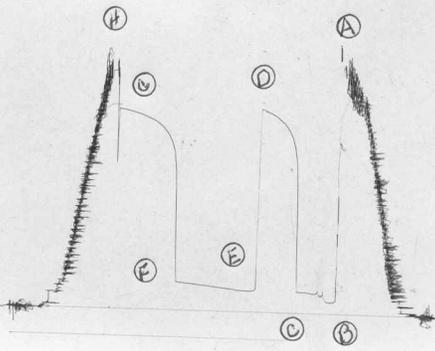


Ticket # 437

Rev. # 13753

OST 1



FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 1

Zone Tested: Indian Cave

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 5/29/84

Elevation: 1497 K.B.

Tester: Craig Bucl

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5 Interval Tested: 2525'-2555'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 2526'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 2551'

Initial Hydrostatic Mud: 1233 P.S.I.

Initial Flow Pressure 58 To 116 P.S.I.

Initial Shut-In Pressure 1048 P.S.I.

Final Flow Pressure 116 To 151 P.S.I.

Final Shut-In Pressure 1031 P.S.I.

Final Hydrostatic Mud 1223 P.S.I.

Temperature: 93° Tool Open: 2:10 A.M.

Mud Weight 9.7 Viscosity 28 Water Loss -

Total Depth: 2555'

Anchor Length: 30'

Bottom Packer: 2525'

Top Packer: 2520'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X.H.

Collars Run: 120' I.D. 2.25"

Main Hole Size: 7 7/8"

245 Feet Total Recovery

Recovered 245 Feet Muddy salt water.

Recovered _____ Feet _____

Recovered _____ Feet _____

Recovered _____ Feet _____

Extra Equipment: None Price of Job: 600.00

Initial Flow Period 30 Min.

Initial Shut-In 30 Min.

Final Flow Period 60 Min.

Final Shut-In 45 Min.

Blow: Steadily increasing to strong blow.

Weaker to strong blow second opening.

Remarks Tool slid 5' to bottom.

Wt. Pipe Run: - I.D. -

Rubber Size: 6 5/8"

FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 2

Zone Tested: Toronto

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 5/31/84

Elevation: 1497 K.B.

Tester: Craig Bucl

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5 Interval Tested: 3581'-3615'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 3586'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 3611'

Initial Hydrostatic Mud: - P.S.I.

Initial Flow Pressure - To - P.S.I.

Initial Shut-In Pressure - P.S.I.

Final Flow Pressure - To - P.S.I.

Final Shut-In Pressure - P.S.I.

Final Hydrostatic Mud - P.S.I.

Temperature: _____ Tool Open: _____

Mud Weight 9.2 Viscosity 42 Water Loss -

Total Depth: 3615'

Anchor Length: 34'

Bottom Packer: 3581'

Top Packer: 3576'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X.H.

Collars Run: 120 I.D. 2.25"

Main Hole Size: 7 7/8"

180 Feet Total Recovery

Recovered 180 Feet Mud with oil specks in tool.

Recovered _____ Feet _____

Recovered _____ Feet _____

Recovered _____ Feet _____

Extra Equipment: None

Price of Job: 300.00

Initial Flow Period - Min.

Initial Shut-In - Min.

Final Flow Period - Min.

Final Shut-In - Min.

