

CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

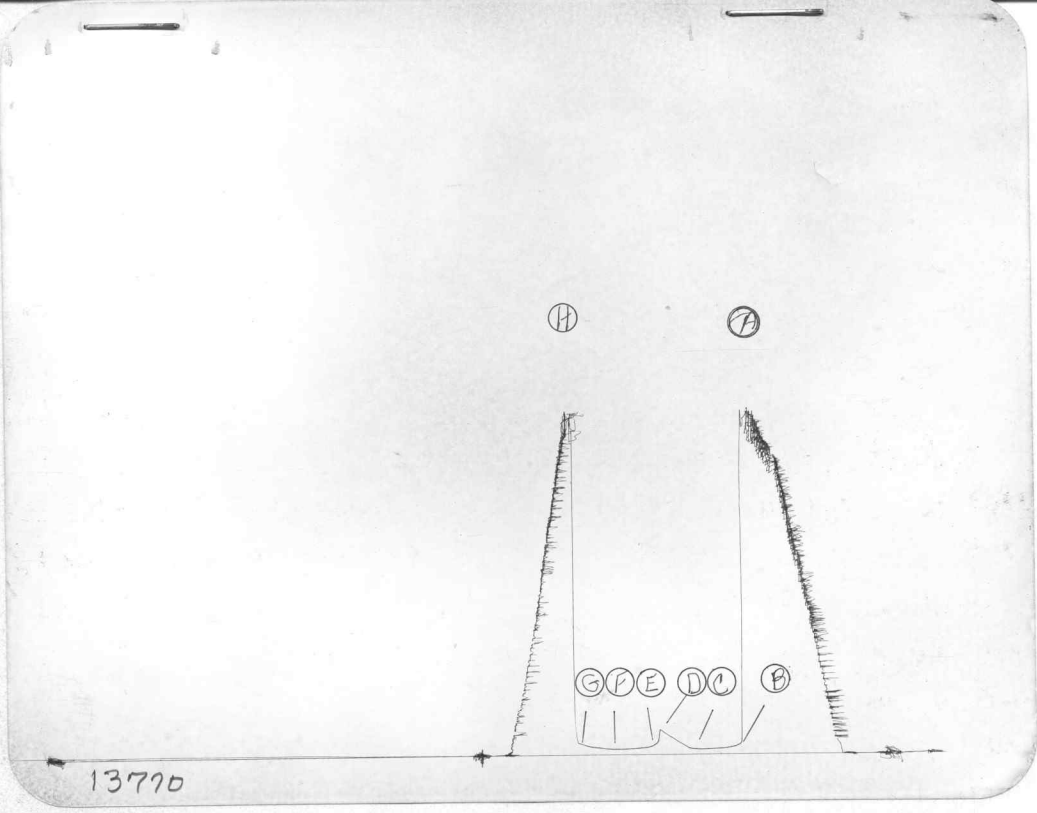
DRILL-STEM TEST DATA

Company	Ritchie Exploration Inc.	Test No.	1
Well Name & Number	Schaben 21 D #1	Zone Tested	Kansas City
Company Address	125 N. Market #1000, Wichita, Kan.	Date	4-25-93
Company Rep.	Jeff Christian	Tester	Huck Smith
Contractor	Murfin Drlg. Co. #8	Elevation	2376 K.B.
Location: Sec. 21 Twp. 6S Rge. 23W CoGraham State Kan.	Est. Feet of Pay		

Recorder No. 13363 Type AK-1 Range 3800 PSI
 Recorder Depth 3637 Clock # 25831
 (A) Initial Hydrostatic Mud 1883 PSI
 (B) First Initial Flow Pressure 47 PSI
 (C) First Final Flow Pressure 47 PSI
 (D) Initial Shut-in Pressure 124 PSI
 (E) Second Initial Flow Pressure 47 PSI
 (F) Second Final Flow Pressure 47 PSI
 (G) Final Shut-in Pressure 66 PSI
 (H) Final Hydrostatic Mud 1873 PSI
 Temperature 104°
 Mud Weight 9.6 Viscosity 43
 Fluid Loss 10.0 c.c.
 Interval Tested 3625-3645
 Anchor Length 20'
 Top Packer Depth 3620
 Bottom Packer Depth 3625
 Total Depth 3645
 Drill Pipe Size 4½ EX.H.

