

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING

Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 5, 1968

Formation Test No. 1 Total Depth 3147 Elev. _____
 Interval Tested 3116 To 3147 Anchor Length 31'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 FH Size Packer 6 3/4
 Mud Weight 10.3 Viscosity 41 Water Loss 12.4 c.c. Bottom Hole Temp. 104 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 9165

RECOVERY

WEAK BLOW FOR 10 MINUTES ON FIRST OPENING. WEAK INTERMITTENT THROUGHOUT SECOND OPENING. FLUSHED TOOL 22 MINUTES AFTER SECOND OPENING.

60 FEET OF VERY SLIGHTLY OIL AND GAS CUT MUD.

TOOL PLUGGED AFTER FLUSHING (LAST 20 MINUTES.)

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 1



Tool Open: 1st Flow hr. 18 mins: Shut-in Initial hr. 15 min: 2nd Flow hr. 42 min: Shut-in Final hr. 15 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1751	1777
(B) Initial 1st Flow Pressure	51	56
(C) Final 1st Flow Pressure	60	66
(D) Initial Shut-in Pressure	85	88
(E) Initial 2nd Flow Pressure	68	73
(F) Final 2nd Flow Pressure	136	136
(G) Final Shut-in Pressure	170	187
(H) Final Hydrostatic Pressure	1734	1765

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GREAT BEND, KANSAS

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Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 6, 1968

Formation Test No. 2 Total Depth 3234 Elev. _____
Interval Tested 3208 To 3234 Anchor Length 26'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 FH Size Packer 6 3/4
Mud Weight 10 Viscosity 38 Water Loss 14 c.c. Bottom Hole Temp. 104 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 9166

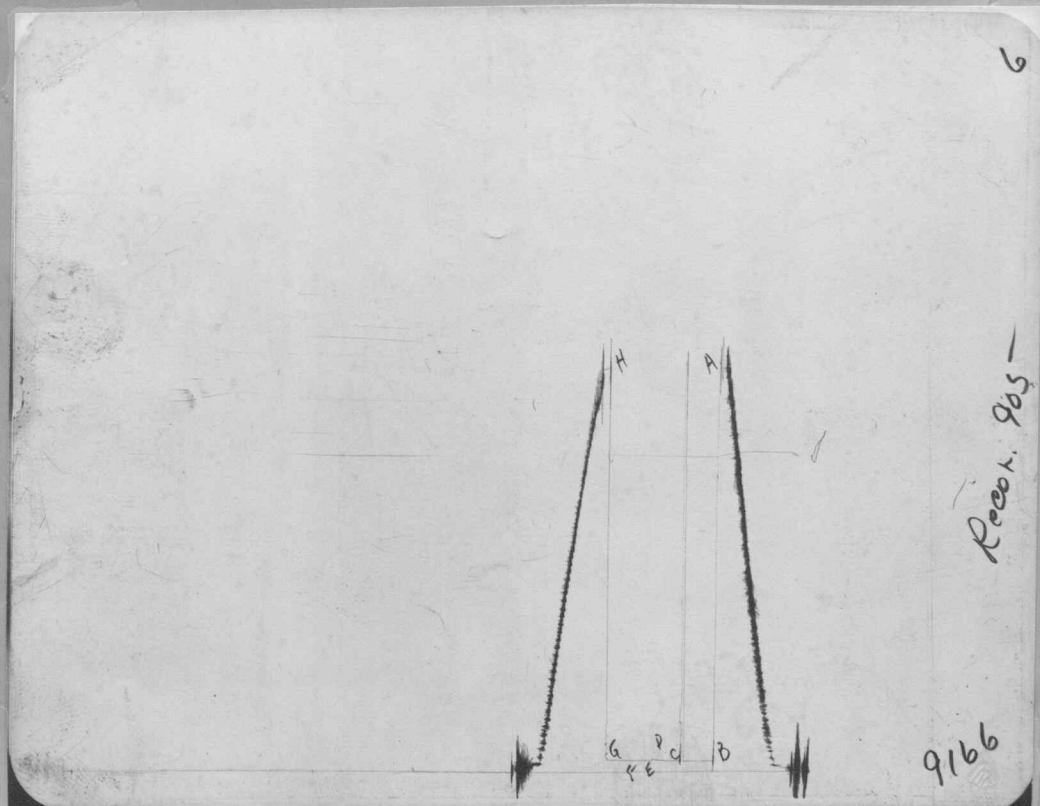
RECOVERY

VERY WEAK BLOW FOR 12 MINUTES.

