

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

15-101-20741

DRILL-STEM TEST DATA

Company	Oil Capital Corp.	Test No.	1
Well Name & Number	James #2	Zone Tested	Lansing
Company Address	Wichita, Ks.	Date	12-14-82
Comp. Rep.	Nelson Thomas	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Inc.	Elevation	2776 K.B.
Location: Sec. 19 Twp. 16s Rge. 28w Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 3956
 (A) Initial Hydrostatic Mud 2110 PSI
 (B) First Initial Flow Pressure 43 PSI
 (C) First Final Flow Pressure 107 PSI
 (D) Initial Closed-in Pressure 466 PSI
 (E) Second Initial Flow Pressure 136 PSI
 (F) Second Final Flow Pressure 233 PSI
 (G) Final Closed-in Pressure 466 PSI
 (H) Final Hydrostatic Mud 2098 PSI
 Temperature 109
 Mud Weight 9.7 Viscosity 47
 Fluid Loss 14.5
 Interval Tested 3946-3965
 Anchor Length 19
 Top Packer Depth 3941
 Bottom Packer Depth 3946
 Total Depth 3965
 Drill Pipe Size 4 1/2" XH
 Wt. Pipe I. D. 2.70 Ft. Run 643
 Recovery—Total Feet 485
 Recovered 485 Feet Of GASSY OIL. GRAVITY 24 API
 Recovered 5 Feet Of CLEAN OIL.
 Recovered 240 Feet Of 3% MUD, 5% WATER, 92% OIL.
 Recovered 240 Feet Of 1 1/2% WATER, 98 1/2% OIL.
 Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 3960
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 60 Mins.
 Final Shut-in 60 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 4:13 A.M.
 Blow 1ST OPEN-STRONG BLOW 14" IN BUCKET.
 Remarks 2ND OPEN-SAME AS 1ST OPEN.
480' GAS IN PIPE ABOVE FLUID.
 Drill Collar I. D. - Ft. Run -

Price of Job \$600.00

RECEIVED

GREAT BEND
Division Office

CHENEY TESTING COMPANY

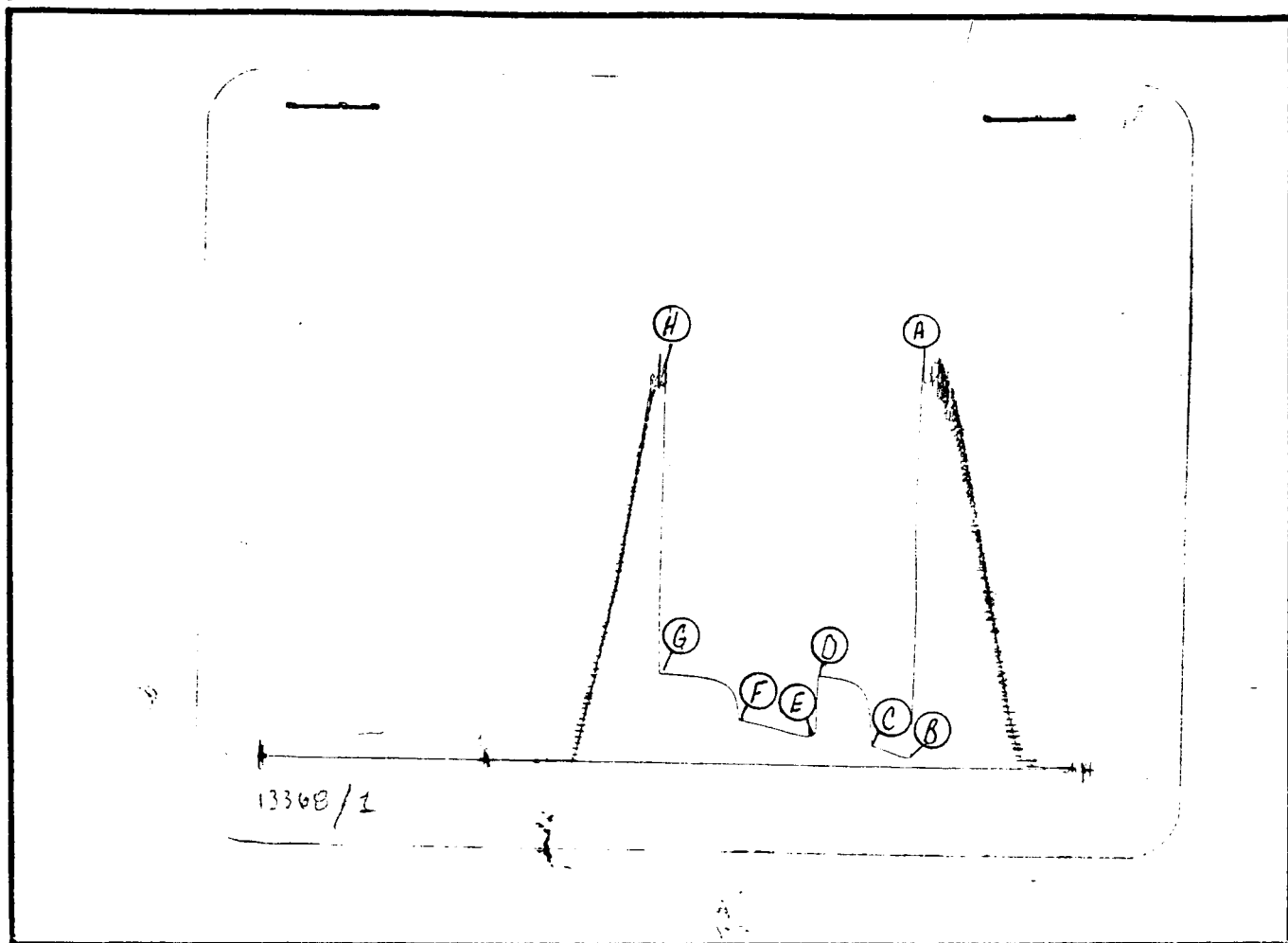
Pressure Data

Date 12-14-82 Test Ticket No. 8124
 Recorder No. 13368 Capacity 3850 Location 3960 Ft.
 Clock No. 25562 Elevation 2776 K.B. Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2106 P.S.I.	Open Tool	4:13 A.M.	
B First Initial Flow Pressure	50 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	108 P.S.I.	Initial Closed-in Pressure	45 Mins.	43 Mins.
D Initial Closed-in Pressure	473 P.S.I.	Second Flow Pressure	60 Mins.	58 Mins.
E Second Initial Flow Pressure	156 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	234 P.S.I.			
G Final Closed-in Pressure	473 P.S.I.			
H Final Hydrostatic Mud	2094 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>50</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>156</u>	<u>0</u>	<u>234</u>
P 2 <u>5</u>	<u>52</u>	<u>5</u>	<u>363</u>	<u>5</u>	<u>156</u>	<u>5</u>	<u>377</u>
P 3 <u>10</u>	<u>61</u>	<u>10</u>	<u>417</u>	<u>10</u>	<u>157</u>	<u>10</u>	<u>415</u>
P 4 <u>15</u>	<u>73</u>	<u>15</u>	<u>439</u>	<u>15</u>	<u>163</u>	<u>15</u>	<u>433</u>
P 5 <u>20</u>	<u>85</u>	<u>20</u>	<u>453</u>	<u>20</u>	<u>172</u>	<u>20</u>	<u>446</u>
P 6 <u>25</u>	<u>97</u>	<u>25</u>	<u>460</u>	<u>25</u>	<u>180</u>	<u>25</u>	<u>454</u>
P 7 <u>30</u>	<u>108</u>	<u>30</u>	<u>465</u>	<u>30</u>	<u>190</u>	<u>30</u>	<u>459</u>
P 8		<u>35</u>	<u>469</u>	<u>35</u>	<u>199</u>	<u>35</u>	<u>463</u>
P 9		<u>40</u>	<u>472</u>	<u>40</u>	<u>207</u>	<u>40</u>	<u>464</u>
P10		<u>43</u>	<u>473</u>	<u>45</u>	<u>215</u>	<u>45</u>	<u>467</u>
P11				<u>50</u>	<u>221</u>	<u>50</u>	<u>470</u>
P12				<u>55</u>	<u>230</u>	<u>55</u>	<u>472</u>
P13				<u>58</u>	<u>234</u>	<u>60</u>	<u>473</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2110	2106 PSI
(B) First Initial Flow Pressure	43	50 PSI
(C) First Final Flow Pressure	107	108 PSI
(D) Initial Closed-in Pressure	466	473 PSI
(E) Second Initial Flow Pressure	136	156 PSI
(F) Second Final Flow Pressure	233	234 PSI
(G) Final Closed-in Pressure	466	473 PSI
(H) Final Hydrostatic Mud	2098	2094 PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 1824

Date 12-14-82

To Oil Capital Corp.
411 Farmers & Bankers Bldg.
Wichita, Ks. 67202

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Cheney Testing Co. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w
 County Lane Test Interval 3946-3965