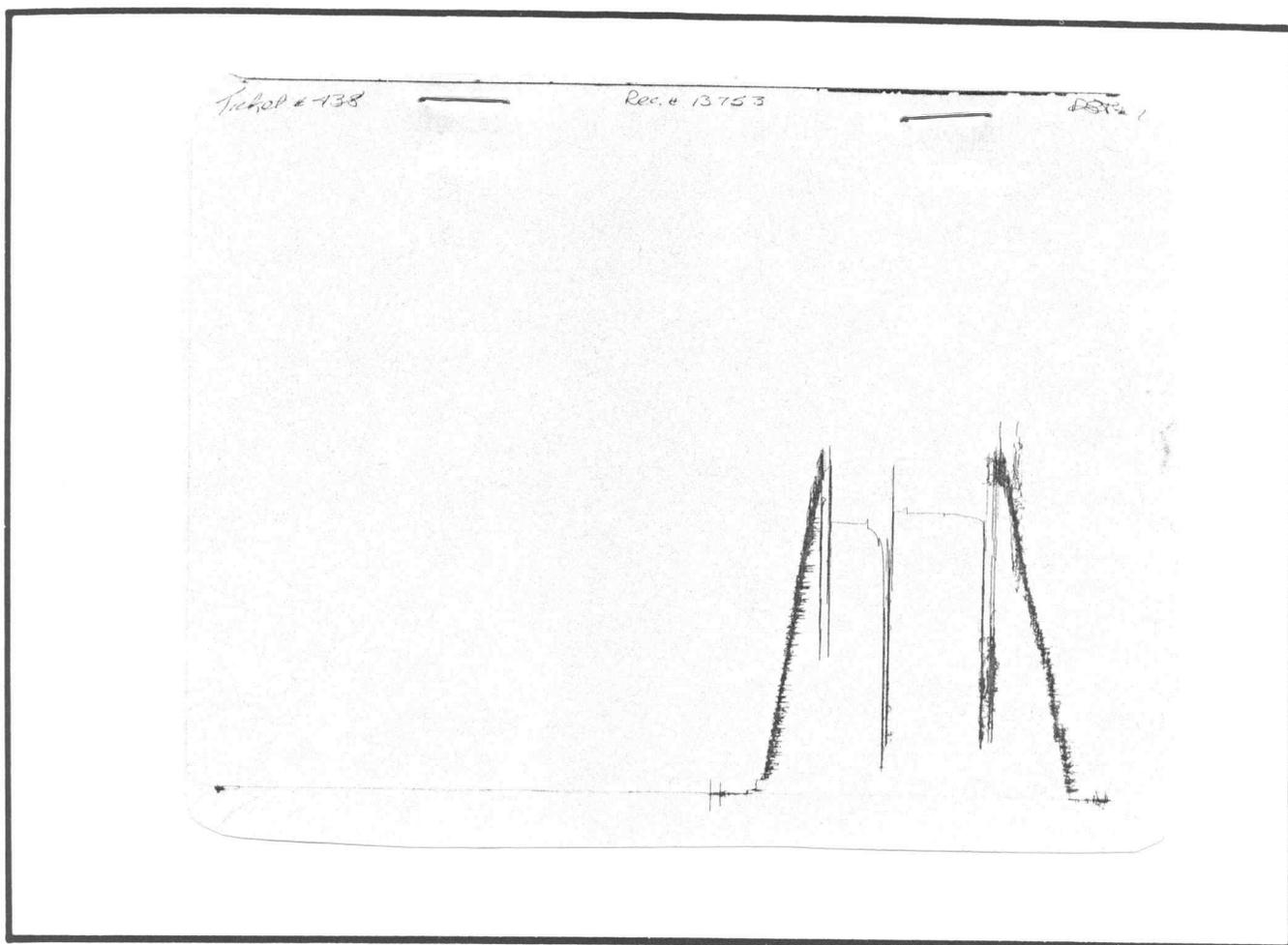
Blow: Weak initial blow decreasing and surging. Similar second opening.

Remarks Tool slid approximately 30' to bottom. Unable to reach bottom.

MISRUN.

Wt. Pipe Run: - I.D. -

Rubber Size: 6 5/8"



POINT

- (A) Initial Hydrostatic Mud - PSI
- (B) First Initial Flow Pressure - PSI
- (C) First Final Flow Pressure - PSI
- (D) Initial Closed-in Pressure - PSI
- (E) Second Initial Flow Pressure - PSI
- (F) Second Final Flow Pressure - PSI
- (G) Final Closed-in Pressure - PSI
- (H) Final Hydrostatic Mud - PSI

FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 3

Zone Tested: Douglas Sand

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 5/31/84

Elevation: 1497 K.B.

Tester: Craig Bucl

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5

Interval Tested: 3640' - 3685'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 3646'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 3681'

Initial Hydrostatic Mud: 1805 P.S.I.

Initial Flow Pressure 145 To 213 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 1281 P.S.I.

