

Company Aspen Oil, Inc. Lease & Well No. Hay #2  
 Elevation 1278 Kelly Bushing Formation Mississippi Dolomite Effective Pay - Ft. Ticket No. 10387  
 Date 11/24/81 Sec. 6 Twp. 29S Range 1E County Sedgwick State Kansas  
 Test Approved by Wesley Hansen Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 3192 ft. to 3231 ft. Total Depth 3231 ft.  
 Packer Depth 3187 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3192 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) AP 3177 ft. Recorder Number 5666 Cap. 3950  
 Bottom Recorder Depth (Outside) AP 3181 ft. Recorder Number 3350 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aspen Rig #1 Drill Collar Length 171 I. D. 2 1/4 in.  
 Mud Type Chemical Viscosity 49 Weight Pipe Length - I. D. - in.  
 Weight 10.7 Water Loss - cc. Drill Pipe Length 2997 I. D. 3.8 in.  
 Chlorides 5500 P.P.M. Test Tool Length 29 ft. Tool Size 4 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 39 ft. Size 4 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 XH FH in.

Blow: Strong throughout test.

Recovered 710 ft. of gas in pipe  
 Recovered 70 ft. of oil & gas cut mud - 25% oil  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 8:15 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 11:15 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 106  
 Initial Hydrostatic Pressure 1745 (A) P.S.I.  
 Initial Flow Period 30 Minutes (B) 33 P.S.I. to (C) 37 P.S.I.  
 Initial Closed In Period 57 Minutes (D) 1279 P.S.I.  
 Final Flow Period 30 Minutes (E) 51 P.S.I. to (F) 52 P.S.I.  
 Final Closed In Period 63 Minutes (G) 843 P.S.I.  
 Final Hydrostatic Pressure 1715 (H) P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11/24/81 Test Ticket No. 10387  
 Recorder No. 5666 Capacity 3950 Location 3177 Ft.  
 Clock No. - Elevation 1278 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1745</u>	P.S.I.	<u>8:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u>	P.S.I.	<u>60</u>	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1279</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>51</u>	P.S.I.	<u>60</u>	<u>63</u> Mins.
F Second Final Flow Pressure	<u>52</u>	P.S.I.		
G Final Closed-in Pressure	<u>843</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1715</u>	P.S.I.		