FINAL

P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$
 19.80

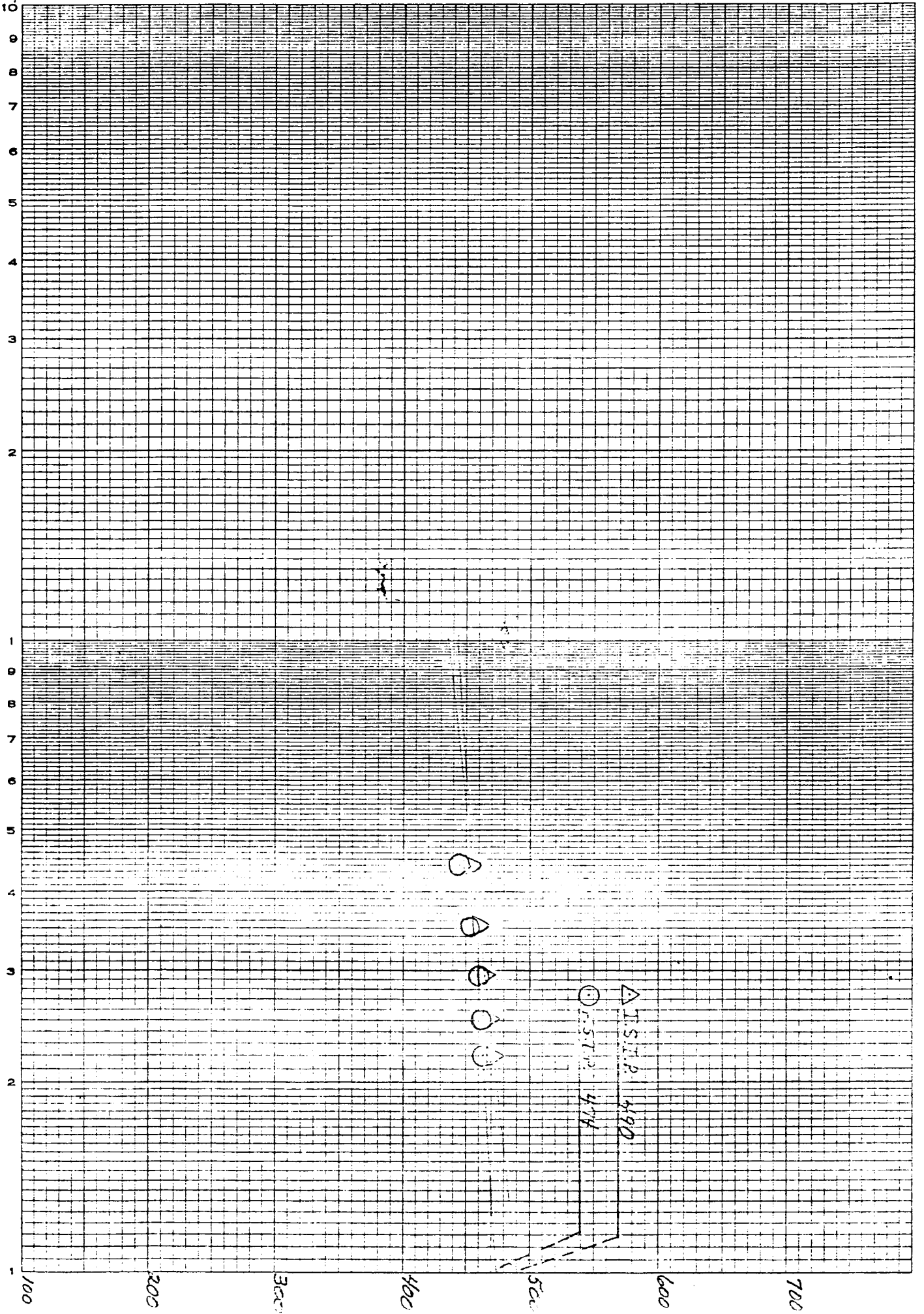
Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 2.20

Production
$$Q = \frac{1440 R}{T}$$
 2.35 Bbls./Hr.
56.45 Bbls./Day

Effective Pay
$$\frac{Kh}{2B} = 102.6 \frac{Q}{M}$$
 463.57 Md. Ft.

Theoretical Potential With Damage Removed
$$Q_1 = Q DR$$
 124.19 Bbls./Day

% Drop In B.H.P. 1.69 %



CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Oil Capital Corp.	Test No.	2
Well Name & Number	James #2	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	12-15-82
Comp. Rep.	Nelson Thomas	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Co.	Elevation	2776 K.B.
Location: Sec. 19 Twp. 16s Rge. 28w Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 4046
 (A) Initial Hydrostatic Mud 2112 PSI
 (B) First Initial Flow Pressure 87 PSI
 (C) First Final Flow Pressure 125 PSI
 (D) Initial Closed-in Pressure 1196 PSI
 (E) Second Initial Flow Pressure 164 PSI
 (F) Second Final Flow Pressure 271 PSI
 (G) Final Closed-in Pressure 1196 PSI
 (H) Final Hydrostatic Mud 2083 PSI
 Temperature 109
 Mud Weight 9.5 Viscosity 53
 Fluid Loss 16.5
 Interval Tested 4026-4055
 Anchor Length 29
 Top Packer Depth 4021
 Bottom Packer Depth 4026
 Total Depth 4055
 Drill Pipe Size 4 1/2" XH
 Wt. Pipe I. D. 3.25 Ft. Run 643
 Recovery—Total Feet 660
 Recovered 360 Feet Of CLEAN OIL. GRAVITY 42 API
 Recovered 120 Feet Of 10% GAS, 86% OIL, 4% WATER.
 Recovered 180 Feet Of 20% GAS, 45% OIL, 20% WATER. 15% MUD.
 Recovered Feet Of
 Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 4050
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 60 Mins.
 Final Shut-in 60 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 10:49 A.M.
 Blow 1ST OPEN—STRONG BLOW 14" IN BUCKET.
 Remarks 2ND OPEN—SAME AS 1ST OPEN.
540' GAS IN PIPE ABOVE FLUID.
VERY SLIGHT PLUGGING 1ST OPEN.
CHLORIDES—WELL—62,000 P.P.M.
RECOVERY—59,000 P.P.M.
 Drill Collar I. D. — Ft. Run —

