:30 AM 1 Hr. - Min. From (E) 110 P.S.I. To (F) 93 P.S.I.  
Tool Closed F.C.I.P. From 4:30 AM to 5:00 AM - Hr. 30 Min. (G) 416 P.S.I.  
Initial Hydrostatic Pressure (A) 1852 P.S.I. Final Hydrostatic Pressure (H) 1865 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Good blow for 10 min. on 1st open then strong blow through out rest of test  
Did Well Flow Yes  No Recovery Total Ft. 8 FT OF DRILLING MUD

Reversed Out Yes  No Mud Type Starch Viscosity 34 Weight 9.2 Water Loss 17 cc. Chlorides 28,000  
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 1/2 OD Make W.T.C. Ser. No. 410  
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? \_\_\_\_\_  
DRILLING CONTRACTOR Gabbert + Jones Length Drill Pipe 2393 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 421 ft. I.D. Drill Collars 3 In.  
Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 4.3 ft.

Remarks Slide Tool 6 FT. To bottom then recover it  
710 CAP TO SURFACE  
CLOCK # 9726 DID NOT WORK  
TIGHT HOLE

INVOICE SECTION

Open Hole Test	\$ 3800.00
Straddle Test	\$
Jars	\$ 175.00
Selective Zone	\$
Safety Joint	\$ 30.00
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 585.00

COMPANY TERMS  
Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.  
Test Approved By Bob Gush Signature of Customer or his Authorized Representative  
Western Representative Carl Schorten  
Operator's Time Thank you Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 2-19-77 Test Ticket No. 22335  
 Recorder No. 3351 Capacity 4000 Location 3805 Ft.  
 Clock No. 9726 Elevation — Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1865</u>	P.S.I.	<u>2:27 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>118</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>82</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>432</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>110</u>	P.S.I.	<u>30</u>	<u>33</u> Mins.
F Second Final Flow Pressure	<u>90</u>	P.S.I.		
G Final Closed-in Pressure	<u>436</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1865</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>12</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 0	<u>118</u>	0	<u>82</u>	0	<u>110</u>	0	<u>90</u>
P 2 5	<u>94</u>	3	<u>108</u>	5	<u>94</u>	3	<u>113</u>
P 3 10	<u>92</u>	6	<u>151</u>	10	<u>90</u>	6	<u>155</u>
P 4 15	<u>88</u>	9	<u>191</u>	15	<u>90</u>	9	<u>191</u>
P 5 20	<u>86</u>	12	<u>227</u>	20	<u>90</u>	12	<u>227</u>
P 6 25	<u>84</u>	15	<u>265</u>	25	<u>96</u>	15	<u>257</u>
P 7 30	<u>82</u>	18	<u>301</u>	30	<u>106</u>	18	<u>287</u>
P 8 35		21	<u>337</u>	35	<u>94</u>	21	<u>317</u>
P 9 40		24	<u>365</u>	40	<u>97</u>	24	<u>349</u>
P10 45		27	<u>406</u>	45	<u>102</u>	27	<u>380</u>
P11 50		30	<u>432</u>	50	<u>92</u>	30	<u>404</u>
P12 55		<u>33</u>		55	<u>90</u>	33	<u>436</u>
P13 60		<u>36</u>		60	<u>90</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>	



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

Company Marshel Investments, Inc. Lease & Well No. Smith-Stumph "C" #1  
 Elevation - Formation Douglas Effective Pay - Fr. Ticker No. 22335  
 Date 2-19-77 Sec. 25 Twp. 30S Range 13W County Barber State Kansas  
 Test Approved by Bob Gensch Western Representative Carl Schouten  
 Formation Test No. 1 O.K.  Misrun  Interval Tested From 3801' to 3814' Total Depth 3814'  
 Size Main Hole 7 7/8 Rat Hole - Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 3796 Fr. Size 6 3/4 Bottom Packer Depth 3801 Fr. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Fr. Size -  
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 13 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 3805 Ft. Clock No. 9726 Depth 3808 Ft. Clock No. 6799  
 Top Make Kuster Cap. 4000 No. 3351  Inside  Outside Bottom Make Kuster Cap. 4150 No. 2606  Inside  Outside  
 Below Straddle: Depth - Rec. No. - Clock No. -  Inside  Outside Depth - Ft. Rec. No. - Clock No. -  Inside  Outside  
 Time Set Packer 2:27A. M  
 Tool Open I.F.P. From 2:30A M. to 3:00A M. - Hr. 30 Min. From (B) 118 P.S.I. To (C) 82 P.S.  
 Tool Closed I.C.I.P. From 3:00A M. to 3:30A M. - Hr. 30 Min (D) 432 P.S.  
 Tool Open F.F.P. From 3:30A M. to 4:30A M. - Hr. 60 Min. From (E) 110 P.S.I. To (F) 90 P.S.  
 Tool Closed F.C.I.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. (G) 436 P.S.  
 Initial Hydrostatic Pressure (A) 1865 P.S.I. Final Hydrostatic Pressure (H) 1865 P.S.I. Maximum Temp 121

INFORMATION

BLOW Good blow for 10 minutes increasing to a strong blow throughout test.

Did Well Flow  Yes  No Recovery Total Ft. 80' of drilling mud.

Reversed Out  Yes  No Mud Type Starch Viscosity 34 Weight 9.2 Water Loss 17 cc. Chlorides 28,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Yes  No Jars: Size 4 1/2 OD In. Make WTC Ser. No. 410

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

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 3393 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 421 Ft. I.D. Drill Collars 3 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 43 Ft.

