

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Hinkle Oil Co.	Test No.	1
Well Name & Number	Carver #1	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	10-21-82
Comp. Rep.	Orvie Howell	Tester	Bill Nichols
Contractor	White & Ellis	Elevation	
Location: Sec. 15 Twp. 27 Rge. 15 Co. Pratt State KS.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 3861 PSI
 (A) Initial Hydrostatic Mud 2011 PSI
 (B) First Initial Flow Pressure 68 PSI
 (C) First Final Flow Pressure 126 PSI
 (D) Initial Closed-in Pressure 1201 PSI
 (E) Second Initial Flow Pressure 126 PSI
 (F) Second Final Flow Pressure 233 PSI
 (G) Final Closed-in Pressure 1162 PSI
 (H) Final Hydrostatic Mud 1982 PSI
 Temperature 110
 Mud Weight 9.5 Viscosity 46
 Fluid Loss 14.8
 Interval Tested 3848-70
 Anchor Length 22
 Top Packer Depth 3843
 Bottom Packer Depth 3848
 Total Depth 3870
 Drill Pipe Size 4½" XH
 Wt. Pipe I. D. 2.70 Ft. Run 338
 Recovery—Total Feet 510
 Recovered 270 Feet Of GASSY OIL CUT MUD. 40% GAS, 10% OIL, 15% WATER, 35% MUD.
 Recovered 240 Feet Of GASSY SALT WATER.
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Extra Equipment NONE Price of Job \$600.00

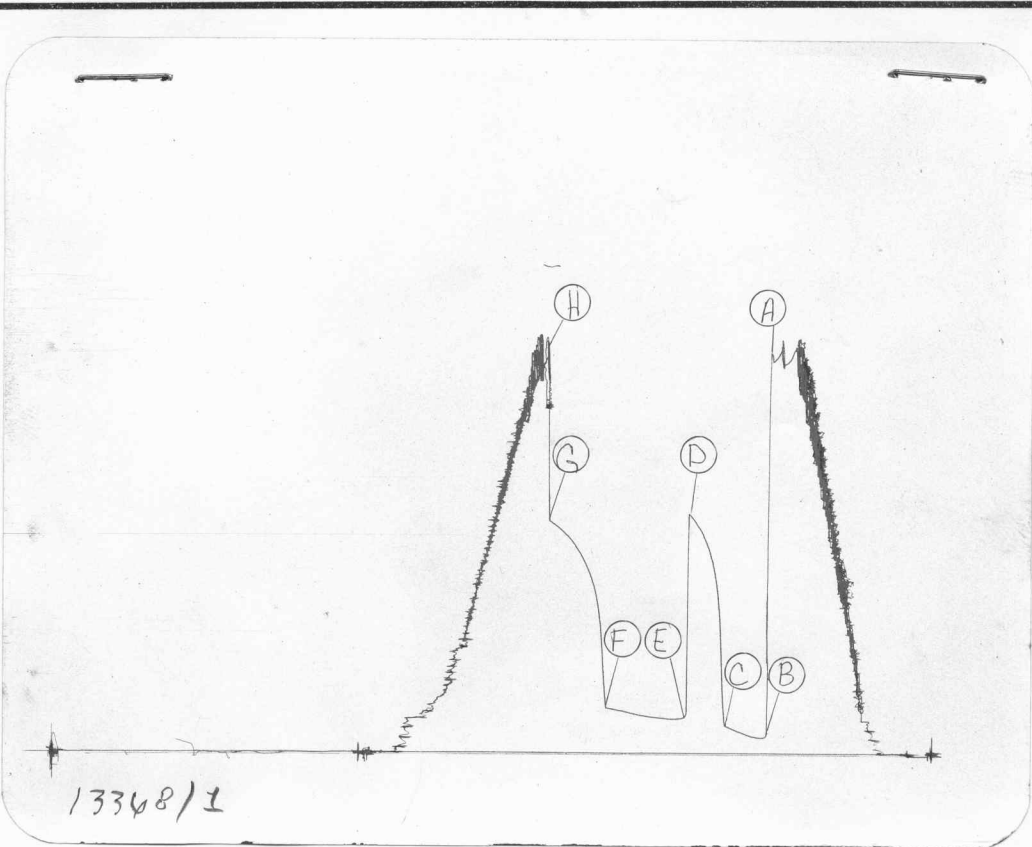
Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 3865
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size ¾"
 Main Hole Size 7⅞"
 Rubber Size 6¾"
 Tool Open @ 5:19 A.M.

Blow 1ST OPEN-STRONG BLOW 9" IN BUCKET.
 Remarks 2ND OPEN-FAIR BLOW 5" IN BUCKET.
300' GAS IN PIPE ABOVE FLUID.