RECEIVED

Price of Job \$675.00 JAN 17 '83

CHENEY BEND
 Hill City Office

CHENEY TESTING COMPANY

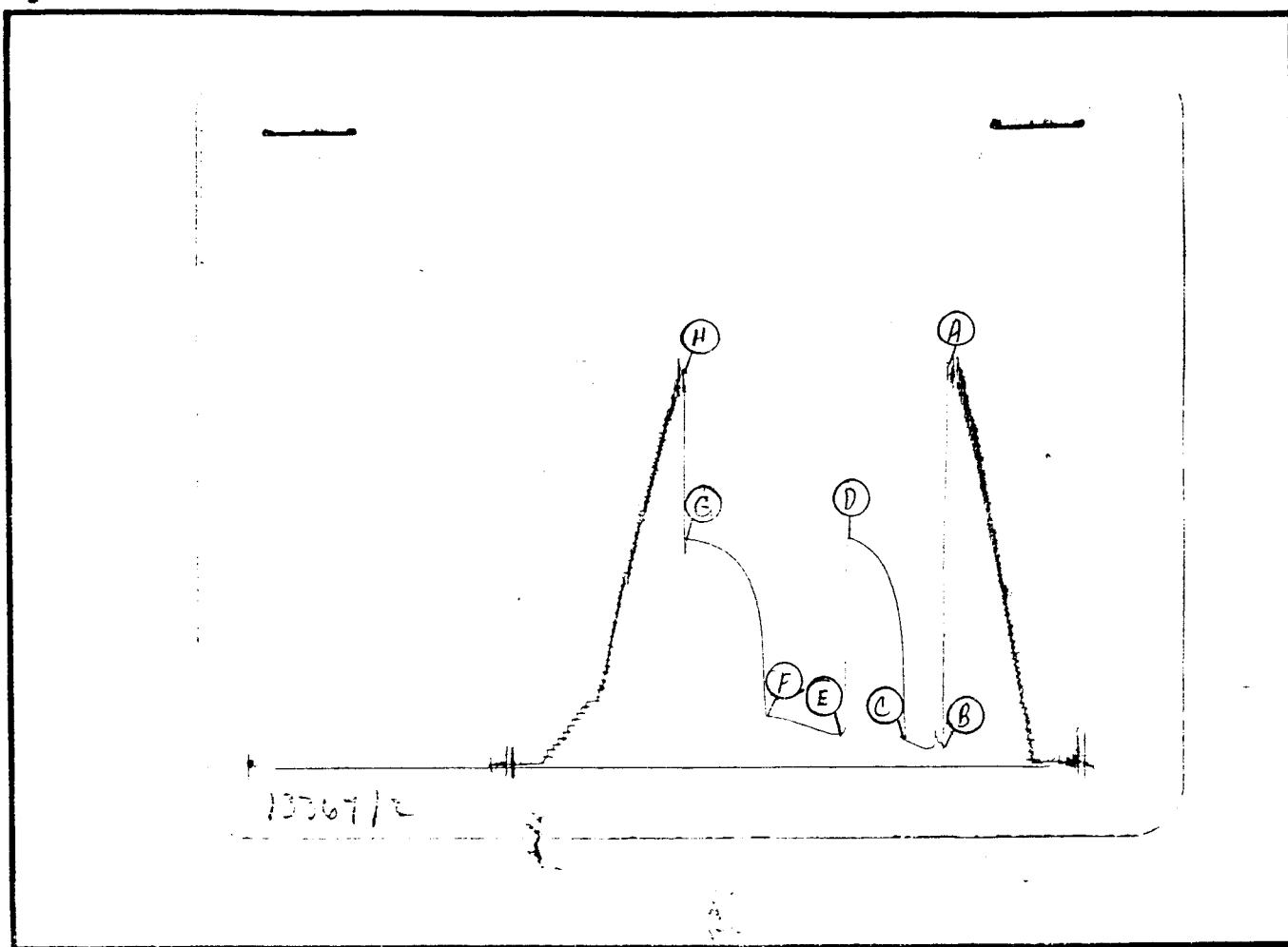
Pressure Data

Date 12-15-82 Test Ticket No. 8125
 Recorder No. 13367 Capacity 3850 Location 4046 Ft.
 Clock No. 7062 Elevation 2776 K.B. Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2108 P.S.I.	Open Tool	10:49 A.M.	
B First Initial Flow Pressure	95 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	135 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1193 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	171 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	266 P.S.I.			
G Final Closed-in Pressure	1190 P.S.I.			
H Final Hydrostatic Mud	2079 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>95</u>	<u>0</u>	<u>135</u>	<u>0</u>	<u>171</u>	<u>0</u>	<u>266</u>
P 2 <u>5</u>	<u>95</u>	<u>5</u>	<u>783</u>	<u>5</u>	<u>171</u>	<u>5</u>	<u>748</u>
P 3 <u>10</u>	<u>95</u>	<u>10</u>	<u>929</u>	<u>10</u>	<u>174</u>	<u>10</u>	<u>908</u>
P 4 <u>15</u>	<u>96</u>	<u>15</u>	<u>1015</u>	<u>15</u>	<u>182</u>	<u>15</u>	<u>990</u>
P 5 <u>20</u>	<u>110</u>	<u>20</u>	<u>1071</u>	<u>20</u>	<u>192</u>	<u>20</u>	<u>1047</u>
P 6 <u>25</u>	<u>125</u>	<u>25</u>	<u>1113</u>	<u>25</u>	<u>205</u>	<u>25</u>	<u>1086</u>
P 7 <u>30</u>	<u>135</u>	<u>30</u>	<u>1142</u>	<u>30</u>	<u>216</u>	<u>30</u>	<u>1115</u>
P 8		<u>35</u>	<u>1165</u>	<u>35</u>	<u>226</u>	<u>35</u>	<u>1137</u>
P 9		<u>40</u>	<u>1182</u>	<u>40</u>	<u>238</u>	<u>40</u>	<u>1153</u>
P10		<u>45</u>	<u>1193</u>	<u>45</u>	<u>249</u>	<u>45</u>	<u>1167</u>
P11				<u>50</u>	<u>254</u>	<u>50</u>	<u>1176</u>
P12				<u>55</u>	<u>261</u>	<u>55</u>	<u>1185</u>
P13				<u>60</u>	<u>266</u>	<u>60</u>	<u>1190</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2112	2108	PSI
(B) First Initial Flow Pressure	87	95	PSI
(C) First Final Flow Pressure	125	135	PSI
(D) Initial Closed-in Pressure	125	1193	PSI
(E) Second Initial Flow Pressure	164	171	PSI
(F) Second Final Flow Pressure	271	266	PSI
(G) Final Closed-in Pressure	1196	1190	PSI
(H) Final Hydrostatic Mud	2083	2079	PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 8125

Date 12-15-82

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Cheney Testing Co. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be held liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

To Oil Capital Corp.

411 Farmers & Bankers Bldg

Wichita, Ks. 67202

We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w

County Lane Test Interval 4026-4055

FINAL

P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$
 54.50

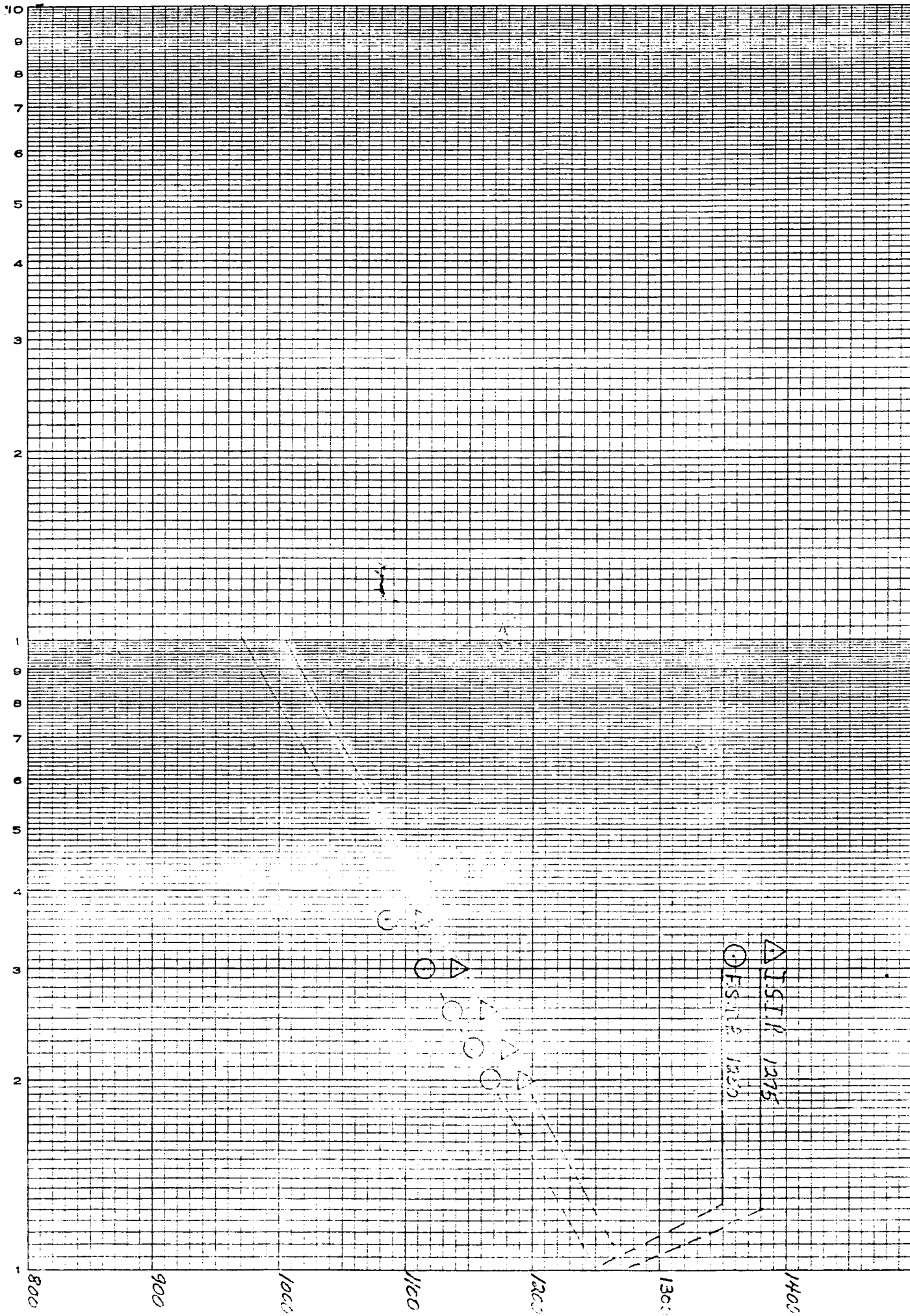
Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 3.11

Production
$$Q = \frac{1440 R}{T}$$
 4.2 Bbls./Hr.
100.8 Bbls./Day

Effective Pay
$$\frac{Kh}{AB} = 162.6 \frac{Q}{M}$$
 300.73 Md. Ft.

Theoretical Potential With Damage Removed
$$Q_1 = Q DR$$
 313.48 Bbls./Day

% Drop In B.H.P. 2.18 %



CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Oil Capital Corp.	Test No.	3
Well Name & Number	James #2	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	12-16-82
Comp. Rep.	Nelson Thomas	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Inc.	Elevation	2776 K.B.
Location: Sec. 19 Twp. 16s Rge. 28w Co. Lane	State Ks.	Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 4156

(A) Initial Hydrostatic Mud 2195 PSI

(B) First Initial Flow Pressure 68 PSI

(C) First Final Flow Pressure 116 PSI

(D) Initial Closed-in Pressure 1085 PSI

(E) Second Initial Flow Pressure 165 PSI

(F) Second Final Flow Pressure 252 PSI

(G) Final Closed-in Pressure 1056 PSI

(H) Final Hydrostatic Mud 2166 PSI

Temperature

Mud Weight 9.6 Viscosity 47

Fluid Loss 13

Interval Tested 4134-4165

Anchor Length 31

Top Packer Depth 4129

Bottom Packer Depth 4134

Total Depth 4165

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 3.25 Ft. Run 643

Recovery—Total Feet 540

Recovered 60 Feet Of 25% GAS, 40% OIL, 35% MUD.

Recovered 120 Feet Of 90% OIL, 8% MUD, 2% WATER.

Recovered 180 Feet Of 75% OIL, 20% MUD, 5% WATER.

Recovered 180 Feet Of 80% OIL, 2% MUD, 18% WATER.

Extra Equipment NONE

Price of Job \$675.00

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 4160

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 9:34 A.M.

Blow 1ST OPEN—STRONG BLOW 14" IN BUCKET.

Remarks 2ND OPEN—STRONG BLOW 10" IN BUCKET.

SLIGHT PLUGGING ACTION 1ST OPEN.

CHLORIDES—56,000 P.P.M.

RECOVERY—58,000 P.P.M.