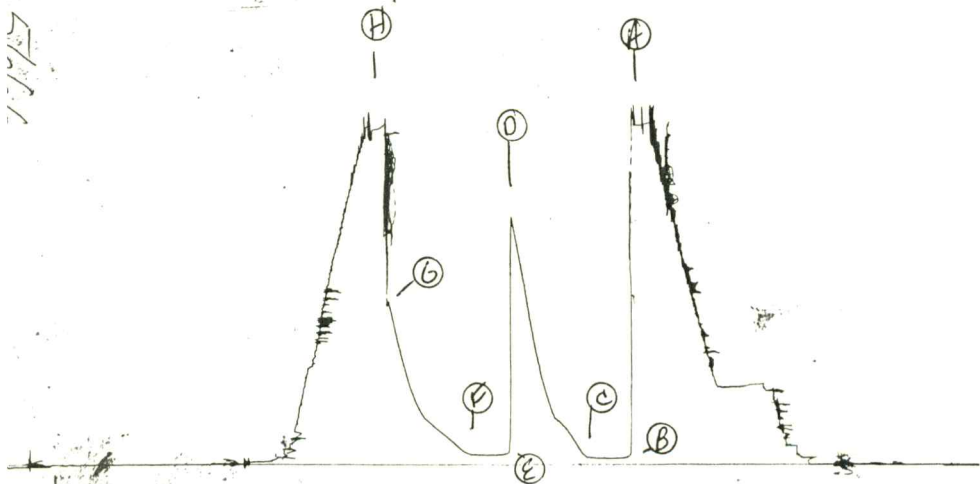
### PRESSURE BREAKDOWN

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>52</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>58</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>75</u>	<u>10</u>	<u>51</u>	<u>6</u>	<u>67</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>105</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>84</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>143</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>102</u>
P 6 <u>25</u>	<u>35</u>	<u>15</u>	<u>176</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>118</u>
P 7 <u>30</u>	<u>37</u>	<u>18</u>	<u>200</u>	<u>30</u>	<u>52</u>	<u>18</u>	<u>137</u>
P 8		<u>21</u>	<u>224</u>			<u>21</u>	<u>155</u>
P 9		<u>24</u>	<u>239</u>			<u>24</u>	<u>171</u>
P10		<u>27</u>	<u>286</u>			<u>27</u>	<u>190</u>
P11		<u>30</u>	<u>353</u>			<u>30</u>	<u>210</u>
P12		<u>33</u>	<u>431</u>			<u>33</u>	<u>229</u>
P13		<u>36</u>	<u>526</u>			<u>36</u>	<u>253</u>
P14		<u>39</u>	<u>624</u>			<u>39</u>	<u>288</u>
P15		<u>42</u>	<u>743</u>			<u>42</u>	<u>337</u>
P16		<u>45</u>	<u>867</u>			<u>45</u>	<u>388</u>
P17		<u>48</u>	<u>986</u>			<u>48</u>	<u>457</u>
P18		<u>51</u>	<u>1096</u>			<u>51</u>	<u>530</u>
P19		<u>54</u>	<u>1205</u>			<u>54</u>	<u>622</u>
P20		<u>57</u>	<u>1279</u>			<u>57</u>	<u>715</u>
						<u>60</u>	<u>809</u>
						<u>63</u>	<u>843</u>

TKT # 10387

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Company Aspen Oil, Inc. Lease & Well No. Hay #2  
 Elevation 1278 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 12782  
 Date 11/30/81 Sec. 6 Twp. 29S Range 1E County Sedgwick State Kansas  
 Test Approved by Raymond Cummings Western Representative Kenny Kirkendall & Allen Edgington

Formation Test No. 2 Interval Tested from 3568 ft. to 3640 ft. Total Depth 3640 ft.  
 Packer Depth 3568 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3563 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3573 ft. Recorder Number 2605 Cap. 4150  
 Bottom Recorder Depth (Outside) 3576 ft. Recorder Number 10979 Cap. 4100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Aspen Drilling Rig #4 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 50 Weight Pipe Length - I. D. - in.  
 Weight 10.3 Water Loss 34 cc. Drill Pipe Length 3562 I. D. 3.8 in.  
 Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 72 ft. Size 5 1/2 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 XH + 1/2 F

Blow: Weak throughout test. (one fourth inch in water)

