

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company K AND E DRILLING INCORPORATED

Lease and Well No. ROBINSON A #1

County KINGMAN State KANSAS

Date 5-5-65

Formation Test No. #1 Total Depth 4385
 Interval Tested 4334 To 4385 Anchor Length 51'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2" FH 4" FH Size Packer 6 3/4
 Mud Weight 10.1 Viscosity 45 Bottom Hole Temp. 121 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 7414

RECOVERY

GAS SURFACED 16 MINUTES 19,000 CFPD 20 MINUTES
 TOO SMALL TO MEASURE 25 MINUTES
 22,000 CFPD 1 HOUR 15 MINUTES THEN SURGING
 FROM 15,000 to 25,000 CFPD

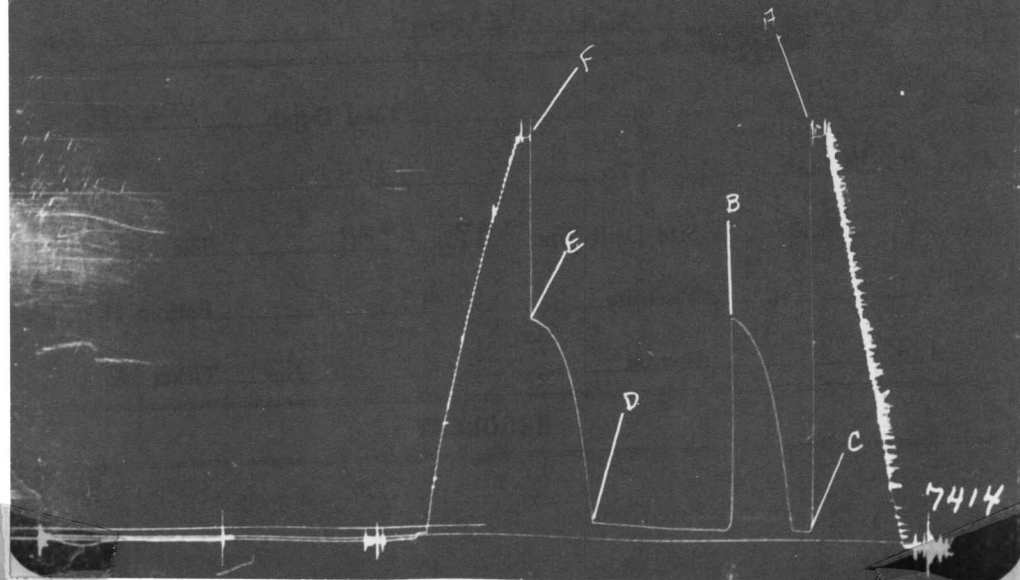
270' GAS CUT MUD

Lease and Well No. ROBINSON A #1 31 30S 9W

Formation Test No. #1

31-30S-9W

Pressure: Each Square — psi



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2347	2426
(B) Initial Shut-in Pressure	1280	1291
(C) Initial Flow Pressure	56	50
(D) Final Flow Pressure	90	101
(E) Final Shut-in Pressure	1258	1258
(F) Final Hydrostatic Pressure	2336	2347

7414

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GREAT BEND, KANSAS

Company K AND E DRILLING INCORPORATED

Lease and Well No. ROBINSON A #1

County KINGMAN State KANSAS Date 5-6-65

Formation Test No. #2 Total Depth 4405
 Interval Tested 4385 To 4405 Anchor Length 20'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2" FH 4" FH Size Packer 6 3/4
 Mud Weight 10.1 Viscosity 45 Bottom Hole Temp. 121 ° F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 7415

