

Company Imperial Oil Company Lease & Well No. Rankin #1-2
Elevation 2387 Kelly Bushing Formation Morrow Effective Pay - Ft. Ticket No. 10508
Date 5/4/81 Sec. 2 Twp. 27S Range 22W County Ford State Kansas
Test Approved by _____ Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 4888 ft. to 4922 ft. Total Depth 4922 ft.

Packer Depth 4883 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4888 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4886 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4889 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor White & Ellis Drilling Rig #9 Drill Collar Length 364 I. D. 2.26 in.

Mud Type Premix Viscosity 55 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 13.2 cc. Drill Pipe Length 4494 I. D. 3.8 in.

Chlorides 21,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 111 Anchor Length 34 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong throughout initial flow period. Weak to fair throughout final flow period.

Recovered 20 ft. of drilling mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Tight hole.

Read outside chart

Time Set	<u>10:00</u>	<u>A.M.</u>	Time Started Off Bottom	<u>2:30</u>	<u>A.M.</u>	Maximum Temperature	<u>123</u>
		<u>P.M.</u>			<u>P.M.</u>		
Initial Hydrostatic Pressure			(A)	<u>2453</u>		P.S.I.	
Initial Flow Period		Minutes	<u>45</u>	(B)	<u>111</u>	P.S.I. to (C)	<u>68</u> P.S.I.
Initial Closed In Period		Minutes	<u>90</u>	(D)	<u>67</u>	P.S.I.	
Final Flow Period		Minutes	<u>40</u>	(E)	<u>67</u>	P.S.I. to (F)	<u>66</u> P.S.I.
Final Closed In Period		Minutes	<u>96</u>	(G)	<u>202</u>	P.S.I.	
Final Hydrostatic Pressure			(H)	<u>2439</u>		P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/4/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 10508
 Clock No. - Elevation 2387 Kelly Bushing Location 4889 Ft. 123 °F
 Well Temperature

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2453</u>	P.S.I.	<u>10:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>111</u>	P.S.I.	<u>45</u>	<u>45</u>
C First Final Flow Pressure	<u>68</u>	P.S.I.	<u>90</u>	<u>90</u>
D Initial Closed-in Pressure	<u>67</u>	P.S.I.	<u>45</u>	<u>40</u>
E Second Initial Flow Pressure	<u>67</u>	P.S.I.	<u>90</u>	<u>96</u>
F Second Final Flow Pressure	<u>66</u>	P.S.I.		
G Final Closed-in Pressure	<u>202</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2439</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>30</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>32</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>111</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>66</u>
P 2 <u>5</u>	<u>93</u>	<u>3</u>	<u>68</u>	<u>5</u>	<u>67</u>	<u>3</u>	<u>66</u>
P 3 <u>10</u>	<u>81</u>	<u>6</u>	<u>68</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>67</u>
P 4 <u>15</u>	<u>75</u>	<u>9</u>	<u>68</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>69</u>
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>68</u>	<u>20</u>	<u>67</u>	<u>12</u>	<u>72</u>
P 6 <u>25</u>	<u>69</u>	<u>15</u>	<u>68</u>	<u>25</u>	<u>67</u>	<u>15</u>	<u>75</u>
P 7 <u>30</u>	<u>68</u>	<u>18</u>	<u>67</u>	<u>30</u>	<u>67</u>	<u>18</u>	<u>79</u>
P 8 <u>35</u>	<u>68</u>	<u>21</u>	<u>67</u>	<u>35</u>	<u>67</u>	<u>21</u>	<u>83</u>
P 9 <u>40</u>	<u>68</u>	<u>24</u>	<u>67</u>	<u>40</u>	<u>66</u>	<u>24</u>	<u>89</u>
P10 <u>45</u>	<u>68</u>	<u>27</u>	<u>67</u>			<u>27</u>	<u>93</u>
P11		<u>30</u>	<u>67</u>			<u>30</u>	<u>97</u>
P12		<u>33</u>	<u>67</u>			<u>33</u>	<u>103</u>
P13		<u>36</u>	<u>67</u>			<u>36</u>	<u>107</u>
P14		<u>39</u>	<u>67</u>			<u>39</u>	<u>113</u>
P15		<u>42</u>	<u>67</u>			<u>42</u>	<u>119</u>
P16		<u>45</u>	<u>67</u>			<u>45</u>	<u>123</u>
P17		<u>48</u>	<u>67</u>			<u>48</u>	<u>128</u>
P18		<u>51</u>	<u>67</u>			<u>51</u>	<u>132</u>
P19		<u>54</u>	<u>67</u>			<u>54</u>	<u>140</u>
P20		<u>57</u>	<u>67</u>			<u>57</u>	<u>144</u>
WTC - 4		<u>60</u>	<u>67</u>			<u>60</u>	<u>150</u>

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WESTERN TESTING CO., INC.

