

# CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

## DRILL-STEM TEST DATA

Company <b>Isern Petroleum</b>	Test No. <b>1</b>
Well Name & Number <b>Herbel #1</b>	Zone Tested <b>Kansas City</b>
Company Address <b>Box 486, Ellinwood, Kan.</b>	Date <b>11-4-76</b>
Comp. Rep. <b>L. O. Chubb</b>	Tester <b>James Ricketts</b>
Contractor <b>Chief Drilg. Co. Inc.</b>	Elevation <b>3165 K.B.</b>
Location: Sec. <b>28</b> Twp. <b>9S</b> Rge. <b>33W</b> Co. <b>Thomas</b> State <b>Kansas</b>	Est. Feet of Pay

Recorder No. **6730** Type **Kuster** Range **4200** PSI

Recorder Depth **4294**

(A) Initial Hydrostatic Mud **2280** PSI

(B) First Initial Flow Pressure **64** PSI

(C) First Final Flow Pressure **172** PSI

(D) Initial Closed-in Pressure **1331** PSI

(E) Second Initial Flow Pressure **183** PSI

(F) Second Final Flow Pressure **200** PSI

(G) Final Closed-in Pressure **1331** PSI

(H) Final Hydrostatic Mud **2270** PSI

Temperature **116**

Mud Weight **9.5** Viscosity **51**

Fluid Loss **6.8 C.C.**

Interval Tested **4252-4300**

Anchor Length **48'**

Top Packer Depth **4247**

Bottom Packer Depth **4252**

Total Depth **4300**

Drill Pipe Size **4 1/2" P.H.**

Wt. Pipe I. D. **2.7** Ft. Run **725**

Recovery—Total Feet **2190**

Recovered **1680** Feet Of **Gas**

Recovered **60** Feet Of **Oil Cut mud**

Recovered **360** Feet Of **Gasie Oil**

Recovered **90** Feet Of **Free Oil**

Extra Equipment \_\_\_\_\_

Recorder No. **54** Type **Western** Range **4000** PSI

Recorder Depth **4292**

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

Initial Shut-in **30** Mins.

Flow Period **30** Mins.

Final Shut-in **30** Mins.

Surface Choke Size **1"**

Bottom Choke Size **1/2"**

Main Hole Size **7 7/8"**

Rubber Size **6 3/4"**

Tool Open @ **4:15 P.M.**

Blow **Strong for 60 minutes.**

Remarks \_\_\_\_\_

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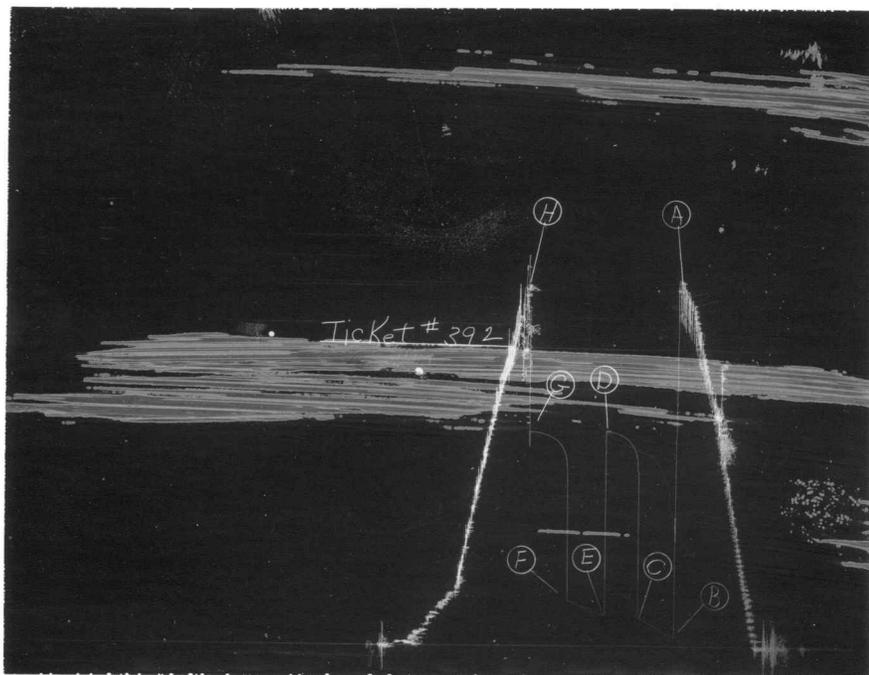
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Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_