Drill Collar I. D. — Ft. Run —

RECEIVED

JAN 17 '83

GREAT BEND
Division Office

CHENEY TESTING COMPANY

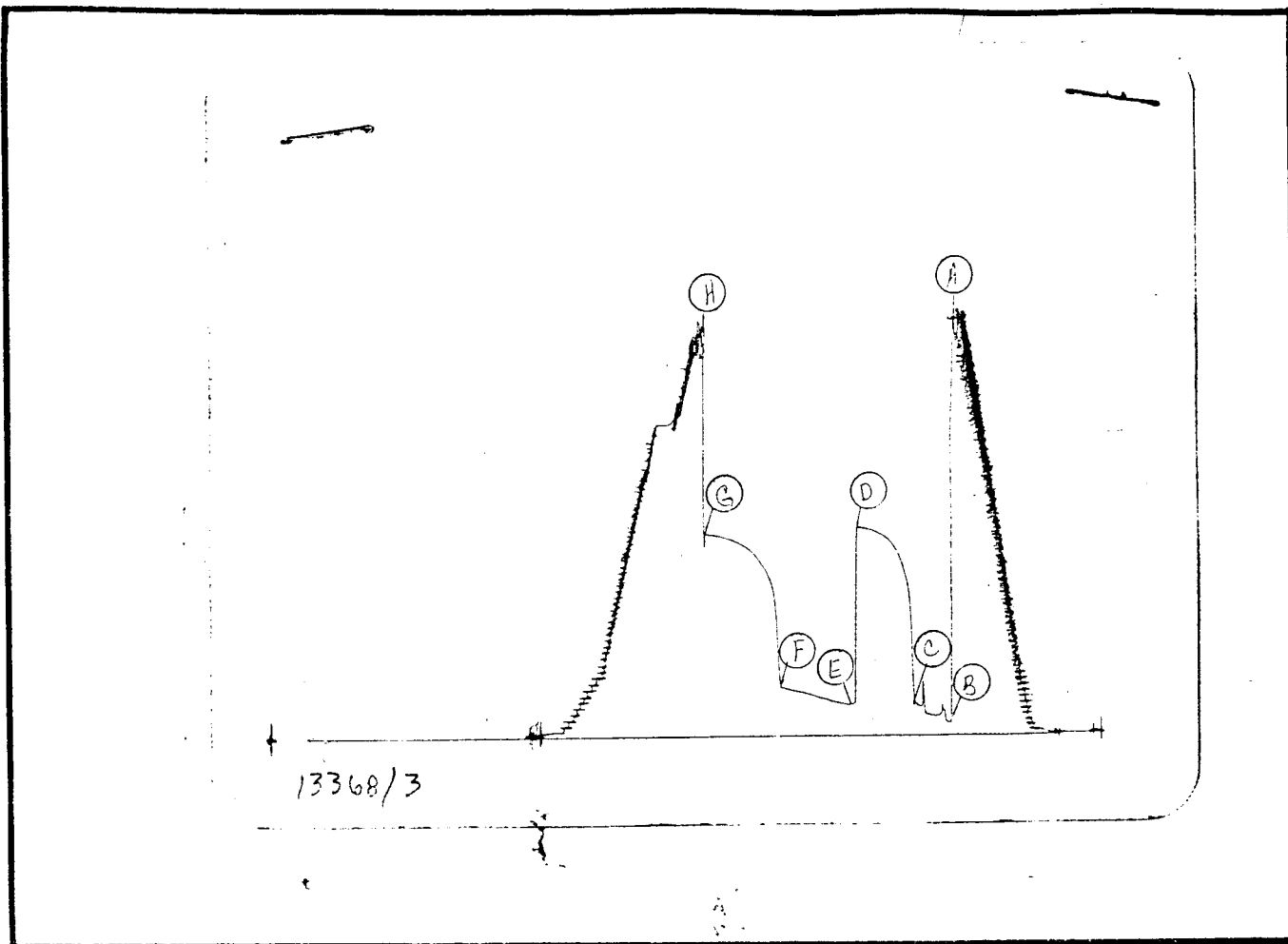
Pressure Data

Date 12-16-82Test Ticket No. 8126Recorder No. 13368Capacity 3850Location 4160 Ft.Clock No. 25562Elevation 2776 K.B.Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2191</u> P.S.I.	Open Tool	<u>9:34 A.</u> M	
B First Initial Flow Pressure	<u>66</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>28</u> Mins.
C First Final Flow Pressure	<u>168</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1090</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>167</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>58</u> Mins.
F Second Final Flow Pressure	<u>257</u> P.S.I.			
G Final Closed-in Pressure	<u>1058</u> P.S.I.			
H Final Hydrostatic Mud	<u>2162</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>11</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a	
final inc. of <u>3</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>3</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>66</u>	<u>0</u>	<u>168</u>	<u>0</u>	<u>167</u>	<u>0</u>	<u>257</u>
P 2 <u>5</u>	<u>95</u>	<u>5</u>	<u>779</u>	<u>5</u>	<u>167</u>	<u>5</u>	<u>763</u>
P 3 <u>10</u>	<u>101</u>	<u>10</u>	<u>905</u>	<u>10</u>	<u>172</u>	<u>10</u>	<u>861</u>
P 4 <u>15</u>	<u>104</u>	<u>15</u>	<u>979</u>	<u>15</u>	<u>179</u>	<u>15</u>	<u>912</u>
P 5 <u>20</u>	<u>115</u>	<u>20</u>	<u>1025</u>	<u>20</u>	<u>189</u>	<u>20</u>	<u>958</u>
P 6 <u>25</u>	<u>156</u>	<u>25</u>	<u>1051</u>	<u>25</u>	<u>198</u>	<u>25</u>	<u>987</u>
P 7 <u>28</u>	<u>168</u>	<u>30</u>	<u>1067</u>	<u>30</u>	<u>210</u>	<u>30</u>	<u>1007</u>
P 8		<u>35</u>	<u>1079</u>	<u>35</u>	<u>220</u>	<u>35</u>	<u>1024</u>
P 9		<u>40</u>	<u>1087</u>	<u>40</u>	<u>230</u>	<u>40</u>	<u>1035</u>
P10		<u>45</u>	<u>1090</u>	<u>45</u>	<u>237</u>	<u>45</u>	<u>1045</u>
P11				<u>50</u>	<u>245</u>	<u>50</u>	<u>1052</u>
P12				<u>55</u>	<u>255</u>	<u>55</u>	<u>1057</u>
P13				<u>60</u>	<u>257</u>	<u>58</u>	<u>1058</u>
P14							
P15							
P16							
F17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2195	2191	PSI
(B) First Initial Flow Pressure	68	66	PSI
(C) First Final Flow Pressure	116	168	PSI
(D) Initial Closed-in Pressure	1085	1090	PSI
(E) Second Initial Flow Pressure	165	167	PSI
(F) Second Final Flow Pressure	252	257	PSI
(G) Final Closed-in Pressure	1056	1058	PSI
(H) Final Hydrostatic Mud	2166	2162	PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 8126

Date 12-16-82

To Oil Capital Corp.

411 Farmers & Bankers Bldg.

Wichita, Ks. 67202

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We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w

County Lane Test Interval 4134-4165

FINAL

P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$
 95.74

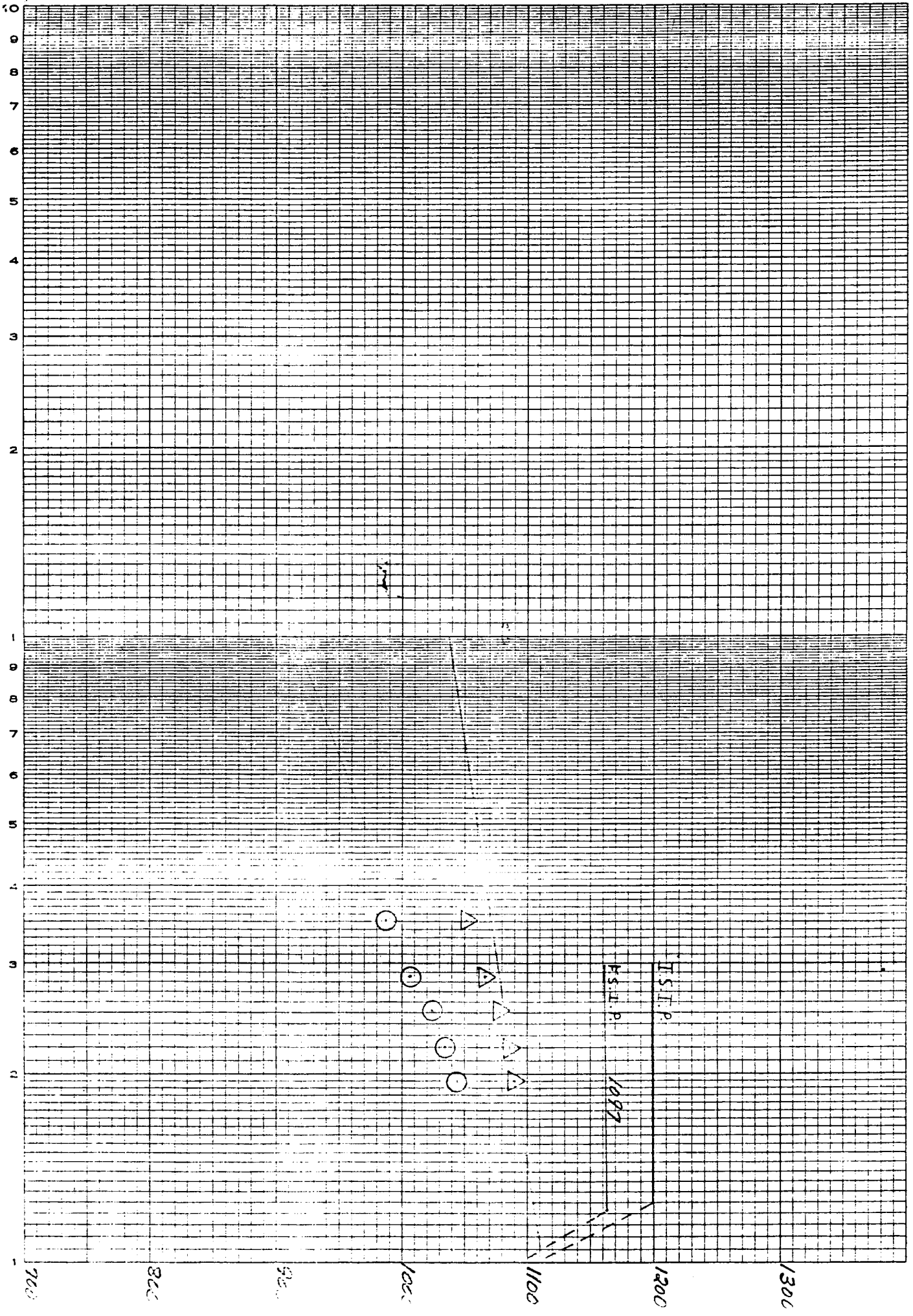
Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 1.59

Production
$$Q = \frac{1440 R}{T}$$
 4.09 Bbls./Hr.
98.18 Bbls./Day

Effective Pay
$$\frac{Kh}{\mu B} = 162.6 \frac{Q}{M}$$
 166.74 Md. Ft.