CHLORIDES-84,000 P.P.M.
 Drill Collar I. D. - Ft. Run -

TICKET NO. 6185

NE-NW-5E



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2011	PSI
(B) First Initial Flow Pressure	68	PSI
(C) First Final Flow Pressure	126	PSI
(D) Initial Closed-in Pressure	1201	PSI
(E) Second Initial Flow Pressure	126	PSI
(F) Second Final Flow Pressure	233	PSI
(G) Final Closed-in Pressure	1162	PSI
(H) Final Hydrostatic Mud	1982	PSI

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

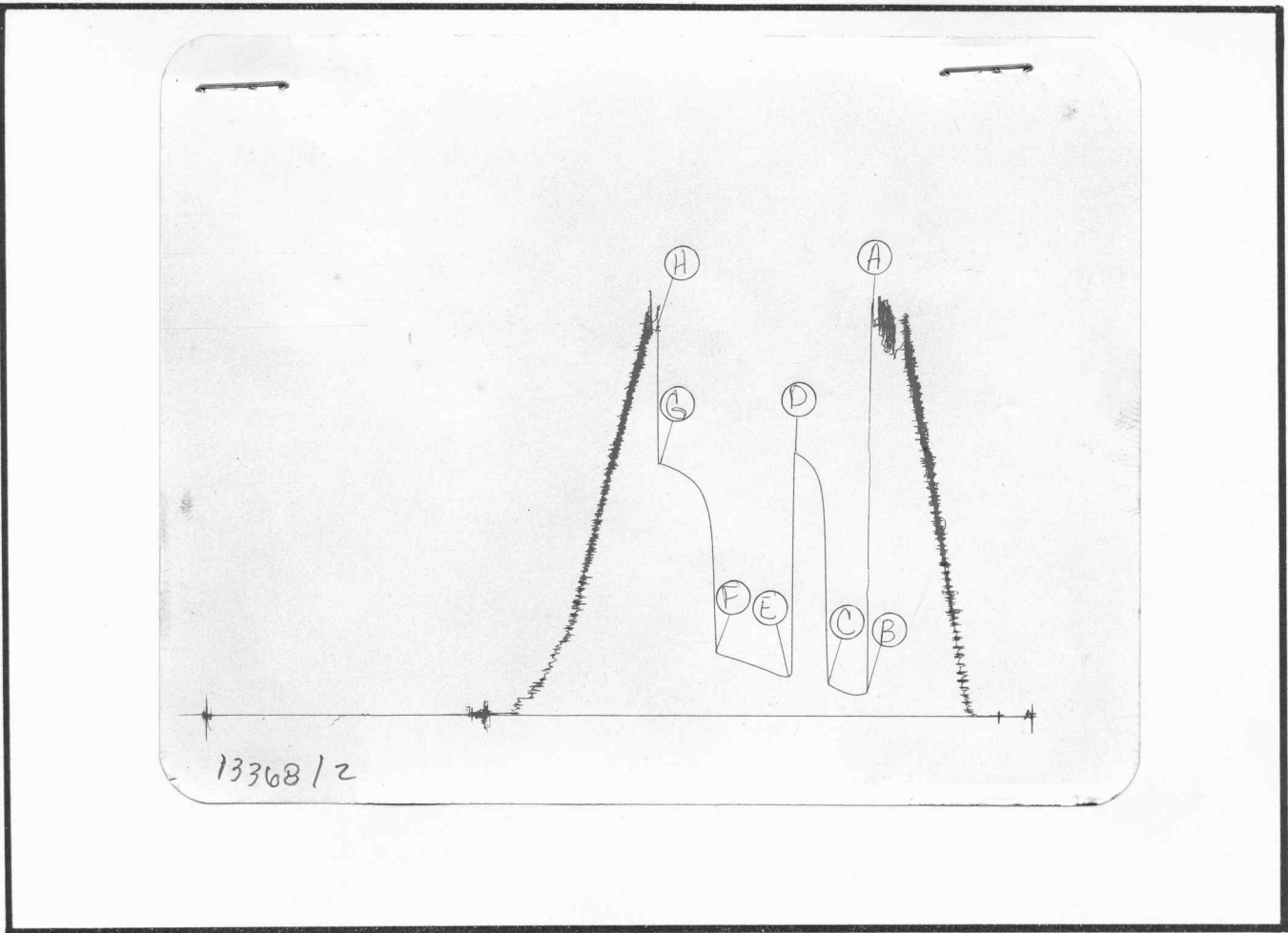
Company	Hinkle Oil Co.	Test No.	2
Well Name & Number	Carver #1	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	10-22-82
Comp. Rep.	Orvie Howell	Tester	Bill Nichols
Contractor	White & Ellis	Elevation	
Location: Sec. 15 Twp. 27 Rge. 15 Co. Pratt	State Ks.	Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 4061 PSI
 (A) Initial Hydrostatic Mud 2176 PSI
 (B) First Initial Flow Pressure 107 PSI
 (C) First Final Flow Pressure 175 PSI
 (D) Initial Closed-in Pressure 1385 PSI
 (E) Second Initial Flow Pressure 204 PSI
 (F) Second Final Flow Pressure 330 PSI
 (G) Final Closed-in Pressure 1327 PSI
 (H) Final Hydrostatic Mud 2156 PSI
 Temperature 114
 Mud Weight 9.5 Viscosity 45
 Fluid Loss 14.0
 Interval Tested 4030-70
 Anchor Length 40
 Top Packer Depth 4025
 Bottom Packer Depth 4030
 Total Depth 4070
 Drill Pipe Size 4½" XH
 Wt. Pipe I. D. - Ft. Run -
 Recovery—Total Feet 770
 Recovered 350 Feet Of GASSY OIL SPECKED MUD. LESS THAN 1% OIL.
 Recovered 420 Feet Of GASSY SALT WATER.
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment NONE Price of Job \$675.00

Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 4065
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size ¾"
 Main Hole Size 7⅞"
 Rubber Size 6¾"
 Tool Open @ 7:19 A.M.
 Blow 1ST OPEN-STRONG BLOW 14" IN BUCKET.
 Remarks 2ND OPEN-STRONG BLOW 12" IN BUCKET.

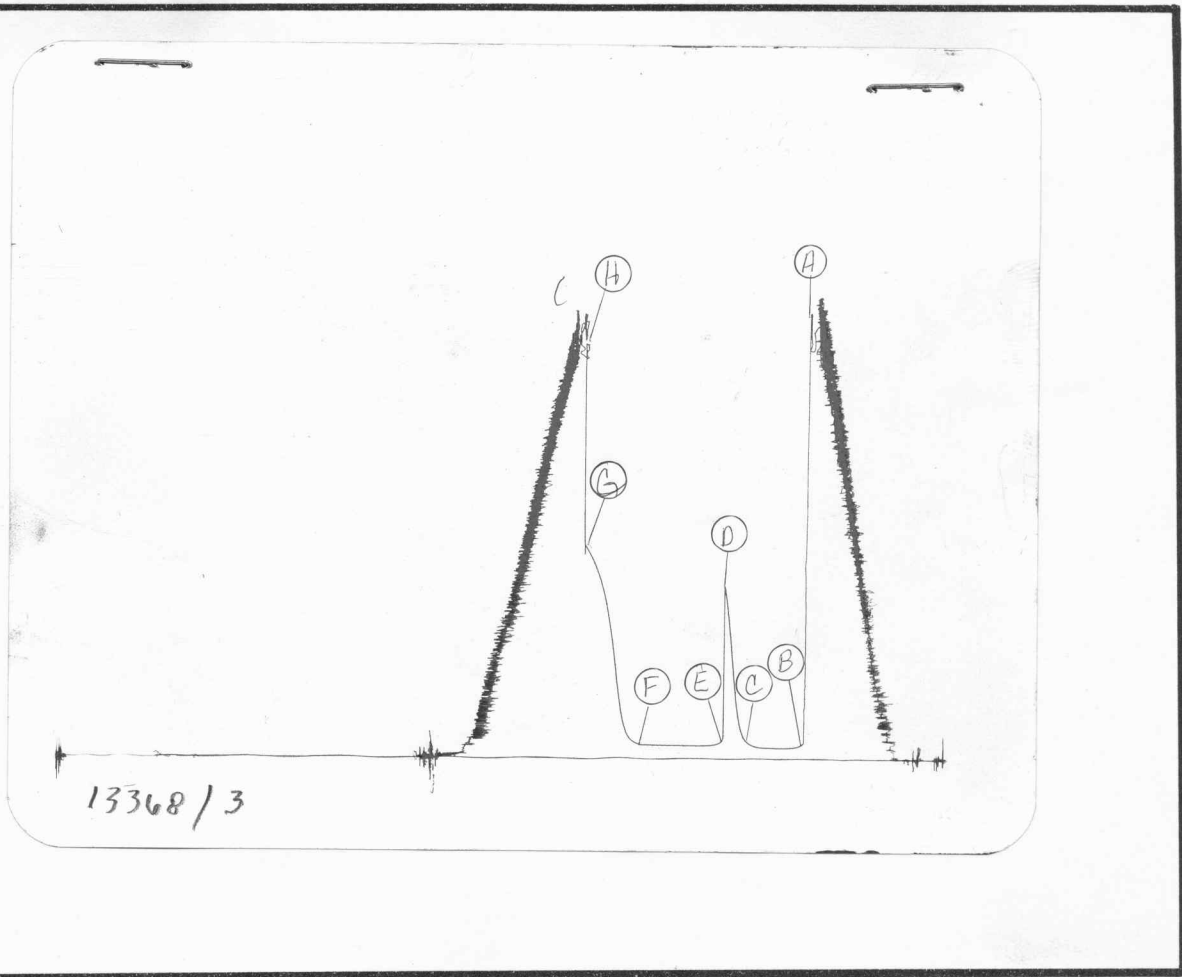
CHLORIDES 54,000 P.P.M.
 Drill Collar I. D. - Ft. Run -

TICKET No 0198



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2176		PSI
(B) First Initial Flow Pressure	107		PSI
(C) First Final Flow Pressure	175		PSI
(D) Initial Closed-in Pressure	1385		PSI
(E) Second Initial Flow Pressure	204		PSI
(F) Second Final Flow Pressure	330		PSI
(G) Final Closed-in Pressure	1327		PSI
(H) Final Hydrostatic Mud	2156		PSI