Price of Job **\$375.00**





This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	2280	2280	PSI
(B) First Initial Flow Pressure .....	64	53	PSI
(C) First Final Flow Pressure .....	172	179	PSI
(D) Initial Closed-in Pressure .....	1331	1337	PSI
(E) Second Initial Flow Pressure .....	183	198	PSI
(F) Second Final Flow Pressure .....	200	284	PSI
(G) Final Closed-in Pressure .....	1331	1329	PSI
(H) Final Hydrostatic Mud .....	2270	2250	PSI

# CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

## DRILL-STEM TEST DATA

Company <b>Isern Petroleum</b>	Test No. <b>2</b>
Well Name & Number <b>Herbel #1</b>	Zone Tested <b>Kansas City</b>
Company Address <b>Box 486, Ellinwood, Kan.</b>	Date <b>11-5-76</b>
Comp. Rep. <b>L.O. Chubb</b>	Tester <b>James Ricketts</b>
Contractor <b>Chief Drig. Co. Inc.</b>	Elevation <b>3165 K.B.</b>
Location: Sec. <b>28</b> Twp. <b>9S</b> Rge. <b>33W</b> Co. <b>Thomas</b> State <b>Kan.</b>	Est. Feet of Pay

Recorder No. **6730** Type **Kuster** Range **4200** PSI

Recorder Depth **4334**

(A) Initial Hydrostatic Mud **2122** PSI

(B) First Initial Flow Pressure **53** PSI

(C) First Final Flow Pressure **107** PSI

(D) Initial Closed-in Pressure **1341** PSI

(E) Second Initial Flow Pressure **118** PSI

(F) Second Final Flow Pressure **204** PSI

(G) Final Closed-in Pressure **1320** PSI

(H) Final Hydrostatic Mud **2115** PSI

Temperature \_\_\_\_\_

Mud Weight **9.5** Viscosity **51**

Fluid Loss **6.8 C.C.**

Interval Tested **4292-4340**

Anchor Length **48'**

Top Packer Depth **4287**

Bottom Packer Depth **4292**

Total Depth **4340**

Drill Pipe Size **4½ F.H.**

Wt. Pipe I. D. **2.7** Ft. Run **725**

Recovery—Total Feet **900**

Recovered **410** Feet Of **Gas (41°) Gravity**

Recovered **430** Feet Of **Free Oil**

Recovered **60** Feet Of **Gasie Oil**

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Extra Equipment \_\_\_\_\_

Recorder No. **54** Type **Western** Range **4000** PSI

Recorder Depth **4332**

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

Initial Shut-in **30** Mins.

Flow Period **45** Mins.

Final Shut-in **60** Mins.

Surface Choke Size **1"**

Bottom Choke Size **½"**

Main Hole Size **7 7/8"**

Rubber Size **6 3/4"**

Tool Open @ **8:00 A.M.**

Blow **Strong for 75 minutes**

Remarks \_\_\_\_\_

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Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_

Price of Job **\$375.00**

# CHENEY TESTING COMPANY

## Pressure Data

Date 11-5-76

Test Ticket No. 393

Recorder No. 6730

Capacity 4200

Location 4334 Ft.

Clock No. 17921

Elevation 3165 K.B.

Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2102</u> P.S.I.	Open Tool	<u>8:00</u> A M	
B First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>107</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>1331</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>131</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>206</u> P.S.I.			
G Final Closed-in Pressure	<u>1329</u> P.S.I.			
H Final Hydrostatic Mud	<u>2100</u> P.S.I.			