Recorder No. 13770 Type AK-1 Range 4200 PSI
 Recorder Depth 3640 Clock # 25559
 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 @ 10:30 P.M.
 Blow Remarks 1st open; Weak blow ½"
2nd open; No blow

Recovery-Total Feet 12
 Recovered 10 Feet Of Mud with oil spots
 Recovered 2 Feet Of F.O.
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Extra Equipment _____ Price of Job _____



PRESSURE

POINT	FIELD READING	OFFICE READING
(A) Initial Hydrostatic Mud	1883	PSI
(B) First Initial Flow Pressure	47	PSI
(C) First Final Flow Pressure	47	PSI
(D) Initial Closed-in Pressure	124	PSI
(E) Second Initial Flow Pressure	47	PSI
(F) Second Final Flow Pressure	47	PSI
(G) Final Closed-in Pressure	66	PSI
(H) Final Hydrostatic Mud	1873	PSI

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DRILL-STEM TEST DATA

Company Ritchie Exploration Inc.	Test No. 2
Well Name & Number Schabin 21-D #1	Zone Tested Kansas City
Company Address 125 N. Market #1000, Wichita, Kan.	Date 4-26-93
Company Rep. Jeff Christian	Tester Huck Smith
Contractor Murfin #8	Elevation 2387 K.B.
Location: Sec. 21 Twp. 6S Rge. 23W Co. Graham State Kan.	Est. Feet of Pay

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3680 Clock # 25831

(A) Initial Hydrostatic Mud 1959 PSI

(B) First Initial Flow Pressure 104 PSI

(C) First Final Flow Pressure 190 PSI

(D) Initial Shut-in Pressure 725 PSI

(E) Second Initial Flow Pressure 295 PSI

(F) Second Final Flow Pressure 353 PSI

(G) Final Shut-in Pressure 715 PSI

(H) Final Hydrostatic Mud 1911 PSI

Temperature 107°

Mud Weight 9.6 Viscosity 44

Fluid Loss 12.0 c.c.

Interval Tested 3644-3688

Anchor Length 44'

Top Packer Depth 3639

Bottom Packer Depth 3644

Total Depth 3688

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. - Ft. Run -

Recovery-Total Feet 810

Recovered 810 Feet Of Saltwater

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job _____

Recorder No. 13770 Type AK-1 Range 4200 PSI

Recorder Depth 3683 Clock # 25559

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"