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2244		PSI
(B) First Initial Flow Pressure	48		PSI
(C) First Final Flow Pressure	48		PSI
(D) Initial Closed-in Pressure	862		PSI
(E) Second Initial Flow Pressure	58		PSI
(F) Second Final Flow Pressure	58		PSI
(G) Final Closed-in Pressure	1056		PSI
(H) Final Hydrostatic Mud	2224		PSI

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Hinkle Oil Co.	Test No.
Well Name & Number	Carver #1	Zone Tested
Company Address	Wichita, Ks.	Date
Comp. Rep.	Orvie Howell	Tester
Contractor	White & Ellis	Elevation
Location: Sec. 15 Twp. 27 Rge. 15 Co. Pratt State Ks.		Est. Feet of Pay

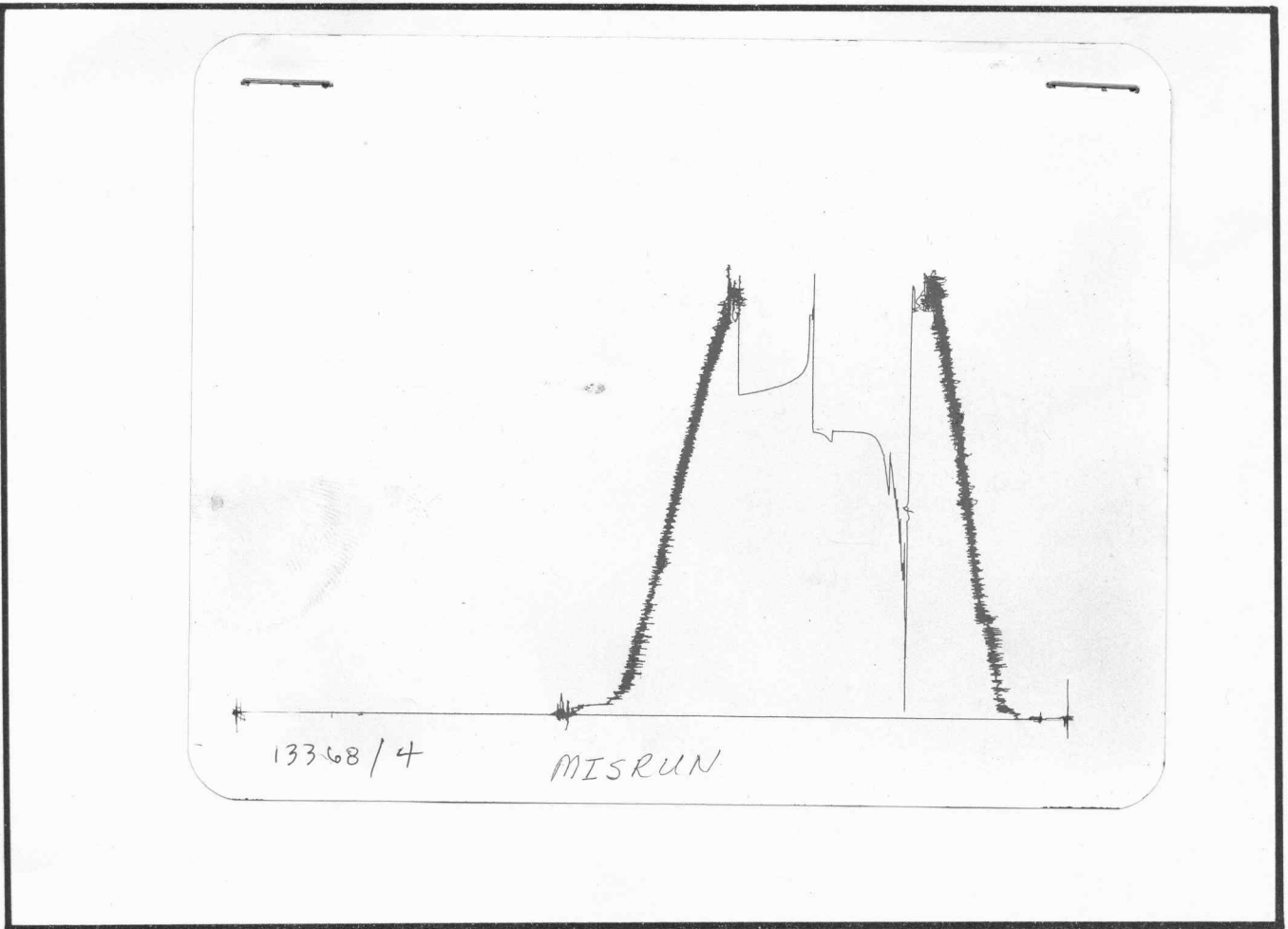
Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 4296
 (A) Initial Hydrostatic Mud - PSI
 (B) First Initial Flow Pressure - PSI
 (C) First Final Flow Pressure - PSI
 (D) Initial Closed-in Pressure - PSI
 (E) Second Initial Flow Pressure - PSI
 (F) Second Final Flow Pressure - PSI
 (G) Final Closed-in Pressure - PSI
 (H) Final Hydrostatic Mud - PSI
 Temperature 115
 Mud Weight 9.4 Viscosity 49
 Fluid Loss 12.8
 Interval Tested 4216-4305
 Anchor Length 89
 Top Packer Depth 4211
 Bottom Packer Depth 4216
 Total Depth 4305
 Drill Pipe Size 4 1/2" XH
 Wt. Pipe I. D. - Ft. Run -
 Recovery—Total Feet 170
 Recovered 170 Feet Of DRILLING MUD.
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 4300
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 30 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 10:21 P.M.
 Blow 1ST OPEN-STRONG BLOW 12" IN BUCKET.
 Remarks 2ND OPEN-WEAK BLOW, DECREASING 1/2"
DIED AT 12 MIN. INTO FLOW. FLUSHED TOOL AT
15 MIN., BLOW DID NOT RETURN.
MISRUN-PLUGGED TOOL.
HIT SMALL BRIDGE 4 1/2" STANDS OFF BOTTOM.
 Drill Collar I. D. - Ft. Run -

