

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 2, 1962

Formation Test No. #2 Total Depth 3069'

Interval Tested 3052' To 3069' Anchor Length 17'

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

Mud Weight 10.2 Viscosity 39 Bottom Hole Temp. 102 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 6217

RECOVERY

WEAK BLOW FOR 8 MINUTES.

63 FEET OF MUD.

Lease and Well No. BRACK #1 16-17-16 Formation Test No. #2

COMPANY CITIES SERVICE PETROLEUM CO.

DATE AUGUST 2, 1962

LEASE BRACK

WELL NO. 1

TEST NO. 2

TICKET NO. 6217

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	---	1728
INITIAL CLOSED IN PRESSURE	30 MINS.	125
INITIAL FLOW	---	25
FINAL FLOW	60 MINS.	38
FINAL CLOSED IN PRESSURE	30 MINS.	38
FINAL HYDRO MUD PRESSURE	---	1705

TOTAL DEPTH 3069

PACKER DEPTH 3052

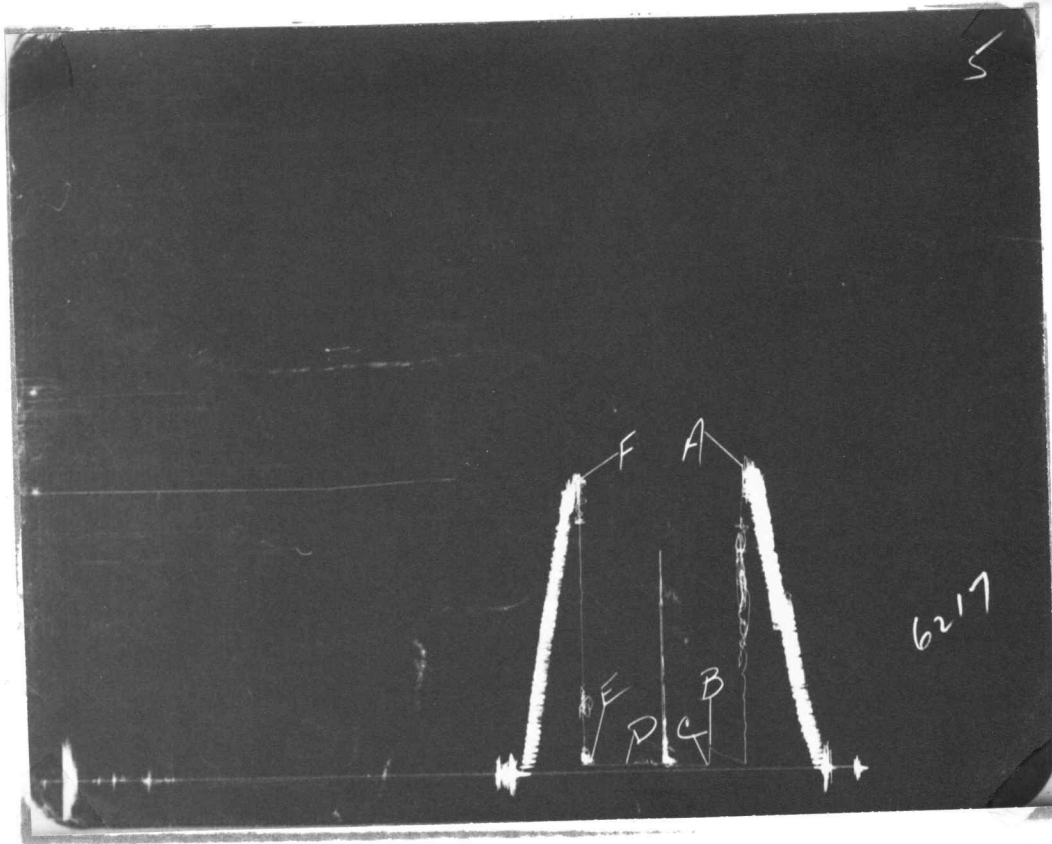
BT. NO. 1134 DEPTH 3064

	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	34	.000	25	.000	38			
P1			.042	47	.083	22	.042	38			
P2			.083	60	.167	25	.083	38			
P3			.125	78	.250	29	.125	38			
P4			.167	90	.333	40	.167	38			
P5			.209	121	.416	45	.209	38			
P6			.250	125	.499	38	.250	38			
P7											
P8											
P9											
P10											
	MINUTE INTERVAL		<u>5</u>	MINUTE INTERVAL		<u>10</u>	MINUTE INTERVAL		<u>5</u>	MINUTE INTERVAL	

REMARKS P4 AND P5 OF 2ND FLOW PRESSURE INDICATES SLIGHT PLUGGING.