RECOVERY

FAIR BLOW DECREASING TO WEAK IN 1 HOUR 45 MINUTES

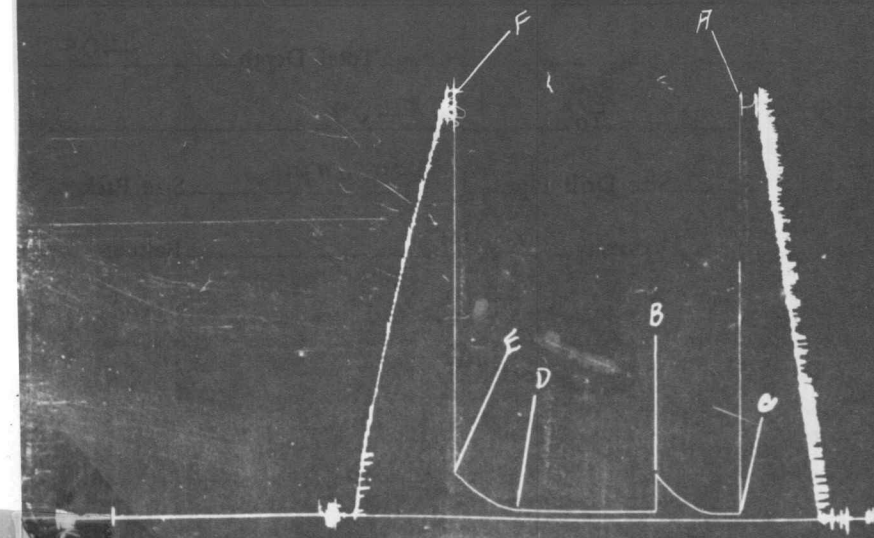
63' HEAVY OIL SPECKED WATERY MUD

Lease and Well No. ROBINSON A #1 31 30 9W

Formation Test No. #2

31-305-9W

Pressure: Each Square _____ psi



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2393</u>	<u>2460</u>
(B) Initial Shut-in Pressure	<u>268</u>	<u>268</u>
(C) Initial Flow Pressure	<u>45</u>	<u>39</u>
(D) Final Flow Pressure	<u>45</u>	<u>56</u>
(E) Final Shut-in Pressure	<u>246</u>	<u>257</u>
(F) Final Hydrostatic Pressure	<u>2404</u>	<u>2437</u>

7415

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GREAT BEND, KANSAS

Company CITIES SERVICE OIL COMPANY

Lease and Well No. RICHARDSON #A-1

County KINGMAN State KANSAS Date 12-12-64

Formation Test No. #5 Total Depth 4224

Interval Tested 4214 To 4224 Anchor Length 10'

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

Mud Weight 10 Viscosity 43 Bottom Hole Temp. 110 ° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 7385

RECOVERY

WEAK BLOW FOR TWO MINUTES
STRONG BLOW AFTER SECOND OPENING DECREASING TO FAIR
IN 45 MINUTES.