MISRUN- \$330.00
 BOWEN JARS- No Charge
 Price of Job \$330.00

TICKET NO 6458

NE-NW-5E



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(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

CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Hinkle Oil Co.	Test No.	5
Well Name & Number	Carver #1	Zone Tested	Viola
Company Address	Wichita, Ks.	Date	10-25-82
Comp. Rep.	Orvie Howell	Tester	Bill Nichols
Contractor	White & Ellis	Elevation	
Location: Sec. 15 Twp. 27 Rge. 15 Co. Pratt State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 4351
 (A) Initial Hydrostatic Mud 2312 PSI
 (B) First Initial Flow Pressure 68 PSI
 (C) First Final Flow Pressure 68 PSI
 (D) Initial Closed-in Pressure 756 PSI
 (E) Second Initial Flow Pressure 97 PSI
 (F) Second Final Flow Pressure 97 PSI
 (G) Final Closed-in Pressure 911 PSI
 (H) Final Hydrostatic Mud 2263 PSI
 Temperature 114
 Mud Weight 9.5 Viscosity 62
 Fluid Loss 12.6
 Interval Tested 4315-4360
 Anchor Length 45
 Top Packer Depth 4310
 Bottom Packer Depth 4315
 Total Depth 4360
 Drill Pipe Size 4 1/2" XH
 Wt. Pipe I. D. - Ft. Run -
 Recovery—Total Feet 240
 Recovered 240 Feet Of GASSY HEAVY OIL CUT MUD.
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment BOWEN JARS

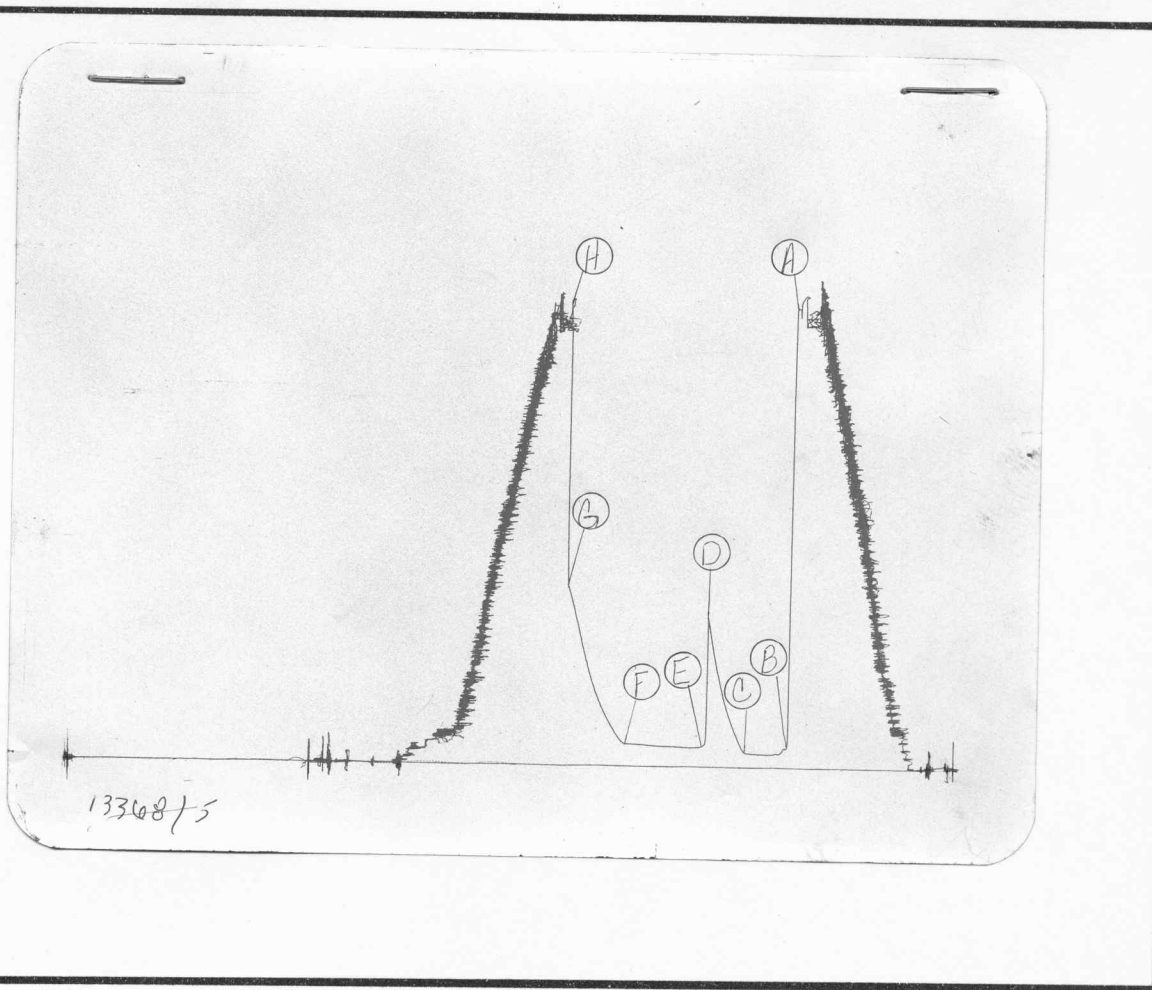
Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 4355
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 4:16 P.M.
 Blow 1ST OPEN-STRONG BLOW 14" IN BUCKET.
 Remarks 2ND OPEN-SAME.