5 FEET OF MUD.

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 2



Tool Open: 1st Flow 30 mins: Shut-in Initial 15 min: 2nd Flow 15 min: Shut-in Final 15 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1819</u>	<u>1819</u>
(B) Initial 1st Flow Pressure	<u>34</u>	<u>47</u>
(C) Final 1st Flow Pressure	<u>34</u>	<u>49</u>
(D) Initial Shut-in Pressure	<u>42</u>	<u>60</u>
(E) Initial 2nd Flow Pressure	<u>34</u>	<u>52</u>
(F) Final 2nd Flow Pressure	<u>34</u>	<u>54</u>
(G) Final Shut-in Pressure	<u>34</u>	<u>58</u>
(H) Final Hydrostatic Pressure	<u>1785</u>	<u>1790</u>

9166

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Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING

Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 6, 1968

Formation Test No. 3 Total Depth 3345 Elev.

Interval Tested 3318 To 3345 Anchor Length 27'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 FH Size Packer 6 3/4

Mud Weight 10.3 Viscosity 45 Water Loss 10 c.c. Bottom Hole Temp. 110 ° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 9167

RECOVERY

WEAK BLOW FOR 30 MINUTES ON FIRST FLOW. VERY WEAK AND INTERMITTENT
FOR 20 MINUTES on SECOND FLOW.

65 FEET OF SLIGHTLY OIL CUT MUD.

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 3

COMPANY THUNDERBIRD DRILLING DATE JULY 6, 1968
 LEASE DIETZ WELL NO. 1 TEST NO. 3 TICKET NO. 9167

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1879
INITIAL CLOSED IN PRESSURE	30 mins.	590
INITIAL FLOW	30 mins.	39 to 56
FINAL FLOW	30 mins.	65 to 68
FINAL CLOSED IN PRESSURE	30 mins.	335
FINAL HYDRO MUD PRESSURE		1870

TOTAL DEPTH 3345
 PACKER DEPTH 3318
 BT. NO. 905 DEPTH 3340

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	39		56		65		68
	43		94		65		80
	46		221		65		100
	51		434		65		156
	53		515		66		207
	54		575		66		281
	56		590		68		335
5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL	

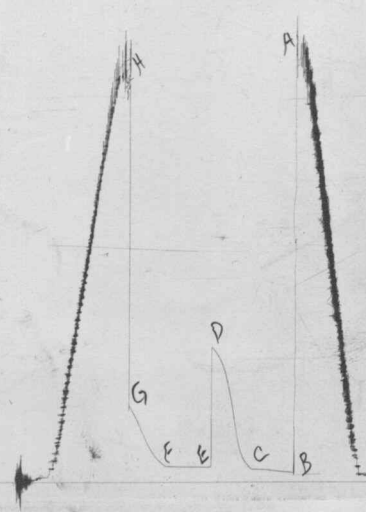
REMARKS _____

SPECIAL PRESSURE DATA

6

Recor. 903-

9167



Tool Open: 1st Flow ____ hr. 30 mins: Shut-in Initial ____ hr. 30 min: 2nd Flow ____ hr. 30 min: Shut-in Final ____ hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1870</u>	<u>1879</u>
(B) Initial 1st Flow Pressure	<u>34</u>	<u>39</u>
(C) Final 1st Flow Pressure	<u>59</u>	<u>56</u>
(D) Initial Shut-in Pressure	<u>595</u>	<u>590</u>
(E) Initial 2nd Flow Pressure	<u>59</u>	<u>65</u>
(F) Final 2nd Flow Pressure	<u>68</u>	<u>68</u>
(G) Final Shut-in Pressure	<u>340</u>	<u>335</u>
(H) Final Hydrostatic Pressure	<u>1802</u>	<u>1870</u>

9167

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Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING

Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 7, 1968

Formation Test No. 4 Total Depth 3351 Elev. _____
 Interval Tested 3342 To 3351 Anchor Length 9'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 Size Packer 6 3/4
 Mud Weight 10.3 Viscosity 45 Water Loss 10 c.c. Bottom Hole Temp. 106 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 9168

RECOVERY

WEAK BLOW FOR 49 MINUTES. FLUSHED TOOL IN 50 and 55 MINUTES.
 NO BLOW.

