

CONFIDENTIAL**CHENEY TESTING COMPANY, INC.**

P. O. Box 367

HILL CITY, KANSAS 67642

ORIGINAL**DRILL-STEM TEST DATA**

Company	Ritchie Exploration, Inc.	Test No.	1
Well Name & Number	Allen Worcester #1-B	Zone Tested	Topeka
Company Address	125 N. Market, Suite 1000, Wichita, KS.	Date	6-28-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drilling Co., Inc. #8	Elevation	2302 K.B.
Location: Sec. 24 Twp. 6S Rge. 22W Co. Graham State KS.		Est. Feet of Pay	

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3482 Clock # 23858

(A) Initial Hydrostatic Mud 1795 PSI

(B) First Initial Flow Pressure 96 PSI

(C) First Final Flow Pressure 442 PSI

(D) Initial Shut-in Pressure 913 PSI

(E) Second Initial Flow Pressure 509 PSI

(F) Second Final Flow Pressure 673 PSI

(G) Final Shut-in Pressure 903 PSI

(H) Final Hydrostatic Mud 1727 PSI

Temperature 110 °

Mud Weight 9.5 Viscosity 40

Fluid Loss

Interval Tested 3440-3490

Anchor Length 50

Top Packer Depth ----

Bottom Packer Depth 3440

Total Depth 3490

Drill Pipe Size 4 1/2" X.H.

Wt. Pipe I. D. 2.7 Ft. Run 602

Recovery-Total Feet 1320

Recovered 1320 Feet Of Muddy Saltwater with a trace of oil.

Recovered Feet Of Chl. 45,000 P.P.M..

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3485 Clock # 26195

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 @ 2:25 A.M.

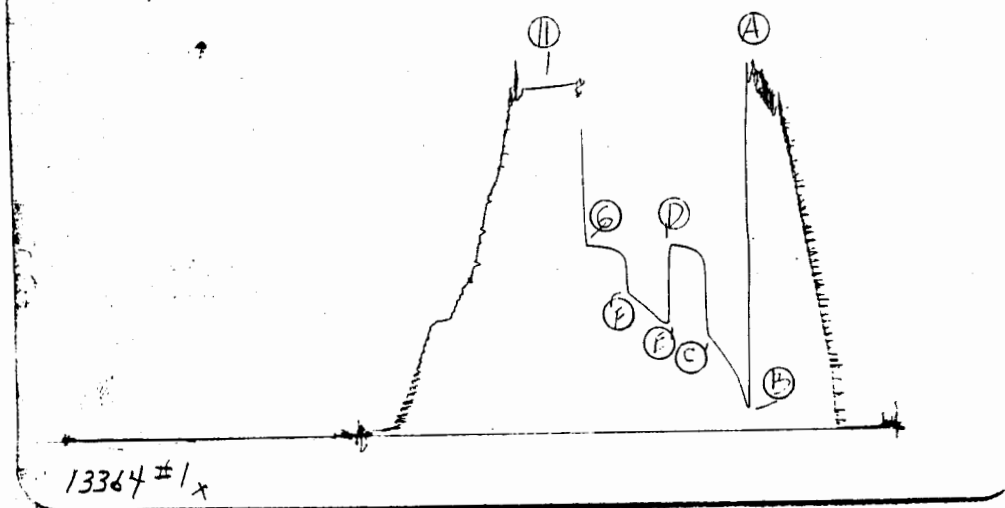
Blow Remarks 1st Open: Strong Blow.

2nd Open: Strong Blow throughout test.

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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1795	PSI
(B) First Initial Flow Pressure	96	PSI
(C) First Final Flow Pressure	442	PSI
(D) Initial Closed-in Pressure	913	PSI
(E) Second Initial Flow Pressure	509	PSI
(F) Second Final Flow Pressure	673	PSI
(G) Final Closed-in Pressure	903	PSI
(H) Final Hydrostatic Mud	1727	PSI

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ORIGINAL**DRILL-STEM TEST DATA**