1680' GAS IN PIPE
30' MUDLY OIL
60' OILY MUD

ONE GALLON OF FREE OIL IN TOOL
90' TOTAL FLUID

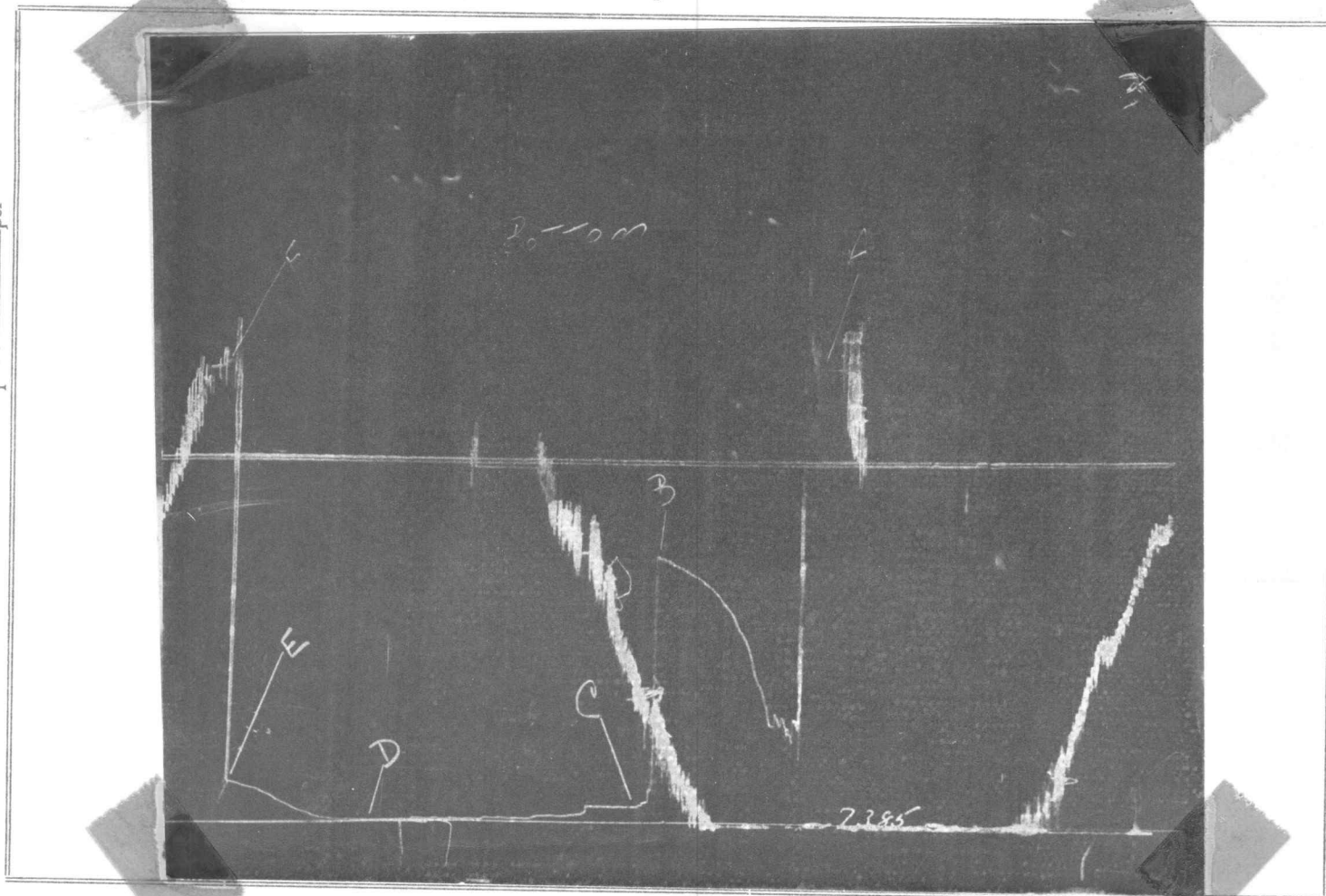
(Used H & T chart due to 10 hour rig break-down
while going in hole with tool)

Lease and Well No. RICHARDSON A #1 19 30S 8W

Formation Test No. #5

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2260	2260
(B) Initial Shut-in Pressure	1300	1300
(C) Initial Flow Pressure	90	?
(D) Final Flow Pressure	20	20
(E) Final Shut-in Pressure	220	220
(F) Final Hydrostatic Pressure	2265	2265

7385

MILLER TESTING COMPANY

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GREAT BEND, KANSAS

Company CITIES SERVICE OIL COMPANY

Lease and Well No. RICHARDSON #A-1

County KINGMAN State KANSAS Date 12-13-64

Formation Test No. #6 Total Depth 4234

Interval Tested 4224 To 4234 Anchor Length 10'

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

Mud Weight 10 Viscosity 43 Bottom Hole Temp. 110 ° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 7386

RECOVERY

BLOW: FEW BUBBLES FOR THREE MINUTES
FLUSHED TOOL AFTER FIFTEEN MINUTES AND AFTER TWENTY
MINUTES. TOOL SLID 5' TO BOTTOM

63' MUD

Lease and Well No. RICHARDSON A #1 19 30S 8W

Formation Test No. #6

COMPANY CITIES SERVICE OIL COMPANYDATE 12-13-64LEASE RICHARDSON A WELL NO. 1TEST NO. 6TICKET NO. 7386

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	----	2278
INITIAL CLOSED IN PRESSURE	30 MINS	320
INITIAL FLOW	---	59
FINAL FLOW	25 MINS	110
FINAL CLOSED IN PRESSURE	15 MINS	137
FINAL HYDRO MUD PRESSURE		