70 FEET OF SLIGHTLY OIL CUT MUD.

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 4

COMPANY THUNDERBIRD DRILLING DATE JULY 7, 1968
 LEASE DIETZ WELL NO. 1 TEST NO. 4 TICKET NO. 9168

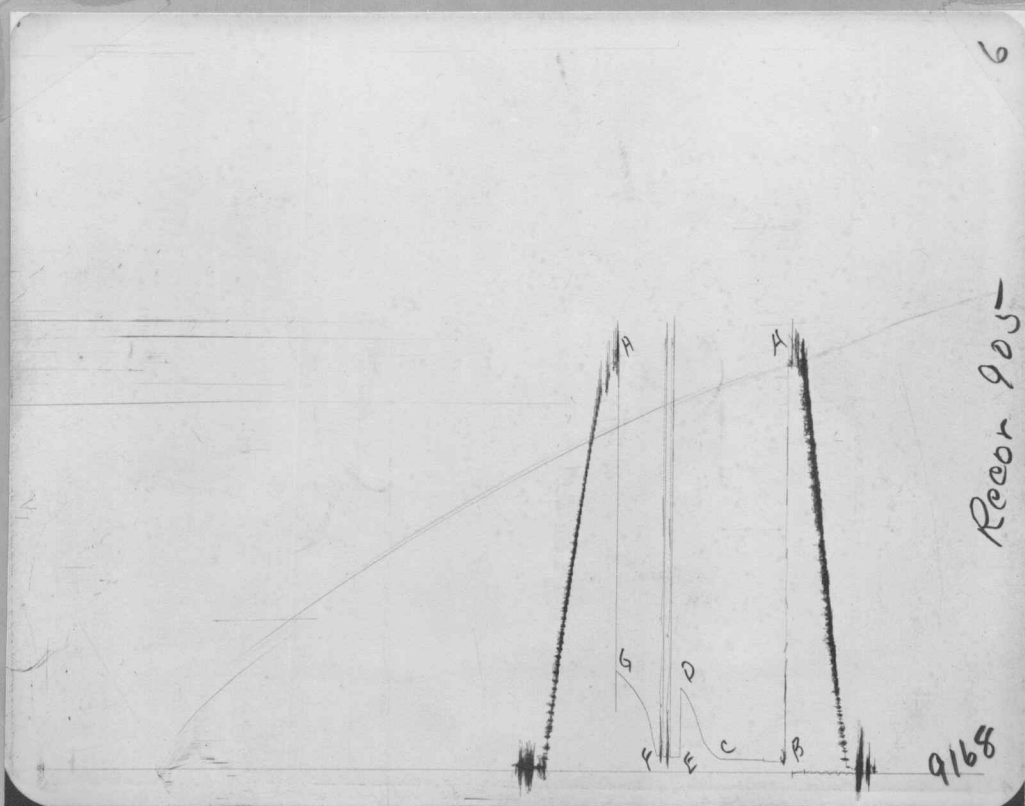
	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1913
INITIAL CLOSED IN PRESSURE	30 mins.	374
INITIAL FLOW	45 mins.	48 to 54
FINAL FLOW	15 mins.	65 to 71
FINAL CLOSED IN PRESSURE	30 mins.	442
FINAL HYDRO MUD PRESSURE		1896

TOTAL DEPTH 3351
 PACKER DEPTH 3342
 BT. NO. 905 DEPTH 3346

1ST FLOW PRESSURE	INITIAL CIP	2ND FLOW PRESSURE	FINAL CIP
48	54	65	71
48	82	65	213
48	111	66	298
49	213	71	349
54	281		383
54	340		417
54	374		442
54			
54			
54			
54			
5	5	5	5
MINUTE INTERVAL	MINUTE INTERVAL	MINUTE INTERVAL	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 15 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1904	1913
(B) Initial 1st Flow Pressure	42	48
(C) Final 1st Flow Pressure	61	54
(D) Initial Shut-in Pressure	372	374
(E) Initial 2nd Flow Pressure	61	65
(F) Final 2nd Flow Pressure	68	71
(G) Final Shut-in Pressure	442	442
(H) Final Hydrostatic Pressure	1892	1896

9168

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GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING

Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 7, 1968

Formation Test No. 5 Total Depth 3356 Elev. _____
 Interval Tested 3345 To 3356 Anchor Length 11'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 Size Packer 6 3/4
 Mud Weight 10.3 Viscosity 43 Water Loss 10 c.c. Bottom Hole Temp. 106 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 9169

RECOVERY

WEAK BLOW FOR 33 MINUTES. WEAK INTERMITTENT BLOW REMAINDER OF TEST.

20 FEET OF OIL CUT MUD.

60 FEET OF SLIGHTLY OIL CUT MUD.

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 5

DATE JULY 7, 1968

LEASE DIETZ

WELL NO. 1

TEST
NO.