### PRESSURE BREAKDOWN

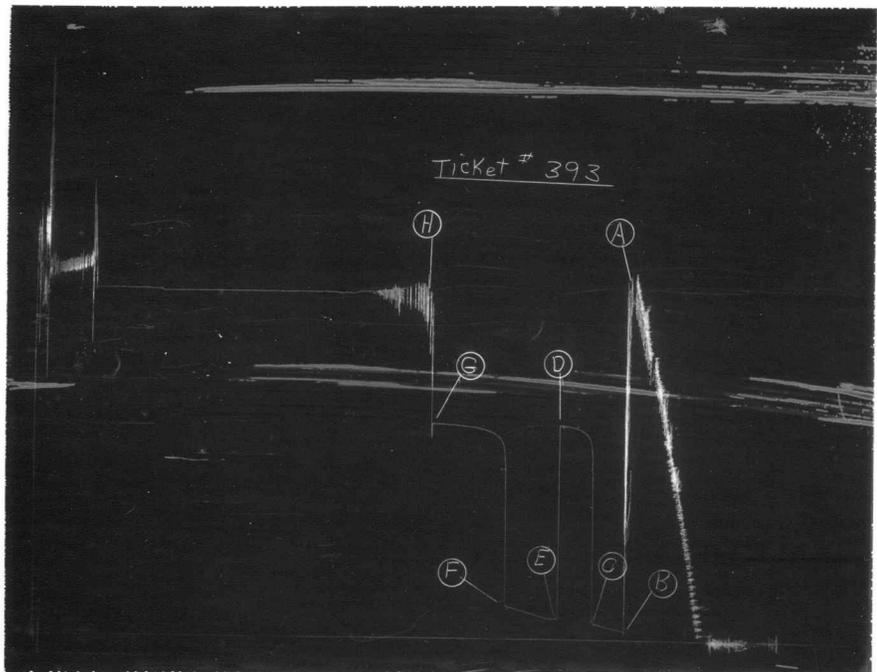
**First Flow Pressure**  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

**Initial Shut-In**  
Breakdown: 9 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

**Second Flow Pressure**  
Breakdown: 9 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

**Final Shut-In**  
Breakdown: 13 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>53</u>	<u>0</u>	<u>107</u>	<u>0</u>	<u>131</u>	<u>0</u>	<u>206</u>
P 2 <u>5</u>	<u>63</u>	<u>5</u>	<u>1202</u>	<u>5</u>	<u>131</u>	<u>5</u>	<u>1097</u>
P 3 <u>10</u>	<u>71</u>	<u>10</u>	<u>1277</u>	<u>10</u>	<u>131</u>	<u>10</u>	<u>1244</u>
P 4 <u>15</u>	<u>79</u>	<u>15</u>	<u>1303</u>	<u>15</u>	<u>142</u>	<u>15</u>	<u>1274</u>
P 5 <u>20</u>	<u>90</u>	<u>20</u>	<u>1316</u>	<u>20</u>	<u>155</u>	<u>20</u>	<u>1291</u>
P 6 <u>25</u>	<u>99</u>	<u>25</u>	<u>1322</u>	<u>25</u>	<u>166</u>	<u>25</u>	<u>1299</u>
P 7 <u>30</u>	<u>107</u>	<u>30</u>	<u>1331</u>	<u>30</u>	<u>176</u>	<u>30</u>	<u>1308</u>
P 8 _____		<u>35</u>		<u>35</u>	<u>185</u>	<u>35</u>	<u>1312</u>
P 9 _____				<u>40</u>	<u>196</u>	<u>40</u>	<u>1316</u>
P10 _____				<u>45</u>	<u>206</u>	<u>45</u>	<u>1320</u>
P11 _____						<u>50</u>	<u>1322</u>
P12 _____						<u>55</u>	<u>1325</u>
P13 _____						<u>60</u>	<u>1328</u>
P14 _____						<u>65</u>	<u>1329</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 .....	2122	2102	PSI
(B) First Initial Flow Pressure .....	53	53	PSI
(C) First Final Flow Pressure .....	107	107	PSI
(D) Initial Closed-in Pressure .....	1341	1331	PSI
(E) Second Initial Flow Pressure .....	118	131	PSI
(F) Second Final Flow Pressure .....	204	206	PSI
(G) Final Closed-in Pressure .....	1320	1329	PSI
(H) Final Hydrostatic Mud .....	2115	2100	PSI

# CHENEY TESTING COMPANY

P. O. BOX 3 HILL CITY, KANSAS 67642

## DRILL-STEM TEST DATA

Company <b>Isern Petroleum</b>	Test No. <b>3</b>
Well Name & Number <b>Herbel #1</b>	Zone Tested <b>Kansas City</b>
Company Address <b>Box 486, Ellinwood, Kan.</b>	Date <b>11-9-76</b>
Comp. Rep. <b>L.O. Chubb</b>	Tester <b>Kenneth Cheney</b>
Contractor <b>Chief Drilg. Co.</b>	Elevation <b>3165 K.B.</b>
Location: Sec. <b>28</b> Twp. <b>9S</b> Rge. <b>33W</b> Co. <b>Thomas</b> State <b>Kan</b>	Est. Feet of Pay