Remarks: Slid tool 6' to bottom. Read recorder # 2606. TIGHT HOLE.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

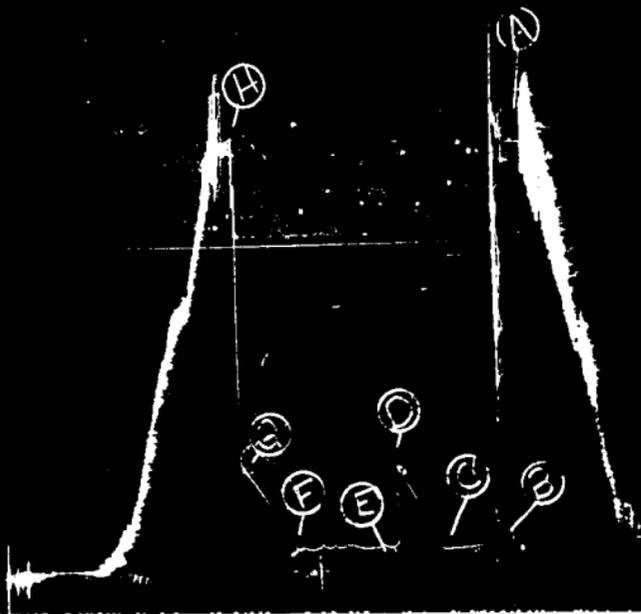
Date 2-19-77 Test Ticket No. 22335  
 Recorder No. 3351 Capacity 4000 Location 3805 Ft.  
 Clock No. 9726 Elevation - Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1865</u> P.S.I.	Open Tool	<u>2:27</u> A M	
B First Initial Flow Pressure	<u>118</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>82</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>432</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>110</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>90</u> P.S.I.			
G Final Closed-in Pressure	<u>436</u> P.S.I.			
H Final Hydrostatic Mud	<u>1865</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>118</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>110</u>	<u>0</u>	<u>90</u>	
P 2 <u>5</u>	<u>94</u>	<u>3</u>	<u>108</u>	<u>5</u>	<u>94</u>	<u>3</u>	<u>113</u>	
P 3 <u>10</u>	<u>92</u>	<u>6</u>	<u>151</u>	<u>10</u>	<u>90</u>	<u>6</u>	<u>155</u>	
P 4 <u>15</u>	<u>88</u>	<u>9</u>	<u>191</u>	<u>15</u>	<u>90</u>	<u>9</u>	<u>191</u>	
P 5 <u>20</u>	<u>86</u>	<u>12</u>	<u>227</u>	<u>20</u>	<u>90</u>	<u>12</u>	<u>227</u>	
P 6 <u>25</u>	<u>84</u>	<u>15</u>	<u>265</u>	<u>25</u>	<u>96</u>	<u>15</u>	<u>257</u>	
P 7 <u>30</u>	<u>82</u>	<u>18</u>	<u>301</u>	<u>30</u>	<u>106</u>	<u>18</u>	<u>287</u>	
P 8		<u>21</u>	<u>337</u>	<u>35</u>	<u>94</u>	<u>21</u>	<u>317</u>	
P 9		<u>24</u>	<u>365</u>	<u>40</u>	<u>97</u>	<u>24</u>	<u>349</u>	
P10		<u>27</u>	<u>406</u>	<u>45</u>	<u>102</u>	<u>27</u>	<u>380</u>	
P11		<u>30</u>	<u>432</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>404</u>	
P12				<u>55</u>	<u>90</u>	<u>33</u>	<u>436</u>	
P13				<u>60</u>	<u>90</u>			
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TK#22335





WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22336

P. O. BOX 793 PHONE 793-7903  
GREAT BEND, KANSAS

Formation KANSAS CITY Elevation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

District PLATT Date 2-20-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Marshal Investment Inc.  
ADDRESS 601 UNION CENTER BUILDING WICHITA KANSAS 67202  
LEASE AND WELL NO. SMITH + STUMPH COUNTY BARBER STATE KANSAS Sec. 25 Twp. 30E Rge. 23W  
Mail Inv. To Gabbert + Jones Drisco 830 SUTTON PLACE No. Copies Requested \_\_\_\_\_  
Co. Name \_\_\_\_\_ Address \_\_\_\_\_  
Mail Charts To MARSHAL INVESTMENTS SAME AS ABOVE No. Copies Requested 27  
Address \_\_\_\_\_

Formation Test No. 2 O.K.  Misrun  Interval Tested From 4203 to 4214 Total Depth 4214  
Size Main Hole 6 1/2 Hole  Conv.  B.T. \_\_\_\_\_ Damaged Yes  No Conv. B.T.  Damaged Yes  No  
Top Packer Depth 4198 Ft. Size 6 3/4 Bottom Packer Depth 4203 Ft. Size 6 3/4  
Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2 Tool Joint Size 4 1/2 Anchor Length 11 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4205 Ft. Clock No. 6799 Inside  
Top Make KUSTER Cap. 4000 No. 2351 Outside  
Bottom Make KUSTER Cap. 4150 No. 2604 Outside  
Below Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside  
Depth \_\_\_\_\_ Ft. Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside

Time Set Packer 12:06 AM  
Tool Open I.F.P. From 12:08 AM to 12:53 AM - Hr. 45 Min. From (B) 150 167 P.S.I. To (C) 541 544 P.S.I.  
Tool Closed I.C.I.P. From 12:53 AM to 1:38 AM - Hr. 45 Min. (D) \_\_\_\_\_ P.S.I.  
Tool Open F.F.P. From 1:38 AM to 2:38 AM 1 Hr. - Min. From (E) 621 627 P.S.I. To (F) 910 914 P.S.I.  
Tool Closed F.C.I.P. From 2:38 AM to 3:38 AM 1 Hr. - Min. (G) 1476 1488 P.S.I.  
Initial Hydrostatic Pressure (A) 2061 2085 P.S.I. Final Hydrostatic Pressure (H) 2041 2075 P.S.I. Maximum Temp. 135

INFORMATION

BLOW STRONG BLOW THROUGH-OUT TEST  
1970 ft. recovery  
Did Well Flow Yes  No  Recovery Total Ft. 1970  
250' VHO + GCM, 60' VHO + GCM, 60' VHO + GCM 1180' REVERSED OUT BOTTOM 425'  
Reversed Out  Yes  No Mud Type STARK Viscosity 38 Weight 9.4 Water Loss 17.2 cc. Chlorides 32,000 PPM  
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 1 1/2 In. Make WTC Ser. No. 410  
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? \_\_\_\_\_  
DRILLING CONTRACTOR Gabbert + Jones Length Drill Pipe 3799 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.  
Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ In. Tool Joint Size \_\_\_\_\_ In. Length Drill Collars 421 ft. I.D. Drill Collars 3 In.  
Tool Joint Size 4 1/2 In. Length D.S.T. Tool 41 ft.