SPECIAL PRESSURE DATA

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

- (A) Initial Hydrostatic Pressure 1728
- (B) Initial Shut-in Pressure 125
- (C) Initial Flow Pressure 25
- (D) Final Flow Pressure 38
- (E) Final Shut-in Pressure 38
- (F) Final Hydrostatic Pressure 1705

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MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 5, 1962

Formation Test No. #3 Total Depth 3373'

Interval Tested 3344' To 3373' Anchor Length 29'

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

Mud Weight 9.9 Viscosity 41 Bottom Hole Temp. 105 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 6218

RECOVERY

WEAK INTERMITTENT BLOW FOR 25 MINUTES.

10 FEET OF SLIGHTLY OIL CUT MUD.

60 FEET OF MUD.

Lease and Well No. BRACK #1 16-17-16
Formation Test No. #3

COMPANY CITIES SERVICE PETROLEUM CO.

DATE AUGUST 5, 1962

LEASE BRACK

WELL NO. 1

TEST NO. 3

TICKET NO. 6218

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	—————	1851
INITIAL CLOSED IN PRESSURE	30 MINS.	1135
INITIAL FLOW	—————	29
FINAL FLOW	60 MINS.	45
FINAL CLOSED IN PRESSURE	30 MINS.	721
FINAL HYDRO MUD PRESSURE	—————	1829

TOTAL DEPTH 3373

PACKER DEPTH 3344

BT. NO. 1134 DEPTH 3368

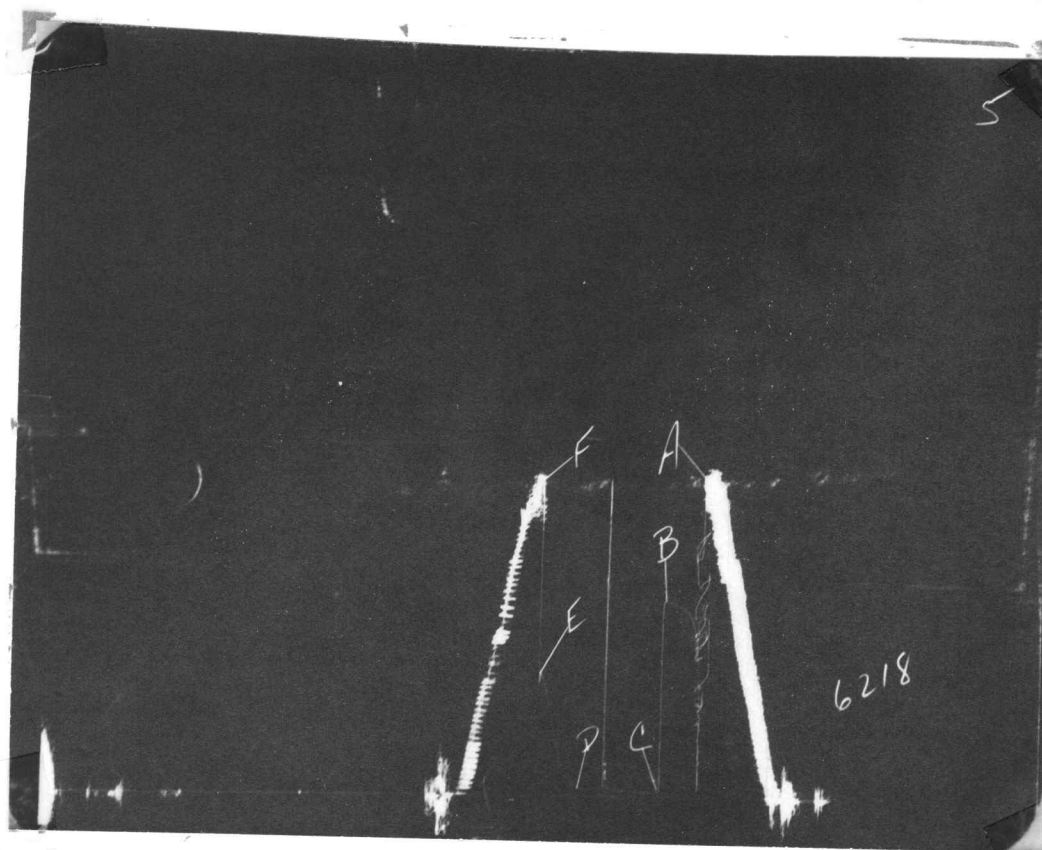
	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.
P0			.000	34	.000	29	.000	45
P1			.042	1046	.083	31	.042	74
P2			.083	1091	.167	34	.083	145
P3			.125	1113	.250	36	.125	301
P4			.167	1126	.333	36	.167	502
P5			.209	1133	.416	45	.209	668
P6			.250	1135	.499	45	.250	721
P7								
P8								
P9								
P10								
	MINUTE INTERVAL		5	MINUTE INTERVAL	10	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