Recorder No. **6730** Type **Kuster** Range **4200** PSI

Recorder Depth **4374**

(A) Initial Hydrostatic Mud **2227** PSI

(B) First Initial Flow Pressure **21** PSI

(C) First Final Flow Pressure **21** PSI

(D) Initial Closed-in Pressure **172** PSI

(E) Second Initial Flow Pressure **21** PSI

(F) Second Final Flow Pressure **32** PSI

(G) Final Closed-in Pressure **75** PSI

(H) Final Hydrostatic Mud **2201** PSI

Temperature \_\_\_\_\_

Mud Weight **9.5** Viscosity **51**

Fluid Loss **16.0 C.C.**

Interval Tested **4346-4377**

Anchor Length **31'**

Top Packer Depth **4341**

Bottom Packer Depth **4346**

Total Depth **4377**

Drill Pipe Size **4 1/2 F.H.**

Wt. Pipe I. D. **2.7** Ft. Run **1054**

Recovery—Total Feet **20**

Recovered **20** Feet Of **Mud**

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Extra Equipment \_\_\_\_\_ Price of Job **\$375.00**

Recorder No. **54** Type **Western** Range **4000** PSI

Recorder Depth **4372**

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

Initial Shut-in **30** Mins.

Flow Period **30** Mins.

Final Shut-in **30** Mins.

Surface Choke Size **1"**

Bottom Choke Size **1/2"**

Main Hole Size **7 7/8"**

Rubber Size **6 3/4"**

Tool Open @ **6:35 P.M.**

Blow **weak for 30 minutes**

Remarks **Flushed tool on final flow.**

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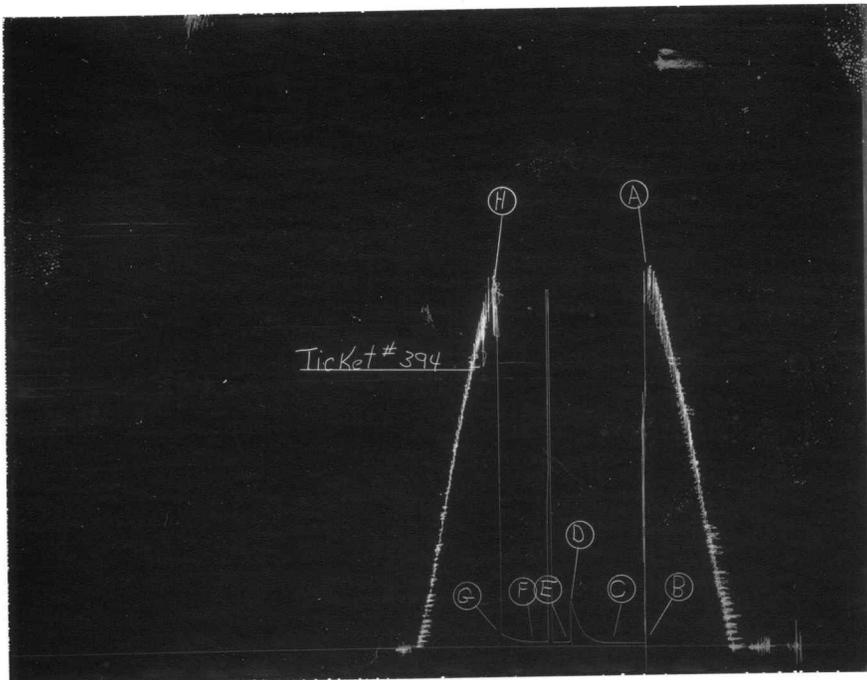
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Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2227		PSI
(B) First Initial Flow Pressure	21		PSI
(C) First Final Flow Pressure	21		PSI
(D) Initial Closed-in Pressure	172		PSI
(E) Second Initial Flow Pressure	21		PSI
(F) Second Final Flow Pressure	32		PSI
(G) Final Closed-in Pressure	75		PSI
(H) Final Hydrostatic Mud	2201		PSI