5

TICKET NO. 9169

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1870
INITIAL CLOSED IN PRESSURE	30 mins.	383
INITIAL FLOW	45 mins.	36 to 43
FINAL FLOW	45 mins.	51 to 54
FINAL CLOSED IN PRESSURE	30 mins.	226
FINAL HYDRO MUD PRESSURE		1853

TOTAL DEPTH 3356

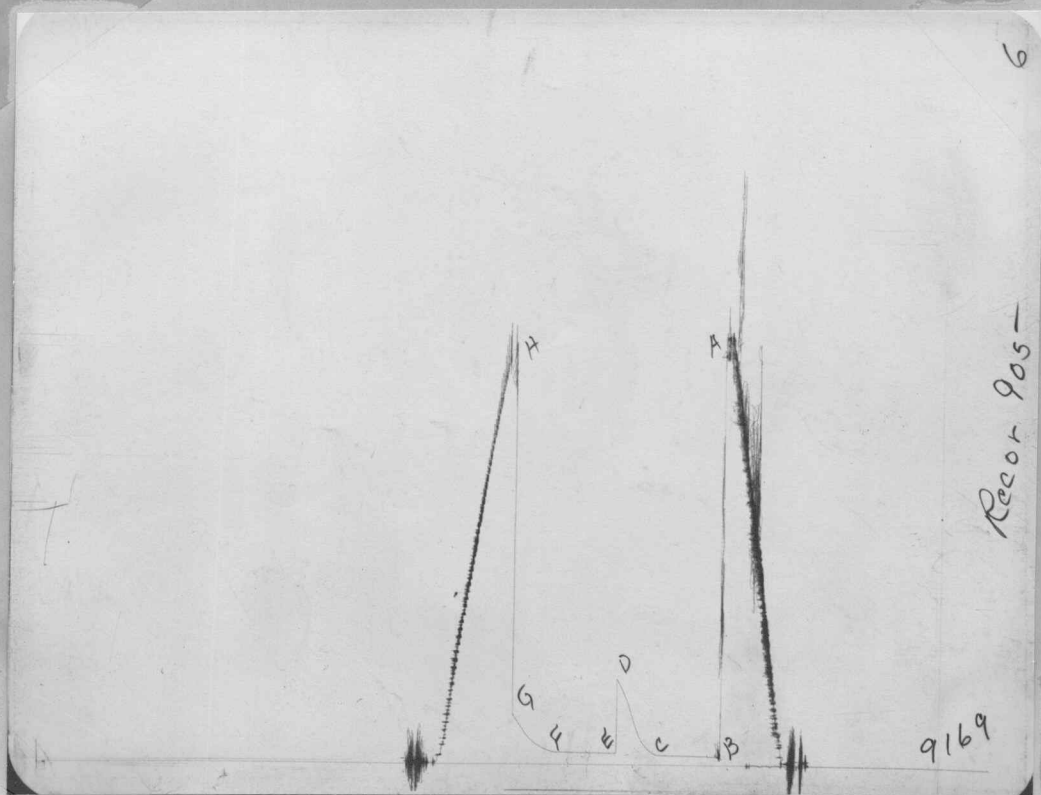
PACKER DEPTH 3345

BT. NO. 905 DEPTH 3351

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	36		43		51		54
	37		66		51		70
	39		94		51		82
	39		170		53		107
	39		247		53		133
	39		323		53		184
	39		383		54		226
	41				54		
	41				54		
	43				54		
5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS.

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 45 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1836</u>	<u>1870</u>
(B) Initial 1st Flow Pressure	<u>35</u>	<u>36</u>
(C) Final 1st Flow Pressure	<u>44</u>	<u>43</u>
(D) Initial Shut-in Pressure	<u>372</u>	<u>383</u>
(E) Initial 2nd Flow Pressure	<u>44</u>	<u>51</u>
(F) Final 2nd Flow Pressure	<u>56</u>	<u>54</u>
(G) Final Shut-in Pressure	<u>221</u>	<u>226</u>
(H) Final Hydrostatic Pressure	<u>1827</u>	<u>1853</u>

9169

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Box 547

GREAT BEND, KANSAS

THUNDERBIRD DRILLING

Company _____

Lease and Well No. DIETZ #1

County BARTON State KANSAS Date JULY 8, 1968

Formation Test No. 6 Total Depth 3373 Elev. _____
 Interval Tested 3352 To 3373 Anchor Length 21'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 Size Packer 6 3/4
 Mud Weight 10.1 Viscosity 39 Water Loss 17.6 c.c. Bottom Hole Temp. 106 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 9170

RECOVERY

WEAK BLOW FOR 17 MINUTES. FLUSHED TOOL ON SECOND OPENING. WEAK
 BLOW FOR 3 MINUTES.