(A) Initial Hydrostatic Pressure	<u>1851</u>
(B) Initial Shut-in Pressure	<u>1135</u>
(C) Initial Flow Pressure	<u>29</u>
(D) Final Flow Pressure	<u>45</u>
(E) Final Shut-in Pressure	<u>721</u>
(F) Final Hydrostatic Pressure	<u>1829</u>

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Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS

Date AUGUST 7, 1962

Formation Test No. 4 Total Depth 3525'

Interval Tested 3470' To 3525' Anchor Length 55'

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

Mud Weight 9.8 Viscosity 41 Bottom Hole Temp. 104 ° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 6219

RECOVERY

WEAK BLOW FOR 6 MINUTES.

30 FEET OF MUD.

Lease and Well No. BRACK #1 16-17-16

Formation Test No. #1

COMPANY CITIES SERVICE PETROLEUM CO. DATE AUGUST 7, 1962

LEASE BRACK WELL NO. 1 TEST NO. 4 TICKET NO. 6219

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	—	1908
INITIAL CLOSED IN PRESSURE	30 MINS.	1046
INITIAL FLOW	—	40
FINAL FLOW	60 MINS.	40
FINAL CLOSED IN PRESSURE	30 MINS.	457
FINAL HYDRO MUD PRESSURE	—	1863