Initial Shut-In 30 Min.

Final Flow Pressure 242 To 407 P.S.I.

Final Flow Period 60 Min.

Final Shut-In Pressure 1262 P.S.I.

Final Shut-In 45 Min.

Final Hydrostatic Mud 1767 P.S.I.

Temperature: 113° Tool Open: 7:30 P.M.

Blow: Strong blow both openings.

Mud Weight 8.8 Viscosity 40 Water Loss 10.0

Total Depth: 3685'

Anchor Length: 45'

Remarks Opened tool, and slid 15' to bottom.

Bottom Packer: 3640'

Top Packer: 3635'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X.H.

Collars Run: 120 I.D. 2.25"

Wt. Pipe Run: - I.D. -

Main Hole Size: 7 7/8"

Rubber Size: 6 5/8"

680 Feet Total Recovery

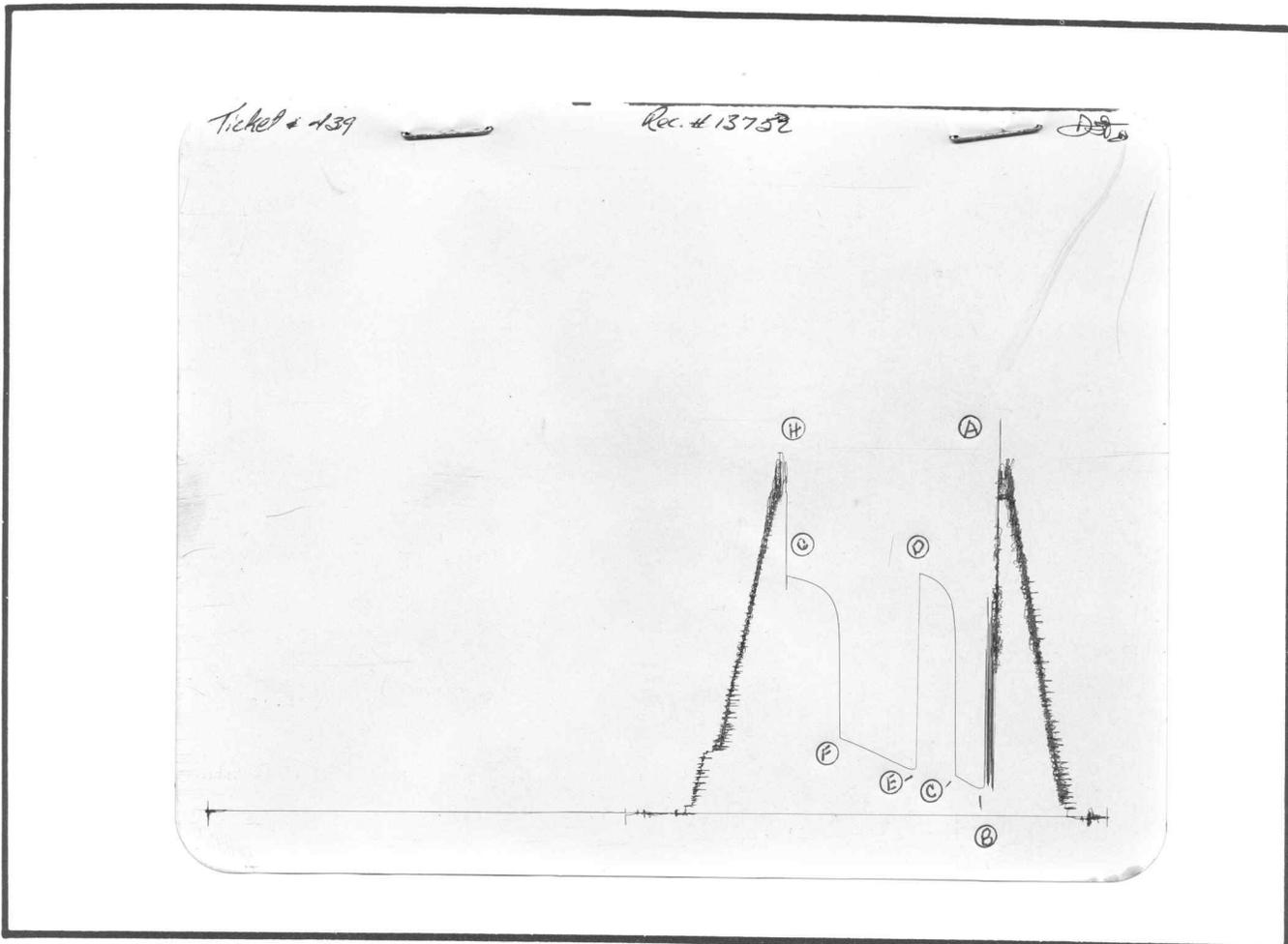
Recovered 110 Feet Mud

Recovered 570 Feet Salt Water, 82,000 P.P.M. Cl⁻

Recovered Feet

Recovered Feet

Extra Equipment: None Price of Job: 600.00



POINT

(A) Initial Hydrostatic Mud	1805	PSI
(B) First Initial Flow Pressure	145	PSI
(C) First Final Flow Pressure	213	PSI
(D) Initial Closed-in Pressure	1281	PSI
(E) Second Initial Flow Pressure	242	PSI
(F) Second Final Flow Pressure	407	PSI
(G) Final Closed-in Pressure	1262	PSI
(H) Final Hydrostatic Mud	1767	PSI

FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 4

Zone Tested: Cherokee Sand

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 6/3/84

Elevation: 1497 K.B.

Tester: Craig Bucl

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5

Interval Tested: 4394' - 4410'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 4401'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 4406'

Initial Hydrostatic Mud: 2258 P.S.I.

Initial Flow Pressure 48 To 48 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 72 P.S.I.

Initial Shut-In 30 Min.

Final Flow Pressure 29 To 29 P.S.I.

Final Flow Period 90 Min.

Final Shut-In Pressure 58 P.S.I.

Final Shut-In 60 Min.

Final Hydrostatic Mud 2188 P.S.I.

Temperature: 118° Tool Open: 7:30 P.M.

Blow: Weak building to 3" blow first opening.

Mud Weight 9.4 Viscosity 57 Water Loss 10.0

No blow second opening.

Total Depth: 4410'

Anchor Length: 16'

Remarks _____

Bottom Packer: 4394'

Top Packer: 4389'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X.H.

Collars Run: 120 I.D. 2.25"

Wt. Pipe Run: - I.D. -

Main Hole Size: 7 7/8"

Rubber Size: 6 5/8"

35 Feet Total Recovery

Recovered 150 Feet Gas in pipe.