Remarks Slide tool 2ft to bottom  
Chlorides check: 145,000 PPM.  
CLOCK # 8377 STOPPED  
TIGHT HOLE

RECEIVED  
FEB 23 1977  
RECEIVED

INVOICE SECTION

Open Hole Test	\$ 415.00
Straddle Test	\$
Jars	\$ 175.00
Selective Zone	\$
Safety Joint	\$ 30.00
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$ 20.00
Total	\$ 640.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]  
Signature of Customer or his Authorized Representative

Western Representative [Signature]

B. gensch 12.80

Carl [Signature]  
Thank you



**GAS FLOW REPORT**

**Nº 228**

Date 2-20-77 Ticket 22336 Company Marshall Investment  
Well Name and No. Smith + Stumph C-1 Dst No. 2 Interval Tested 4203' - 4241'  
County Barber State KANSAS Sec. 23 Twp. 30S Rg. 13W

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
<b>PRE FLOW</b>						
<del>7:00</del> <del>12:05</del>		GTS	12:13			C.F.P.
12:23 AM	15 min	74" of water 1/4	orifice			14,400 C.F.P.
12:28 AM	20 min	99" of water 1/4	"			16,600 "
12:33 AM	25	20" of water 1/2	"			28,000 "
12:38 AM	30	16" of water 1/2	"			25,100 "
12:43 AM	35	14" of water 1/2	"			23,700 "
12:48 AM	40	10" of water 1/2	"			19,900 "
12:53 AM	45	12" of water 1/2				21,900 " "
<b>SECOND FLOW</b>						
1:43 AM	5 min	12" of water 1/4	orifice			<del>5,860</del> 5,860 C.F.P.
1:48 AM	10	8" of water "	"			4,760 "
1:53	15	6" of water "	"			4,120 "
1:58	20	26	"			8,560 "
2:03	25	34	"			9,790 "
2:08	30	34	"			9,790 "
2:13	35	36	"			10,100 "
2:18	40	38	"			10,400 "
2:23	45	38	"			10,400 "
2:28	50	40	"			10,600 "
2:33	55	42	"			10,900 "
2:38 AM	60 min	44" of water	"			11,100 " "

**GAS BOTTLE**

Serial No. 620 Date Bottle Filled 2-20-77 Date to be Invoiced 3-20-77

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 Marshall Investments  
Authorized by [Signature]

WESTERN TESTING CO., INC.

Pressure Data

Date 2-20-77 Test Ticket No. 22336  
 Recorder No. 3351 Capacity 4000 Location 4205 Ft.  
 Block No. 6799 Elevation \_\_\_\_\_ Well Temperature 135 °F

Point	Pressure	Time Given	Time Computed
Initial Hydrostatic Mud	<u>2085</u> P.S.I.	<u>12:06 A</u> M	
First Initial Flow Pressure	<u>167</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
First Final Flow Pressure	<u>544</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
Initial Closed-in Pressure	<u>1452</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
Second Initial Flow Pressure	<u>627</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
Second Final Flow Pressure	<u>914</u> P.S.I.		
Final Closed-in Pressure	<u>1488</u> P.S.I.		
Final Hydrostatic Mud	<u>2075</u> P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	Press.	Initial Shut-In Point Minutes	Press.	Second Flow Pressure Point Minutes	Press.	Final Shut-In Point Minutes	Press.
0	<u>167</u>	0	<del>544</del> <u>544</u>	0	<u>627</u>	0	<u>914</u>
5	<u>179</u>	3	<u>1198</u>	5	<u>629</u>	3	<u>1268</u>
10	<u>231</u>	6	<del>1244</del> <u>1244</u>	10	<u>655</u>	6	<u>1306</u>
15	<u>287</u>	9	<u>1280</u>	15	<u>689</u>	9	<u>1333</u>
20	<u>337</u>	12	<u>1312</u>	20	<u>719</u>	12	<u>1351</u>
25	<u>382</u>	15	<u>1333</u>	25	<u>749</u>	15	<u>1368</u>
30	<u>428</u>	18	<u>1353</u>	30	<u>777</u>	18	<u>1383</u>
35	<u>468</u>	21	<u>1371</u>	35	<u>803</u>	21	<u>1395</u>
40	<u>508</u>	24	<u>1388</u>	40	<u>829</u>	24	<u>1407</u>
45	<u>544</u>	27	<u>1401</u>	45	<u>851</u>	27	<u>1417</u>
50		30	<u>1413</u>	50	<u>873</u>	30	<u>1428</u>
55		33	<u>1425</u>	55	<u>894</u>	33	<u>1436</u>
60		36	<u>1434</u>	60	<u>914</u>	36	<u>1442</u>
		39	<u>1444</u>	65		39	<u>1451</u>
		42	<u>1452</u>	70		42	<u>1458</u>
		45		75		45	<u>1463</u>
		48		80		48	<u>1468</u>
		51		85		51	<u>1474</u>
		54		90		54	<u>1478</u>
		57				57	<u>1484</u>
		60				60	<u>1486</u>
							<u>63 - 1488</u>



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

Company Marshel Investments, Inc. Lease & Well No. Smith-Stumph C-#1  
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 22336  
 Date 2-20-77 Sec. 25 Twp. 30S Range 3W County Barber State Kansas  
 Test Approved by B. Gensch Western Representative Carl Schouten  
 Formation Test No. 2 O.K.  Misrun  Interval Tested From 4203' to 4214' Total Depth 4214'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 4198 Ft. Size 6 3/4 Bottom Packer Depth 4203 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 11 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 4205 Ft. Clock No. 6799 Depth 4208 Ft. Clock No. 8377  
 Top Make Kuster Cap. 4000 No. 3351 <sup>Inside</sup> Bottom Make Kuster Cap. 4150 No. 2606 <sup>Outside</sup>  
 Below Straddle: Depth - Rec. No. - Clock No. - <sup>Inside</sup> Depth - Ft. Rec. No. - Clock No. - <sup>Outside</sup>  
 Time Set Packer 12:06 A M  
 Tool Open I.F.P. From 12:08 A.M. to 12:53 A.M. - Hr. 45 Min. From (B) 167 P.S.I. To (C) 544 P.S.I.  
 Tool Closed I.C.I.P. From 12:53 M. to 1:38 A.M. - Hr. 45 Min (D) 1452 P.S.I.  
 Tool Open F.F.P. From 1:38 A.M. to 2:38 A.M. 1 Hr. - Min. From (E) 627 P.S.I. To (F) 914 P.S.I.  
 Tool Closed F.C.I.P. From 2:38 A.M. to 3:38 A.M. 1 Hr. - Min. (G) 1488 P.S.I.  
 Initial Hydrostatic Pressure (A) 2085 P.S.I. Final Hydrostatic Pressure (H) 2075 P.S.I. Maximum Temp. 135