TOTAL DEPTH 3525

PACKER DEPTH 3470

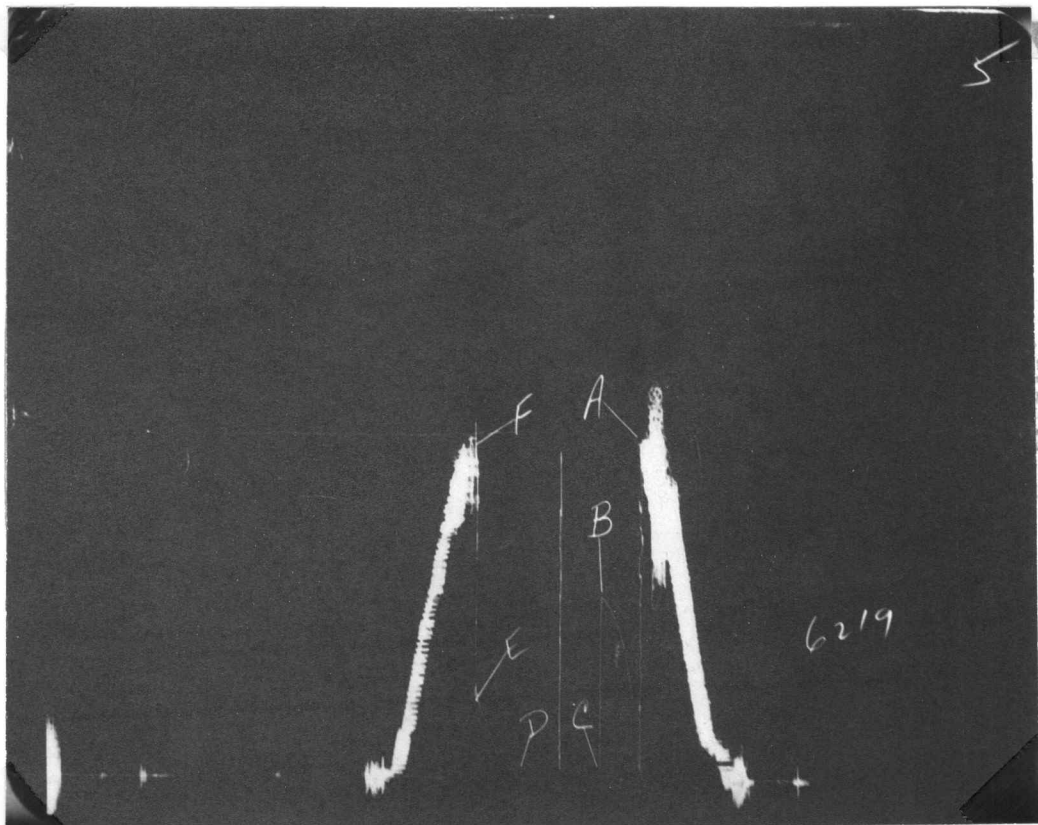
ST. NO. 1134 DEPTH 3520

	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	45	.000	40	.000	40
P1			.042	613	.083	40	.042	58
P2			.083	768	.167	40	.083	101
P3			.125	908	.250	40	.125	159
P4			.167	992	.333	40	.167	259
P5			.209	1039	.416	40	.209	359
P6			.250	1046	.499	40	.250	457
P7								
P8								
P9								
P10								
	MINUTE INTERVAL		5	MINUTE INTERVAL	10	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

- (A) Initial Hydrostatic Pressure 1908
- (B) Initial Shut-in Pressure 1046
- (C) Initial Flow Pressure 40
- (D) Final Flow Pressure 40
- (E) Final Shut-in Pressure 457
- (F) Final Hydrostatic Pressure 1863

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MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 8, 1962

Formation Test No. #5 Total Depth 3559'

Interval Tested 3527' To 3559' Anchor Length 32'

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

Mud Weight 9.9 Viscosity 41 Bottom Hole Temp. 105 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 6220

RECOVERY

GOOD TO WEAK BLOW IN 1 HOUR.

150 FEET OF HEAVY OIL CUT MUD.

Lease and Well No. BRACK #1 16-17-16 Formation Test No. #5

COMPANY CITIES SERVICE PETROLEUM CO. DATE AUGUST 8, 1962

LEASE BRACK WELL NO. 1 TEST NO. 5 TICKET NO. 6220

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	—	1919
INITIAL CLOSED IN PRESSURE	30 MINS.	757
INITIAL FLOW	—	34
FINAL FLOW	60 MINS.	67
FINAL CLOSED IN PRESSURE	30 MINS.	203
FINAL HYDRO MUD PRESSURE	—	1908