Theoretical Potential With Damage Removed
$$Q_1 = Q DR$$
 156.10 Bbls./Day

% Drop In B.H.P. 4.13 %



CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Oil Capital Corp.	Test No.	4
Well Name & Number	James #2	Zone Tested	K.C.
Company Address	Wichita, Ks.	Date	12-17-82
Comp. Rep.	Nelson Thomas	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Co.	Elevation	2776 K.B.
Location: Sec. 18 Twp. 16s Rge. 28w Co. Lane State Ks.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 4174

(A) Initial Hydrostatic Mud 2209 PSI

(B) First Initial Flow Pressure 38 PSI

(C) First Final Flow Pressure 48 PSI

(D) Initial Closed-in Pressure 281 PSI

(E) Second Initial Flow Pressure 67 PSI

(F) Second Final Flow Pressure 96 PSI

(G) Final Closed-in Pressure 271 PSI

(H) Final Hydrostatic Mud 2131 PSI

Temperature 117

Mud Weight 9.5 Viscosity 48

Fluid Loss 10.4

Interval Tested 4169-4183

Anchor Length 14

Top Packer Depth 4164

Bottom Packer Depth 4169

Total Depth 4183

Drill Pipe Size 4½ XH

Wt. Pipe I. D. 2.70 Ft. Run 643

Recovery—Total Feet 210

Recovered 30 Feet Of 25% GAS, 5% OIL, 3% WATER, 67% MUD.

Recovered 60 Feet Of 2% OIL, 48% WATER, 50% MUD.

Recovered 60 Feet Of 60% WATER, 40% MUD.

Recovered 60 Feet Of 75% WATER, 25% MUD.

Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 4178

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size ¾"

Main Hole Size 7⅞"

Rubber Size 6¾"

Tool Open @ 12:21 A.M.

Blow 1ST OPEN-FAIR BLOW 3" IN BUCKET.

Remarks 2ND OPEN-WEAK BLOW 1" IN BUCKET.

CHLORIDES-WELL-56,000 P.P.M.

RECOVERY-81,000 P.P.M.

Drill Collar I. D. - Ft. Run -

RECEIVED

JAN 17 '83

GREEN BAND
Division Office

CHENEY TESTING COMPANY

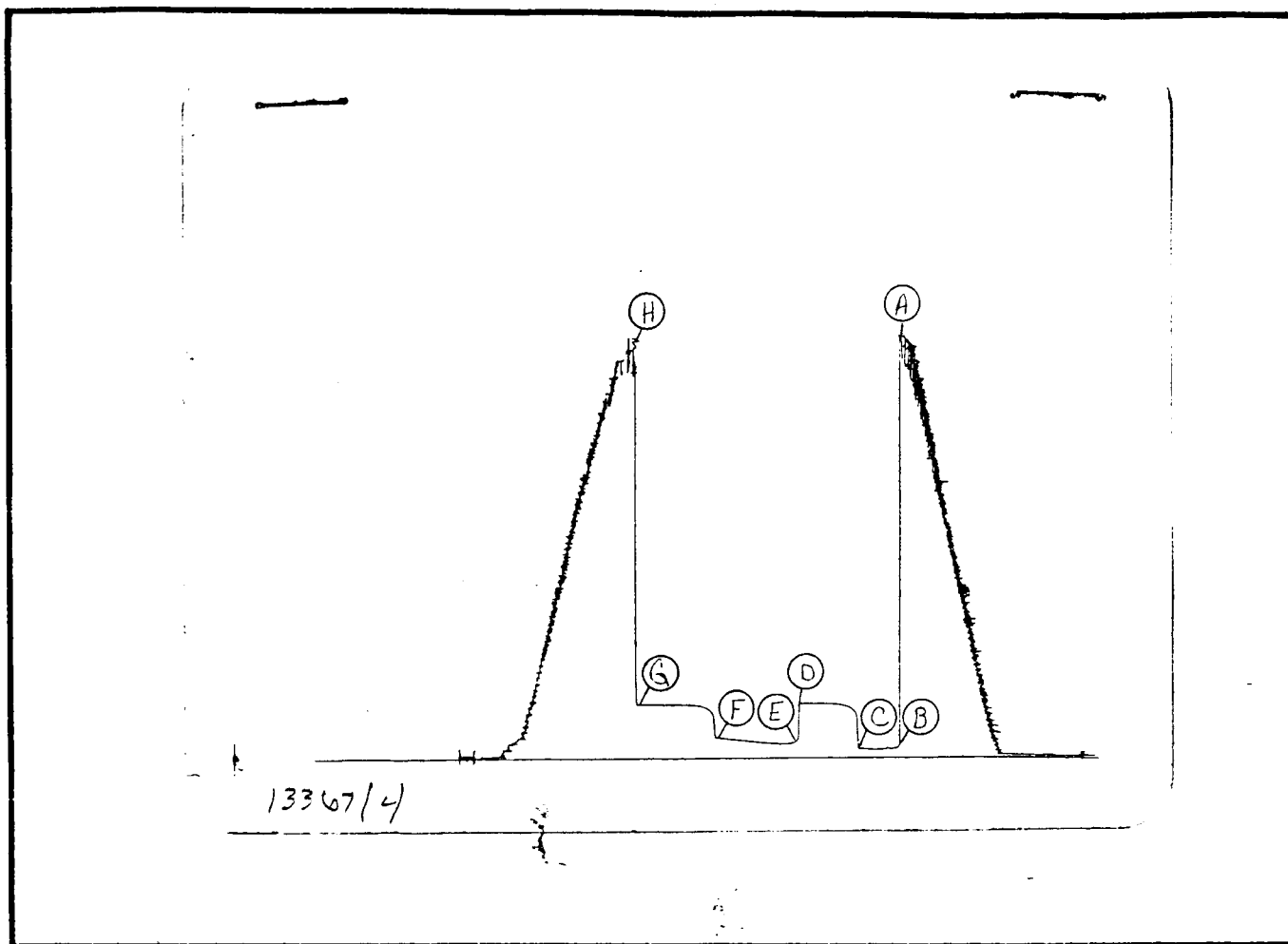
Pressure Data

Date 12-17-82 Test Ticket No. 8127
 Recorder No. 13367 Capacity 3850 Location 4174 Ft.
 Clock No. 7062 Elevation 2776 K. B. Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2205</u> P.S.I.	Open Tool	<u>12:21</u> A.M.	
B First Initial Flow Pressure	<u>42</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>286</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>63</u> Mins.
E Second Initial Flow Pressure	<u>74</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>108</u> P.S.I.			
G Final Closed-in Pressure	<u>283</u> P.S.I.			
H Final Hydrostatic Mud	<u>2127</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>12</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>42</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>108</u>
P 2 <u>5</u>	<u>42</u>	<u>5</u>	<u>252</u>	<u>5</u>	<u>74</u>	<u>5</u>	<u>251</u>
P 3 <u>10</u>	<u>42</u>	<u>10</u>	<u>271</u>	<u>10</u>	<u>74</u>	<u>10</u>	<u>269</u>
P 4 <u>15</u>	<u>42</u>	<u>15</u>	<u>280</u>	<u>15</u>	<u>75</u>	<u>15</u>	<u>278</u>
P 5 <u>20</u>	<u>43</u>	<u>20</u>	<u>282</u>	<u>20</u>	<u>78</u>	<u>20</u>	<u>282</u>
P 6 <u>25</u>	<u>45</u>	<u>25</u>	<u>284</u>	<u>25</u>	<u>80</u>	<u>25</u>	<u>282</u>
P 7 <u>30</u>	<u>49</u>	<u>30</u>	<u>285</u>	<u>30</u>	<u>83</u>	<u>30</u>	<u>282</u>
P 8		<u>35</u>	<u>285</u>	<u>35</u>	<u>87</u>	<u>35</u>	<u>282</u>
P 9		<u>40</u>	<u>286</u>	<u>40</u>	<u>91</u>	<u>40</u>	<u>282</u>
P10		<u>45</u>	<u>286</u>	<u>45</u>	<u>94</u>	<u>45</u>	<u>282</u>
P11				<u>50</u>	<u>97</u>	<u>50</u>	<u>282</u>
P12				<u>55</u>	<u>101</u>	<u>55</u>	<u>283</u>
P13				<u>60</u>	<u>106</u>	<u>60</u>	<u>283</u>
P14				<u>63</u>	<u>108</u>		
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2209	2205 PSI
(B) First Initial Flow Pressure	38	42 PSI
(C) First Final Flow Pressure	48	49 PSI
(D) Initial Closed-in Pressure	281	286 PSI
(E) Second Initial Flow Pressure	67	74 PSI
(F) Second Final Flow Pressure	96	108 PSI
(G) Final Closed-in Pressure	271	283 PSI
(H) Final Hydrostatic Mud	2131	2127 PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 8127

Date 12-17-82

To Oil Capital Corp.
411 Farmers & Bankers Bldg.
Wichita, Ks. 67202

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Cheney Testing Co. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w
 County Lane Test Interval 4169-4183