Company	Ritchie Exploration, Inc.	Test No.	2
Well Name & Number	Allen Worcester #1-B	Zone Tested	Toronto & Lansing "A"
Company Address	125 N. Market, Suite 1000, Wichita, KS.	Date	6-28-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drilling Co., Inc. #8	Elevation	2302 K.B.
Location: Sec. 24	Twp. 6S	Rge. 22W	Co. Graham State KS.
			Est. Feet of Pay

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3557 Clock # 23858

(A) Initial Hydrostatic Mud 1853 PSI

(B) First Initial Flow Pressure 451 PSI

(C) First Final Flow Pressure 913 PSI

(D) Initial Shut-in Pressure 1229 PSI

(E) Second Initial Flow Pressure 1000 PSI

(F) Second Final Flow Pressure 1038 PSI

(G) Final Shut-in Pressure 1229 PSI

(H) Final Hydrostatic Mud 1824 PSI

Temperature 111 °

Mud Weight 9.5 Viscosity 45

Fluid Loss 9.6

Interval Tested 3503-3565

Anchor Length 62

Top Packer Depth 3498

Bottom Packer Depth 3503

Total Depth 3565

Drill Pipe Size 4½" X.H.

Wt. Pipe I. D. 2.7 Ft. Run 602

Recovery-Total Feet 3060

Recovered 505 Feet Of Gas in pipe.

Recovered 2940 Feet Of Free Oil. (Gravity =36)

Recovered 120 Feet Of Oil-Cut Mud. (Oil 40%, Mud 60%)

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3560 Clock # 26195

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 @ 6:55 P.M.

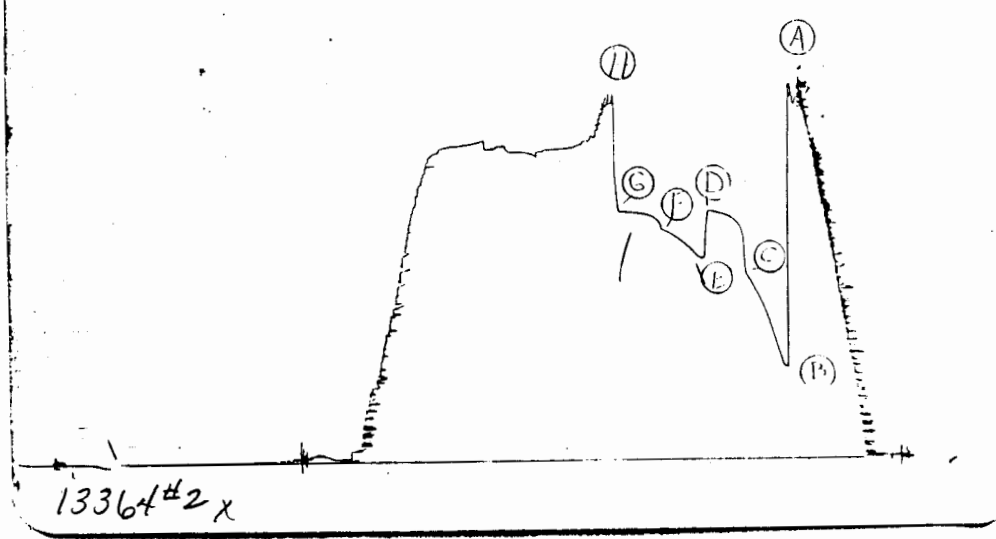
Blow Remarks 1st Open: Strong Blow throughout test.

2nd Open: Strong Blow throughout.

Gas to surface 15 min.

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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1853	1891.8 PSI
(B) First Initial Flow Pressure	451	456 PSI
(C) First Final Flow Pressure	913	932.9 PSI
(D) Initial Closed-in Pressure	1229	1234.1 PSI
(E) Second Initial Flow Pressure	1000	1001.9 PSI
(F) Second Final Flow Pressure	1038	1142.0 PSI
(G) Final Closed-in Pressure	1229	1229.3 PSI
(H) Final Hydrostatic Mud	1824	1819 PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	3
Well Name & Number	Allen Worcester #1-B	Zone Tested	Lansing 35' & 50' Zone
Company Address	125 N. Market. #1000, Wichita, Kan.	Date	6-29-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drlg. #8	Elevation	2302 K.B.
Location: Sec. 24 Twp. 6S Rge. 22W Co. Graham State Kan		Est. Feet of Pay	