TOTAL DEPTH 3559

PACKER DEPTH 3527

BT. NO. 1134 DEPTH 3554

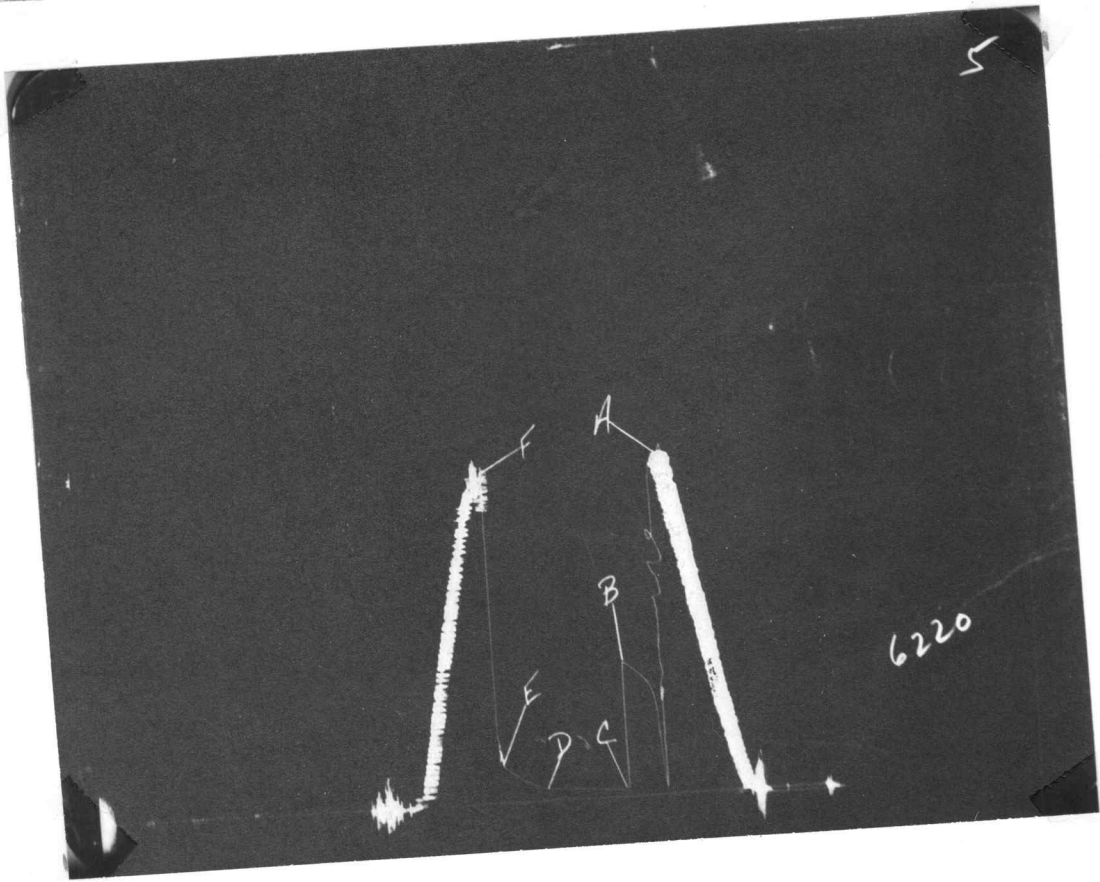
	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .090"	PSI TEMP. CORR.	TIME DEFL. .090"	PSI TEMP. CORR.	TIME DEFL. .090"	PSI TEMP. CORR.	TIME DEFL. .090"	PSI TEMP. CORR.
P0			.000	34	.000	45	.000	67
P1			.042	502	.083	47	.042	78
P2			.083	628	.167	49	.083	101
P3			.125	681	.250	56	.125	123
P4			.167	719	.333	60	.167	172
P5			.209	746	.416	63	.209	187
P6			.250	757	.499	67	.250	203
P7								
P8								
P9								
P10								
	MINUTE INTERVAL		5	MINUTE INTERVAL	10	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

- (A) Initial Hydrostatic Pressure 1919
- (B) Initial Shut-in Pressure 757
- (C) Initial Flow Pressure 34
- (D) Final Flow Pressure 67
- (E) Final Shut-in Pressure 203
- (F) Final Hydrostatic Pressure 1908

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Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 9, 1962

Formation Test No. #6 Total Depth 3630'
Interval Tested 3624' To 3630' Anchor Length 6'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 ACME Size Packer 6 3/4
Mud Weight 9.8 Viscosity 44 Bottom Hole Temp. 106 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 6187

RECOVERY

WEAK BLOW FOR 4 MINUTES ON THE INITIAL SHUT IN PRESSURE.