540' GAS IN PIPE ABOVE FLUID.

Drill Collar I. D. - Ft. Run -
 DST- \$ 675.00
 BOWEN JARS- \$ 330.00
 Price of Job \$1005.00

TICKET No. 6491

NE-NW-S4



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2312		PSI
(B) First Initial Flow Pressure	68		PSI
(C) First Final Flow Pressure	68		PSI
(D) Initial Closed-in Pressure	756		PSI
(E) Second Initial Flow Pressure	97		PSI
(F) Second Final Flow Pressure	97		PSI
(G) Final Closed-in Pressure	911		PSI
(H) Final Hydrostatic Mud	2263		PSI

CHENEY TESTING COMPANY
P. O. BOX 3 HILL CITY, KANSAS 67642

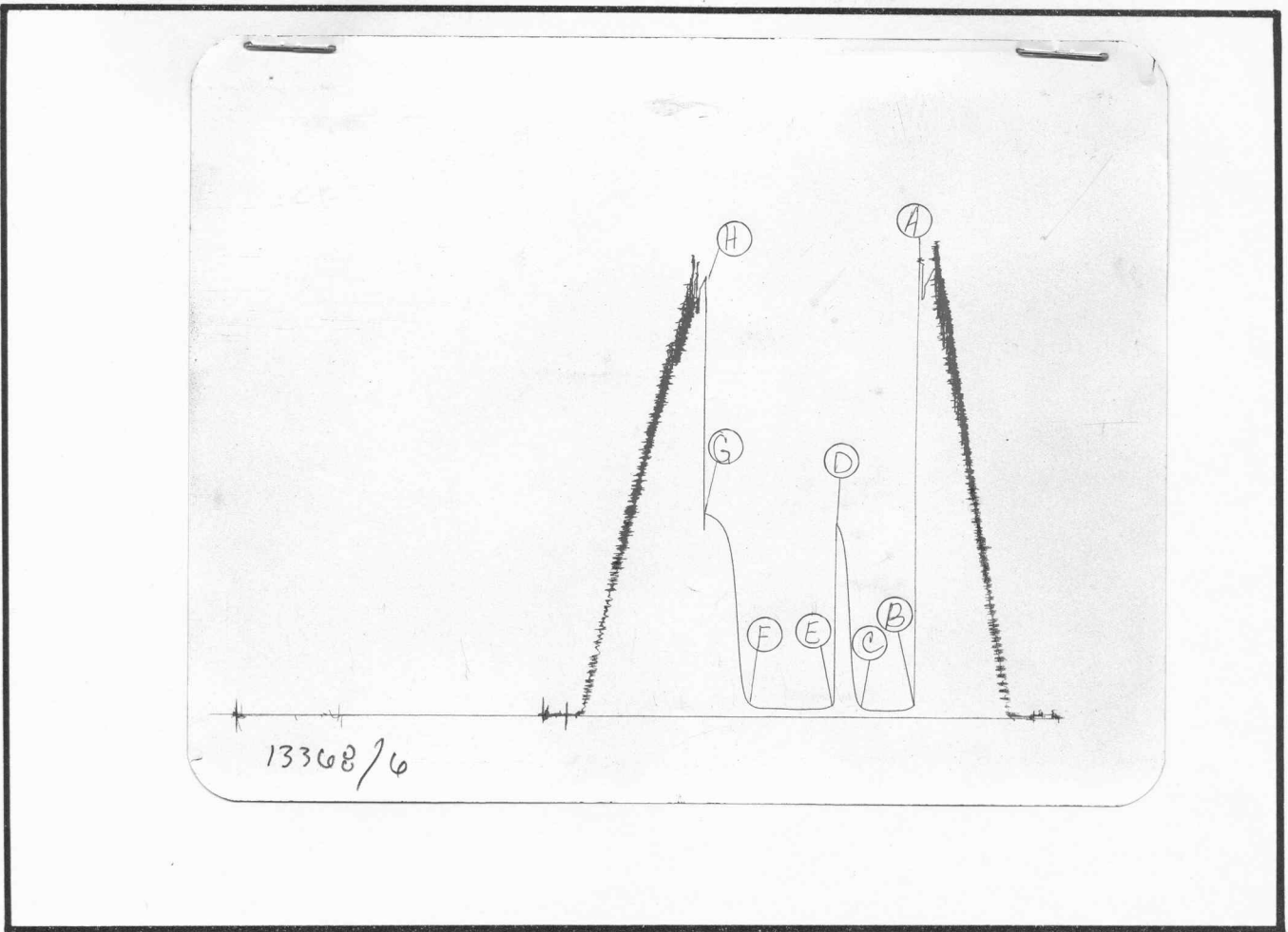
DRILL-STEM TEST DATA

Company	Hinkle Oil Co.	Test No.	6
Well Name & Number	Carver #1	Zone Tested	Simpson
Company Address	Wichita, Ks.	Date	10-26-82
Comp. Rep.	Orvie Howell	Tester	Bill Nichols
Contractor	White & Ellis	Elevation	
Location: Sec. 15 Twp. 27 Rge. 13 Co. Pratt State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
Recorder Depth 4379
(A) Initial Hydrostatic Mud 2428 PSI
(B) First Initial Flow Pressure 38 PSI
(C) First Final Flow Pressure 38 PSI
(D) Initial Closed-in Pressure 1017 PSI
(E) Second Initial Flow Pressure 38 PSI
(F) Second Final Flow Pressure 38 PSI
(G) Final Closed-in Pressure 1075 PSI