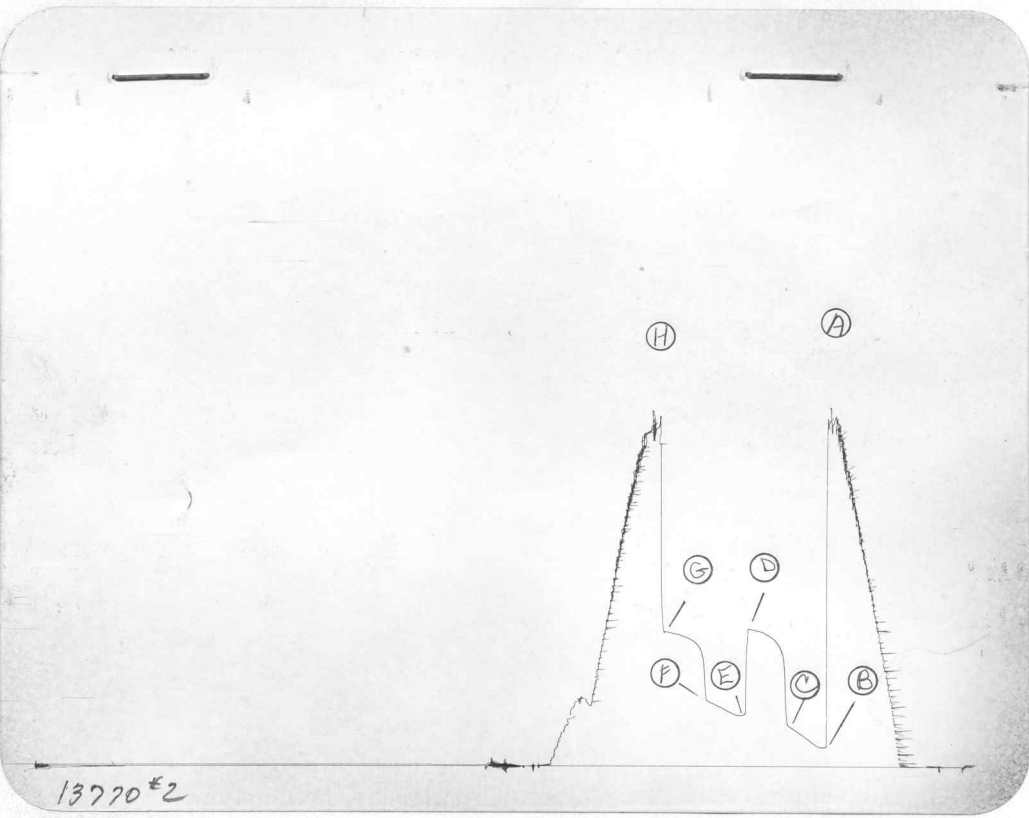
Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 11:50 A.M.

Blow Remarks 1st open; Strong blow, bottom of the bucket in 5 minutes.

2nd open; Bottom of the bucket in 9 min.

Chlorides; 50,000 P.P.M.



POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1959		PSI
(B) First Initial Flow Pressure	104		PSI
(C) First Final Flow Pressure	190		PSI
(D) Initial Closed-in Pressure	725		PSI
(E) Second Initial Flow Pressure	295		PSI
(F) Second Final Flow Pressure	353		PSI
(G) Final Closed-in Pressure	715		PSI
(H) Final Hydrostatic Mud	1911		PSI

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DRILL-STEM TEST DATA

Company <u>Ritchie Exploration Inc.</u>	Test No. <u>3</u>
Well Name & Number <u>Schabin 21-D #1</u>	Zone Tested <u>Kansas City</u>
Company Address <u>125 N. Market #1000, Wichita, Kan.</u>	Date <u>4-27-93</u>
Company Rep. <u>Jeff Christian</u>	Tester <u>Huck Smith</u>
Contractor <u>Murfin #8</u>	Elevation <u>2387 K.B.</u>
Location: Sec. <u>21</u> Twp. <u>6S</u> Rge. <u>23W</u> Co <u>Graham</u> State <u>Kan</u>	Est. Feet of Pay _____

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 3827 Clock # 25831

(A) Initial Hydrostatic Mud 2065 PSI

(B) First Initial Flow Pressure 66 PSI

(C) First Final Flow Pressure 57 PSI

(D) Initial Shut-in Pressure 849 PSI

(E) Second Initial Flow Pressure 66 PSI

(F) Second Final Flow Pressure 57 PSI

(G) Final Shut-in Pressure 791 PSI

(H) Final Hydrostatic Mud 1998 PSI

Temperature 108°

Mud Weight 9.6 Viscosity 49

Fluid Loss 12.0 c.c.