**INFORMATION**

BLOW Strong blow throughout test.  
 Did Well Flow - Yes  No  Recovery Total Ft. 1,920' total recovery. 250' very heavy oil and gas cut mud, 60' very heavy oil and gas cut muddy water, 60' very heavy oil and gas cut mud. Reversed out - 1125' water with scum of oil, 425' salt water.  
 Reversed Out  Yes  No Mud Type starch Viscosity 38 Weight 9.4 Water Loss 17.2 cc. Chlorides 32,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 410  
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -  
 DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 3793 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 421 Ft. I.D. Drill Collars 3 In  
 Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 41 Ft.  
 Remarks: Slid tool 2' to bottom. Chlorides checked: 145,000 P.P.M. Clock #8377 stopped.  
**TIGHT HOLE**

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2-20-77 Test Ticket No. 22336  
 Recorder No. 3351 Capacity 4000 Location 4205 Ft.  
 Clock No. 6799 Elevation - Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2085</u> P.S.I.	Open Tool	<u>12:06</u> AM	
B First Initial Flow Pressure	<u>167</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>544</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1452</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>627</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>914</u> P.S.I.			
G Final Closed-in Pressure	<u>1488</u> P.S.I.			
H Final Hydrostatic Mud	<u>2075</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: 14 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 21 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>167</u>	<u>0</u>	<u>544</u>	<u>0</u>	<u>627</u>	<u>0</u>	<u>914</u>
P 2 <u>5</u>	<u>179</u>	<u>3</u>	<u>1198</u>	<u>5</u>	<u>629</u>	<u>3</u>	<u>1268</u>
P 3 <u>10</u>	<u>231</u>	<u>6</u>	<u>1244</u>	<u>10</u>	<u>655</u>	<u>6</u>	<u>1306</u>
P 4 <u>15</u>	<u>287</u>	<u>9</u>	<u>1280</u>	<u>15</u>	<u>689</u>	<u>9</u>	<u>1333</u>
P 5 <u>20</u>	<u>337</u>	<u>12</u>	<u>1312</u>	<u>20</u>	<u>719</u>	<u>12</u>	<u>1351</u>
P 6 <u>25</u>	<u>382</u>	<u>15</u>	<u>1333</u>	<u>25</u>	<u>749</u>	<u>15</u>	<u>1368</u>
P 7 <u>30</u>	<u>428</u>	<u>18</u>	<u>1353</u>	<u>30</u>	<u>777</u>	<u>18</u>	<u>1383</u>
P 8 <u>35</u>	<u>468</u>	<u>21</u>	<u>1371</u>	<u>35</u>	<u>803</u>	<u>21</u>	<u>1395</u>
P 9 <u>40</u>	<u>508</u>	<u>24</u>	<u>1388</u>	<u>40</u>	<u>829</u>	<u>24</u>	<u>1407</u>
P10 <u>45</u>	<u>544</u>	<u>27</u>	<u>1401</u>	<u>45</u>	<u>851</u>	<u>27</u>	<u>1417</u>
P11		<u>30</u>	<u>1413</u>	<u>50</u>	<u>873</u>	<u>30</u>	<u>1428</u>
P12		<u>33</u>	<u>1425</u>	<u>55</u>	<u>894</u>	<u>33</u>	<u>1436</u>
P13		<u>36</u>	<u>1434</u>	<u>60</u>	<u>914</u>	<u>36</u>	<u>1442</u>
P14		<u>39</u>	<u>1444</u>			<u>39</u>	<u>1451</u>
P15		<u>42</u>	<u>1452</u>			<u>42</u>	<u>1458</u>
P16						<u>45</u>	<u>1463</u>
P17						<u>48</u>	<u>1468</u>
P18						<u>51</u>	<u>1474</u>
P19						<u>54</u>	<u>1478</u>
P20						<u>57</u>	<u>1484</u>
						<u>60</u>	<u>1486</u>
						<u>63</u>	<u>1488</u>



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P. O. Box 1599 (316) 838-0601

### GAS FLOW REPORT

Date 2-20-77 Ticket 22336 Company Marshall Investments, Inc.  
Well Name and No. Smith-Stumph C-#1 Dst No. 2 Interval Tested 4203' - 4214'  
County Barber State Kansas Sec. 25 Twp. 30S Rg. 13W

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
<b>Gas to surface at 12:15 PRE FLOW</b>						
12:23AM	15 min.	74 inches	of water	1/4" choke		14,400 C.F.P.D.
12:28AM	20 min.	98 inches	of water	1/4" choke		16,600 C.F.P.D.
12:33AM	25 min.	20 inches	of water	1/2" choke		28,000 C.F.P.D.
12:38AM	30 min.	16 inches	of water	1/2" choke		25,100 C.F.P.D.
12:43AM	35 min.	14 inches	of water	1/2" choke		23,700 C.F.P.D.
12:48AM	40 min.	10 inches	of water	1/2" choke		19,900 C.F.P.D.
12:53AM	45 min.	12 inches	of water	1/2" choke		<b>SECOND FLOW</b> 21,900 C.F.P.D.
1:43AM	5 min.	12 inches	of water	1/4" choke		5,860 C.F.P.D.
1:48AM	10 min.	8 inches	of water	1/4" choke		4,760 C.F.P.D.
1:53AM	15 min.	6 inches	of water	1/4" choke		4,120 C.F.P.D.
1:58AM	20 min.	26 inches	of water	1/4" choke		8,560 C.F.P.D.
2:03AM	25 min.	34 inches	of water	1/4" choke		9,790 C.F.P.D.
2:08AM	30 min.	34 inches	of water	1/4" choke		9,790 C.F.P.D.
2:13AM	35 min.	36 inches	of water	1/4" choke		10,100 C.F.P.D.
2:18AM	40 min.	38 inches	of water	1/4" choke		10,400 C.F.P.D.
2:23AM	45 min.	38 inches	of water	1/4" choke		10,400 C.F.P.D.
2:28AM	50 min.	40 inches	of water	1/4" choke		10,600 C.F.P.D.
2:33AM	55 min.	42 inches	of water	1/4" choke		10,900 C.F.P.D.
2:38AM	60 min.	44 inches	of water	1/2" choke		11,100 C.F.P.D.