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3599 Clock # 23858

(A) Initial Hydrostatic Mud 1901 PSI

(B) First Initial Flow Pressure 57 PSI

(C) First Final Flow Pressure 67 PSI

(D) Initial Shut-in Pressure 1066 PSI

(E) Second Initial Flow Pressure 86 PSI

(F) Second Final Flow Pressure 105 PSI

(G) Final Shut-in Pressure 1066 PSI

(H) Final Hydrostatic Mud 1833 PSI

Temperature 112'

Mud Weight 9.5 Viscosity 45

Fluid Loss 9.6 c.c.

Interval Tested 3568-3607

Anchor Length 39'

Top Packer Depth -

Bottom Packer Depth 3568

Total Depth 3607

Drill Pipe Size 4½ EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 602

Recovery-Total Feet 160'

Recovered 130 Feet Of O.C.W.M. (10% Oil 10% Wtr. 80% Mud)

Recovered 30 Feet Of W.M. (1% Oil 40% Wtr. 59% Mud)

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment

Price of Job

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3602 Clock # 26195

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 @ 12:00 P.M.

Blow Remarks 1st open; Fair blow 5"

2nd open: 4" blow

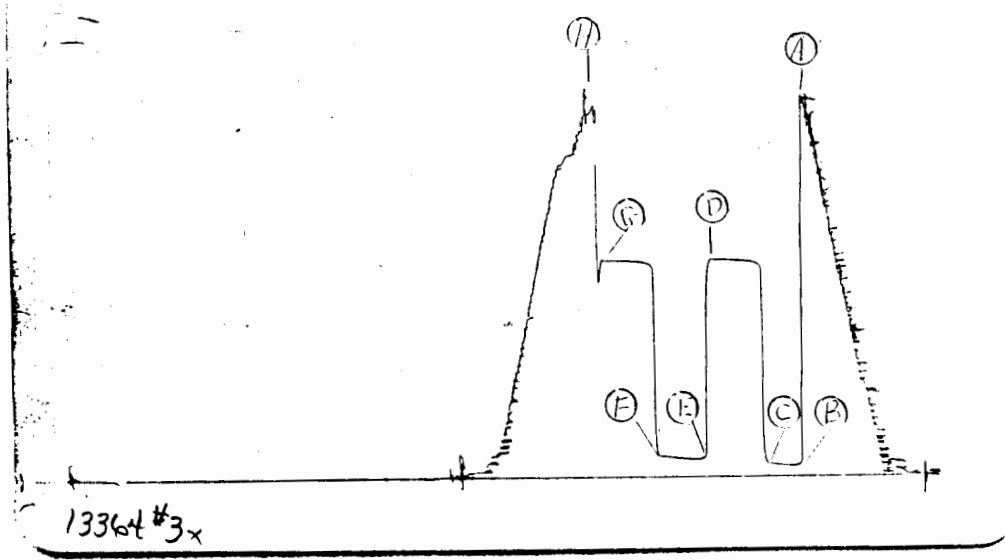
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Chlorides 36,000 P.P.M.

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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1901	PSI
(B) First Initial Flow Pressure	57	PSI
(C) First Final Flow Pressure	67	PSI
(D) Initial Closed-in Pressure	1066	PSI
(E) Second Initial Flow Pressure	86	PSI
(F) Second Final Flow Pressure	105	PSI
(G) Final Closed-in Pressure	1066	PSI
(H) Final Hydrostatic Mud	1833	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	4
Well Name & Number	Allen Worcester #1-B	Zone Tested	Lansing 70' & 90'
Company Address	125 N. Market. #1000, Wichita, Kan.	Date	6-30-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drlg. #8	Elevation	2302 K.B.
Location: Sec. 24 Twp. 6S Rge. 22W Co. Graham State Kan		Est. Feet of Pay	

