

Company Boswell Energy Corporation Lease & Well No. Smith #1-33
Elevation 1352 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 7805
Date 10/26/80 Sec. 33 Twp. 28S Range 4W County Sedgwick State Kansas
Test Approved by Scott Banks Western Representative Allen Edgington
Formation Test No. 1 Interval Tested from 3300 ft. to 3320 ft. Total Depth 3320 ft.
Packer Depth 3295 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3300 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3310 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 3313 ft. Recorder Number 10980 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor DNB Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type chemical Viscosity 35 Weight Pipe Length 600 I. D. 2 1/4 in.
Weight 9.3 Water Loss 32 cc. Drill Pipe Length 2697 I. D. 3.8 in.
Chlorides 30,000 P.P.M. Test Tool Length 28 ft. Tool Size 4 1/2 OD in.
Jars: Make WTC Serial Number 404 Anchor Length 20 ft. Size 4 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 FH in.

Blow: Strong blow for twenty-two minutes.

Recovered 1100 ft. of slightly gas cut salt water

Recovered ft. of 115,000 ppm chlorides

Recovered ft. of .1 resistivity @ 60° F

Recovered ft. of

Recovered ft. of

Remarks: At start of first opening had trouble with blow and flushed tool.

Time Set Packer(s) 6:45 A.M. Time Started Off Bottom 9:45 A.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 1606 P.S.I.
Initial Flow Period Minutes 40 (B) 72 P.S.I. to (C) 367 P.S.I.
Initial Closed In Period Minutes 45 (D) 1396 P.S.I.
Final Flow Period Minutes 45 (E) 395 P.S.I. to (F) 563 P.S.I.
Final Closed In Period Minutes 63 (G) 1396 P.S.I.
Final Hydrostatic Pressure (H) 1606 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/26/80 Test Ticket No. 7805
 Recorder No. 3354 Capacity 4200 Location 3320 Ft.
 Clock No. --- Elevation 1352 Kelly Bushing Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1606</u> P.S.I.	Open Tool	<u>6:45P</u> M	
B First Initial Flow Pressure	<u>72</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>40</u> Mins.
C First Final Flow Pressure	<u>367</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1396</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>395</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>563</u> P.S.I.			
G Final Closed-in Pressure	<u>1396</u> P.S.I.			
H Final Hydrostatic Mud	<u>1606</u> P.S.I.			