30 FEET OF DRILLING MUD.

Lease and Well No. DIETZ #1 4 18S 12W NE SE SW

Formation Test No. 6

COMPANY THUNDERBIRD DRILLINGDATE JULY 8, 1968LEASE DIETZWELL
NO. 1TEST
NO. 6TICKET NO. 9170

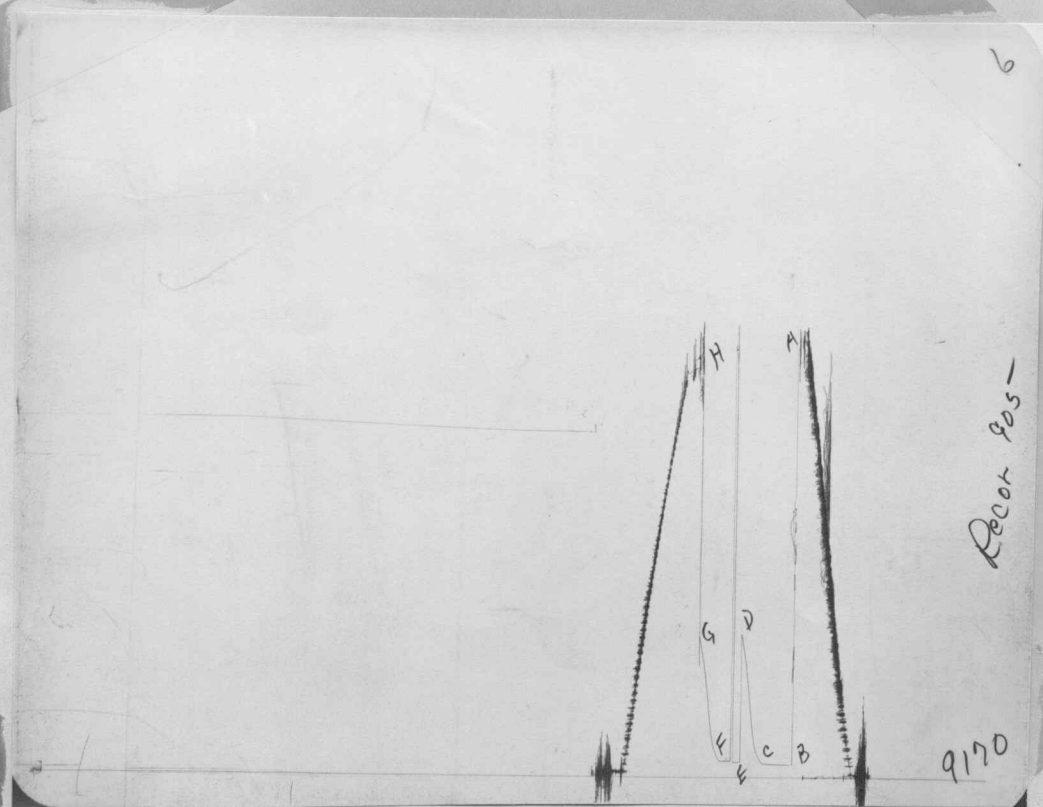
	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1901
INITIAL CLOSED IN PRESSURE	15 mins.	632
INITIAL FLOW	20 mins.	54 to 60
FINAL FLOW	15 mins.	68 to 73
FINAL CLOSED IN PRESSURE	15 mins.	622
FINAL HYDRO MUD PRESSURE		1887

TOTAL DEPTH 3373PACKER DEPTH 3352BT. NO. 905 DEPTH 3368

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	54		60		68		73
	54		128		68		153
	54		459		71		383
	58		632		73		622
	60						
5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow 20 hr. 20 mins: Shut-in Initial 15 hr. 15 min: 2nd Flow 15 hr. 15 min: Shut-in Final 15 hr. 15 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1938	1901
(B) Initial 1st Flow Pressure	51	54
(C) Final 1st Flow Pressure	59	60
(D) Initial Shut-in Pressure	629	632
(E) Initial 2nd Flow Pressure	59	68
(F) Final 2nd Flow Pressure	66	73
(G) Final Shut-in Pressure	612	622
(H) Final Hydrostatic Pressure	1926	1887

9170