Recovered 30 ft. of drilling mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s)	<u>10:45</u>	<u>A.M.</u>	Time Started Off Bottom	<u>2:00</u>	<u>A.M.</u>	Maximum Temperature	<u>115°</u>
Initial Hydrostatic Pressure		<u>P.M.</u>		<u>2002</u>	<u>P.M.</u>		
Initial Flow Period			Minutes	<u>30</u>		<u>32</u>	P.S.I.
Initial Closed In Period			Minutes	<u>72</u>			P.S.I.
Final Flow Period			Minutes	<u>35</u>		<u>37</u>	P.S.I.
Final Closed In Period			Minutes	<u>57</u>			P.S.I.
Final Hydrostatic Pressure				<u>1992</u>			P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11/30/81 Test Ticket No. 12782  
 Recorder No. 10979 Capacity 4100 Location 3576 Ft.  
 Clock No. - Elevation 1278 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2002</u> P.S.I.	Open Tool	<u>10:45A</u>	
B. First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>70</u> Mins.	<u>72</u> Mins.
D. Initial Closed-in Pressure	<u>853</u> P.S.I.	Second Flow Pressure	<u>35</u> Mins.	<u>35</u> Mins.
E. Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F. Second Final Flow Pressure	<u>37</u> P.S.I.			
G. Final Closed-in Pressure	<u>592</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1992</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: 24 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 7 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 19 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>32</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>37</u>
P 2 <u>5</u>	<u>32</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>32</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>35</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>32</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>37</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>38</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>41</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>45</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>50</u>
P 7 <u>30</u>	<u>32</u>	<u>18</u>	<u>55</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>61</u>
P 8 _____		<u>21</u>	<u>71</u>	<u>35</u>	<u>37</u>	<u>21</u>	<u>75</u>
P 9 _____		<u>24</u>	<u>97</u>			<u>24</u>	<u>105</u>
P10 _____		<u>27</u>	<u>142</u>			<u>27</u>	<u>140</u>
P11 _____		<u>30</u>	<u>190</u>			<u>30</u>	<u>186</u>
P12 _____		<u>33</u>	<u>241</u>			<u>33</u>	<u>230</u>
P13 _____		<u>36</u>	<u>305</u>			<u>36</u>	<u>285</u>
P14 _____		<u>39</u>	<u>372</u>			<u>39</u>	<u>331</u>
P15 _____		<u>42</u>	<u>425</u>			<u>42</u>	<u>379</u>
P16 _____		<u>45</u>	<u>481</u>			<u>45</u>	<u>423</u>
P17 _____		<u>48</u>	<u>539</u>			<u>48</u>	<u>469</u>
P18 _____		<u>51</u>	<u>591</u>			<u>51</u>	<u>508</u>
P19 _____		<u>54</u>	<u>637</u>			<u>54</u>	<u>546</u>
P20 _____		<u>57</u>	<u>693</u>			<u>57</u>	<u>592</u>
		<u>60</u>	<u>732</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date 11/30/81 Test Ticket No. 12782  
 Recorder No. 10979 Capacity 4100 Location 3576 Ft.  
 Clock No. - Elevation 1278 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2002</u>	P.S.I.	<u>10:45A</u>	<u>M</u>
B First Initial Flow Pressure	<u>32</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>32</u>	P.S.I.	<u>70</u>	<u>72</u>
D Initial Closed-in Pressure	<u>853</u>	P.S.I.	<u>35</u>	<u>35</u>
E Second Initial Flow Pressure	<u>37</u>	P.S.I.	<u>60</u>	<u>57</u>
F Second Final Flow Pressure	<u>37</u>	P.S.I.		
G Final Closed-in Pressure	<u>592</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1992</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.
	<u>6</u>	<u>Inc.</u>	<u>24</u>	<u>Inc.</u>	<u>7</u>	<u>Inc.</u>	<u>19</u>	<u>Inc.</u>
	<u>5</u>	<u>mins. and a</u>	<u>3</u>	<u>mins. and a</u>	<u>5</u>	<u>mins. and a</u>	<u>3</u>	<u>mins. and a</u>
	<u>0</u>	<u>final inc. of</u>	<u>0</u>	<u>final inc. of</u>	<u>0</u>	<u>final inc. of</u>	<u>0</u>	<u>final inc. of</u>
		<u>Min.</u>		<u>Min.</u>		<u>Min.</u>		<u>Min.</u>
Point	Press.	Point	Press.	Point	Press.	Point	Press.	
P 1		63	767					
P 2		66	802					
P 3		69	836					
P 4		72	853					
P 5								
P 6								
P 7								
P 8								
P 9								
P10								
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 12782  
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Company Aspen Oil, Inc. Lease & Well No. Hay #2  
 Elevation 1277 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 9997  
 Date 12/ 2 /81 Sec. 6 Twp. 29S Range 1E County Sedgwick State Kansas  
 Test Approved by Wesley Hansen Western Representative Norman Allen

Formation Test No. 3 Interval Tested from 3671 ft. to 3715 ft. Total Depth 3740 ft.  
 Packer Depth 3661 ft. Size 6 3/4 in. Packer Depth 3710 ft. Size 6 -3/4 in.  
 Packer Depth 3666 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3361 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 3358 ft. Recorder Number 13268 Cap. 4225  
 Below Straddle Recorder Depth 3730 ft. Recorder Number 10979 Cap. 4100

Drilling Contractor Aspen Drlg. Co. Rig #4 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.  
 Weight 10.4 Water Loss - cc. Drill Pipe Length 3651 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 89 ft. Tool Size 5 1/2 OD & DP in.  
 Jars: Make - Serial Number - Anchor Length 44 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH&XH in.