### GAS BOTTLE

Serial No. 620 Date Bottle Filled 2-20-77 Date to be Invoiced 2-20-77

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 Marshall Investments, Inc.

Authorized by B. Gensch

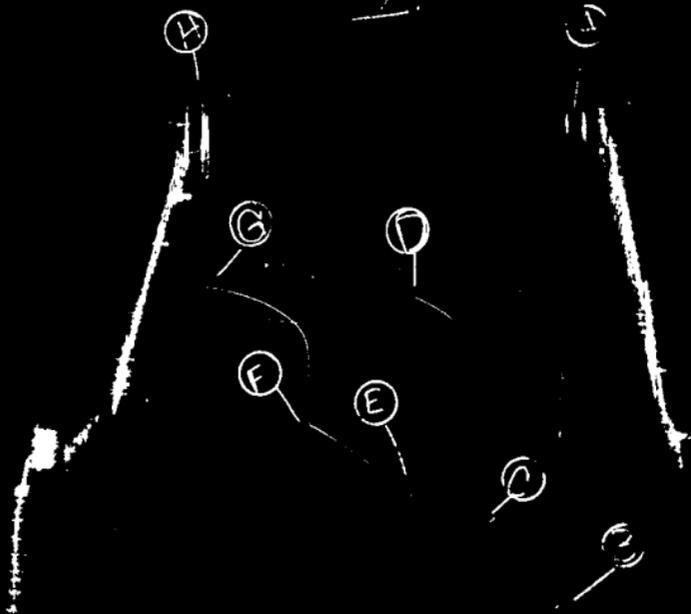
Recovery - 1920' total recovery.  
250' very heavy oil & gas  
cut mud, 60' very heavy oil and gas  
cut muddy water, 60' very heavy oil and  
gas cut water, 1125' water with  
~~scum of oil (scum out)~~ 425' salt  
water

~~1125~~

~~Recovery~~ Recovery - 1920' total recovery  
250' very heavy oil and gas cut mud  
60' very heavy oil and gas cut muddy  
water, 60' very heavy oil and gas cut  
mud. Scum out - 1125' water with  
scum of oil, 425' salt water

TK# 22336

I.





WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22337

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation ~~XXXX~~ Elevation 1856 KB Eff. Pay \_\_\_\_\_ Ft.

District PRATT

Date 2-22-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Marshall Investment Inc.

ADDRESS 601 Union Center Building Wichita Kansas 67202

LEASE AND WELL NO. Smith & Stumph #1 COUNTY BARBER STATE KANSAS Sec 25 Twp 30S Rge 13W

Mail Inv. To Gabbert + Jones Drilco 830 Sutton Place Co. Name Address No. Copies Requested \_\_\_\_\_

Mail Charts To Marshall Inv. SAME AS ABOVE Address No. Copies Requested 7

Formation Test No. 3 O.K. X Misrun \_\_\_\_\_ Interval Tested From 4223 to 4345 Total Depth 4345

Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. X B.T. Damaged Yes X No Conv. B.T. X Damaged Yes X No

Top Packer Depth 4318 Ft. Size 6 3/4 Bottom Packer Depth 4323 Ft. Size 6 3/4

Straddle \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 1/2" Tool Joint Size 4 1/2" Anchor Length 22 Ft. Size 5 1/2" Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4327 Ft. Clock No. 6799 Inside Depth 4330 Ft. Clock No. 9103

Top Make Kuster Cap 4000 No. 3351 Inside Bottom Make Kuster Cap 4150 No. 2606 Outside

Below Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside Depth \_\_\_\_\_ Ft. Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside

Time Set Packer 4:05 AM

Tool Open I.F.P. From 4:07 AM to 4:52 AM Hr. 45 Min. From (B) 30 24 P.S.I. To (C) 30 24 P.S.I.

Tool Closed I.C.I.P. From 4:52 AM to 5:37 AM Hr. 45 Min. (D) 30 28 P.S.I.

Tool Open F.F.P. From 5:37 AM to 6:07 AM Hr. 30 Min. From (E) 30 26 P.S.I. To (F) 30 26 P.S.I.

Tool Closed F.C.I.P. From 6:07 AM to 7:07 AM Hr. 1 Min. (G) 30 29 P.S.I.

Initial Hydrostatic Pressure (A) 2156 P.S.I. Final Hydrostatic Pressure (H) 2156 P.S.I. Maximum Temp. 133

INFORMATION

BLOW WEAK blow for 20 min, then blow stopped for rest of test

Did Well Flow - Yes X No Recovery Total Ft. 1 FT Drilling MUD

Reversed Out - Yes X No Mud Type STARCH Viscosity 37 Weight 9.4 Water Loss 16.8 cc. Chlorides 39,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint yes Jars: Size 4 1/2" n. Make WTC. Ser. No. 410

Dual Packers. yes Did Packers Hold? yes Did Tool Plug? NO Where? \_\_\_\_\_

DRILLING CONTRACTOR Gabbert + Jones Length Drill Pipe 3924 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2" FH

Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ In. Tool Joint Size \_\_\_\_\_ In. Length Drill Collars 421 ft. I.D. Drill Collars 3 In.

Tool Joint Size 4 1/2" Length D.S.T. Tool 52 ft.