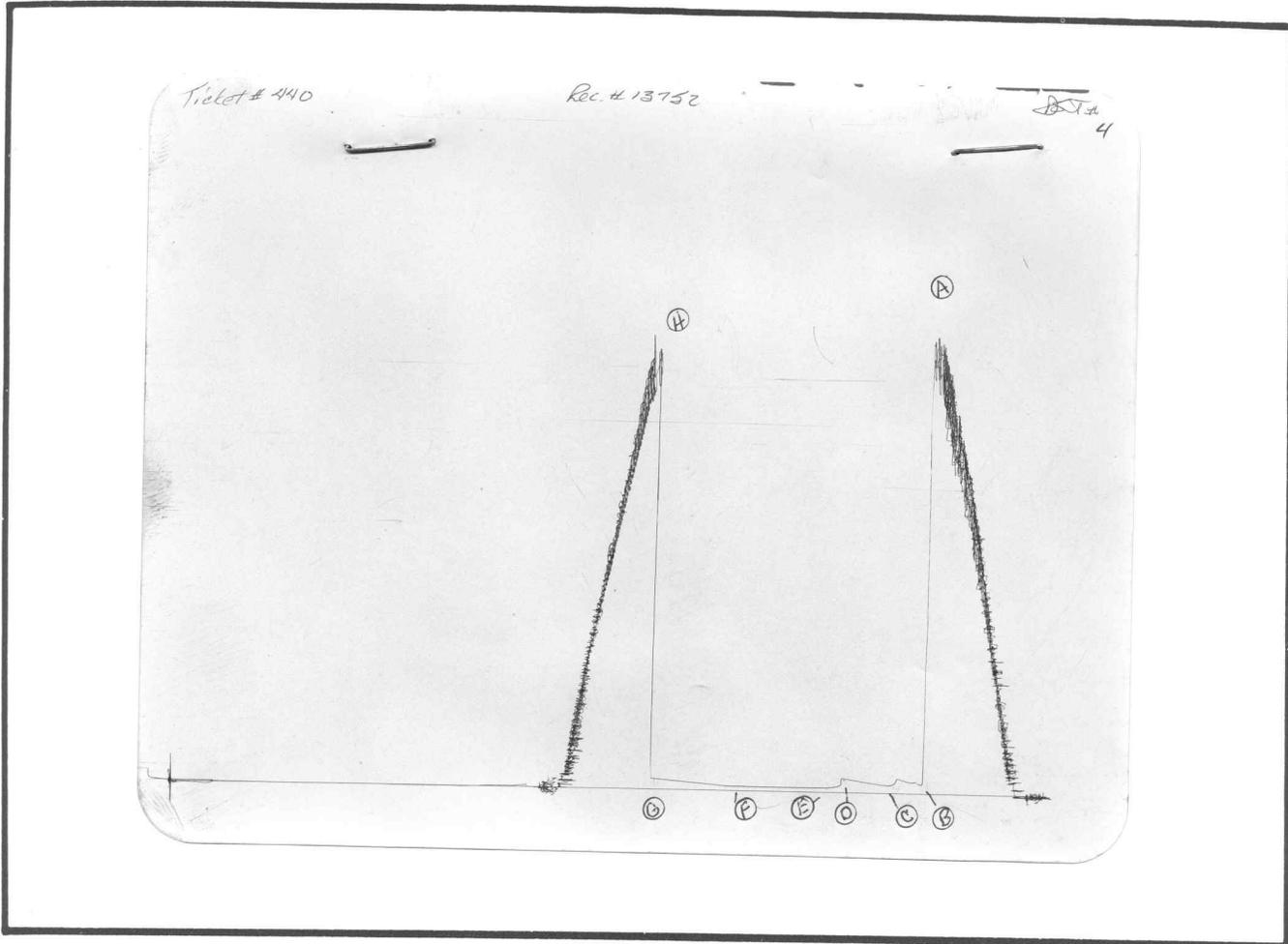
Recovered 35 Feet Gas cut mud with oil specks in tool.

Recovered _____ Feet _____

Recovered _____ Feet _____

Extra Equipment: None.

Price of Job: 650.00



POINT

(A) Initial Hydrostatic Mud	2258	PSI
(B) First Initial Flow Pressure	48	PSI
(C) First Final Flow Pressure	48	PSI
(D) Initial Closed-in Pressure	72	PSI
(E) Second Initial Flow Pressure	29	PSI
(F) Second Final Flow Pressure	29	PSI
(G) Final Closed-in Pressure	58	PSI
(H) Final Hydrostatic Mud	2188	PSI

FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 5

Zone Tested: Mississippi

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 6/4/84

Elevation: 1497 K.B.

Tester: Craig Bucl

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5

Interval Tested: 4394'-4450'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 4428'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 4446'

Initial Hydrostatic Mud 2258 P.S.I.

Initial Flow Pressure 107 To 203 P.S.I.

Initial Flow Period 30 Min.

Initial Shut-In Pressure 262 P.S.I.

Initial Shut-In 30 Min.

Final Flow Pressure 223 To 242 P.S.I.

Final Flow Period 30 Min.

Final Shut-In Pressure 329 P.S.I.

Final Shut-In 45 Min.

Final Hydrostatic Mud 2159 P.S.I.

Temperature: 118° Tool Open: 9:15 A.M.

Mud Weight 9.3 Viscosity 51 Water Loss 10

Total Depth: 4450'

Anchor Length: 56'

Bottom Packer: 4394'

Top Packer: 4389'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X H.

Collars Run: 120 I.D. 2.25"

Main Hole Size: 7 7/8"

115 Feet Total Recovery

Recovered 115 Feet Gas Cut mud.

