



TIGHT HOLE

Home Office: Great Bend, Kansas

P. O. Box 793

(316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Galen Smith #1
Elevation 2609 Kelly Bushings Kansas City Effective Pay _____ Ft. Ticket No. 14801
Date 11-16-70 Sec. 11 Twp. 3S Range 29W County Decatur State Kansas
Test Approved by Jack Wharton Western Representative Jerry Allen
Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3579' to 3625' Total Depth 3625'
Size Main Hole 6 3/4" Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 3574 Ft. Size 5 3/4" Packer Depth 3579 Ft. Size 5 1/2"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 46 Ft. Size 4 1/2" O.D. Perf.
RECORDERS Depth 3617 Ft. Clock No. 8476 Depth 3620 Ft. Clock No. 8376
Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4150 No. 2607 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 1:43 A. M.
Tool Open I.F.P. From 1:45 M. to 2:00A. M. Hr. 15 Min. From (B) 51 P.S.I. To (C) 51 P.S.I.
Tool Closed I.C.I.P. From 2:00 M. to 2:30A. M. Hr. 30 Min. (D) 1227 P.S.I.
Tool Open F.F.P. From 2:30 M. to 3:30A. M. Hr. 60 Min. From (E) 59 P.S.I. To (F) 75 P.S.I.
Tool Closed F.C.I.P. From 3:30 M. to 4:00A. M. Hr. 30 Min. (G) 1079 P.S.I.
Initial Hydrostatic Pressure (A) 1876 P.S.I. Final Hydrostatic Pressure (H) 1867 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak to dead in 15 min.-Flushed tool back thru flow period Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 90 feet heavy oil cut mud with spots of free oil
Reversed Out _____ Yes _____ No Mud Type Starch Viscosity 41 Weight 9.9 Water Loss 10.5 cc. Maximum Temp. 123 °F
Type Circ. Sub. Pin Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 1879 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1680 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 66 ft.
Remarks Flushed tool during final flow period (2:35)

WESTERN TESTING CO., INC.
Pressure Data

Date 11-16-70 Test Ticket No. 14801
 Recorder No. 969 Capacity 4150 Location 3617 Ft.
 Clock No. 8476 Elevation 2609 Kelly Bushings Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1876</u> P.S.I.	Open Tool	<u>1:43</u> A. M.	
B First Initial Flow Pressure	<u>51</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>51</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1227</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>59</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>75</u> P.S.I.			
G Final Closed-in Pressure	<u>1079</u> P.S.I.			
H Final Hydrostatic Mud	<u>1867</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>75</u>
P 2 <u>5</u>	<u>50</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>90</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>139</u>	<u>10</u>	<u>63</u>	<u>6</u>	<u>120</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>377</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>174</u>
P 5 _____		<u>12</u>	<u>801</u>	<u>20</u>	<u>64</u>	<u>12</u>	<u>286</u>
P 6 _____		<u>15</u>	<u>967</u>	<u>25</u>	<u>66</u>	<u>15</u>	<u>440</u>
P 7 _____		<u>18</u>	<u>1092</u>	<u>30</u>	<u>67</u>	<u>18</u>	<u>663</u>
P 8 _____		<u>21</u>	<u>1151</u>	<u>35</u>	<u>67</u>	<u>21</u>	<u>887</u>
P 9 _____		<u>24</u>	<u>1184</u>	<u>40</u>	<u>69</u>	<u>24</u>	<u>985</u>
P10 _____		<u>27</u>	<u>1211</u>	<u>45</u>	<u>71</u>	<u>27</u>	<u>1049</u>
P11 _____		<u>30</u>	<u>1227</u>	<u>50</u>	<u>73</u>	<u>30</u>	<u>1079</u>
P12 _____				<u>55</u>	<u>74</u>		
P13 _____				<u>60</u>	<u>75</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



TIGHT HOLE

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Galen Smith #1
Elevation 2609 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 14802
Date 11-16-70 Sec. 11 Twp. 3S Range 29W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Jerry Allen
Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3627' to 3647' Total Depth 3647'
Size Main Hole 6 3/4" Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 3622 Ft. Size 5 3/4" Packer Depth 3627 Ft. Size 5 3/4"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 20 Ft. Size 4 1/2" O.D. Perf.
RECORDERS Depth 3637 Ft. Clock No. 8476 Depth 3640 Ft. Clock No. 8376
Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4150 No. 2607 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 12:48 P. M
Tool Open I.F.P. From 12:50 M. to 1:00P. M. Hr. 10 Min. From (B) 29 P.S.I. To (C) 34 P.S.I.
Tool Closed I.C.I.P. From 1:00 M. to 1:32P. M. Hr. 32 Min. (D) 1186 P.S.I.
Tool Open F.F.P. From 1:32 M. to 2:32P. M. Hr. 60 Min. From (E) 63 P.S.I. To (F) 90 P.S.I.
Tool Closed F.C.I.P. From 2:32 M. to 3:02P. M. Hr. 30 Min. (G) 989 P.S.I.
Initial Hydrostatic Pressure (A) 1896 P.S.I. Final Hydrostatic Pressure (H) 1854 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak increasing to good thru flow period Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 130 feet clean gassy oil - 80 feet mud & gas cut oil (50%)
650 feet gas in pipe
Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 41 Weight 9.9 Water Loss 10.2 cc. Maximum Temp. 128 °F
Type Circ. Sub. Pin Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 1927 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1680 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 40 ft.
Remarks Gravity 30 (corrected)