Interval Tested 3757-3835

Anchor Length 78'

Top Packer Depth 3752

Bottom Packer Depth 3757

Total Depth 3835

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. - Ft. Run -

Recovery-Total Feet 15

Recovered 15 Feet Of Mud w/oil spots

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job _____

Recorder No. 13770 Type AK-1 Range 4200 PSI

Recorder Depth 3830 Clock # 25559

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

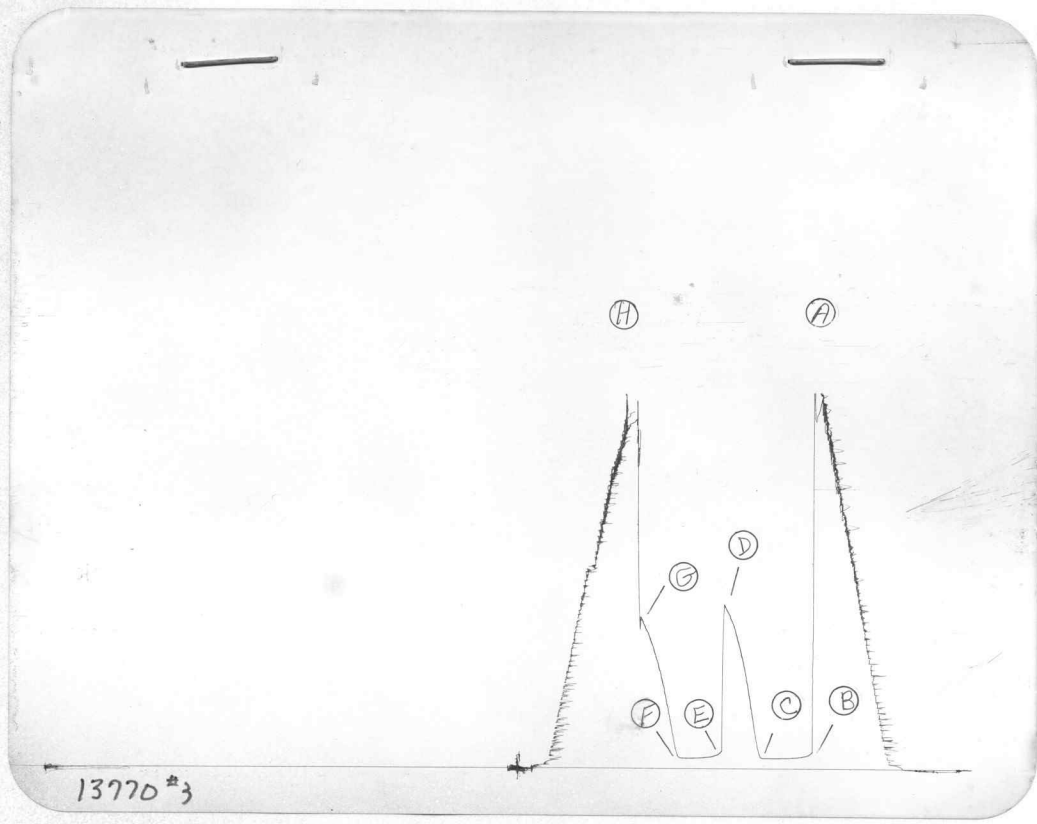
Top Choke Size 1" Hole Size 7 7/8"

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

Tool Open @ 10:35 A.M.

Blow Remarks 1st open; Weak blow died in 17 min.

2nd open; No blow



POINT	PRESSURE		PSI
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2065		PSI
(B) First Initial Flow Pressure	66		PSI
(C) First Final Flow Pressure	57		PSI
(D) Initial Closed-in Pressure	849		PSI
(E) Second Initial Flow Pressure	66		PSI
(F) Second Final Flow Pressure	57		PSI
(G) Final Closed-in Pressure	791		PSI
(H) Final Hydrostatic Mud	1998		PSI

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Company Rep. <u>Jeff Christian</u>	Tester <u>Huck Smith</u>
Contractor <u>Murfin #8</u>	Elevation <u>2387 K.B.</u>
Location: Sec. <u>21</u> Twp. <u>6S</u> Rge. <u>23W</u> Co <u>Graham</u> State <u>Kan.</u>	Est. Feet of Pay _____

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Recorder Depth 3827 Clock # 25831

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(F) Second Final Flow Pressure 57 PSI

(G) Final Shut-in Pressure 791 PSI

(H) Final Hydrostatic Mud 1998 PSI

Temperature 108°

Mud Weight 9.6 Viscosity 49

Fluid Loss 12.0 c.c.

