

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	1
Well Name & Number	Keiswetter #1-26B	Zone Tested	K.C. "C & D"
Company Address	125 N. Market #1000, Wichita, Kan.	Date	6-19-88
Company Rep.	Bob Mathieson	Tester	Gary Hartwell
Contractor	Murfin Drlg. Co. #8	Elevation	2371 K.B.
Location: Sec. 26 Twp. 6S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3677 Clock # 23859

(A) Initial Hydrostatic Mud 1911 PSI

(B) First Initial Flow Pressure 47 PSI

(C) First Final Flow Pressure 295 PSI

(D) Initial Shut-in Pressure 1136 PSI

(E) Second Initial Flow Pressure 343 PSI

(F) Second Final Flow Pressure 477 PSI

(G) Final Shut-in Pressure 1126 PSI

(H) Final Hydrostatic Mud 1911 PSI

Temperature 122^o

Mud Weight 9.6 Viscosity 44

Fluid Loss 10.2 c.c.

Interval Tested 3639-3683

Anchor Length 44'

Top Packer Depth 3634

Bottom Packer Depth 3639

Total Depth 3683

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 539

Recovery-Total Feet 1012

Recovered 20 Feet Of Oil spot muddy wtr.

Recovered 248 Feet Of M.W.

Recovered 744 Feet Of Wtr.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3680 Clock # 25561

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Top Choke Size 1" Hole Size 7 7/8"

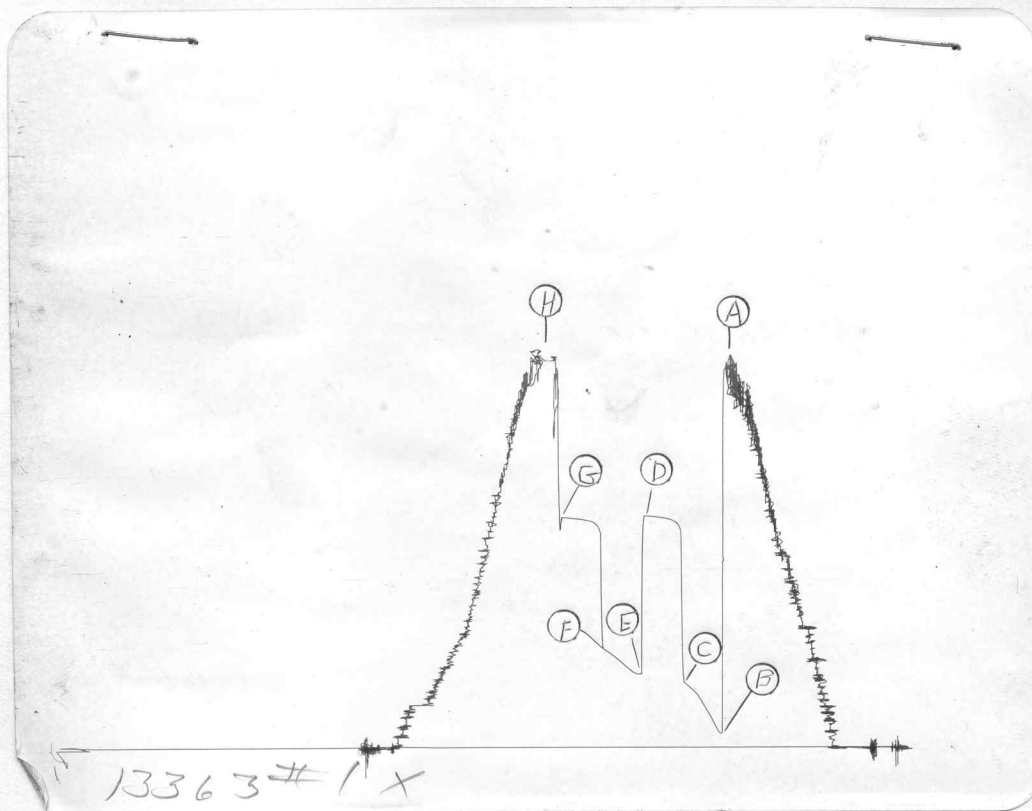
Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 7:32 P.M.

Blow Remarks 1st open; Bottom of bucket in 5 minutes.

2nd open; Bottom of bucket in 7 minutes.