Blow: Fair blow throughout test.

Recovered 175 ft. of salt water Chlorides 35,000 ppm  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 5:30 ~~AM~~ P.M. Time Started Off Bottom 8:30 ~~AM~~ P.M. Maximum Temperature 116°  
 Initial Hydrostatic Pressure ..... (A) 2078 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 35 P.S.I. to (C) 54 P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) 1462 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 82 P.S.I. to (F) 95 P.S.I.  
 Final Closed In Period ..... Minutes 57 (G) 1444 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2078 P.S.I.

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

Date 12/2/81 Test Ticket No. 9997  
 Recorder No. 1559 Capacity 4200 Location 3361 Ft.  
 Clock No. - Elevation 1277 Kelly Bushing Well Temperature 116 °F

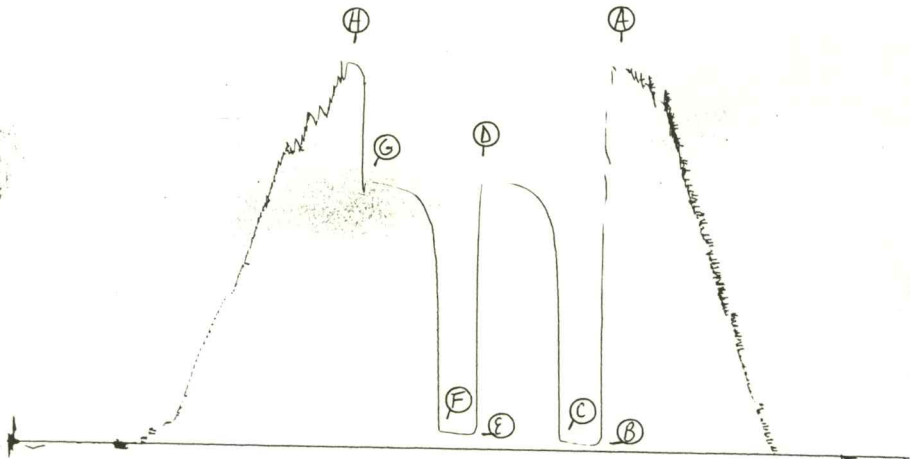
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2078	P.S.I.	5:30P	M
B First Initial Flow Pressure	35	P.S.I.	30	30
C First Final Flow Pressure	54	P.S.I.	60	60
D Initial Closed-in Pressure	1462	P.S.I.	30	30
E Second Initial Flow Pressure	82	P.S.I.	60	57
F Second Final Flow Pressure	95	P.S.I.		
G Final Closed-in Pressure	1444	P.S.I.		
H Final Hydrostatic Mud	2078	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.
	6		20		6		19	
	of 5 mins.	and a	of 3 mins.	and a	of 5 mins.	and a	of 3 mins.	and a
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	35	0	54	0	82	0	95	
P 2 5	35	3	835	5	82	3	1082	
P 3 10	35	6	1096	10	82	6	1227	
P 4 15	38	9	1232	15	86	9	1278	
P 5 20	42	12	1290	20	90	12	1319	
P 6 25	48	15	1331	25	93	15	1351	
P 7 30	54	18	1365	30	95	18	1373	
P 8		21	1386			21	1387	
P 9		24	1405			24	1397	
P10		27	1420			27	1403	
P11		30	1429			30	1410	
P12		33	1438			33	1417	
P13		36	1444			36	1423	
P14		39	1448			39	1430	
P15		42	1452			42	1434	
P16		45	1454			45	1437	
P17		48	1456			48	1440	
P18		51	1458			51	1442	
P19		54	1460			54	1443	
P20		57	1461			57	1444	
		60	1462					