Remarks \_\_\_\_\_

INVOICE SECTION

Open Hole Test	\$ 415.00
Straddle Test	\$
Jars	\$ 175.00
Selective Zone	\$
Safety Joint	\$ 30.00
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 620.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his Authorized Representative

B. Gensch

Western Representative Carl Deharter

Operator's Time Thank you Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 222-77 Test Ticket No. 22337  
 Recorder No. 3351 Capacity 4000 Location 4322 Ft.  
 Block No. 6799 Elevation 1850 Kelly Bushing Well Temperature 133 °F

Point	Pressure	Time Given	Time Computed
1 Initial Hydrostatic Mud	<u>2149</u> P.S.I.	<u>4:05A</u> M	
2 First Initial Flow Pressure	<del>22</del> <u>24</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
3 First Final Flow Pressure	<u>24</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
4 Initial Closed-in Pressure	<u>28</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
5 Second Initial Flow Pressure	<u>26</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
6 Second Final Flow Pressure	<u>26</u> P.S.I.		
7 Final Closed-in Pressure	<u>29</u> P.S.I.		
8 Final Hydrostatic Mud	<u>2149</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>14</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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	<del>24</del> <u>24</u>	0	<u>24</u>	0	<u>26</u>	0	<u>26</u>
P 2 5	<u>24</u>	3	<u>24</u>	5	<u>26</u>	3	<u>26</u>
P 3 10	<u>24</u>	6	<u>24</u>	10	<u>26</u>	6	<u>26</u>
P 4 15	<u>24</u>	9	<u>24</u>	15	<u>26</u>	9	<u>26</u>
P 5 20	<u>24</u>	12	<u>25</u>	20	<u>26</u>	12	<u>26</u>
P 6 25	<u>24</u>	15	<u>25</u>	25	<u>26</u>	15	<u>26</u>
P 7 30	<u>24</u>	18	<u>26</u>	30	<u>26</u>	18	<u>26</u>
P 8 35	<u>24</u>	21	<u>26</u>	<del>35</del>		21	<u>26</u>
P 9 40	<u>24</u>	24	<u>26</u>	<del>40</del>		24	<u>26</u>
P 10 45	<u>24</u>	27	<u>26</u>	<del>45</del>		27	<u>27</u>
P 11 50		30	<u>27</u>	<del>50</del>		30	<u>27</u>
P 12 55		33	<u>28</u>	<del>55</del>		33	<u>28</u>
P 13 60		36	<u>28</u>	<del>60</del>		36	<u>28</u>
<del>P 14</del>		39	<u>28</u>	<del>65</del>		39	<u>28</u>
<del>P 15</del>		42	<u>28</u>	<del>70</del>		42	<u>28</u>
<del>P 16</del>		<del>45</del>		<del>75</del>		45	<u>28</u>
<del>P 17</del>		<del>48</del>		<del>80</del>		48	<u>28</u>
<del>P 18</del>		<del>51</del>		<del>85</del>		51	<u>29</u>
<del>P 19</del>		<del>54</del>		<del>90</del>		54	<u>29</u>
<del>P 20</del>		<del>57</del>				57	<u>29</u>
		<u>60</u>				60	<u>29</u>



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Company Marshel Investments, Inc. Lease & Well No. Smith-Stumph C-#1  
 Elevation 1856 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. 22337  
 Date 2-22-77 Sec. 25 Twp. 30S Range 13W County Barber State Kansas  
 Test Approved by B. Gensch Western Representative Carl Schouten  
 Formation Test No. 3 O.K.  Misrun  Interval Tested From 4323' to 4345' Total Depth 4345'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes   
 Top Packer Depth 4318 Ft. Size 6 3/4 Bottom Packer Depth 4323 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 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4  
 RECORDERS Depth 4327 Ft. Clock No. 6799 Depth 4330 Ft. Clock No. 9103  
 Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 Inside Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside  
 Time Set Packer 4:05 A M  
 Tool Open I.F.P. From 4:07 A.M. to 4:52 A.M. - Hr. 45 Min. From (B) 24 P.S.I. To (C) 24 P.S.I.  
 Tool Closed I.C.I.P. From 4:52 M. to 5:37 A.M. - Hr. 45 Min (D) 28 P.S.I.  
 Tool Open F.F.P. From 5:37 A.M. to 6:07 A.M. - Hr. 30 Min. From (E) 26 P.S.I. To (F) 26 P.S.I.  
 Tool Closed F.C.I.P. From 6:07 M. to 7:07 A.M. 1 Hr. - Min. (G) 29 P.S.I.  
 Initial Hydrostatic Pressure (A) 2149 P.S.I. Final Hydrostatic Pressure (H) 2149 P.S.I. Maximum Temp. 133

INFORMATION

BLOW Weak blow for 20 minutes, then blow died.

Did Well Flow - Yes  No  Recovery Total Ft. 1' drilling mud.

Reversed Out - Yes  No  Mud Type starch Viscosity 37 Weight 9.4 Water Loss 16.8 cc. Chlorides 39,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD n. Make WTC Ser. No. 410

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

DRILLING CONTRACTOR Gabbert-Jones Length Drill Pipe? 3924 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 421 Ft. I.D. Drill Collars 3

Tool Joint Size 4 1/2 H90 n. Length D.S.T. Tool 52 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2-22-77 Test Ticket No. 22337  
 Recorder No. 3351 Capacity 4000 Location 4327 Ft.  
 Clock No. 6799 Elevation 1856 Kelly Bushing Well Temperature 133 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2149</u> P.S.I.	<u>4:05</u> A M	
B First Initial Flow Pressure	<u>24</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>24</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>28</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>26</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>26</u> P.S.I.		
G Final Closed-in Pressure	<u>29</u> P.S.I.		
H Final Hydrostatic Mud	<u>2149</u> P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>24</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>26</u>
P 2	<u>24</u>	<u>3</u>	<u>24</u>	<u>3</u>	<u>26</u>
P 3	<u>24</u>	<u>6</u>	<u>24</u>	<u>6</u>	<u>26</u>
P 4	<u>24</u>	<u>9</u>	<u>24</u>	<u>9</u>	<u>26</u>
P 5	<u>24</u>	<u>12</u>	<u>25</u>	<u>12</u>	<u>26</u>
P 6	<u>24</u>	<u>15</u>	<u>25</u>	<u>15</u>	<u>26</u>
P 7	<u>24</u>	<u>18</u>	<u>26</u>	<u>18</u>	<u>26</u>
P 8	<u>24</u>	<u>21</u>	<u>26</u>	<u>21</u>	<u>26</u>
P 9	<u>24</u>	<u>24</u>	<u>26</u>	<u>24</u>	<u>26</u>
P10	<u>24</u>	<u>27</u>	<u>26</u>	<u>27</u>	<u>27</u>
P11		<u>30</u>	<u>27</u>	<u>30</u>	<u>27</u>
P12		<u>33</u>	<u>28</u>	<u>33</u>	<u>28</u>
P13		<u>36</u>	<u>28</u>	<u>36</u>	<u>28</u>
P14		<u>39</u>	<u>28</u>	<u>39</u>	<u>28</u>
P15		<u>42</u>	<u>28</u>	<u>42</u>	<u>28</u>
P16				<u>45</u>	<u>28</u>
P17				<u>48</u>	<u>28</u>
P18				<u>51</u>	<u>29</u>
P19				<u>54</u>	<u>29</u>
P20				<u>57</u>	<u>29</u>
				<u>60</u>	<u>29</u>