Pressure Data

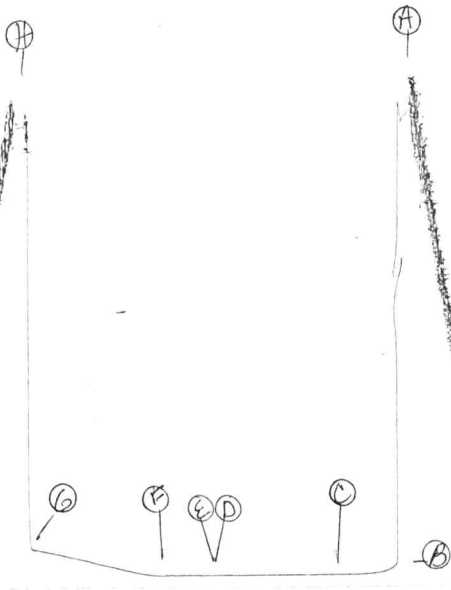
Date 5/4/81 Test Ticket No. 10508
 Recorder No. 13267 Capacity 4050 Location 4889 Ft.
 Clock No. - Elevation 2387 Kelly Bushing Well Temperature 123 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2453</u> P.S.I.	<u>10:00P</u> M	
B First Initial Flow Pressure	<u>111</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>68</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
D Initial Closed-in Pressure	<u>67</u> P.S.I.	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>67</u> P.S.I.	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure	<u>66</u> P.S.I.		
G Final Closed-in Pressure	<u>202</u> P.S.I.		
H Final Hydrostatic Mud	<u>2439</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>30</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>32</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		63	67			63	154
P 2		66	67			66	160
P 3		69	67			69	164
P 4		72	67			72	168
P 5		75	67			75	174
P 6		78	67			78	179
P 7		81	67			81	183
P 8		84	67			84	187
P 9		87	67			87	192
P10		90	67			90	195
P11						93	200
P12						96	202
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

1/4 #10508



Company Imperial Oil Company Lease & Well No. Rankin #1-2
Elevation 2387 Kelly Bushing Formation - Effective Pay - Ft. Ticker No. 10509
Date 5/5/81 Sec. 2 Twp. 27S Range 22W County Ford State Kansas
Test Approved by _____ Western Representative Les Holtz

Formation Test No. 2 Interval Tested from 4923 ft. to 4990 ft. Total Depth 4990 ft.

Packer Depth 4918 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4923 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4984 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4987 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor White & Ellis Drilling Rig #9 Drill Collar Length 364 I. D. 2.26 in.

Mud Type Premix Viscosity 50 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 17.2 cc. Drill Pipe Length 4528 I. D. 3.8 in.

Chlorides 25,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 111 Anchor Length 67 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong throughout test. Gas to surface in 45 minutes on initial flow period.

See attached sheet for gas measurements.

Recovered 425 ft. of slightly gassy mud-slightly oil specked.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: read outside chart.

Tight hole

Time Set Packer(s) 6:45 ~~A.M.~~ P.M. Time Started Off Bottom 2:45 ~~A.M.~~ P.M. Maximum Temperature 124

Initial Hydrostatic Pressure (A) 2455 P.S.I.

Initial Flow Period Minutes 55 (B) 174 P.S.I. to (C) 168 P.S.I.

Initial Closed In Period Minutes 117 (D) 1354 P.S.I.

Final Flow Period Minutes 175 (E) 178 P.S.I. to (F) 209 P.S.I.

Final Closed In Period Minutes 120 (G) 1321* P.S.I.

Final Hydrostatic Pressure (H) 2429 P.S.I.