Recovered _____ Feet _____

Recovered _____ Feet _____

Recovered _____ Feet _____

Extra Equipment: None

Blow: First opening, building to bottom of bucket in 1/2 minute. Gas to surface in nine minutes. Second opening, building to bottom in one minute, decreasing thereafter. Gas too weak to measure second opening.

Wt. Pipe Run: - I.D. -

Rubber Size: 6 5/8"

Price of Job: 650.00

SURFACE FLOW DATA

COMPANY Sun West Exploration TEST NO. 5
 TICKET NO. 0441 DATE 6/4/84

TIME PRE-FLOW	P.S.I. INS. OF WTR.	ORFICE	C.F.P.D. THRU 2"
15 Minutes	7 In. of water	$\frac{1}{2}$ "	16,700
30 Minutes	7 In. of water	$\frac{1}{2}$ "	16,700

SECOND FLOW

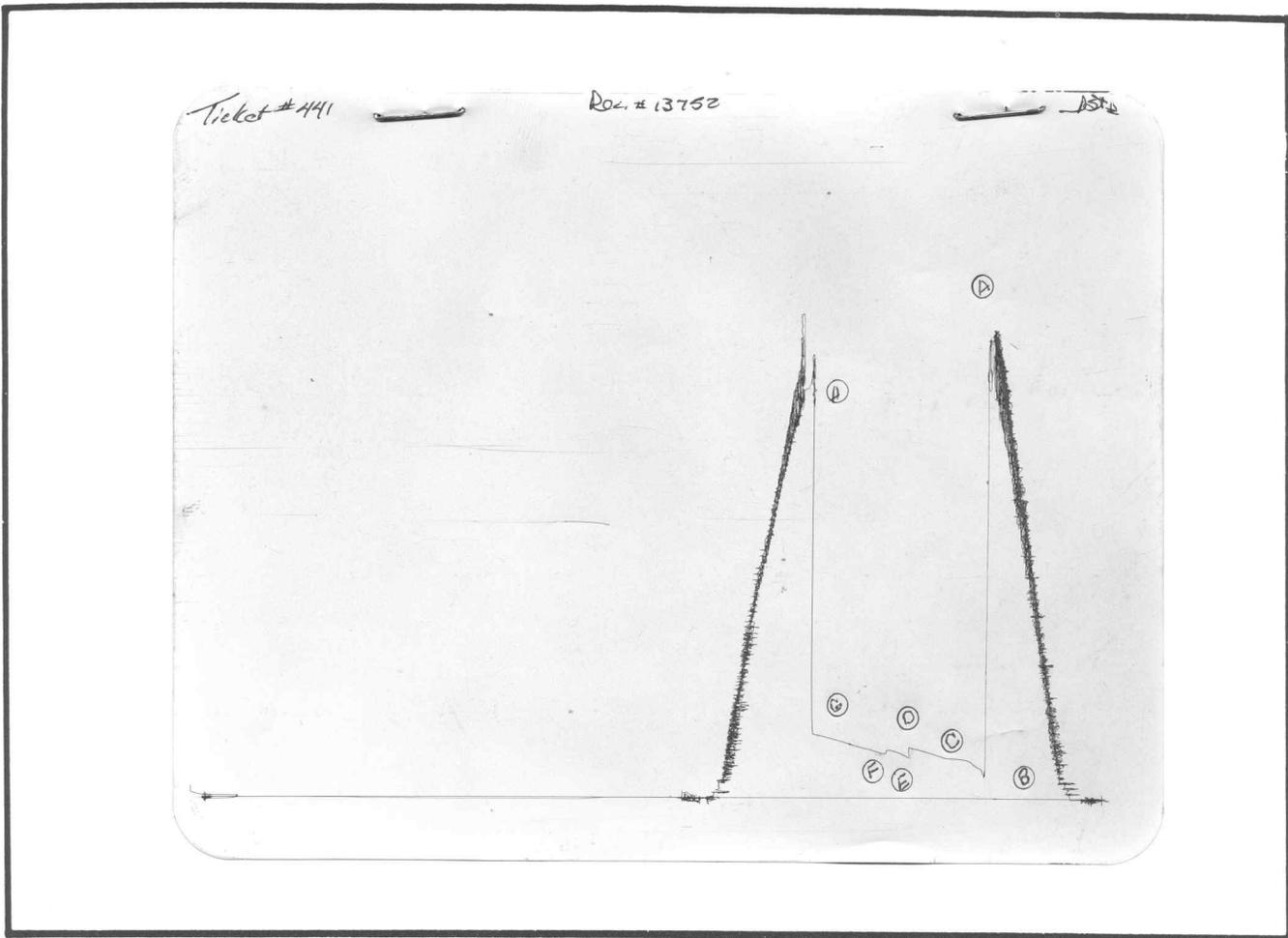
15 Minutes	Too weak to measure.		