TOTAL DEPTH 4234PACKER DEPTH 4224BT. NO. 1049 DEPTH 4229

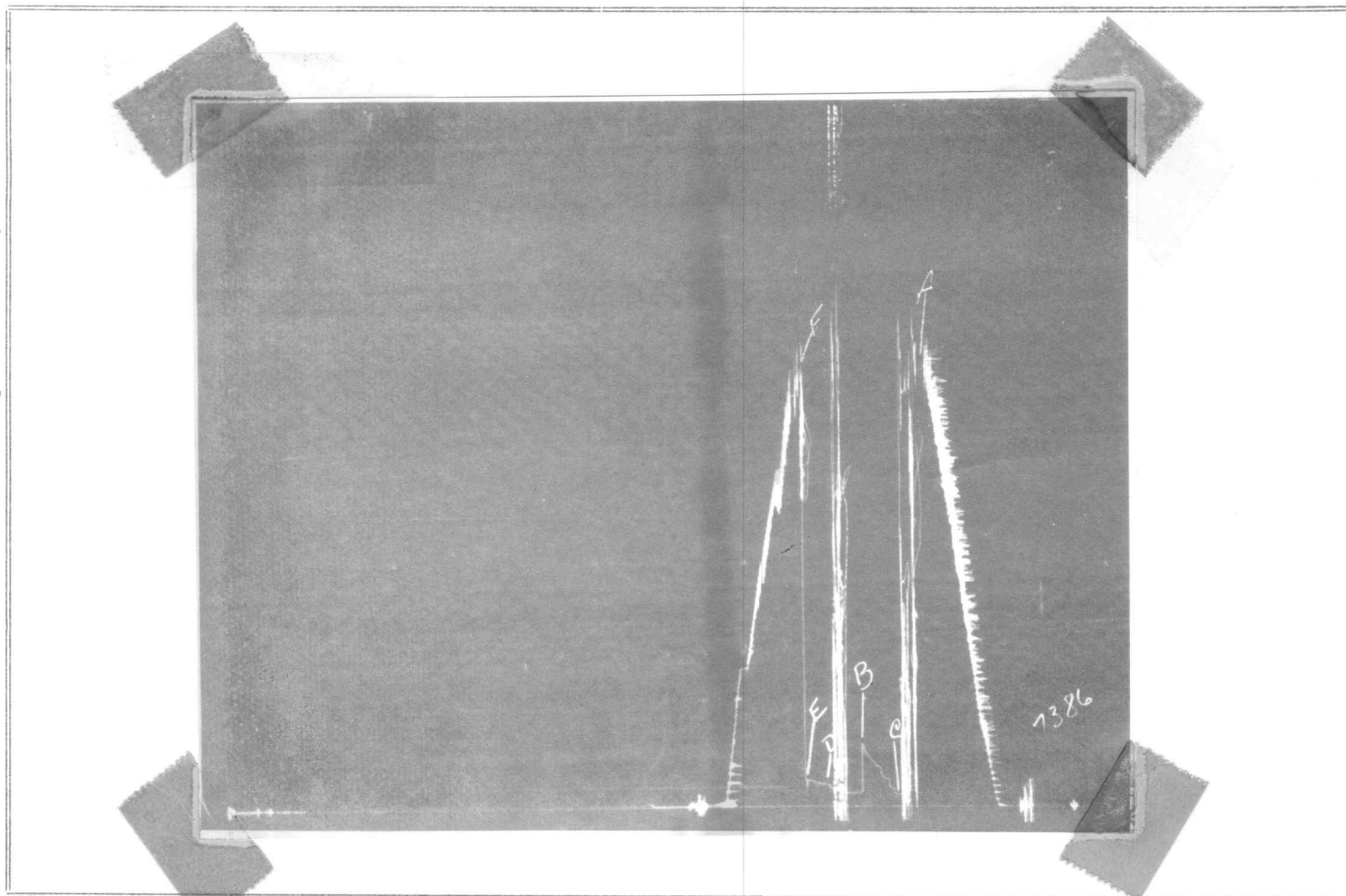
#	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.
P0	.000	59	.000	59	.000	73	.000	110
P1	.025	59	.042	95	.042	73	.042	119
P2			.083	137	.083	69	.083	128
P3			.125	150	.125	69	.125	137
P4			.167	210	.167	91		
P5			.209	256	.209	110		
P6			.250	320				
P7								
P8								
P9								
P10								
	3	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open: 1st Flow _____ hr. 3 mins: 2nd Flow _____ hr. 25 mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 15 mins.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2240</u>	<u>2278</u>
(B) Initial Shut-in Pressure	<u>325</u>	<u>320</u>
(C) Initial Flow Pressure	<u>60</u>	<u>59</u>
(D) Final Flow Pressure	<u>70</u>	<u>110</u>
(E) Final Shut-in Pressure	<u>145</u>	<u>137</u>
(F) Final Hydrostatic Pressure	<u>2230</u>	<u>2223</u>

7386