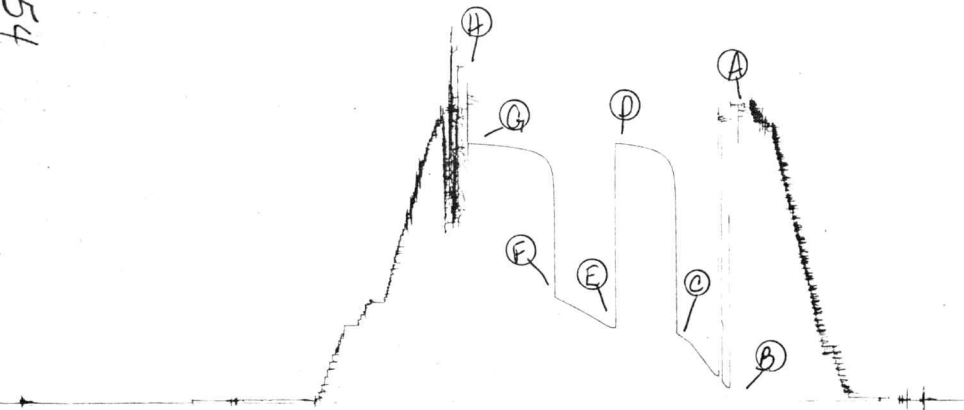
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</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>72</u>	<u>0</u>	<u>367</u>	<u>0</u>	<u>395</u>	<u>0</u>	<u>563</u>
P 2 <u>5</u>	<u>103</u>	<u>3</u>	<u>1207</u>	<u>5</u>	<u>405</u>	<u>3</u>	<u>1245</u>
P 3 <u>10</u>	<u>141</u>	<u>6</u>	<u>1283</u>	<u>10</u>	<u>426</u>	<u>6</u>	<u>1291</u>
P 4 <u>15</u>	<u>181</u>	<u>9</u>	<u>1314</u>	<u>15</u>	<u>447</u>	<u>9</u>	<u>1321</u>
P 5 <u>20</u>	<u>226</u>	<u>12</u>	<u>1335</u>	<u>20</u>	<u>468</u>	<u>12</u>	<u>1335</u>
P 6 <u>25</u>	<u>274</u>	<u>15</u>	<u>1348</u>	<u>25</u>	<u>489</u>	<u>15</u>	<u>1346</u>
P 7 <u>30</u>	<u>319</u>	<u>18</u>	<u>1357</u>	<u>30</u>	<u>511</u>	<u>18</u>	<u>1354</u>
P 8 <u>35</u>	<u>344</u>	<u>21</u>	<u>1363</u>	<u>35</u>	<u>530</u>	<u>21</u>	<u>1359</u>
P 9 <u>40</u>	<u>367</u>	<u>24</u>	<u>1369</u>	<u>40</u>	<u>546</u>	<u>24</u>	<u>1363</u>
P10		<u>27</u>	<u>1376</u>	<u>45</u>	<u>563</u>	<u>27</u>	<u>1369</u>
P11		<u>30</u>	<u>1380</u>			<u>30</u>	<u>1371</u>
P12		<u>33</u>	<u>1384</u>			<u>33</u>	<u>1374</u>
P13		<u>36</u>	<u>1387</u>			<u>36</u>	<u>1379</u>
P14		<u>39</u>	<u>1390</u>			<u>39</u>	<u>1381</u>
P15		<u>42</u>	<u>1392</u>			<u>42</u>	<u>1384</u>
P16		<u>45</u>	<u>1396</u>			<u>45</u>	<u>1386</u>
P17						<u>48</u>	<u>1388</u>
P18						<u>51</u>	<u>1390</u>
P19						<u>54</u>	<u>1392</u>
P20						<u>57</u>	<u>1394</u>
						<u>60</u>	<u>1396</u>
						<u>63</u>	<u>1396</u>

TK# 7805

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3354



Company Boswell Energy Corporation Lease & Well No. Smith #1-33
Elevation 1352 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 7809
Date 10-30-80 Sec. 33 Twp. 28S Range 4W County Sedgwick State Kansas
Test Approved by Scott Banks Western Representative Allen Edgington
Formation Test No. 2 Interval Tested from 4260 ft. to 4275 ft. Total Depth 4275 ft.
Packer Depth 4255 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4260 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4267 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4270 ft. Recorder Number 10980 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor DNB Rig #3 Drill Collar Length - I. D. - in.
Mud Type Chemical Viscosity 41 Weight Pipe Length 600 I. D. 2 1/4 in.
Weight 9.5 Water Loss 10.5 cc. Drill Pipe Length 4002 I. D. 3.8 in.
Chlorides 21,000 P.P.M. Test Tool Length 28 ft. Tool Size 4 1/2 in.
Jars: Make WTC Serial Number 404 Anchor Length 15 ft. Size 4 1/2 in.
Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout test.

Recovered 90 ft. of slightly gas
Recovered 120 ft. of slightly gas cut muddy water
Recovered 1660 ft. of salt water slightly gas cut Chlorides 57,000 PPM
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 7:15 A.M. Time Started Off Bottom 10:30 P.M. Maximum Temperature 131
Initial Hydrostatic Pressure (A) 2025 P.S.I.
Initial Flow Period Minutes 30 (B) 87 P.S.I. to (C) 563 P.S.I.
Initial Closed In Period Minutes 48 (D) 1661 P.S.I.
Final Flow Period Minutes 60 (E) 587 P.S.I. to (F) 1068 P.S.I.
Final Closed In Period Minutes 60 (G) 1659 P.S.I.
Final Hydrostatic Pressure (H) 2017 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/30/80

Test Ticket No. 7809

Recorder No. 3354

Capacity 4200

Location 4267 Ft.