WESTERN TESTING CO., INC.
Pressure Data

Date 11-16-70 Test Ticket No. 14802
Recorder No. 2607 Capacity 4150 Location 3640 Ft.
Clock No. 8376 Elevation 2609 Kelly Bushings Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1896</u> P.S.I.	Open Tool	<u>12:48</u> P.M.	
B First Initial Flow Pressure	<u>29</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>32</u> Mins.	<u>35</u> Mins.
D Initial Closed-in Pressure	<u>1186</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</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>90</u> P.S.I.			
G Final Closed-in Pressure	<u>989</u> P.S.I.			
H Final Hydrostatic Mud	<u>1854</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</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 _____ Min.		final inc. of <u>2</u> Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>90</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>175</u>	<u>5</u>	<u>63</u>	<u>3</u>	<u>198</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>574</u>	<u>10</u>	<u>64</u>	<u>6</u>	<u>489</u>
P 4 _____		<u>9</u>	<u>893</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>670</u>
P 5 _____		<u>12</u>	<u>995</u>	<u>20</u>	<u>71</u>	<u>12</u>	<u>793</u>
P 6 _____		<u>15</u>	<u>1052</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>853</u>
P 7 _____		<u>18</u>	<u>1087</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>889</u>
P 8 _____		<u>21</u>	<u>1112</u>	<u>35</u>	<u>81</u>	<u>21</u>	<u>924</u>
P 9 _____		<u>24</u>	<u>1137</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>948</u>
P10 _____		<u>27</u>	<u>1154</u>	<u>45</u>	<u>86</u>	<u>27</u>	<u>968</u>
P11 _____		<u>30</u>	<u>1171</u>	<u>50</u>	<u>88</u>	<u>30</u>	<u>989</u>
P12 _____		<u>33</u>	<u>1181</u>	<u>55</u>	<u>89</u>		
P13 _____		<u>35</u>	<u>1186</u>	<u>60</u>	<u>90</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Abercrombie Drilling Inc.
Galen Smith #1 Decatur Co.
DST #2 3627-3647