# CHENEY TESTING COMPANY

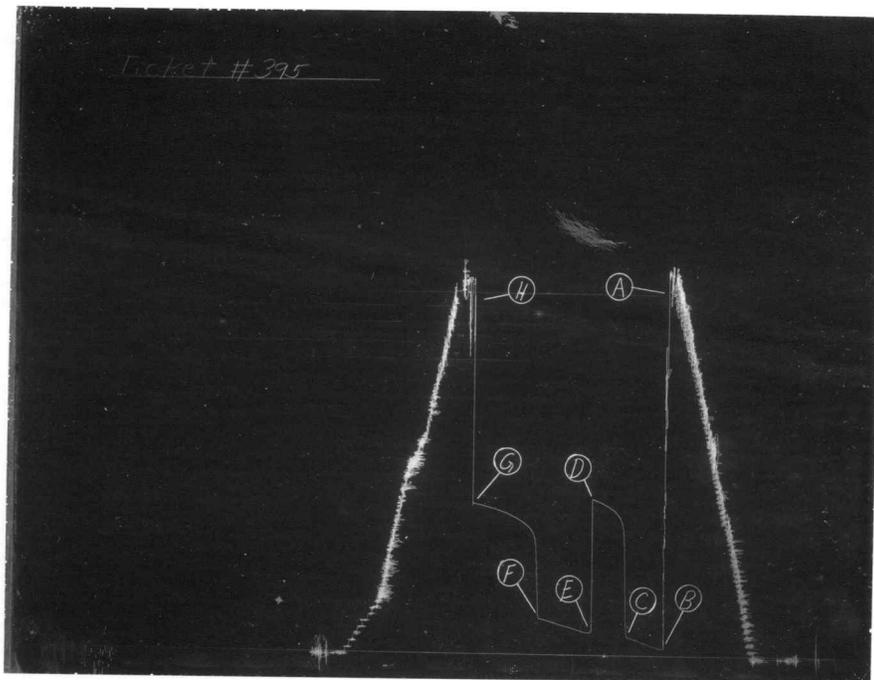
## Pressure Data

Date: 11-12-76 Test Ticket No. 395  
 Recorder No. 6730 Capacity 4200 Location 4665 Ft.  
 Clock No. 17921 Elevation 3165 K. B. Well Temperature 108 °F

Point	Pressure		Time Given	A. M.	Time Computed
A Initial Hydrostatic Mud	2322	P.S.I.	12:25		
B First Initial Flow Pressure	43	P.S.I.	30	Mins.	30 Mins.
C First Final Flow Pressure	109	P.S.I.	30	Mins.	30 Mins.
D Initial Closed-in Pressure	967	P.S.I.	45	Mins.	45 Mins.
E Second Initial Flow Pressure	140	P.S.I.	60	Mins.	57 Mins.
F Second Final Flow Pressure	224	P.S.I.			
G Final Closed-in Pressure	932	P.S.I.			
H Final Hydrostatic Mud	2291	P.S.I.			

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.							
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	43	0	109	0	140	0	224
P 2	45	3	622	5	140	3	686
P 3	54	6	822	10	148	6	760
P 4	66	9	872	15	159	9	788
P 5	81	12	896	20	172	12	808
P 6	95	15	914	25	182	15	824
P 7	109	18	928	30	193	18	838
P 8		21	938	35	206	21	850
P 9		24	951	40	215	24	860
P10		27	958	45	224	27	870
P11		30	967	50		30	878
P12		33		55		33	886
P13		36		60		36	896
P14		39				39	901
P15		42				42	908
P16		45				45	914
P17		48				48	920
P18		51				51	924
P19		54				54	928
P20		57				57	932
		60				60	



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	2280	2322	PSI
(B) First Initial Flow Pressure .....	43	43	PSI
(C) First Final Flow Pressure .....	107	109	PSI
(D) Initial Closed-in Pressure .....	961	967	PSI
(E) Second Initial Flow Pressure .....	129	140	PSI
(F) Second Final Flow Pressure .....	204	224	PSI
(G) Final Closed-in Pressure .....	919	932	PSI
(H) Final Hydrostatic Mud .....	2259	2291	PSI

# CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

## DRILL-STEM TEST DATA

Company <b>Isern Petroleum Co</b>	Test No. <b>5 (straddle test)</b>
Well Name & Number <b>Herbel #1</b>	Zone Tested <b>Marmaton</b>
Company Address <b>PO Box Ellinwood</b>	Date <b>11-12-76</b>
Comp. Rep. <b>Lewis Chubb</b>	Tester <b>Kenneth Cheney</b>
Contractor <b>Chief Drlg. Co.</b>	Elevation <b>3165 K.B.</b>
Location: Sec. <b>28</b> Twp. <b>9 S</b> Rge. <b>33 W</b> Co. <b>Thomas</b> State <b>Ks</b>	Est. Feet of Pay _____