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3615 Clock # 23858

(A) Initial Hydrostatic Mud 1920 PSI

(B) First Initial Flow Pressure 48 PSI

(C) First Final Flow Pressure 48 PSI

(D) Initial Shut-in Pressure 1200 PSI

(E) Second Initial Flow Pressure 57 PSI

(F) Second Final Flow Pressure 67 PSI

(G) Final Shut-in Pressure 1133 PSI

(H) Final Hydrostatic Mud 1872 PSI

Temperature 116

Mud Weight 9.5 Viscosity 40

Fluid Loss 10.6

Interval Tested 3604-3623

Anchor Length 19

Top Packer Depth -

Bottom Packer Depth 3604

Total Depth 3623

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 602

Recovery-Total Feet 40

Recovered 40 Feet Of O.C.M. (15% Oil 85% Mud)

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3618 Clock # 26195

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 @ 1:30 A.M.

Blow Remarks 1st open: Weak blow 2"

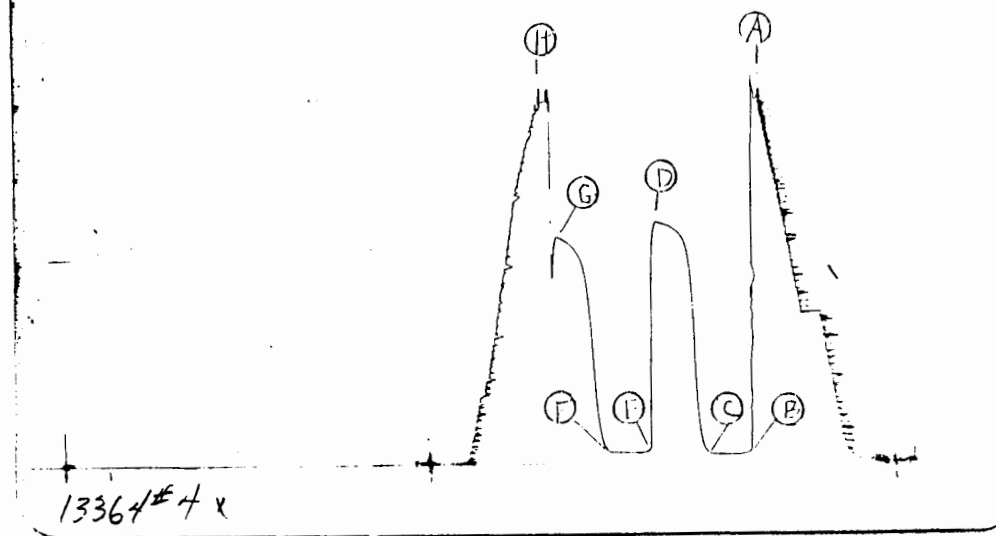
2nd open: 1" blow.

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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1920	PSI
(B) First Initial Flow Pressure	48	PSI
(C) First Final Flow Pressure	48	PSI
(D) Initial Closed-in Pressure	1200	PSI
(E) Second Initial Flow Pressure	57	PSI
(F) Second Final Flow Pressure	67	PSI
(G) Final Closed-in Pressure	1133	PSI
(H) Final Hydrostatic Mud	1872	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	5
Well Name & Number	Allen Worcester #1-B	Zone Tested	K.C.
Company Address	125 N. Market. #1000, Wichita, Kan.	Date	6-30-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drlg. #8	Elevation	2302 K.B.
Location: Sec. 24	Twp. 6S	Rge. 22W	Co. Graham State Kan
			Est. Feet of Pay

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3710 Clock # 23858

(A) Initial Hydrostatic Mud 1940 PSI

(B) First Initial Flow Pressure 67 PSI

(C) First Final Flow Pressure 67 PSI

(D) Initial Shut-in Pressure 576 PSI

(E) Second Initial Flow Pressure 76 PSI

(F) Second Final Flow Pressure 76 PSI

(G) Final Shut-in Pressure 451 PSI

(H) Final Hydrostatic Mud 1940 PSI

Temperature 117

Mud Weight 9.5 Viscosity 43

Fluid Loss 10.8

Interval Tested 3652-3718

Anchor Length 66'

Top Packer Depth -

Bottom Packer Depth 3652

Total Depth 3718

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 570

Recovery-Total Feet 45'

Recovered 45 Feet Of O.C.M. (10% Oil 90% Mud)

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3713 Clock # 26195

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 @ 7:00 P.M.