(H) Final Hydrostatic Mud 2370 PSI
Temperature 115
Mud Weight 9.4 Viscosity 60
Fluid Loss 12.8
Interval Tested 4370-4388
Anchor Length 18
Top Packer Depth 4365
Bottom Packer Depth 4370
Total Depth 4388
Drill Pipe Size 4 1/2" XH
Wt. Pipe I. D. - Ft. Run -
Recovery—Total Feet 50
Recovered 50 Feet Of DRILLING MUD WITH OIL SPECKS.
Recovered Feet Of
Recovered Feet Of
Recovered Feet Of
Extra Equipment NONE Price of Job \$675.00

Recorder No. 13368 Type AK-1 Range 3850 PSI
Recorder Depth 4383
Tool Open Before I. S. I. 30 Mins.
Initial Shut-in 30 Mins.
Flow Period 60 Mins.
Final Shut-in 45 Mins.
Surface Choke Size 1"
Bottom Choke Size 3/4"
Main Hole Size 7 7/8"
Rubber Size 6 3/4"
Tool Open @ 11:06 A.M.
Blow 1ST OPEN-WEAK BLOW 1 1/2" IN BUCKET.
Remarks 2ND OPEN-WEAK BLOW, STEADY 1" IN BUCKET.
Drill Collar I. D. - Ft. Run -

TICKET NO 6192



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2428		PSI
(B) First Initial Flow Pressure	38		PSI
(C) First Final Flow Pressure	38		PSI
(D) Initial Closed-in Pressure	1017		PSI
(E) Second Initial Flow Pressure	38		PSI
(F) Second Final Flow Pressure	38		PSI
(G) Final Closed-in Pressure	1075		PSI
(H) Final Hydrostatic Mud	2370		PSI