400.0 psi Slope Cycle

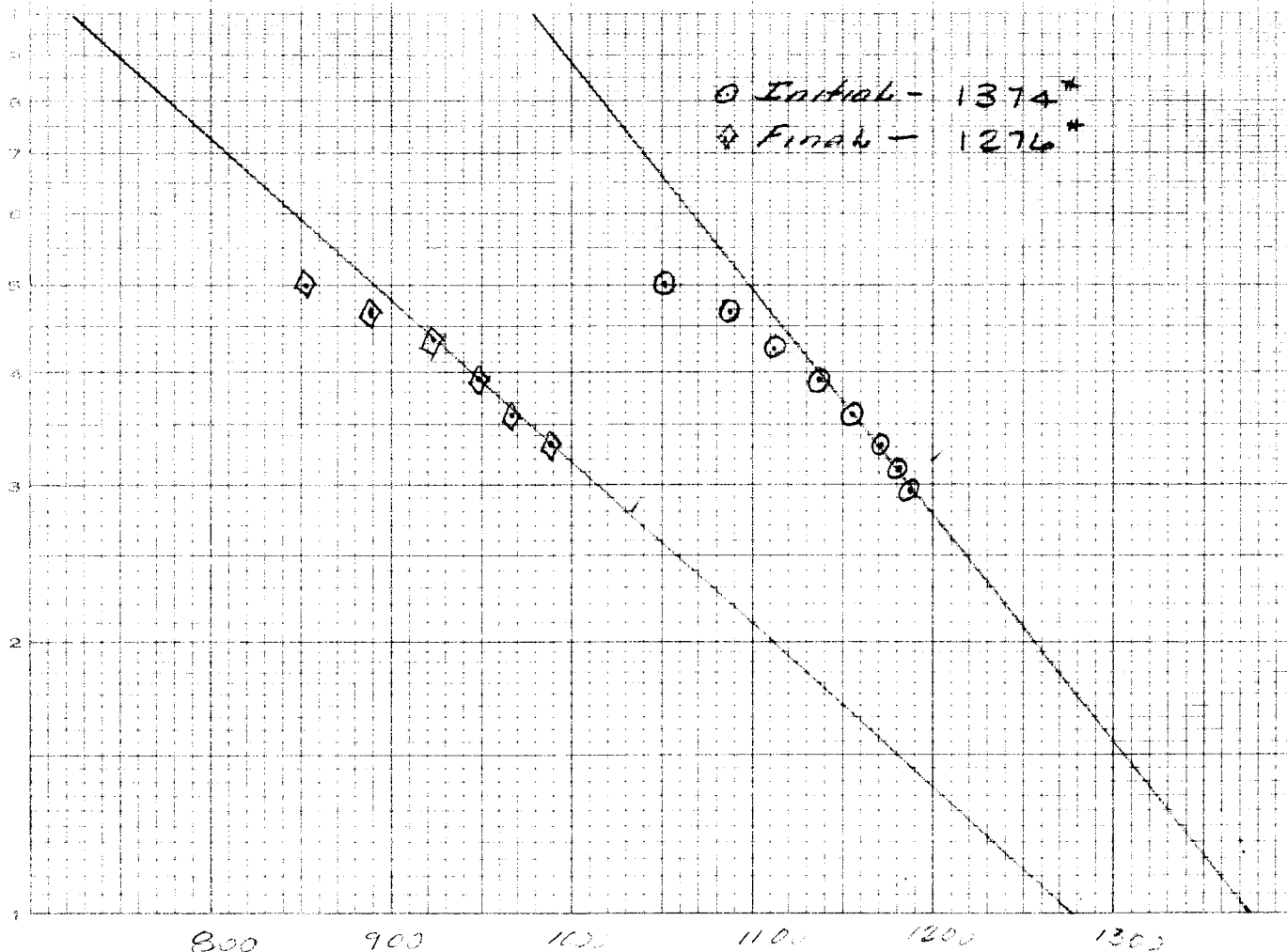
1.0 Damage

1.2 bbls per hour

28.8 " " day-

14.0 Average permeability

7.0 Millidarcy ft per 2 ft Effective Pay





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Abercrombie Drilling Inc. Lease & Well No. Galen Smith #1
Elevation 2609 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 14803
Date 11-17-70 Sec. 11 Twp. 3S Range 29W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Jerry Allen
Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 3665' to 3735' Total Depth 3735'
Size Main Hole 6 3/4" at Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 3660 Ft. Size 5 3/4" Packer Depth 3665 Ft. Size 5 1/2"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 70 Ft. Size 4 1/2" O.D. 30" W.P.
RECORDERS Depth 3727 Ft. Clock No. 8476 Depth 3730 Ft. Clock No. 8376
Top Make Kuster Cap. 4150 No. 969 Inside _____ Outside _____ Bottom Make Kuster Cap. 4150 No. 2607 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 6:58 A.M.
Tool Open I.F.P. From 7:00 M. to 7:15A. M. Hr. 15 Min. From (B) 57 P.S.I. To (C) 59 P.S.I.
Tool Closed I.C.I.P. From 7:15 M. to 7:45A. M. Hr. 30 Min. (D) 959 P.S.I.
Tool Open F.F.P. From 7:45 M. to 8:15A. M. Hr. 30 Min. From (E) 61 P.S.I. To (F) 67 P.S.I.
Tool Closed F.C.I.P. From 8:15 M. to 8:45A. M. Hr. 30 Min. (G) 418 P.S.I.
Initial Hydrostatic Pressure (A) 1972 P.S.I. Final Hydrostatic Pressure (H) 1951 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak to dead in 15 min. Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 10 feet slightly oil cut mud
Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 43 Weight 9.9 Water Loss 10.1 cc. Maximum Temp. 128 °F
Type Circ. Sub. Pin Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 1965 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1680 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 90 ft.
Remarks Flushed tool during final flow pressure

WESTERN TESTING CO., INC.

Pressure Data

Date 11-17-70 Test Ticket No. 14803

Recorder No. 969 Capacity 4150 Location 3727 Ft.

Clock No. 8476 Elevation 2609 Kelly Bushings Well Temperature 128 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1972</u> P.S.I.	<u>6:58</u> A. M.	
B First Initial Flow Pressure	<u>57</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>959</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>67</u> P.S.I.		
G Final Closed-in Pressure	<u>418</u> P.S.I.		
H Final Hydrostatic Mud	<u>1951</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>57</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>67</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>118</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>71</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>284</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>81</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>471</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>100</u>
P 5 _____		<u>12</u>	<u>620</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>128</u>
P 6 _____		<u>15</u>	<u>731</u>	<u>25</u>	<u>67</u>	<u>15</u>	<u>169</u>
P 7 _____		<u>18</u>	<u>807</u>	<u>30</u>	<u>67</u>	<u>18</u>	<u>219</u>
P 8 _____		<u>21</u>	<u>866</u>			<u>21</u>	<u>274</u>
P 9 _____		<u>24</u>	<u>911</u>			<u>24</u>	<u>342</u>
P10 _____		<u>27</u>	<u>936</u>			<u>27</u>	<u>387</u>
P11 _____		<u>30</u>	<u>959</u>			<u>30</u>	<u>418</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

TKT-14801-6



1602

I-12811

TBT-14802-2



TKT-14802-I

2
6
0
7

TKT-11423-0



9
6
9

14863-I