GAS FLOW REPORT

Date 5/5/81 Ticket 10509 Company Imperial Oil Company
 Well Name and No. Rankin #1-2 Dst No. 2 Interval Tested 4923-4990
 County Ford State Kansas Sec. 2 Twp. 27S Rg. 22W

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
Gas to surface in 45 minutes PRE FLOW						
	50 Min	35 PSIG	¼" Orifice			69,000 C.F.P.D.
	55 Min	33 PSIG	¼" Orifice			66,200 C.F.P.D.
	60 Min	31 PSIG	¼" Orifice			63,200 C.F.P.D.

SECOND FLOW

	15 Min	14 PSIG	¼" Orifice			37,600 C.F.P.D.
	30 Min	14 PSIG	¼" Orifice			37,600 C.F.P.D.
	45 Min	14 PSIG	¼" Orifice			37,600 C.F.P.D.
	60 Min	13 PSIG	¼" Orifice			35,900 C.F.P.D.
	75 Min	12 PSIG	¼" Orifice			34,000 C.F.P.D.
	90 Min	10 PSIG	¼" Orifice			30,800 C.F.P.D.
	105 Min	9 PSIG	¼" Orifice			29,000 C.F.P.D.
	120 MIN	8 PSIG	¼" Orifice			27,000 C.F.P.D.
	135 Min	6 PSIG	¼" Orifice			22,900 C.F.P.D.
	150 Min	5 PSIG	¼" Orifice			20,700 C.F.P.D.
	165 Min	4 PSIG	¼" Orifice			18,500 C.F.P.D.
	180 Min	3 PSIG	¼" Orifice			15,700 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 5/5/81