Rw. 0.08 @ 87^o



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1911	PSI
(B) First Initial Flow Pressure	47	PSI
(C) First Final Flow Pressure	295	PSI
(D) Initial Closed-in Pressure	1136	PSI
(E) Second Initial Flow Pressure	343	PSI
(F) Second Final Flow Pressure	477	PSI
(G) Final Closed-in Pressure	1126	PSI
(H) Final Hydrostatic Mud	1911	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	2
Well Name & Number	Keiswetter #1-26B	Zone Tested	K.C. "E & F"
Company Address	125 N. Market #1000, Wichita, Kan.	Date	6-20-88
Company Rep.	Bob Mathieson	Tester	Gary Hartwell
Contractor	Murfin Drlg. Co. #8	Elevation	2371 K.B.
Location: Sec. 26 Twp. 6S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3697 Clock # 23859

(A) Initial Hydrostatic Mud 1921 PSI

(B) First Initial Flow Pressure 10 PSI

(C) First Final Flow Pressure 10 PSI

(D) Initial Shut-in Pressure 1174 PSI

(E) Second Initial Flow Pressure 19 PSI

(F) Second Final Flow Pressure 19 PSI

(G) Final Shut-in Pressure 1136 PSI

(H) Final Hydrostatic Mud 1921 PSI

Temperature 112

Mud Weight 9.6 Viscosity 44

Fluid Loss 10.2 c.c.

Interval Tested 3677-3703

Anchor Length 26'

Top Packer Depth -

Bottom Packer Depth 3677

Total Depth 3703

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 539

Recovery-Total Feet 10

Recovered 10 Feet Of Mud w/few oil specs

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3700 Clock # 25561

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

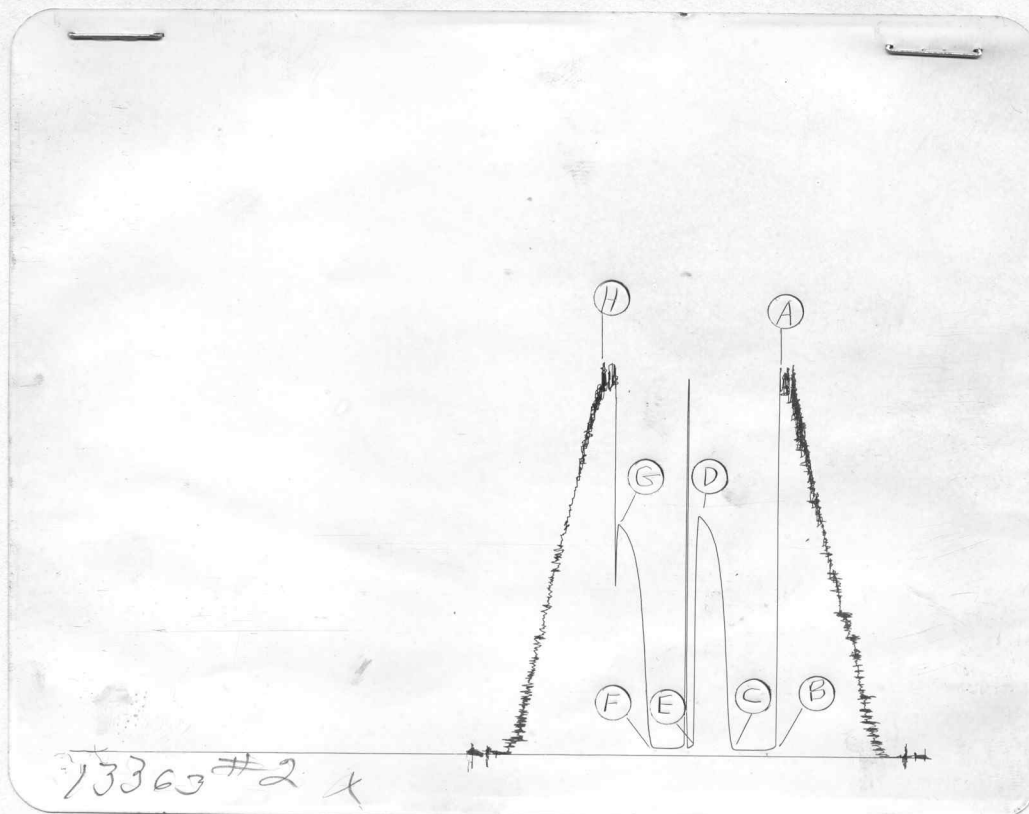
Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 8:11 A.M.

Blow Remarks 1st open: Weak 1/2" blow, died in 16 min.

2nd open: No blow, flushed tool, good surge, no blow.