TKT # 9997

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TKT # 9997

Below straddle

OST #

19940



Company Aspen Oil, Inc. Lease & Well No. Hay #2  
 Elevation 1277 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 9998  
 Date 12/ 3 /81 Sec. 6 Twp. 29S Range 1E County Sedgwick State Kansas  
 Test Approved by Wesley Hansen Western Representative Norman Allen

Formation Test No. 4 Interval Tested from 3220 ft. to 3235 ft. Total Depth 3740 ft.  
 Packer Depth 3215 ft. Size 6 3/4 in. Packer Depth 3235 ft. Size 6 3/4 in.  
 Packer Depth 3220 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3224 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 3227 ft. Recorder Number 13268 Cap. 4225  
 Below Straddle Recorder Depth 3240 ft. Recorder Number 10979 Cap. 4100

Drilling Contractor Aspen Drlg. Co. Rig #4 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.  
 Weight 10.4 Water Loss - cc. Drill Pipe Length 3200 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 540 ft. Tool Size 5 1/2 OD & DP in.  
 Jars: Make - Serial Number - Anchor Length 15 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 Tool Joint Size 4 1/2 FH&KH

Blow: MISRUN PACKER SEAT FAILED TO HOLD

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

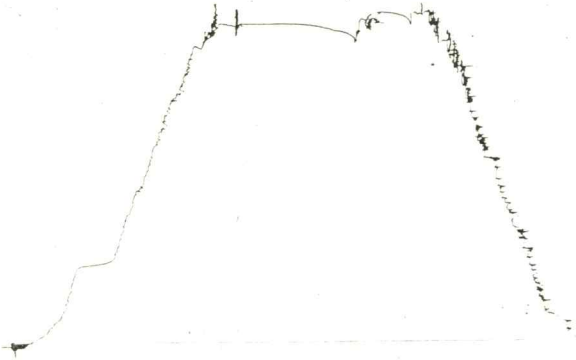
Remarks: MISRUN

Time Set Packer(s) 3:30 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 4:00 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature ?  
 Initial Hydrostatic Pressure (A) 1806 P.S.I.  
 Initial Flow Period (B) - Minutes P.S.I. to (C) - P.S.I.  
 Initial Closed In Period (D) - Minutes P.S.I.  
 Final Flow Period (E) - Minutes P.S.I. to (F) - P.S.I.  
 Final Closed In Period (G) - Minutes P.S.I.  
 Final Hydrostatic Pressure (H) 1749 P.S.I.