FINAL

P.S.I. Slope Cycle

$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$

20.57

Damage Ratio

$$DR = .183 \frac{P_s - P_f}{M}$$

1.58

Production

$$Q = \frac{1440 R}{T}$$

1.29 Bbls./Hr.

30.96 Bbls./Day

Effective Pay

$$\frac{Kh}{\Delta B} = 162.6 \frac{Q}{M}$$

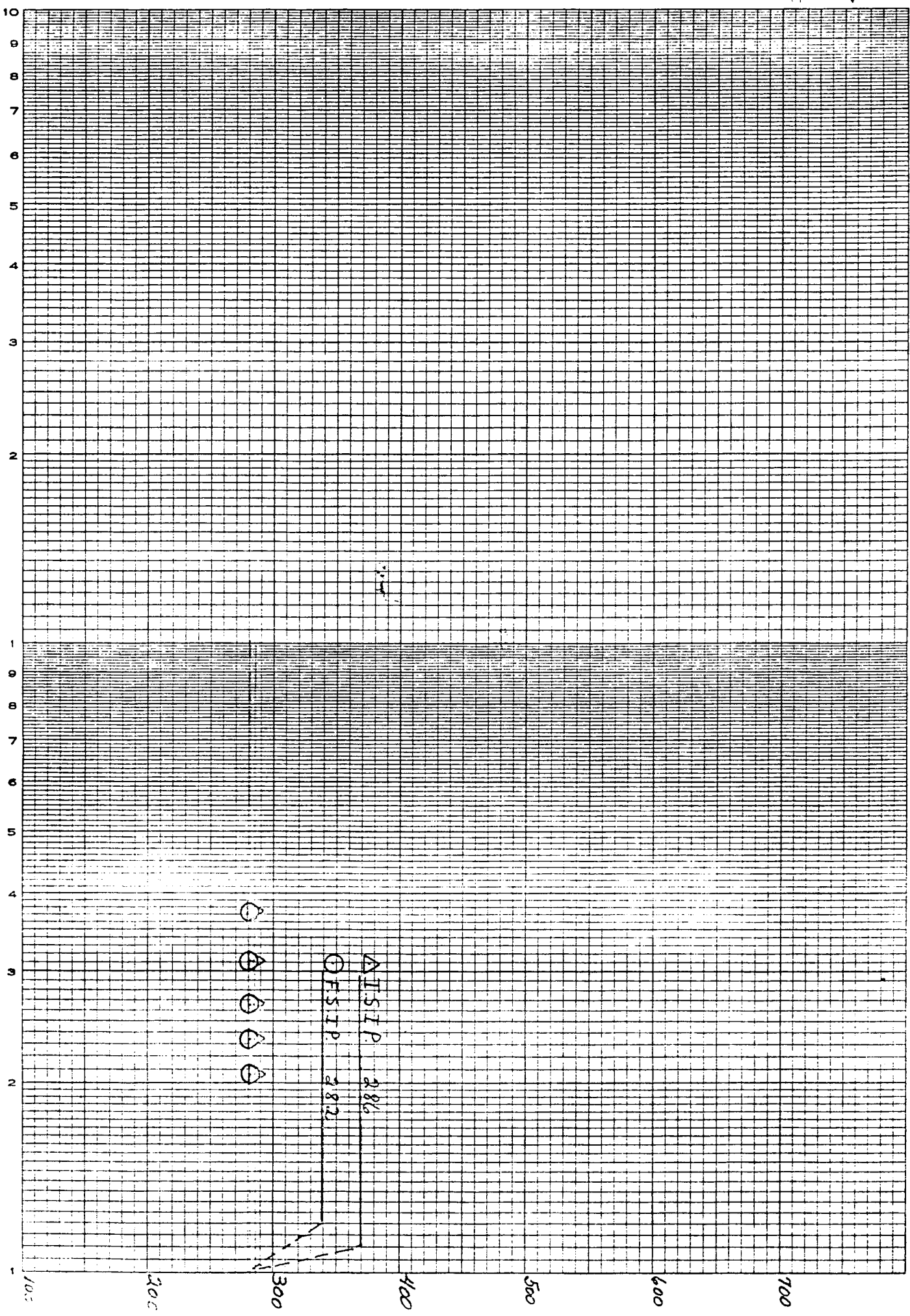
244.72 Md. Ft.

Theoretical Potential
With Damage Removed

$$Q_1 = Q DR$$

48.92 Bbls./Day

% Drop In E.H.P. 1.4 %



HILL CITY, KANSAS 67642

Price of Job \$675.00 *Division Office*

CHENEY TESTING COMPANY

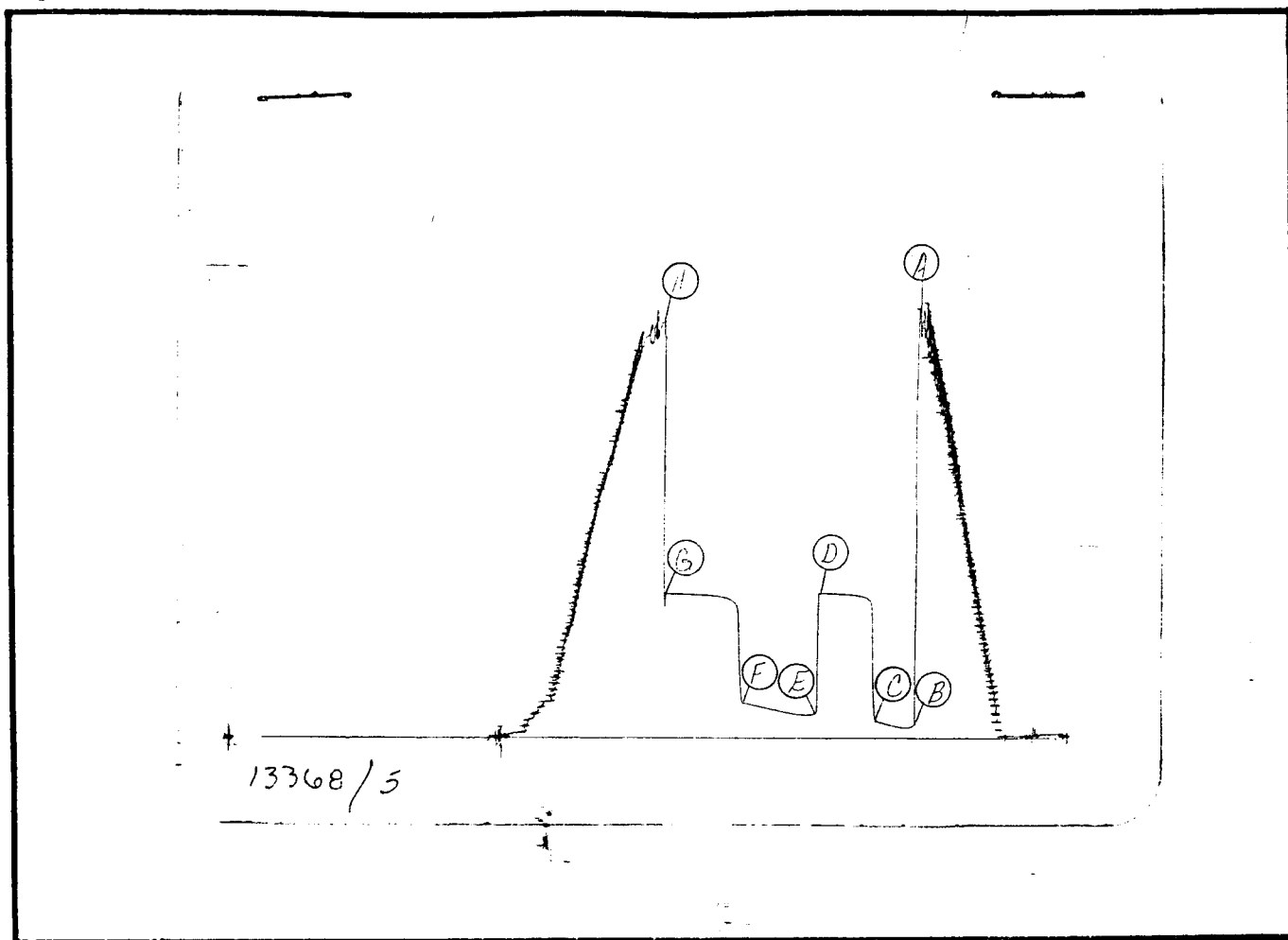
Pressure Data

Date 12-17-82 Test Ticket No. 8128
 Recorder No. 13368 Capacity 3850 Location 4260 Ft.
 Clock No. 25562 Elevation 2776 K.B. Well Temperature 116 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2269</u> P.S.I.	<u>10:28 P.M.</u>	
B First Initial Flow Pressure	<u>55</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	<u>45</u> Mins.	<u>40</u> Mins.
D Initial Closed-in Pressure	<u>763</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>121</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>183</u> P.S.I.		
G Final Closed-in Pressure	<u>757</u> P.S.I.		
H Final Hydrostatic Mud	<u>2191</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>12</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>55</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>121</u>	<u>0</u>	<u>183</u>
P 2 <u>5</u>	<u>55</u>	<u>5</u>	<u>745</u>	<u>5</u>	<u>121</u>	<u>5</u>	<u>712</u>
P 3 <u>10</u>	<u>56</u>	<u>10</u>	<u>751</u>	<u>10</u>	<u>122</u>	<u>10</u>	<u>733</u>
P 4 <u>15</u>	<u>63</u>	<u>15</u>	<u>755</u>	<u>15</u>	<u>125</u>	<u>15</u>	<u>743</u>
P 5 <u>20</u>	<u>69</u>	<u>20</u>	<u>757</u>	<u>20</u>	<u>130</u>	<u>20</u>	<u>748</u>
P 6 <u>25</u>	<u>78</u>	<u>25</u>	<u>760</u>	<u>25</u>	<u>137</u>	<u>25</u>	<u>751</u>
P 7 <u>30</u>	<u>87</u>	<u>30</u>	<u>761</u>	<u>30</u>	<u>145</u>	<u>30</u>	<u>752</u>
P 8 _____		<u>35</u>	<u>762</u>	<u>35</u>	<u>153</u>	<u>35</u>	<u>753</u>
P 9 _____		<u>40</u>	<u>763</u>	<u>40</u>	<u>160</u>	<u>40</u>	<u>755</u>
P10 _____				<u>45</u>	<u>167</u>	<u>45</u>	<u>756</u>
P11 _____				<u>50</u>	<u>175</u>	<u>50</u>	<u>757</u>
P12 _____				<u>55</u>	<u>181</u>	<u>55</u>	<u>757</u>
P13 _____				<u>60</u>	<u>183</u>	<u>60</u>	<u>757</u>
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2273	2269	PSI
(B) First Initial Flow Pressure	38	55	PSI
(C) First Final Flow Pressure	68	87	PSI
(D) Initial Closed-in Pressure	766	763	PSI
(E) Second Initial Flow Pressure	97	121	PSI
(F) Second Final Flow Pressure	165	183	PSI
(G) Final Closed-in Pressure	766	757	PSI
(H) Final Hydrostatic Mud	2195	2191	PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 8128

Date 12-17-82

To Oil Capital Corp.
411 Farmers & Bankers Bldg.
Wichita, Ks.