SIZE CHOKE SURFACE 1 IN. BOTTOM 3/4 IN.

REMARKS _____

SAMPLE BOTTLE NO. _____

2" Orifice Well Tester Flow Rate-MCF Day
 Based on: 14.65 P.S.I.A., 60 F., 0.60 Specific Gravity



POINT

(A) Initial Hydrostatic Mud	PSI
(B) First Initial Flow Pressure	PSI
(C) First Final Flow Pressure	PSI
(D) Initial Closed-in Pressure	PSI
(E) Second Initial Flow Pressure	PSI
(F) Second Final Flow Pressure	PSI
(G) Final Closed-in Pressure	PSI
(H) Final Hydrostatic Mud	PSI

FORMATION TESTING SERVICE

P.O.Box 518, Hays, Kansas 67601
Telephone (913) 628-1115

Test# 6

Zone Tested: Mississippi

Lease Name: Mary Van Iwaarden

Location: Sec. 24 Twp. 32S Rng. 11W

County Barber St. Kansas

Date: 6/6/84

Elevation: 1497 K.B.

Tester: 4450'-4485'

Company: Sun West Exploration

Company Address: Englewood, Colorado

Company Representative: Mr. Doug McGinness

Contractor: Allen Rig #5 Interval Tested: 4450'-4485'

Internal Recorder-Type: AK-1 Range: 3900 No: 13752 Depth: 4451'

External Recorder-Type: AK-1 Range: 3950 No: 13753 Depth: 4802'

Initial Hydrostatic Mud: 2268 P.S.I.

Initial Flow Pressure 58 To 68 P.S.I.

Initial Shut-In Pressure 310 P.S.I.

Final Flow Pressure 78 To 87 P.S.I.

Final Shut-In Pressure 407 P.S.I.

Final Hydrostatic Mud 2188 P.S.I.

Temperature: 119° Tool Open: 8:20 A.M.

Mud Weight 9.7 Viscosity 57 Water Loss 9.5

Total Depth: 4806'

Anchor Length: 35'

Bottom Packer: 4485'

Top Packer: 4480'

Surface Choke: 1"

Bottom Choke: 3/4"

Drill Pipe Size: 4 1/2" X.H.

Collars Run: 120 I.D. 2.25"

Main Hole Size: 7 7/8"

120 Feet Total Recovery

Recovered 1200 Feet Gas in Pipe.

Recovered 60 Feet Very slightly oil specked mud.

Recovered 60 Feet Very slightly oil specked muddy water, 1% oil, 20% water.

Recovered _____ Feet _____

Extra Equipment: Extra Packer, Straddle test. Price of Job: 1150.00

Initial Flow Period _____ Min.

Initial Shut-In _____ Min.

Final Flow Period _____ Min.

Final Shut-In _____ Min.