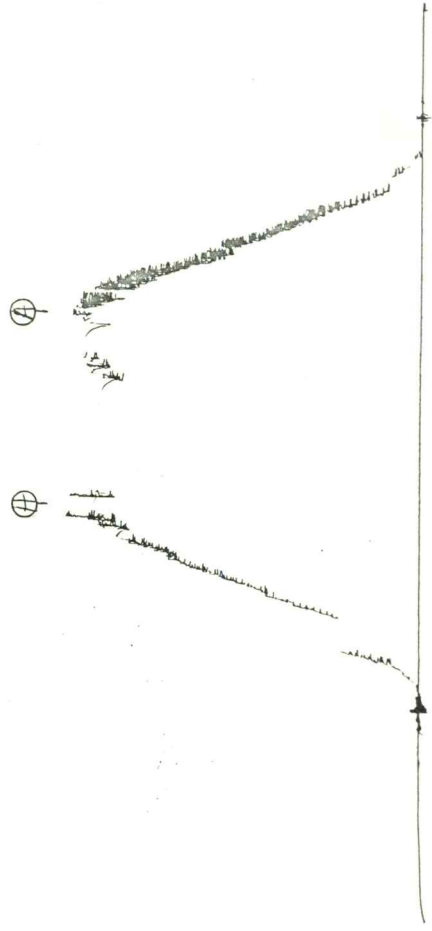
TKT # 9998

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13265



1559

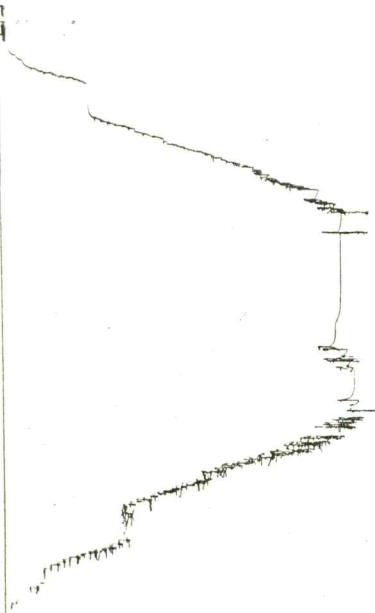


TKT # 9999

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*Below Straddle*

TKT # 9999



10979

Company Aspen Oil, Inc. Lease & Well No. Hay #2  
 Elevation 1277 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 9999  
 Date 12/ 3 /81 Sec. 6 Twp. 29S Range 1E County Sedgwick State Kansas  
 Test Approved by Wesley Hansen Western Representative Norman Allen

Formation Test No. 5 Interval Tested from 2760 ft. to 2850 ft. Total Depth 3740 ft.  
 Packer Depth 2755 ft. Size 6 3/4 in. Packer Depth 2850 ft. Size 6 3/4 in.  
 Packer Depth 2760 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2772 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 2775 ft. Recorder Number 13268 Cap. 4225  
 Below Straddle Recorder Depth 2860 ft. Recorder Number 10979 Cap. 4100

Drilling Contractor Aspen Drlg. Co. Rig #4 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 49 Weight Pipe Length - I. D. - in.  
 Weight 10.4 Water Loss 34 cc. Drill Pipe Length 2740 I. D. 3.8 in.  
 Chlorides 34,000 P.P.M. Test Tool Length 1000 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 90 ft. Size 5 1/2 OD 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&XH

Blow: Strong blow diminishing to fair by end of test. Gas to surface at start of final shut-in period.

Recovered 2550 ft. of gas cut slightly muddy salt water Chlorides 73,000 ppm  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 9:45 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 12:45 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 103°  
 Initial Hydrostatic Pressure (A) 1564 P.S.I.  
 Initial Flow Period Minutes 30 (B) 441 P.S.I. to (C) 1023 P.S.I.  
 Initial Closed In Period Minutes 60 (D) 1584 P.S.I.  
 Final Flow Period Minutes 30 (E) 1147 P.S.I. to (F) 1307 P.S.I.  
 Final Closed In Period Minutes 60 (G) 1603 P.S.I.  
 Final Hydrostatic Pressure (H) 1564 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/3/81 Recorder No. 1559 Capacity 4200 Test Ticket No. 9999  
 Clock No. - Elevation 1277 Kelly Bushing Location 2772 Ft. -  
 Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1564</u> P.S.I.	Open Tool	<u>9:45P</u> M	
B First Initial Flow Pressure	<u>441</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>1023</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1584</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>1147</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1307</u> P.S.I.			
G Final Closed-in Pressure	<u>1603</u> P.S.I.			
H Final Hydrostatic Mud	<u>1564</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: 20 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