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We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w
 County Lane Test Interval 4235-4265

FINAL

P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$
 19.56

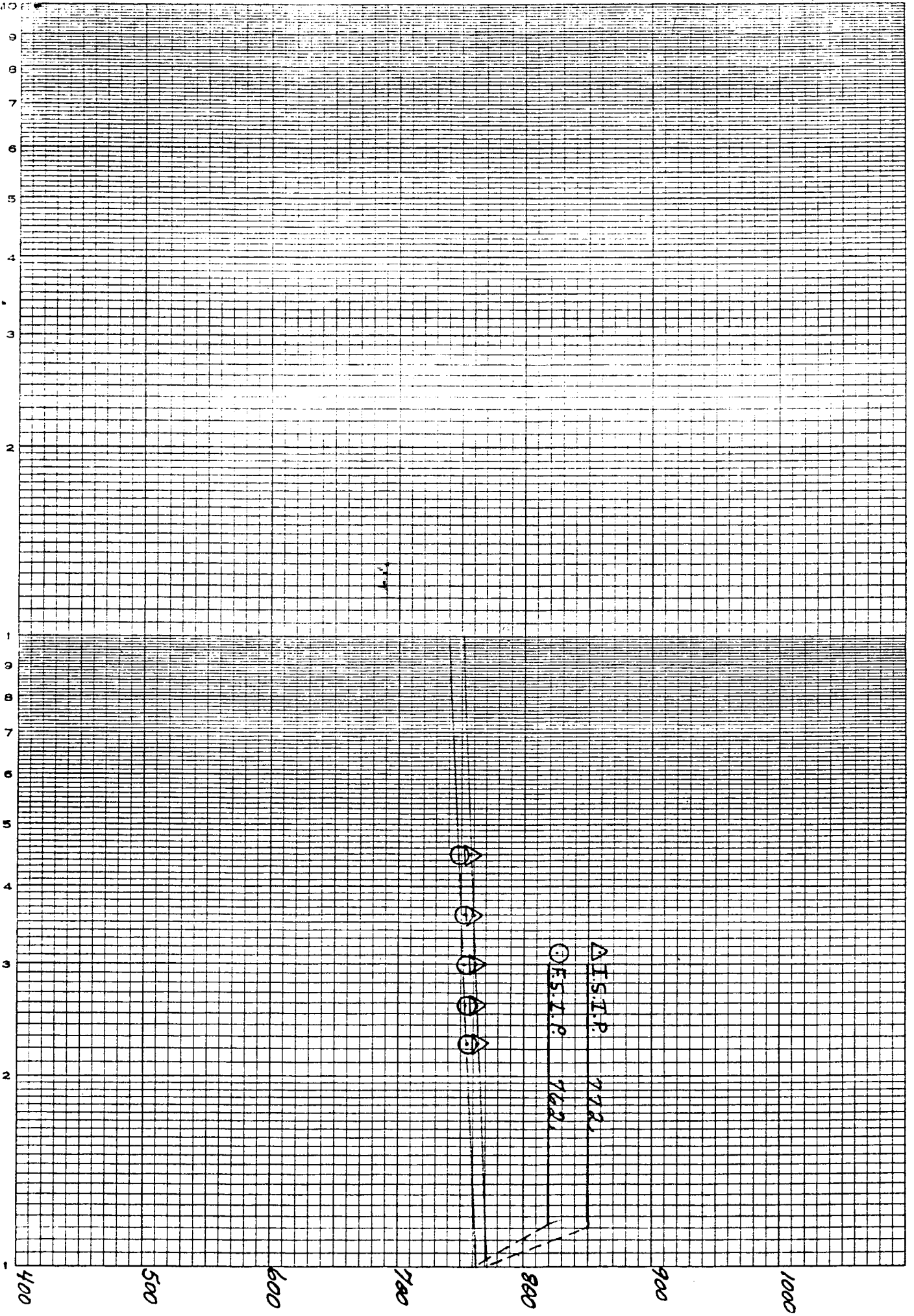
Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 5.42

Production
$$Q = \frac{1440 R}{t}$$
 3.33 Bbls./Hr.
80. Bbls./Day

Effective Pay
$$\frac{Kh}{\Delta B} = 162.6 \frac{Q}{M}$$
 665.03 Md. Ft.

Theoretical Potential With Damage Removed
$$Q_1 = Q DR$$
 433.6 Bbls./Day

% Drop In B.H.P. 1. %



P. O. BOX 3 HILL CITY, KANSAS 67642

Company	Oil Capital Corp.	Test No.	6
Well Name & Number	James #2	Zone Tested	Ft. Scott
Company Address	Wichita, Ks.	Date	12-19-82
Comp. Rep.	Nelson Thomas	Tester	Bill Nichols
Contractor	Abercrombie Drlg. Co.	Elevation	2776 K.B.
Location: Sec. 19 Twp. 16s Rge. 28w Co. Lane State Ks.		Est. Feet of Pay	

JAN 17 '83

Greenland
Mission Office

CHENEY TESTING COMPANY

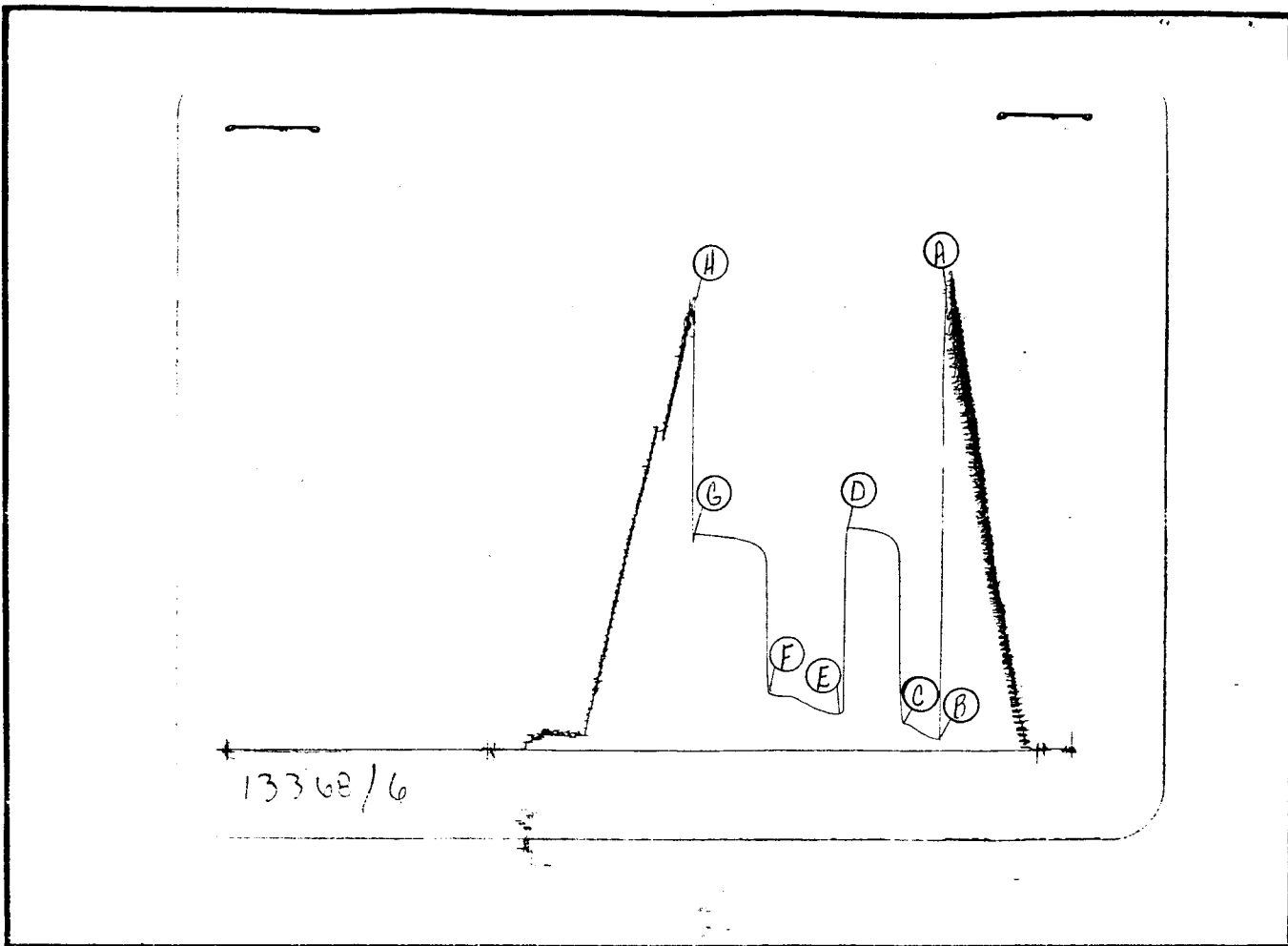
Pressure Data

Date 12-19-82 Test Ticket No. 8129
 Recorder No. 13368 Capacity 3850 Location 4467 Ft.
 Clock No. 25562 Elevation 2776 K.B. Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2424</u> P.S.I.	<u>12:07 P.M.</u>	
B First Initial Flow Pressure	<u>60</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>144</u> P.S.I.	<u>45</u> Mins.	<u>43</u> Mins.
D Initial Closed-in Pressure	<u>1164</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>192</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>301</u> P.S.I.		
G Final Closed-in Pressure	<u>1132</u> P.S.I.		
H Final Hydrostatic Mud	<u>2375</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>12</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>60</u>	<u>0</u>	<u>144</u>	<u>0</u>	<u>192</u>	<u>0</u>	<u>301</u>
P 2 <u>5</u>	<u>66</u>	<u>5</u>	<u>1069</u>	<u>5</u>	<u>192</u>	<u>5</u>	<u>1043</u>
P 3 <u>10</u>	<u>79</u>	<u>10</u>	<u>1116</u>	<u>10</u>	<u>197</u>	<u>10</u>	<u>1073</u>
P 4 <u>15</u>	<u>98</u>	<u>15</u>	<u>1134</u>	<u>15</u>	<u>209</u>	<u>15</u>	<u>1090</u>
P 5 <u>20</u>	<u>123</u>	<u>20</u>	<u>1145</u>	<u>20</u>	<u>220</u>	<u>20</u>	<u>1099</u>
P 6 <u>25</u>	<u>141</u>	<u>25</u>	<u>1152</u>	<u>25</u>	<u>236</u>	<u>25</u>	<u>1107</u>
P 7 <u>30</u>	<u>144</u>	<u>30</u>	<u>1156</u>	<u>30</u>	<u>254</u>	<u>30</u>	<u>1113</u>
P 8		<u>35</u>	<u>1160</u>	<u>35</u>	<u>272</u>	<u>35</u>	<u>1118</u>
P 9		<u>40</u>	<u>1163</u>	<u>40</u>	<u>286</u>	<u>40</u>	<u>1122</u>
P10		<u>43</u>	<u>1164</u>	<u>45</u>	<u>287</u>	<u>45</u>	<u>1125</u>
P11				<u>50</u>	<u>289</u>	<u>50</u>	<u>1128</u>
P12				<u>55</u>	<u>297</u>	<u>55</u>	<u>1131</u>
P13				<u>60</u>	<u>301</u>	<u>60</u>	<u>1132</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2428	2424	PSI
(B) First Initial Flow Pressure	58	60	PSI
(C) First Final Flow Pressure	136	144	PSI
(D) Initial Closed-in Pressure	1162	1164	PSI
(E) Second Initial Flow Pressure	184	192	PSI
(F) Second Final Flow Pressure	291	301	PSI
(G) Final Closed-in Pressure	1143	1132	PSI
(H) Final Hydrostatic Mud	2379	2375	PSI

CHENEY TESTING CO.