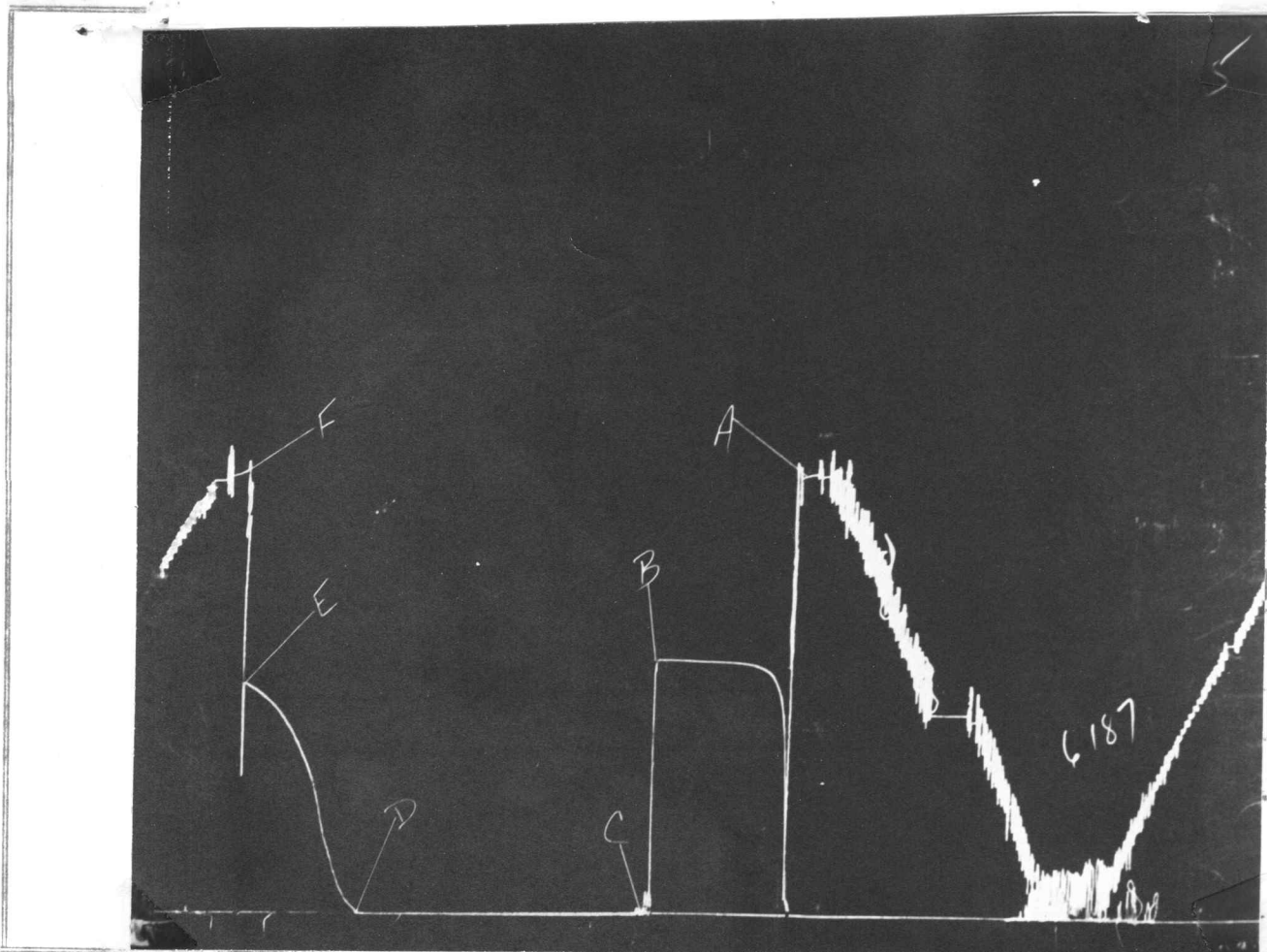
30 FEET OF DRILLING MUD.

Lease and Well No. BRACK #1

16-17-16

Formation Test No. #6

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

- (A) Initial Hydrostatic Pressure 1870
- (B) Initial Shut-in Pressure 1080
- (C) Initial Flow Pressure 0
- (D) Final Flow Pressure 0
- (E) Final Shut-in Pressure 995
- (F) Final Hydrostatic Pressure 1820

6187

COMPANY CITIES SERVICE PETROLEUM CO.