Clock No. ----- Elevation

1352 Kelly Bushing

Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2025</u> P.S.I.	Open Tool	<u>7:15A</u> M	
B First Initial Flow Pressure	<u>87</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>563</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1661</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>587</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1068</u> P.S.I.			
G Final Closed-in Pressure	<u>1659</u> P.S.I.			
H Final Hydrostatic Mud	<u>2017</u> P.S.I.			

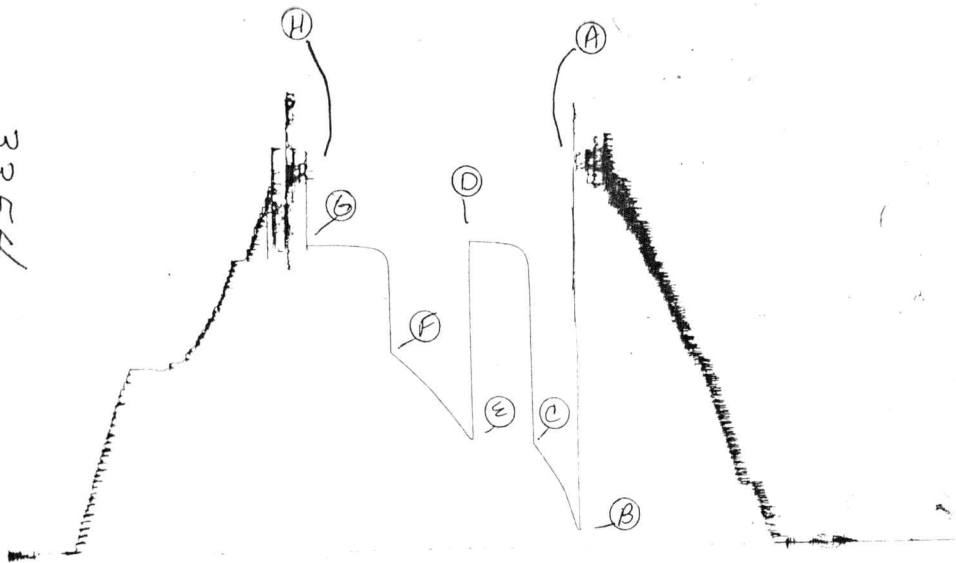
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</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>87</u>	<u>0</u>	<u>563</u>	<u>0</u>	<u>587</u>	<u>0</u>	<u>1068</u>
P 2 <u>5</u>	<u>169</u>	<u>3</u>	<u>1508</u>	<u>5</u>	<u>622</u>	<u>3</u>	<u>1568</u>
P 3 <u>10</u>	<u>291</u>	<u>6</u>	<u>1583</u>	<u>10</u>	<u>679</u>	<u>6</u>	<u>1608</u>
P 4 <u>15</u>	<u>361</u>	<u>9</u>	<u>1612</u>	<u>15</u>	<u>724</u>	<u>9</u>	<u>1625</u>
P 5 <u>20</u>	<u>418</u>	<u>12</u>	<u>1627</u>	<u>20</u>	<u>770</u>	<u>12</u>	<u>1633</u>
P 6 <u>25</u>	<u>477</u>	<u>15</u>	<u>1636</u>	<u>25</u>	<u>816</u>	<u>15</u>	<u>1638</u>
P 7 <u>30</u>	<u>563</u>	<u>18</u>	<u>1640</u>	<u>30</u>	<u>859</u>	<u>18</u>	<u>1642</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>1644</u>	<u>35</u>	<u>897</u>	<u>21</u>	<u>1644</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>1648</u>	<u>40</u>	<u>935</u>	<u>24</u>	<u>1646</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>1650</u>	<u>45</u>	<u>970</u>	<u>27</u>	<u>1648</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>1652</u>	<u>50</u>	<u>1004</u>	<u>30</u>	<u>1650</u>
P12 <u> </u>	<u> </u>	<u>33</u>	<u>1654</u>	<u>55</u>	<u>1040</u>	<u>33</u>	<u>1652</u>
P13 <u> </u>	<u> </u>	<u>36</u>	<u>1656</u>	<u>60</u>	<u>1068</u>	<u>36</u>	<u>1654</u>
P14 <u> </u>	<u> </u>	<u>39</u>	<u>1658</u>	<u> </u>	<u> </u>	<u>39</u>	<u>1655</u>
P15 <u> </u>	<u> </u>	<u>42</u>	<u>1660</u>	<u> </u>	<u> </u>	<u>42</u>	<u>1656</u>
P16 <u> </u>	<u> </u>	<u>45</u>	<u>1661</u>	<u> </u>	<u> </u>	<u>45</u>	<u>1657</u>
P17 <u> </u>	<u> </u>	<u>48</u>	<u>1661</u>	<u> </u>	<u> </u>	<u>48</u>	<u>1657</u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>51</u>	<u>1658</u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>54</u>	<u>1658</u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>57</u>	<u>1659</u>
						<u>60</u>	<u>1659</u>