FIELD EVALUATIONS

Ticket No. 8129

Date 12-19-82

To Oil Capital Corp.
411 Farmers & Bankers Bldg
Wichita, Ks. 67202

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We Give Below Results of Drill Stem Evaluation

Lease James #2 Sec. 19 Twp. 16s Rge. 28w
 County Lane Test Interval 4435-4472

FINAL

P.S.I. Slope Cycle
$$M = \frac{P_{isi} - P_{fsi}}{\log \frac{T+t}{t}}$$
 80.23

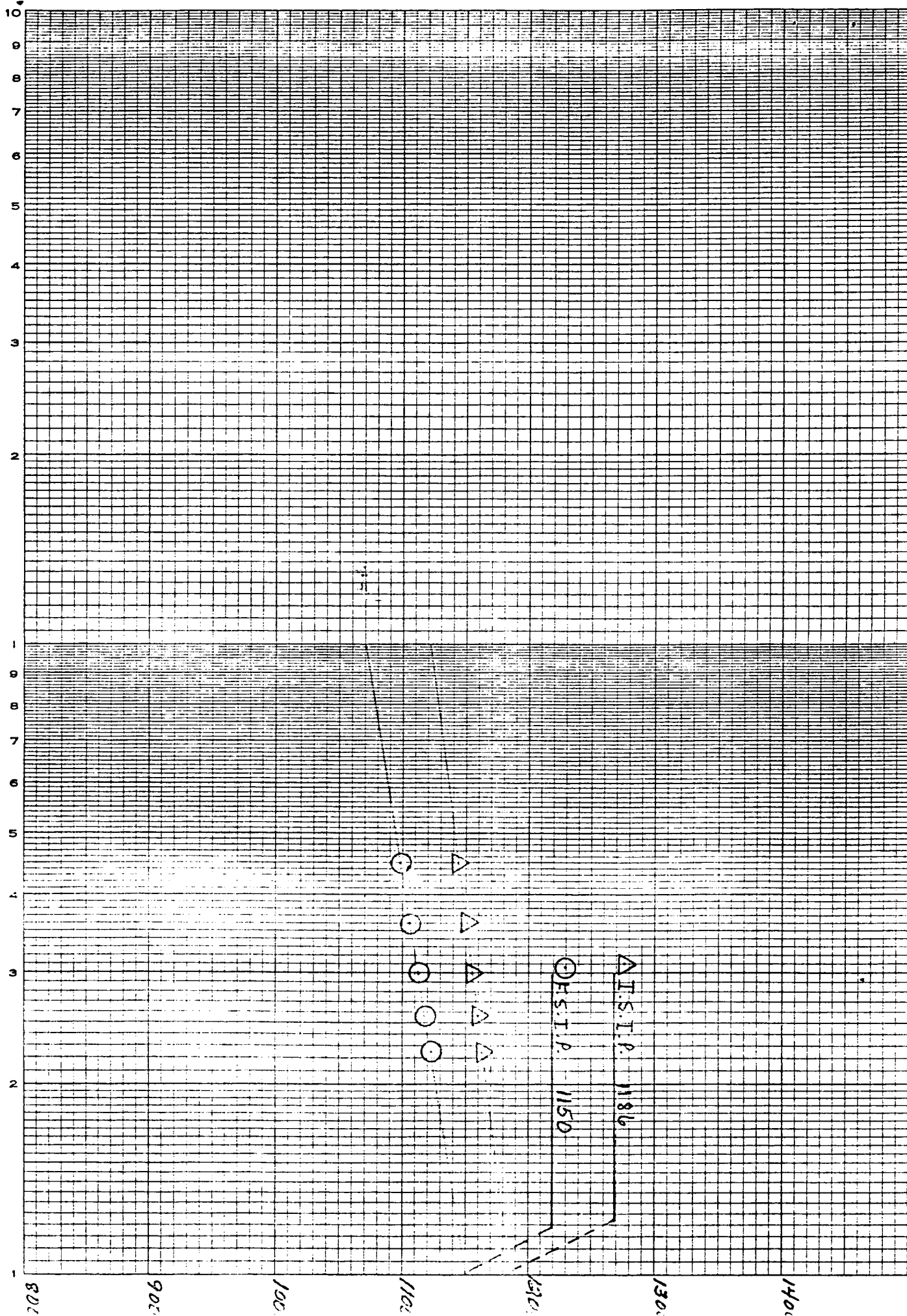
Damage Ratio
$$DR = .183 \frac{P_s - P_f}{M}$$
 1.96

Production
$$Q = \frac{1440 R}{T}$$
 4.33 Bbls./Hr.
104 Bbls./Day

Effective Pay
$$\frac{P_{si}}{1.8} = 162.6 \frac{Q}{M}$$
 210.77 Md. Ft.

Theoretical Potential With Damage Removed
$$Q_0 = Q DR$$
 274.4 Bbls./Day

% Prop In B.H.P. 3.52 %



CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Oil Capital Corp.</u>	Test No. <u>7</u>
Well Name & Number <u>James #2</u>	Zone Tested <u>Cherokee Sand</u>
Company Address <u>Wichita, Ks.</u>	Date <u>12-20-82</u>
Comp. Rep. <u>Nelson Thomas</u>	Tester <u>Bill Nichols</u>
Contractor <u>Abercrombie Drlg. Co.</u>	Elevation <u>2776 K.B.</u>
Location: Sec. <u>19</u> Twp. <u>16s</u> Rge. <u>28w</u> Co. <u> </u> Lane <u> </u> State <u>Ks.</u>	Est. Feet of Pay <u> </u>

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 4518

(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 48 PSI

(E) Second Initial Flow Pressure 48 PSI

(F) Second Final Flow Pressure 48 PSI

(G) Final Closed-in Pressure 48 PSI

(H) Final Hydrostatic Mud 2418 PSI

Temperature 116

Mud Weight 9.7 Viscosity 48

Fluid Loss 13.0

Interval Tested 4494-4527

Anchor Length 33

Top Packer Depth 4489

Bottom Packer Depth 4494

Total Depth 4527

Drill Pipe Size 4 1/2" XH

Wt. Pipe I. D. 2.70 Ft. Run 643

Recovery—Total Feet 5

Recovered 5 Feet Of OIL SPECKED MUD, 2% OIL, 4% WATER, 94% MUD.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 4522

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 10:55 A.M.

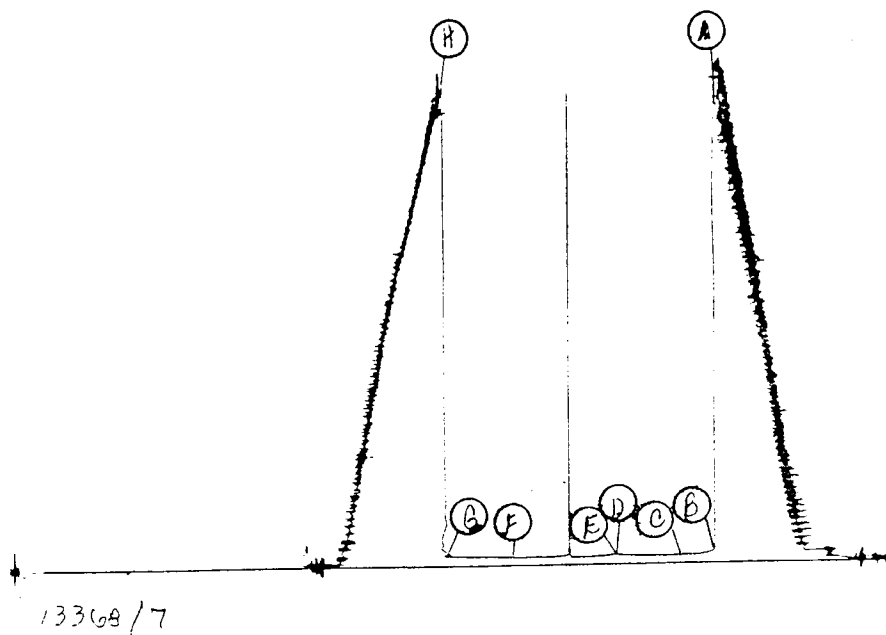
Blow 1ST OPEN-WEAK BLOW 1 1/2" IN BUCKET.

Remarks 2ND OPEN-NO BLOW.

FLUSHED TOOL 2ND OPEN.

Drill Collar I. D. Ft. Run

Price of Job \$675.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2428	PSI
(B) First Initial Flow Pressure	38	PSI
(C) First Final Flow Pressure	55	PSI
(D) Initial Closed-in Pressure	48	PSI
(E) Second Initial Flow Pressure	48	PSI
(F) Second Final Flow Pressure	48	PSI
(G) Final Closed-in Pressure	48	PSI
(H) Final Hydrostatic Mud	2418	PSI