Blow: Weak building to bottom of bucket

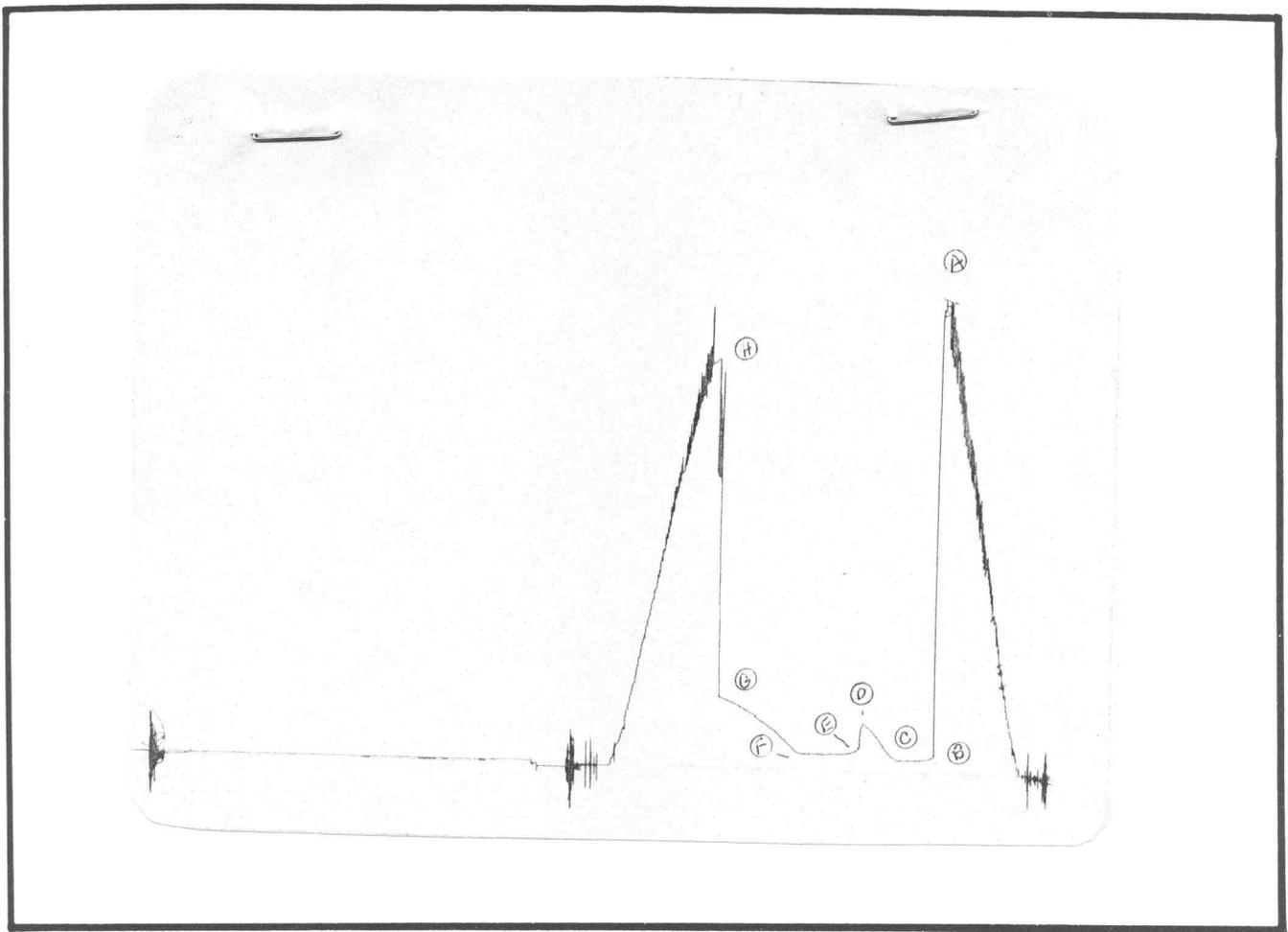
in five minutes. Slightly stronger

second opening.

Remarks _____

Wt. Pipe Run: - I.D. -

Rubber Size: 6 5/8"



POINT

(A) Initial Hydrostatic Mud	2268	PSI
(B) First Initial Flow Pressure	58	PSI
(C) First Final Flow Pressure	68	PSI
(D) Initial Closed-in Pressure	310	PSI
(E) Second Initial Flow Pressure	78	PSI
(F) Second Final Flow Pressure	87	PSI
(G) Final Closed-in Pressure	407	PSI
(H) Final Hydrostatic Mud	2188	PSI