TK4#22337

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WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22338

P. O. BOX 793 PHONE 793-7903  
GREAT BEND, KANSAS

Formation Miss Elevation 1856' K13 Off. Pay \_\_\_\_\_ Ft.

District PAH Date 2-22-77 Customer Order No. \_\_\_\_\_

COMPANY NAME Marshall Investment Inc.

ADDRESS 601 Union Center Building Wichita, KS 67202

LEASE AND WELL NO. SMITH + STUMPHS-1 COUNTY Barber STATE KANSAS Sec. 25 Twp. 30S Rge. 13W

Mail Inv. To Gabbert + Jones Drilling Co. No. Copies Requested \_\_\_\_\_  
Co. Name Address

Mail Charts To Marshall Inv SAME as above No. Copies Requested 7  
Address

Formation Test No. 4 O.K.  Misrun  Interval Tested From 4347' to 4391' Total Depth 4391'

Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged Yes  No Conv. B.T.  Damaged Yes  No

Top Packer Depth 4342 Ft. Size 6 3/4 Bottom Packer Depth 4347 Ft. Size 6 3/4

Straddle  Conv.  B.T.  Damaged Yes  No Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_

Tool Size 5 5/8 OD Tool Joint Size 4 1/2 FH Anchor Length 44 Ft. Size 5 5/8 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4375 Ft. Clock No. 6799 Depth 4378 Ft. Clock No. 9103

Top Make Kuster Cap. 4000 No. 3351 Inside Bottom Make Kuster Cap. 4150 No. 2606 Outside

Below Straddle: Depth \_\_\_\_\_ Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Rec. No. \_\_\_\_\_ Clock No. \_\_\_\_\_ Outside

Time Set Packer 10:43 PM

Tool Open I.F.P. From 10:45 PM to 11:45 PM 1 Hr. \_\_\_\_\_ Min. From (B) 41 34 P.S.I. To (C) 52 28 P.S.I.

Tool Closed I.C.I.P. From 11:45 PM to 12:45 AM 1 Hr. \_\_\_\_\_ Min. (D) 104 95 P.S.I.

Tool Open F.F.P. From 12:45 AM to 1:45 AM 1 Hr. \_\_\_\_\_ Min. From (E) 52 40 P.S.I. To (F) 52 30 P.S.I.

Tool Closed F.C.I.P. From 1:45 AM to 2:45 AM 1 Hr. \_\_\_\_\_ Min. (G) 83 74 P.S.I.

Initial Hydrostatic Pressure (A) 2177 P.S.I. Final Hydrostatic Pressure (H) 2177 P.S.I. Maximum Temp 130

INFORMATION

BLOW WEAK blow for 15 min ~~blow~~ to fair blow ~~on~~ initial flow  
ON SECOND BLOW WAS FAIR THROUGH-OUT ~~the~~ final flow period

Did Well Flow Yes  No Recovery Total Ft. 3 FT OF DRILLING MUD

Reversed Out Yes  No Mud Type starch viscosity 42 Weight 9.4 Water Loss 14.0 cc. Chlorides 38,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 5/8 In. Make WTC Ser. No. 410

Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? \_\_\_\_\_

DRILLING CONTRACTOR Gabbert + Jones Length Drill Pipe 2970 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe \_\_\_\_\_ ft. I.D. Weight Pipe \_\_\_\_\_ In. Tool Joint Size \_\_\_\_\_ In. Length Drill Collars 421 ft. I.D. Drill Collars 3 In.

Tool Joint Size 4 1/2 H90 Length D.S.T. Tool 74 ft.

Remarks Slid Tool 2 FT TO BOTTOM

INVOICE SECTION

Open Hole Test	\$ 415.00
Straddle Test	\$
Jars	\$ 175.00
Selective Zone	\$
Safety Joint	\$ 30.00
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 620.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By B. Gensch Western Representative Carl Schouten

Signature of Customer or his Authorized Representative Operator's Time 12.40 Hrs.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2-22-77 Test Ticket No. 22338  
 Recorder No. ~~3351~~ 3351 Capacity 4000 Location 4375 Ft.  
 Clock No. 6799 Elevation 1856 KB Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2155</u>	P.S.I.	<u>10:43 PM</u>	
B First Initial Flow Pressure	<u>34</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>28</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>95</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>40</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>30</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
G Final Closed-in Pressure	<u>74</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2155</u>	P.S.I.		