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1921	PSI
(B) First Initial Flow Pressure	10	PSI
(C) First Final Flow Pressure	10	PSI
(D) Initial Closed-in Pressure	1174	PSI
(E) Second Initial Flow Pressure	19	PSI
(F) Second Final Flow Pressure	19	PSI
(G) Final Closed-in Pressure	1136	PSI
(H) Final Hydrostatic Mud	1921	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	3
Well Name & Number	Keiswetter #1-26B	Zone Tested	K.C.
Company Address	125 N. Market #1000, Wichita, Kan.	Date	6-21-88
Company Rep.	Bob Mathieson	Tester	Gary Hartwell
Contractor	Murfin Drlg. Co. #8	Elevation	2371 K.B.
Location: Sec. 26 Twp. 6S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3810 Clock # 23859

(A) Initial Hydrostatic Mud 1964 PSI

(B) First Initial Flow Pressure 20 PSI

(C) First Final Flow Pressure 20 PSI

(D) Initial Shut-in Pressure 868 PSI

(E) Second Initial Flow Pressure 30 PSI

(F) Second Final Flow Pressure 30 PSI

(G) Final Shut-in Pressure 788 PSI

(H) Final Hydrostatic Mud 1944 PSI

Temperature 112

Mud Weight 9.6 Viscosity 44

Fluid Loss 10.0 c.c.

Interval Tested 3722-3816

Anchor Length 94

Top Packer Depth 3717

Bottom Packer Depth 3722

Total Depth 3816

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 477

Recovery-Total Feet 30

Recovered 30 Feet Of Mud

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3813 Clock # 25561

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Top Choke Size 1" Hoie Size 7 7/8"

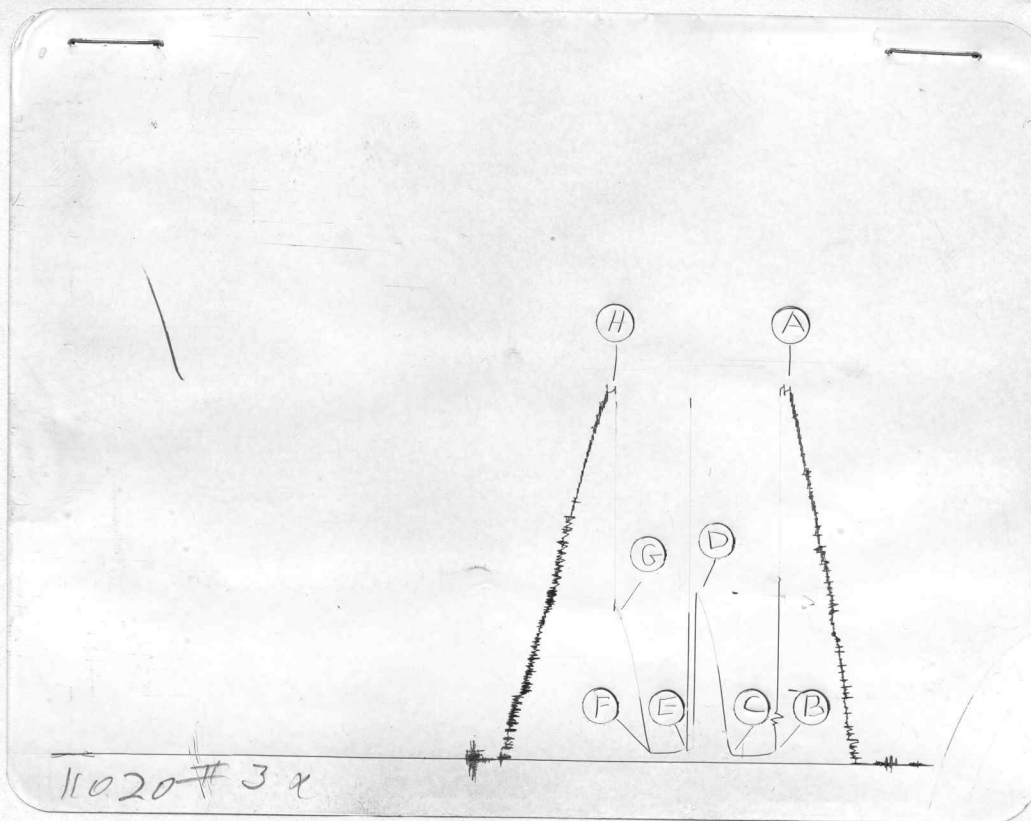
Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 3:02 A.M.

Blow Remarks 1st open: Weak 1/2" blow, dying to surface.

2nd open: No blow, flushed tool, good surge, no blow.