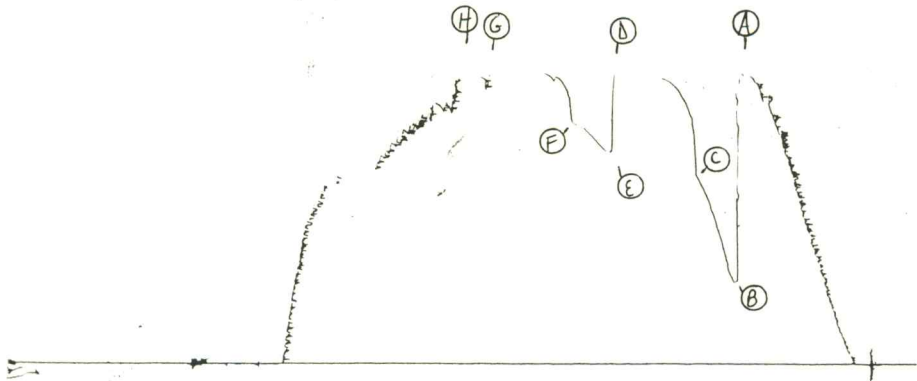
Second Flow Pressure  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Final Shut-In  
 Breakdown: 20 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>441</u>	<u>0</u>	<u>1023</u>	<u>0</u>	<u>1147</u>	<u>0</u>	<u>1307</u>
P 2 <u>5</u>	<u>477</u>	<u>3</u>	<u>1332</u>	<u>5</u>	<u>1158</u>	<u>3</u>	<u>1481</u>
P 3 <u>10</u>	<u>610</u>	<u>6</u>	<u>1381</u>	<u>10</u>	<u>1195</u>	<u>6</u>	<u>1519</u>
P 4 <u>15</u>	<u>733</u>	<u>9</u>	<u>1426</u>	<u>15</u>	<u>1238</u>	<u>9</u>	<u>1548</u>
P 5 <u>20</u>	<u>852</u>	<u>12</u>	<u>1464</u>	<u>20</u>	<u>1276</u>	<u>12</u>	<u>1558</u>
P 6 <u>25</u>	<u>942</u>	<u>15</u>	<u>1500</u>	<u>25</u>	<u>1292</u>	<u>15</u>	<u>1555</u>
P 7 <u>30</u>	<u>1023</u>	<u>18</u>	<u>1520</u>	<u>30</u>	<u>1307</u>	<u>18</u>	<u>1572</u>
P 8		<u>21</u>	<u>1534</u>			<u>21</u>	<u>1579</u>
P 9		<u>24</u>	<u>1546</u>			<u>24</u>	<u>1582</u>
P10		<u>27</u>	<u>1553</u>			<u>27</u>	<u>1586</u>
P11		<u>30</u>	<u>1558</u>			<u>30</u>	<u>1589</u>
P12		<u>33</u>	<u>1562</u>			<u>33</u>	<u>1591</u>
P13		<u>36</u>	<u>1566</u>			<u>36</u>	<u>1593</u>
P14		<u>39</u>	<u>1570</u>			<u>39</u>	<u>1595</u>
P15		<u>42</u>	<u>1572</u>			<u>42</u>	<u>1597</u>
P16		<u>45</u>	<u>1574</u>			<u>45</u>	<u>1599</u>
P17		<u>48</u>	<u>1576</u>			<u>48</u>	<u>1600</u>
P18		<u>51</u>	<u>1578</u>			<u>51</u>	<u>1601</u>
P19		<u>54</u>	<u>1580</u>			<u>54</u>	<u>1602</u>
P20		<u>57</u>	<u>1582</u>			<u>57</u>	<u>1603</u>
		<u>60</u>	<u>1584</u>			<u>60</u>	<u>1603</u>

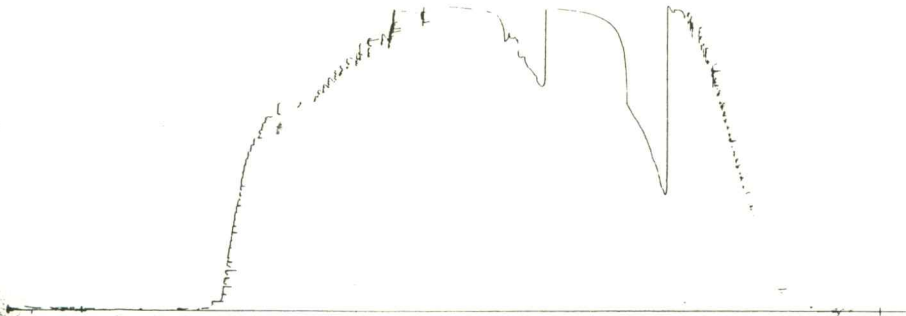
TKT # 9999

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IK1 " 7777

Below Straddle



12345