IA # 7805

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3354



Company Boswell Energy Corporation Lease & Well No. Smith #1-33
Elevation 1352 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 7779
Date 10-31-80 Sec. 33 Twp. 28S Range 4W County Sedgwick State Kansas
Test Approved by Scott Banks Western Representative Kenny Kirkendall

Formation Test No. 3 Interval Tested from 3840 ft. to 3874 ft. Total Depth 4410 ft.
Packer Depth 3835 ft. Size 6 3/4 in. Packer Depth 3874 ft. Size 6 3/4 in.
Packer Depth 3840 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside)	<u>3845</u> ft.	Recorder Number	<u>2605</u>	Cap.	<u>4150</u>
Bottom Recorder Depth (Outside)	<u>3850</u> ft.	Recorder Number	<u>1560</u>	Cap.	<u>4500</u>
Below Straddle Recorder Depth	<u>4410</u> ft.	Recorder Number	<u>-</u>	Cap.	<u>-</u>
Drilling Contractor	<u>DNB #3</u>	Drill Collar Length	<u>150</u>	I. D.	<u>-</u> in.
Mud Type	<u>Drispac</u>	Viscosity	<u>N/A</u>	Weight Pipe Length	<u>600</u> I. D. <u>-</u> in.
Weight	<u>N/A</u>	Water Loss	<u>N/A</u> cc.	Drill Pipe Length	<u>3494</u> I. D. <u>-</u> in.
Chlorides	<u>N/A</u>	P.P.M.		Test Tool Length	<u>66</u> ft. Tool Size <u>5 1/2</u> in.
Jars: Make	<u>WTC</u>	Serial Number	<u>408</u>	Anchor Length	<u>34</u> ft. Size <u>5 1/2</u> in.
Did Well Flow?	<u>No</u>	Reversed Out	<u>Yes</u>	Surface Choke Size	<u>3/4</u> in. Bottom Choke Size <u>3/4</u> in.
				Main Hole Size	<u>7 7/8</u> in. Tool Joint Size <u>4 1/2</u> FH in.

Blow: Weak blow throughout test.

Recovered 1140 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s)	<u>5:45</u> A.M. P.M.	Time Started Off Bottom	<u>8:45</u> A.M. P.M.	Maximum Temperature	<u>-</u>
Initial Hydrostatic Pressure	(A)	<u>1887</u>	P.S.I.		
Initial Flow Period	Minutes <u>30</u>	(B)	<u>59</u>	P.S.I. to (C)	<u>301</u> P.S.I.
Initial Closed In Period	Minutes <u>45</u>	(D)	<u>1450</u>	P.S.I.	
Final Flow Period	Minutes <u>45</u>	(E)	<u>358</u>	P.S.I. to (F)	<u>548</u> P.S.I.
Final Closed In Period	Minutes <u>66</u>	(G)	<u>1454</u>	P.S.I.	
Final Hydrostatic Pressure	(H)	<u>1887</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 10-31-80 Recorder No. 2605 Capacity 4150 Test Ticket No. 7779
 Clock No. - Elevation 1352 Kelly Bushing Location 3845 Ft. -
 Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1887</u>	P.S.I.	<u>5:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>301</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1450</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>358</u>	P.S.I.	<u>60</u>	<u>66</u> Mins.
F Second Final Flow Pressure	<u>548</u>	P.S.I.		
G Final Closed-in Pressure	<u>1454</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1887</u>	P.S.I.		