DATE AUGUST 10, 1962

LEASE BRACK

WELL NO. 1

TEST NO. 7

TICKET NO. 6188

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	—	1963
INITIAL CLOSED IN PRESSURE	30 MINS.	1100
INITIAL FLOW	—	50
FINAL FLOW	60 MINS.	435
FINAL CLOSED IN PRESSURE	30 MINS.	1075
FINAL HYDRO MUD PRESSURE	—	1900

TOTAL DEPTH 3650

PACKER DEPTH 3630

BT. NO. 1049 DEPTH 3645

	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	35	.000	69	.000	435
P1			.042	1095	.083	128	.042	1045
P2			.083	1097	.167	210	.083	1065
P3			.125	1099	.250	275	.125	1070
P4			.167	1100	.333	328	.167	1075
P5			.209	1100	.416	375	.209	1075
P6			.250	1100	.499	435	.250	1075
P7								
P8								
P9								
P10								
	MINUTE INTERVAL		5	MINUTE INTERVAL	10	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

101-11-01

MILLER TESTING COMPANY

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GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 10, 1962

Formation Test No. #7 Total Depth 3650'

Interval Tested 3630' To 3650' Anchor Length 20'

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

Mud Weight 9.6 Viscosity 41 Bottom Hole Temp. 109 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 6188

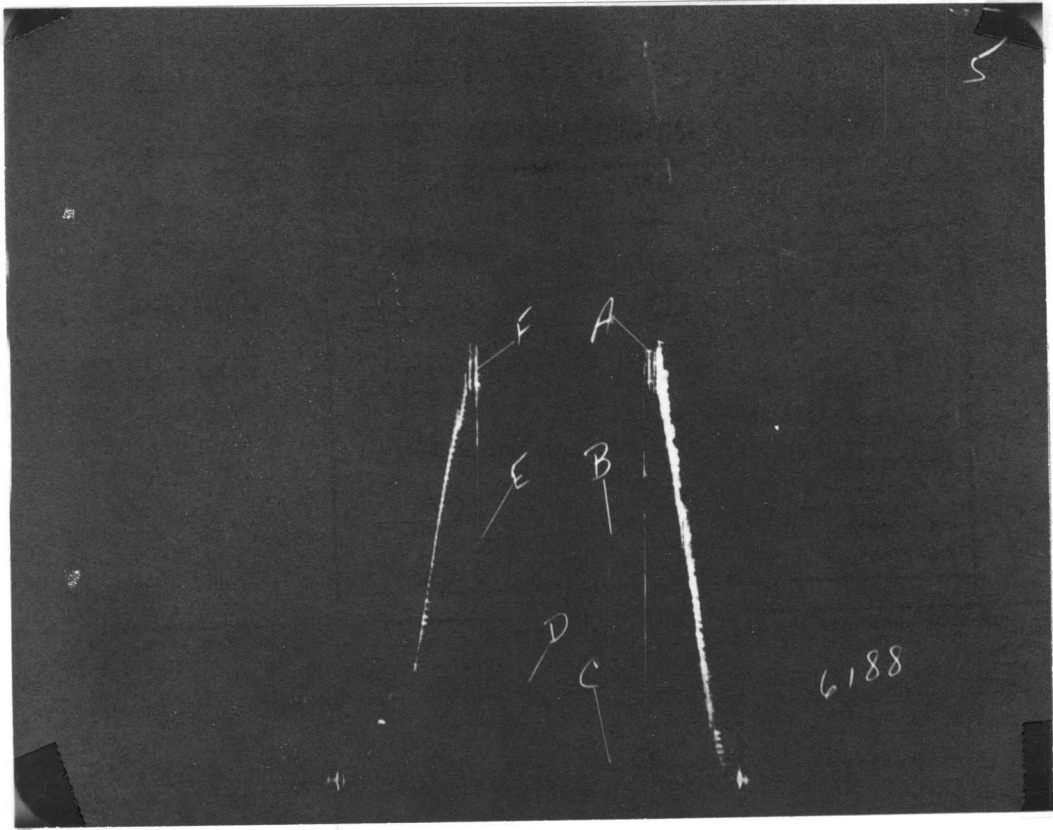
RECOVERY

FAIR BLOW THROUGHOUT TEST.

950 FEET OF THIN WATERY MUD GOING TO
CLEAR SALT WATER.

Lease and Well No. BRACK #1 16-17-16 Formation Test No. #7

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

- (A) Initial Hydrostatic Pressure 1963
- (B) Initial Shut-in Pressure 1100
- (C) Initial Flow Pressure 50
- (D) Final Flow Pressure 435
- (E) Final Shut-in Pressure 1075
- (F) Final Hydrostatic Pressure 1900

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MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE PETROLEUM CO.