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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>34</u>	0	<u>28</u>	0	<u>40</u>	0	<u>30</u>	
P 2 5	<u>22</u>	3	<u>28</u>	3	<u>29</u>	3	<u>30</u>	
P 3 10	<u>22</u>	6	<u>31</u>	6	<u>29</u>	6	<u>30</u>	
P 4 15	<u>24</u>	9	<u>34</u>	9	<u>29</u>	9	<u>33</u>	
P 5 20	<u>26</u>	12	<u>39</u>	12	<u>29</u>	12	<u>36</u>	
P 6 25	<u>26</u>	15	<u>42</u>	15	<u>29</u>	15	<u>38</u>	
P 7 30	<u>26</u>	18	<u>46</u>	18	<u>29</u>	18	<u>41</u>	
P 8 35	<u>27</u>	21	<u>50</u>	21	<u>29</u>	21	<u>44</u>	
P 9 40	<u>27</u>	24	<u>54</u>	24	<u>30</u>	24	<u>47</u>	
P10 45	<u>27</u>	27	<u>58</u>	27	<u>30</u>	27	<u>51</u>	
P11 50	<u>27</u>	30	<u>62</u>	30	<u>30</u>	30	<u>53</u>	
P12 55	<u>27</u>	33	<u>65</u>	33	<u>30</u>	33	<u>57</u>	
P13 60	<u>28</u>	36	<u>68</u>	36	<u>30</u>	36	<u>60</u>	
P14		39	<u>72</u>	39		39	<u>61</u>	
P15		42	<u>75</u>	42		42	<u>62</u>	
P16		45	<u>78</u>	45		45	<u>64</u>	
P17		48	<u>82</u>	48		48	<u>66</u>	
P18		51	<u>85</u>	51		51	<u>69</u>	
P19		54	<u>89</u>	54		54	<u>71</u>	
P20		57	<u>93</u>	57		57	<u>73</u>	
		60	<u>95</u>	60		60	<u>74</u>	



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

Company Marshel Investments, Inc. Lease & Well No. Smith-Stumph C-#1  
Elevation 1856 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 22338  
Date 2-22-77 Sec. 25 Twp. 30S Range 13W County Barber State Kansas  
Test Approved by B. Gensch Western Representative Carl Schouten

Formation Test No. 4 O.K.  Misrun  Interval Tested From 4347' to 4391' Total Depth 4391'  
Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Top Packer Depth 4342 Ft. Size 6 3/4 Bottom Packer Depth 4347 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 44 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4375 Ft. Clock No. 6799 Depth 4378 Ft. Clock No. 9103  
Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 Inside Outside  
Below Straddle: Depth  Rec. No.  Clock No.  Inside Outside Depth  Ft. Rec. No.  Clock No.  Inside Outside

Time Set Packer 10:43 PM  
Tool Open I.F.P. From 10:45 PM to 11:45 PM 1 Hr.  Min. From (B) 34 P.S.I. To (C) 28 P.S.  
Tool Closed I.C.I.P. From 11:45 AM to 12:45 AM 1 Hr.  Min. (D) 95 P.S.  
Tool Open F.F.P. From 12:45 AM to 1:45 AM 1 Hr.  Min. From (E) 40 P.S.I. To (F) 30 P.S.  
Tool Closed F.C.I.P. From 1:45 AM to 2:45 AM 1 Hr.  Min. (G) 74 P.S.  
Initial Hydrostatic Pressure (A) 2155 P.S.I. Final Hydrostatic Pressure (H) 2155 P.S.I. Maximum Temp. 130

INFORMATION

BLOW Weak blow for 15 minutes increasing to fair blow on initial flow period. Fair blow throughout final flow period.

Did Well Flow  Yes  No Recovery Total Ft. 3' drilling mud.

Reversed Out.  Yes  No Mud Type starch Viscosity 42 Weight 9.4 Water Loss 14.0 cc. Chlorides 38,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Yes  No Jars: Size 4 1/2 OD In. Make WTC Ser. No. 410

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

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe 3970 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 421 Ft. I.D. Drill Collars 3 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 74 Ft.

Remarks: Slid tool 2' to bottom.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2-22-77 Test Ticket No. 22338  
 Recorder No. 3351 Capacity 4000 Location 4375 Ft.  
 Clock No. 6799 Elevation 1856 Kelly Bushing Well Temperature 130 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2155</u> P.S.I.	<u>10:43</u> P.M.	
B First Initial Flow Pressure	<u>34</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>28</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>95</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>40</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.		
G Final Closed-in Pressure	<u>74</u> P.S.I.		
H Final Hydrostatic Mud	<u>2155</u> P.S.I.		

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>34</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>30</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>28</u>	<u>5</u>	<u>29</u>	<u>3</u>	<u>30</u>
P 3 <u>10</u>	<u>22</u>	<u>6</u>	<u>31</u>	<u>10</u>	<u>29</u>	<u>6</u>	<u>30</u>
P 4 <u>15</u>	<u>24</u>	<u>9</u>	<u>34</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>33</u>
P 5 <u>20</u>	<u>26</u>	<u>12</u>	<u>39</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>36</u>
P 6 <u>25</u>	<u>26</u>	<u>15</u>	<u>42</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>38</u>
P 7 <u>30</u>	<u>26</u>	<u>18</u>	<u>46</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>41</u>
P 8 <u>35</u>	<u>27</u>	<u>21</u>	<u>50</u>	<u>35</u>	<u>29</u>	<u>21</u>	<u>44</u>
P 9 <u>40</u>	<u>27</u>	<u>24</u>	<u>54</u>	<u>40</u>	<u>30</u>	<u>24</u>	<u>47</u>
P10 <u>45</u>	<u>27</u>	<u>27</u>	<u>58</u>	<u>45</u>	<u>30</u>	<u>27</u>	<u>51</u>
P11 <u>50</u>	<u>27</u>	<u>30</u>	<u>62</u>	<u>50</u>	<u>30</u>	<u>30</u>	<u>53</u>
P12 <u>55</u>	<u>27</u>	<u>33</u>	<u>65</u>	<u>55</u>	<u>30</u>	<u>33</u>	<u>57</u>
P13 <u>60</u>	<u>28</u>	<u>36</u>	<u>68</u>	<u>60</u>	<u>30</u>	<u>36</u>	<u>60</u>
P14		<u>39</u>	<u>72</u>			<u>39</u>	<u>61</u>
P15		<u>42</u>	<u>75</u>			<u>42</u>	<u>62</u>
P16		<u>45</u>	<u>78</u>			<u>45</u>	<u>64</u>
P17		<u>48</u>	<u>82</u>			<u>48</u>	<u>66</u>
P18		<u>51</u>	<u>85</u>			<u>51</u>	<u>69</u>
P19		<u>54</u>	<u>89</u>			<u>54</u>	<u>71</u>
P20		<u>57</u>	<u>93</u>			<u>57</u>	<u>73</u>
		<u>60</u>	<u>95</u>			<u>60</u>	<u>74</u>

TKT# 22338

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