Interval Tested 3757-3835

Anchor Length 78'

Top Packer Depth 3752

Bottom Packer Depth 3757

Total Depth 3835

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. - Ft. Run -

Recovery-Total Feet 15

Recovered 15 Feet Of Mud w/oil spots

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job _____

Recorder No. 13770 Type AK-1 Range 4200 PSI

Recorder Depth 3830 Clock # 25559

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

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

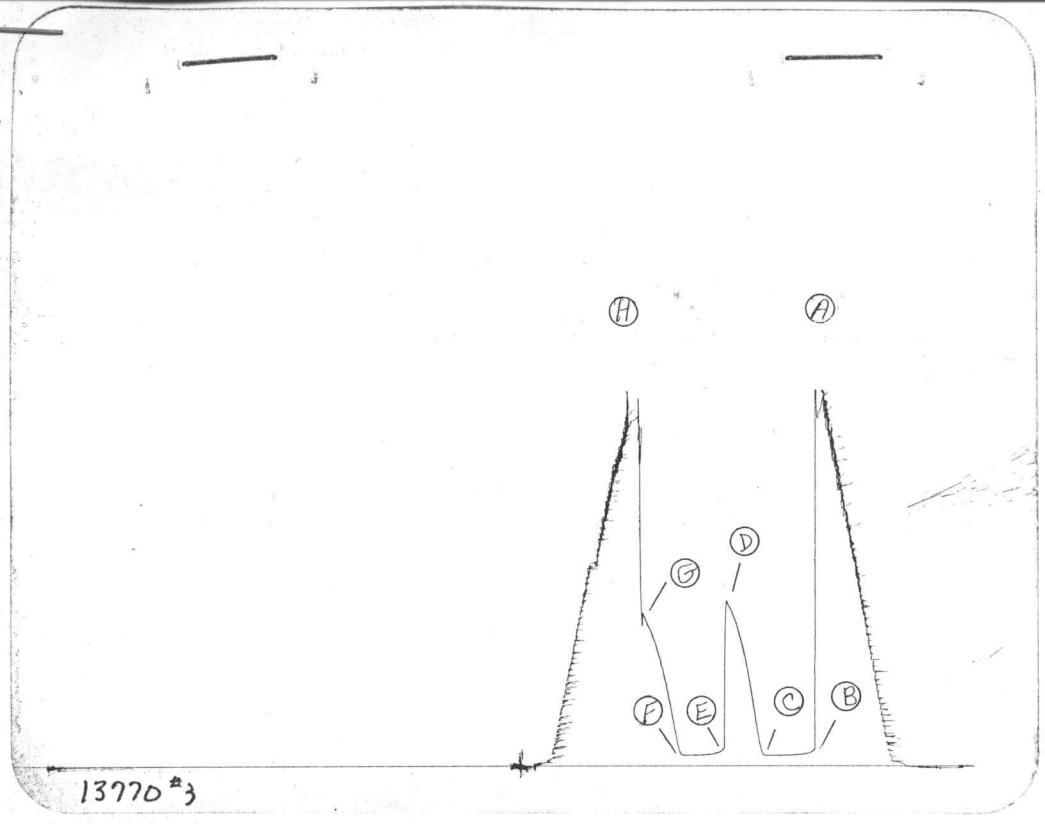
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	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2065		PSI
(B) First Initial Flow Pressure	66		PSI
(C) First Final Flow Pressure	57		PSI
(D) Initial Closed-in Pressure	849		PSI
(E) Second Initial Flow Pressure	66		PSI
(F) Second Final Flow Pressure	57		PSI
(G) Final Closed-in Pressure	791		PSI
(H) Final Hydrostatic Mud	1998		PSI