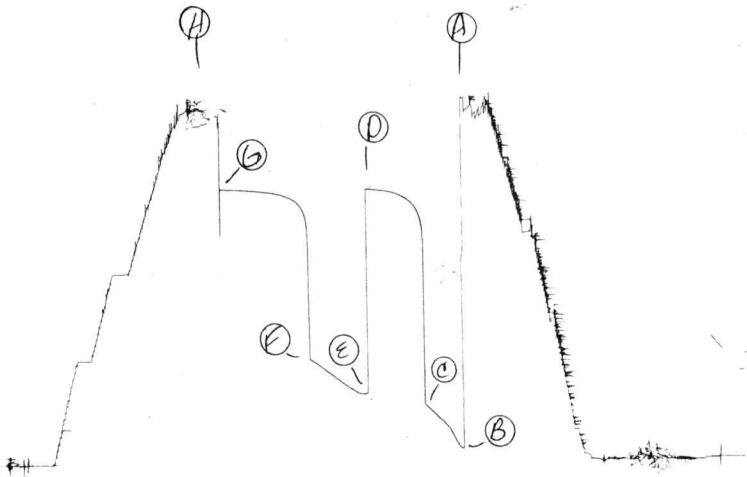
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>22</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>59</u>	<u>0</u>	<u>301</u>	<u>0</u>	<u>358</u>	<u>0</u>	<u>548</u>
P 2 <u>5</u>	<u>95</u>	<u>3</u>	<u>1124</u>	<u>5</u>	<u>362</u>	<u>3</u>	<u>1230</u>
P 3 <u>10</u>	<u>167</u>	<u>6</u>	<u>1304</u>	<u>10</u>	<u>381</u>	<u>6</u>	<u>1323</u>
P 4 <u>15</u>	<u>210</u>	<u>9</u>	<u>1346</u>	<u>15</u>	<u>405</u>	<u>9</u>	<u>1363</u>
P 5 <u>20</u>	<u>241</u>	<u>12</u>	<u>1375</u>	<u>20</u>	<u>432</u>	<u>12</u>	<u>1386</u>
P 6 <u>25</u>	<u>280</u>	<u>15</u>	<u>1396</u>	<u>25</u>	<u>455</u>	<u>15</u>	<u>1398</u>
P 7 <u>30</u>	<u>301</u>	<u>18</u>	<u>1406</u>	<u>30</u>	<u>483</u>	<u>18</u>	<u>1408</u>
P 8		<u>21</u>	<u>1419</u>	<u>35</u>	<u>512</u>	<u>21</u>	<u>1417</u>
P 9		<u>24</u>	<u>1425</u>	<u>40</u>	<u>537</u>	<u>24</u>	<u>1425</u>
P10		<u>27</u>	<u>1433</u>	<u>45</u>	<u>548</u>	<u>27</u>	<u>1429</u>
P11		<u>30</u>	<u>1438</u>			<u>30</u>	<u>1433</u>
P12		<u>33</u>	<u>1442</u>			<u>33</u>	<u>1436</u>
P13		<u>36</u>	<u>1444</u>			<u>36</u>	<u>1439</u>
P14		<u>39</u>	<u>1446</u>			<u>39</u>	<u>1442</u>
P15		<u>42</u>	<u>1448</u>			<u>42</u>	<u>1444</u>
P16		<u>45</u>	<u>1450</u>			<u>45</u>	<u>1446</u>
P17						<u>48</u>	<u>1448</u>
P18						<u>51</u>	<u>1450</u>
P19						<u>54</u>	<u>1452</u>
P20						<u>57</u>	<u>1453</u>
						<u>60</u>	<u>1454</u>
						<u>63</u>	<u>1454</u>
						<u>66</u>	<u>1454</u>

Sket # 7779

2605

I



TK1 # 7779
Below Straddle

105

TKT # 7779
Below Straddle