NE NW - 5E

DRILL-STEM TEST DATA

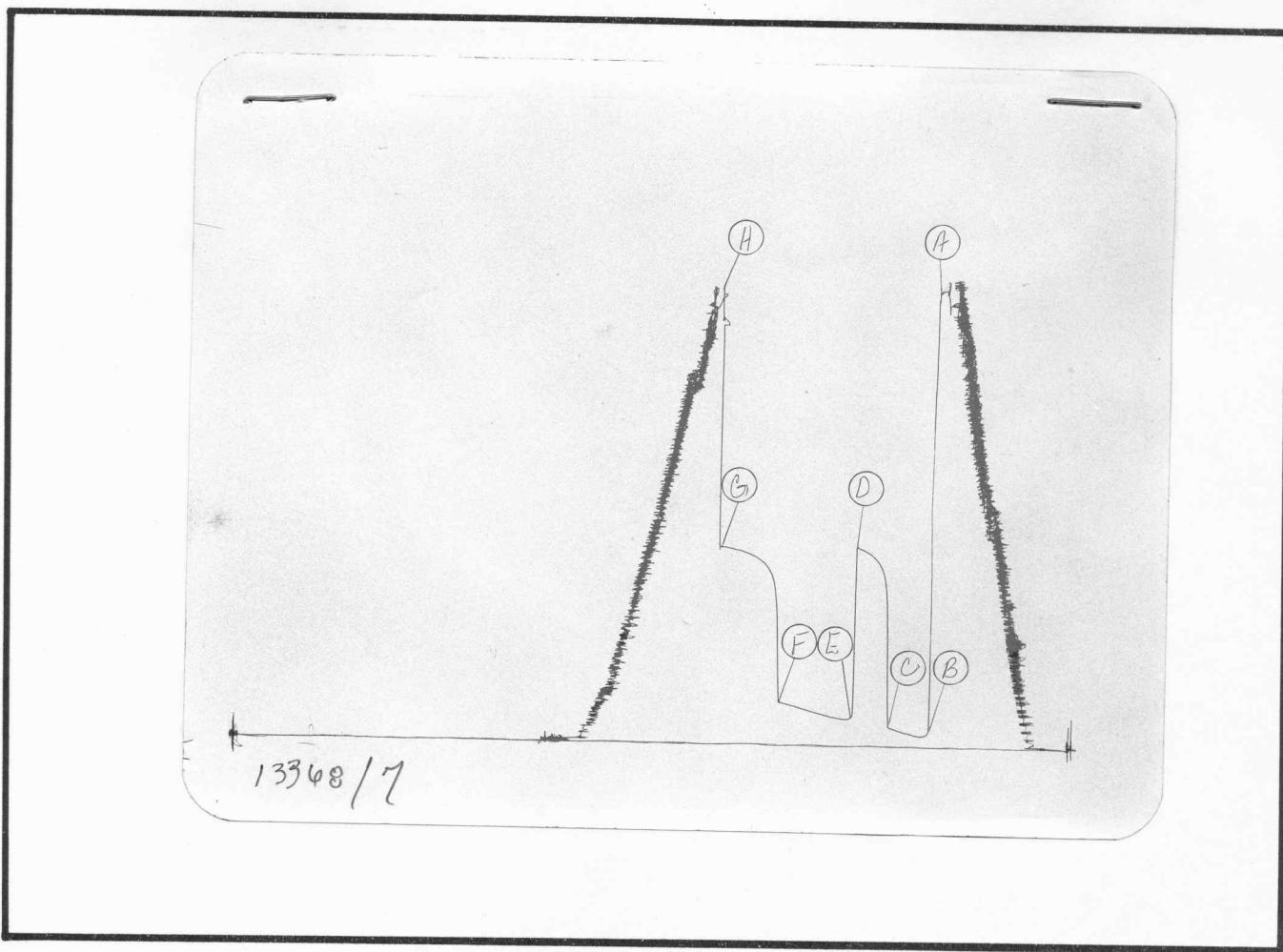
Company	Hinkle Oil Co.	Test No.	7
Well Name & Number	Carver #1	Zone Tested	Simpson
Company Address	Wichita, Ks.	Date	10-26-82
Comp. Rep.	Orvie Howell	Tester	Bill Nichols
Contractor	White & Ellis	Elevation	
Location: Sec. 15 Twp. 27 Rge. 15 Co. Pratt State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
Recorder Depth 4389
(A) Initial Hydrostatic Mud 2408 PSI
(B) First Initial Flow Pressure 48 PSI
(C) First Final Flow Pressure 107 PSI
(D) Initial Closed-in Pressure 1056 PSI
(E) Second Initial Flow Pressure 145 PSI
(F) Second Final Flow Pressure 233 PSI
(G) Final Closed-in Pressure 1046 PSI
(H) Final Hydrostatic Mud 2360 PSI
Temperature 118
Mud Weight 9.5 Viscosity 55
Fluid Loss 12.4
Interval Tested 4388-4398
Anchor Length 10
Top Packer Depth 4383
Bottom Packer Depth 4388
Total Depth 4398
Drill Pipe Size 4 1/2" XH
Wt. Pipe I. D. - Ft. Run -
Recovery—Total Feet 435
Recovered 15 Feet Of GAS CUT MUD.
Recovered 120 Feet Of GASSY WATERY MUD.
Recovered 300 Feet Of GASSY SALT WATER.
Recovered Feet Of
Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI
Recorder Depth 4293
Tool Open Before I. S. I. 30 Mins.
Initial Shut-in 30 Mins.
Flow Period 60 Mins.
Final Shut-in 45 Mins.
Surface Choke Size 1"
Bottom Choke Size 3/4"
Main Hole Size 7 7/8"
Rubber Size 6 3/4"
Tool Open @ 11:38 P.M.
Blow 1ST OPEN-STRONG BLOW 14" IN BUCKET.
Remarks 2ND OPEN-STRONG BLOW 9" IN BUCKET.

Drill Collar I. D. - Ft. Run -

Price of Job \$675.00



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2408		PSI
(B) First Initial Flow Pressure	48		PSI
(C) First Final Flow Pressure	107		PSI
(D) Initial Closed-in Pressure	1056		PSI
(E) Second Initial Flow Pressure	145		PSI
(F) Second Final Flow Pressure	233		PSI
(G) Final Closed-in Pressure	1046		PSI
(H) Final Hydrostatic Mud	2360		PSI