Lease and Well No. BRACK #1

County RUSH State KANSAS Date AUGUST 11, 1962

Formation Test No. #8 Total Depth 3754'
Interval Tested 3748' To 3754' Anchor Length 6'
Size Hole 7 7/8 Size Drill Pipe 4 1/2" ACME Size Packer 6 3/4
Mud Weight 9.7 Viscosity 42 Bottom Hole Temp. 110 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 6224

RECOVERY

STRONG BLOW FOR 1 HOUR.

1200 FEET OF BLACK SALT WATER.

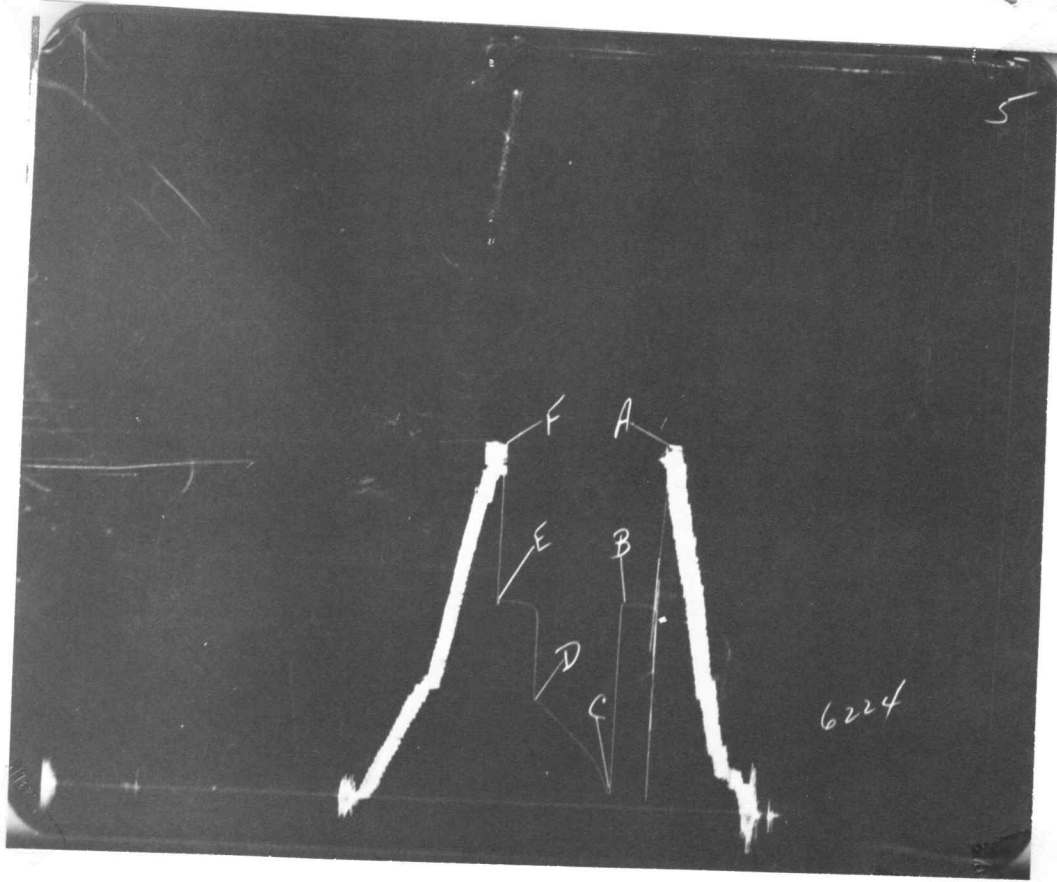
SPECIAL PRESSURE DATA

Lease and Well No. BRACK #1

16-17-16

Formation Test No. #8

Pressure: Each Square _____ psi



Tool Open 1 hr. _____ mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

(A) Initial Hydrostatic Pressure	<u>2076</u>
(B) Initial Shut-in Pressure	<u>1149</u>
(C) Initial Flow Pressure	<u>69</u>
(D) Final Flow Pressure	<u>591</u>
(E) Final Shut-in Pressure	<u>1140</u>
(F) Final Hydrostatic Pressure	<u>2032</u>

6224