

This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1844		PSI
(B) First Initial Flow Pressure	32		PSI
(C) First Final Flow Pressure	32		PSI
(D) Initial Closed-in Pressure	1137		PSI
(E) Second Initial Flow Pressure	32		PSI
(F) Second Final Flow Pressure	32		PSI
(G) Final Closed-in Pressure	1083		PSI
(H) Final Hydrostatic Mud	1833		PSI

CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Ritchie Exploration, inc.	Test No.	2
Well Name & Number	Keith Estate #2	Zone Tested	Kansas City
Company Address	125 N. Market, Suite 1000, Wichita	Date	1-22-86
Company Rep.	Bob Buffo	Tester	Gary Hartwell
Contractor	Murfin Drilling Co.	Elevation	2304
Location: Sec. 14 Twp. 6s Rge. 22w CoGraham State Ks.		Est. Feet of Pay	

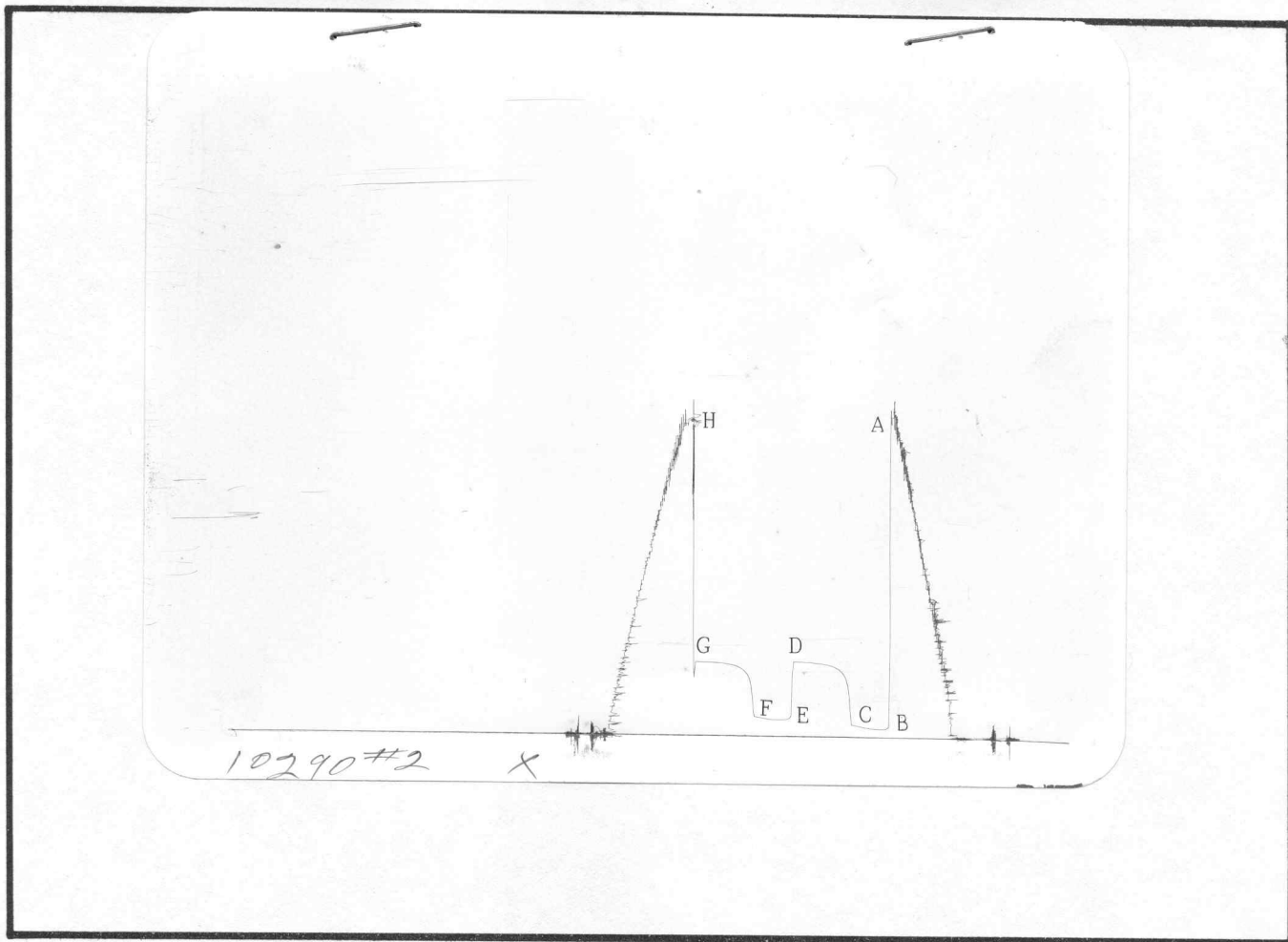
Recorder No. 13371 Type AK-1 Range 3900 PSI
 Recorder Depth 3608 Clock # 25825
 (A) Initial Hydrostatic Mud 1908 PSI
 (B) First Initial Flow Pressure 32 PSI
 (C) First Final Flow Pressure 54 PSI
 (D) Initial Shut-in Pressure 434 PSI
 (E) Second Initial Flow Pressure 86 PSI
 (F) Second Final Flow Pressure 97 PSI
 (G) Final Shut-in Pressure 423 PSI
 (H) Final Hydrostatic Mud 1886 PSI
 Temperature 107^o
 Mud Weight 9.7 Viscosity 42
 Fluid Loss 9.6
 Interval Tested 3579-3614
 Anchor Length 35
 Top Packer Depth 3574
 Bottom Packer Depth 3579
 Total Depth 3614
 Drill Pipe Size 4 1/2" FH
 Wt. Pipe I. D. 2.7 Ft. Run 854
 Recovery-Total Feet 210
 Recovered 210 Feet Of Watery Mud
 Recovered _____ Feet Of Few Oil Specks in Tool
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

Recorder No. 10290 Type AK-1 Range 4250 PSI
 Recorder Depth 3611 Clock # 25826
 Tool Open Before I.S.I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 30 Mins.
 Final Shut-in 45 Mins.
 Top Choke Size 1" Hole Size 7 7/8"
 Bottom Choke Size 3/4" Rubber Size 6 3/4"
 Tool Open @ 10:03 A.M.
 Blow Remarks _____
1st Open: Fair Building Blow to 7"
2nd Open: Weak Building Blow to 4"

 Mud Chlorides: 5,500
 Recovery Chlorides: 35,000
 Resistivity: 0.22 @ 62^o

Drill Collars: I.D 2.25, Ft. Run 295

Extra Equipment _____ Price of Job 550.00



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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1908	PSI
(B) First Initial Flow Pressure	32	PSI
(C) First Final Flow Pressure	54	PSI
(D) Initial Closed-in Pressure	434	PSI
(E) Second Initial Flow Pressure	86	PSI
(F) Second Final Flow Pressure	97	PSI
(G) Final Closed-in Pressure	423	PSI
(H) Final Hydrostatic Mud	1886	PSI