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 Imperial Oil Company

Authorized by -

WESTERN TESTING CO., INC.
Pressure Data

Date 5/5/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 10509
Location 4987 Ft.
Clock No. - Elevation 2387 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2455</u>	P.S.I.	<u>6:45P</u>	M
B First Initial Flow Pressure	<u>174</u>	P.S.I.	<u>60</u>	Mins. <u>55</u> Mins.
C First Final Flow Pressure	<u>168</u>	P.S.I.	<u>120</u>	Mins. <u>117</u> Mins.
D Initial Closed-in Pressure	<u>1354</u>	P.S.I.	<u>180</u>	Mins. <u>175</u> Mins.
E Second Initial Flow Pressure	<u>178</u>	P.S.I.	<u>120</u>	Mins. <u>120</u> Mins.
F Second Final Flow Pressure	<u>209</u>	P.S.I.	*Pressures questionable due to tool being picked up too high.	
G Final Closed-in Pressure	<u>1321*</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2429</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>11</u> Inc.		Breakdown: <u>39</u> Inc.		Breakdown: <u>35</u> Inc.		Breakdown: <u>40</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>174</u>	<u>0</u>	<u>168</u>	<u>0</u>	<u>178</u>	<u>0</u>	<u>209</u>
P 2 <u>5</u>	<u>152</u>	<u>3</u>	<u>354</u>	<u>5</u>	<u>168</u>	<u>3</u>	<u>2476*</u>
P 3 <u>10</u>	<u>144</u>	<u>6</u>	<u>892</u>	<u>10</u>	<u>160</u>	<u>6</u>	<u>2114*</u>
P 4 <u>15</u>	<u>144</u>	<u>9</u>	<u>1144</u>	<u>15</u>	<u>152</u>	<u>9</u>	<u>1739*</u>
P 5 <u>20</u>	<u>148</u>	<u>12</u>	<u>1242</u>	<u>20</u>	<u>150</u>	<u>12</u>	<u>1557*</u>
P 6 <u>25</u>	<u>156</u>	<u>15</u>	<u>1272</u>	<u>25</u>	<u>147</u>	<u>15</u>	<u>1433*</u>
P 7 <u>30</u>	<u>162</u>	<u>18</u>	<u>1287</u>	<u>30</u>	<u>147</u>	<u>18</u>	<u>1358*</u>
P 8 <u>35</u>	<u>168</u>	<u>21</u>	<u>1299</u>	<u>35</u>	<u>164</u>	<u>21</u>	<u>1299*</u>
P 9 <u>40</u>	<u>174</u>	<u>24</u>	<u>1305</u>	<u>40</u>	<u>176</u>	<u>24</u>	<u>1262*</u>
P10 <u>45</u>	<u>172</u>	<u>27</u>	<u>1311</u>	<u>45</u>	<u>176</u>	<u>27</u>	<u>1248*</u>
P11 <u>50</u>	<u>170</u>	<u>30</u>	<u>1317</u>	<u>50</u>	<u>176</u>	<u>30</u>	<u>1244*</u>
P12 <u>55</u>	<u>168</u>	<u>33</u>	<u>1321</u>	<u>55</u>	<u>176</u>	<u>33</u>	<u>1244*</u>
P13		<u>36</u>	<u>1323</u>	<u>60</u>	<u>176</u>	<u>36</u>	<u>1244*</u>
P14		<u>39</u>	<u>1326</u>	<u>65</u>	<u>178</u>	<u>39</u>	<u>1248*</u>
P15		<u>42</u>	<u>1328</u>	<u>70</u>	<u>179</u>	<u>42</u>	<u>1252*</u>
P16		<u>45</u>	<u>1330</u>	<u>75</u>	<u>180</u>	<u>45</u>	<u>1256*</u>
P17		<u>48</u>	<u>1332</u>	<u>80</u>	<u>182</u>	<u>48</u>	<u>1260*</u>
P18		<u>51</u>	<u>1334</u>	<u>85</u>	<u>184</u>	<u>51</u>	<u>1263*</u>
P19		<u>54</u>	<u>1335</u>	<u>90</u>	<u>185</u>	<u>54</u>	<u>1268*</u>
P20		<u>57</u>	<u>1336</u>	<u>95</u>	<u>187</u>	<u>57</u>	<u>1271*</u>
		<u>60</u>	<u>1337</u>	<u>100</u>	<u>189</u>	<u>60</u>	<u>1274*</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/5/81 Test Ticket No. 10509
 Recorder No. 13267 Capacity 4050 Location 4987 Ft.
 Clock No. - Elevation 2387 Kelly Bushing Well Temperature 124 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2455</u> P.S.I.	<u>6:45P</u> M	
B First Initial Flow Pressure	<u>174</u> P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
C First Final Flow Pressure	<u>168</u> P.S.I.	<u>120</u> Mins.	<u>117</u> Mins.
D Initial Closed-in Pressure	<u>1354</u> P.S.I.	<u>180</u> Mins.	<u>175</u> Mins.
E Second Initial Flow Pressure	<u>178</u> P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>209</u> P.S.I.	*Pressures questionable due to tool being picked up too high.	
G Final Closed-in Pressure	<u>1321*</u> P.S.I.		
H Final Hydrostatic Mud	<u>2429</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>11</u> Inc.		Breakdown: <u>39</u> Inc.		Breakdown: <u>35</u> Inc.		Breakdown: <u>40</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		63	1338	105	190	63	1278*
P 2		66	1339	110	192	66	1280*
P 3		69	1340	115	194	69	1285*
P 4		72	1340	120	195	72	1289*
P 5		75	1341	125	197	75	1291*
P 6		78	1343	130	199	78	1294*
P 7		81	1344	135	200	81	1297*
P 8		84	1345	140	202	84	1299*
P 9		87	1346	145	203	87	1303*
P10		90	1347	150	204	90	1307*
P11		93	1348	155	206	93	1309*
P12		96	1349	160	207	96	1311*
P13		99	1350	165	208	99	1312*
P14		102	1351	170	209	102	1314*
P15		105	1352	175	209	105	1315*
P16		108	1353			108	1316*
P17		111	1353			111	1317*
P18		114	1354			114	1319*
P19		117	1354			117	1321*
P20						120	1321*

34 # 10509

0

13267
10509
DSJ 2

(H)

(G)

(D)

(F)

(E)

(C)

(B)

(A)

Company Imperial Oil Company Lease & Well No. Rankin #1-2
 Elevation 2387 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. 10510
 Date 5/6/81 Sec. 2 Twp. 27S Range 22W County Ford State Kansas
 Test Approved by Western Representative Les Holtz
 Formation Test No. 3 Interval Tested from 4988 ft. to 5008 ft. Total Depth 5008 ft.
 Packer Depth 4983 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4988 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5000 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 5003 ft. Recorder Number 13267 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Rig #9 Drill Collar Length 364 I. D. 2.26 in.
 Mud Type Premix Viscosity 53 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 4584 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 111 Anchor Length 20 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow throughout test

Recovered 110 ft. of water cut mud

Recovered 910 ft. of salt water Chlorides 88,000 PPM

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: hit several bridges on trip to bottom. Slid tool 12 ft. to bottom.