Recorder No. **6730** Type **Kuster** Range **4200** PSI

Recorder Depth **4530**

(A) Initial Hydrostatic Mud **2270** PSI

(B) First Initial Flow Pressure **10** PSI

(C) First Final Flow Pressure **10** PSI

(D) Initial Closed-in Pressure **961** PSI

(E) Second Initial Flow Pressure **21** PSI

(F) Second Final Flow Pressure **21** PSI

(G) Final Closed-in Pressure **1004** PSI

(H) Final Hydrostatic Mud **2252** PSI

Temperature **112**

Mud Weight **9.5** Viscosity **51**

Fluid Loss **6.2 cc**

Interval Tested **4502-4534**

Anchor Length **32**

Top Packer Depth **4502**

Bottom Packer Depth **4534**

Total Depth **4761**

Drill Pipe Size **4½ Fh**

Wt. Pipe I. D. **2.7** Ft. Run **1054**

Recovery—Total Feet **30**

Recovered **30** Feet Of **Mud**

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of **125**

Recovered \_\_\_\_\_ Feet Of **375**

Extra Equipment **Straddle \$125.00**

Recorder No. **54** Type **H&T** Range **4000** PSI

Recorder Depth **4528**

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

Initial Shut-in **30** Mins.

Flow Period **45** Mins.

Final Shut-in **60** Mins.

Surface Choke Size **1 "**

Bottom Choke Size **½ "**

Main Hole Size **7 7/8 "**

Rubber Size **6 3/4 "**

Tool Open @ **10:30 P.M.**

Blow **Weak for 40 Min.**

Remarks \_\_\_\_\_

**(Straddle Test)**

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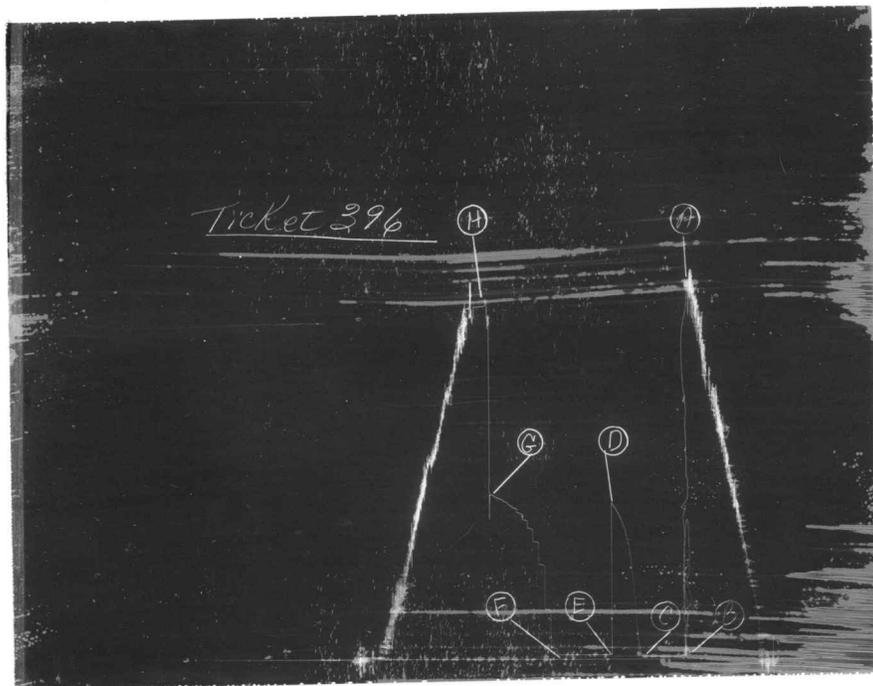
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Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_

Price of Job **\$500.00**



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud .....	2270	PSI
(B) First Initial Flow Pressure .....	10	PSI
(C) First Final Flow Pressure .....	10	PSI
(D) Initial Closed-in Pressure .....	961	PSI
(E) Second Initial Flow Pressure .....	21	PSI
(F) Second Final Flow Pressure .....	21	PSI
(G) Final Closed-in Pressure .....	1004	PSI
(H) Final Hydrostatic Mud .....	2252	PSI