Price of Job



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1964	PSI
(B) First Initial Flow Pressure	20	PSI
(C) First Final Flow Pressure	20	PSI
(D) Initial Closed-in Pressure	868	PSI
(E) Second Initial Flow Pressure	30	PSI
(F) Second Final Flow Pressure	30	PSI
(G) Final Closed-in Pressure	788	PSI
(H) Final Hydrostatic Mud	1944	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	4
Well Name & Number	Keiswetter #1-26B	Zone Tested	
Company Address	125 N. Market #1000, Wichita, Kan.	Date	6-21-88
Company Rep.	Bob Mathieson	Tester	Gary Hartwell
Contractor	Murfin Drlg. Co. #8	Elevation	2371 K.B.
Location: Sec. 26 Twp. 6S Rge. 22W Co. Graham State Kan.		Est. Feet of Pay	

Recorder No. 11020 Type AK-1 Range 3900 PSI

Recorder Depth 3889 Clock # 23859

(A) Initial Hydrostatic Mud 2055 PSI

(B) First Initial Flow Pressure 38 PSI

(C) First Final Flow Pressure 38 PSI

(D) Initial Shut-in Pressure 57 PSI

(E) Second Initial Flow Pressure 28 PSI

(F) Second Final Flow Pressure 28 PSI

(G) Final Shut-in Pressure 47 PSI

(H) Final Hydrostatic Mud 2055 PSI

Temperature 120°

Mud Weight 9.7 Viscosity 45

Fluid Loss 10.0

Interval Tested 3840-3895

Anchor Length 55

Top Packer Depth 3835

Bottom Packer Depth 3840

Total Depth 3895

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 549

Recovery-Total Feet 10

Recovered 10 Feet Of Mud.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3892 Clock # 25561

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

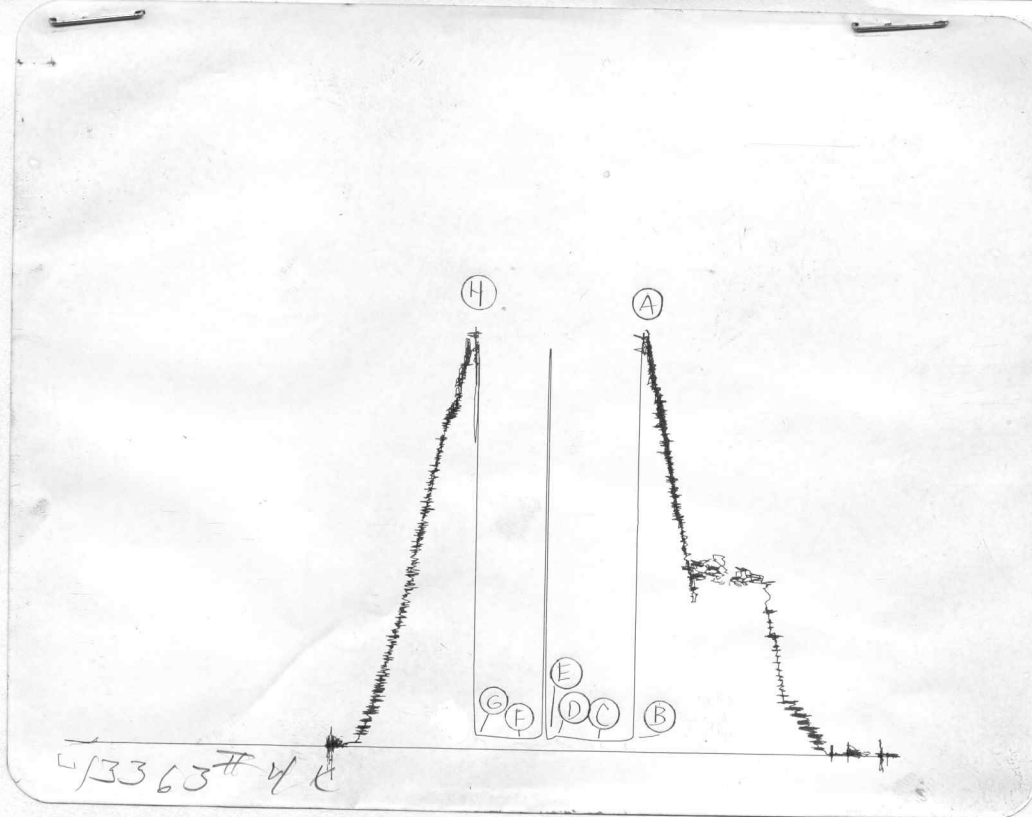
Final Shut-in 30 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 4:52 P.M.

Blow Remarks 1st Open: Weak ¼" blow died 14 min. 2nd Open: No Blow. Flushed tool. Good surge. No Blow.



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2055	PSI
(B) First Initial Flow Pressure	38	PSI
(C) First Final Flow Pressure	38	PSI
(D) Initial Closed-in Pressure	57	PSI
(E) Second Initial Flow Pressure	28	PSI
(F) Second Final Flow Pressure	28	PSI
(G) Final Closed-in Pressure	47	PSI
(H) Final Hydrostatic Mud	2055	PSI