Time Set Packer(s) 6:15 ~~A.M.~~ P.M. Time Started Off Bottom 12:15 ~~A.M.~~ P.M. Maximum Temperature 129
 Initial Hydrostatic Pressure (A) 2583 P.S.I.
 Initial Flow Period Minutes 65 (B) 224 P.S.I. to (C) 463 P.S.I.
 Initial Closed In Period Minutes 120 (D) 1576 P.S.I.
 Final Flow Period Minutes 55 (E) 553 P.S.I. to (F) 683 P.S.I.
 Final Closed In Period Minutes 123 (G) 1570 P.S.I.
 Final Hydrostatic Pressure (H) 2476 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/6/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 10510
 Clock No. - Elevation 2387 Kelly Bushing Location 5000 Ft.
 Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2583	P.S.I.	6:15P	M
B First Initial Flow Pressure	224	P.S.I.	60	Mins. 65 Mins.
C First Final Flow Pressure	463	P.S.I.	120	Mins. 120 Mins.
D Initial Closed-in Pressure	1576	P.S.I.	60	Mins. 55 Mins.
E Second Initial Flow Pressure	553	P.S.I.	120	Mins. 123 Mins.
F Second Final Flow Pressure	683	P.S.I.		
G Final Closed-in Pressure	1570	P.S.I.		
H Final Hydrostatic Mud	2476	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>13</u> Inc.		Breakdown: <u>40</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>41</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	224	0	463	0	553	0	683
P 2 5	228	3	1485	5	553	3	1496
P 3 10	237	6	1511	10	553	6	1513
P 4 15	280	9	1519	15	557	9	1523
P 5 20	308	12	1526	20	564	12	1528
P 6 25	319	15	1531	25	576	15	1534
P 7 30	357	18	1534	30	593	18	1540
P 8 35	366	21	1536	35	608	21	1547
P 9 40	377	24	1538	40	627	24	1549
P10 45	394	27	1542	45	644	27	1551
P11 50	416	30	1547	50	661	30	1553
P12 55	435	33	1551	55	683	33	1551
P13 60	452	36	1554			36	1551
P14 65	463	39	1560			39	1551
P15		42	1564			42	1555
P16		45	1566			45	1560
P17		48	1567			48	1562
P18		51	1568			51	1564
P19		54	1569			54	1566
P20		57	1570			57	1567
		60	1568			60	1568

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WESTERN TESTING CO., INC.

Pressure Data

Date 5/6/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 10510
 Clock No. - Elevation 2387 Kelly Bushing Location 5000 Ft.
 Well Temperature 129 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2583 P.S.I.	6:15P	M
B First Initial Flow Pressure	224 P.S.I.	60 Mins.	65 Mins.
C First Final Flow Pressure	463 P.S.I.	120 Mins.	120 Mins.
D Initial Closed-in Pressure	1576 P.S.I.	60 Mins.	55 Mins.
E Second Initial Flow Pressure	553 P.S.I.	120 Mins.	123 Mins.
F Second Final Flow Pressure	683 P.S.I.		
G Final Closed-in Pressure	1570 P.S.I.		
H Final Hydrostatic Mud	2476 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63	1568			63	1568
P 2		66	1568			66	1568
P 3		69	1568			69	1568
P 4		72	1568			72	1568
P 5		75	1570			75	1568
P 6		78	1570			78	1568
P 7		81	1571			81	1568
P 8		84	1573			84	1568
P 9		87	1575			87	1568
P10		90	1577			90	1570
P11		93	1579			93	1572
P12		96	1580			96	1572
P13		99	1581			99	1570
P14		102	1581			102	1570
P15		105	1580			105	1570
P16		108	1579			108	1570
P17		111	1578			111	1570
P18		114	1577			114	1570
P19		117	1576			117	1570
P20		120	1576			120	1570
						123	1570

TRT # 10570
I

1057
10570
JST #3