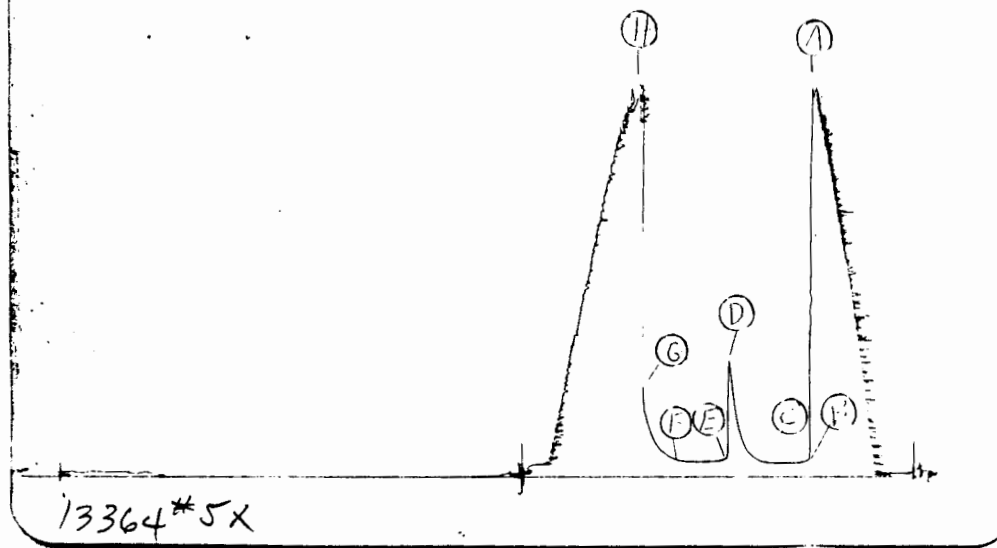
Blow Remarks 1st open: Weak blow

2nd open: Weak blow died in 20 minutes.

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POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1940	PSI
(B) First Initial Flow Pressure	67	PSI
(C) First Final Flow Pressure	67	PSI
(D) Initial Closed-in Pressure	576	PSI
(E) Second Initial Flow Pressure	76	PSI
(F) Second Final Flow Pressure	76	PSI
(G) Final Closed-in Pressure	451	PSI
(H) Final Hydrostatic Mud	1940	PSI

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DRILL-STEM TEST DATA

Company	Ritchie Exploration	Test No.	6
Well Name & Number	Allen Worcester #1-B	Zone Tested	K.C.
Company Address	125 N. Market. #1000, Wichita, Kan.	Date	7-1-88
Company Rep.	Rocky Milford	Tester	Huck Smith
Contractor	Murfin Drlg. #8	Elevation	2302 K.B.
Location: Sec. 24 Twp. 6S Rge. 22W Co. Graham State Kan		Est. Feet of Pay	

Recorder No. 7456 Type AK-1 Range 4150 PSI

Recorder Depth 3739 Clock # 23858

(A) Initial Hydrostatic Mud 1940 PSI

(B) First Initial Flow Pressure 86 PSI

(C) First Final Flow Pressure 259 PSI

(D) Initial Shut-in Pressure 1162 PSI

(E) Second Initial Flow Pressure 317 PSI

(F) Second Final Flow Pressure 403 PSI

(G) Final Shut-in Pressure 1133 PSI

(H) Final Hydrostatic Mud 1930 PSI

Temperature 117

Mud Weight 9.5 Viscosity 43

Fluid Loss 10.8

Interval Tested 3711-3747

Anchor Length 36'

Top Packer Depth 3706

Bottom Packer Depth 3711

Total Depth 3747

Drill Pipe Size 4 1/2 EX.H.

Wt. Pipe I. D. 2.7 Ft. Run 570

Recovery-Total Feet 780

Recovered 60 Feet Of F.O. 31 Gravity

Recovered 120 Feet Of O.C.W.M. (10% Oil 40% Wtr. 50% Mud)

Recovered 600 Feet Of Saltwater

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3742 Clock # 26195

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 @ 8:00 A.M.

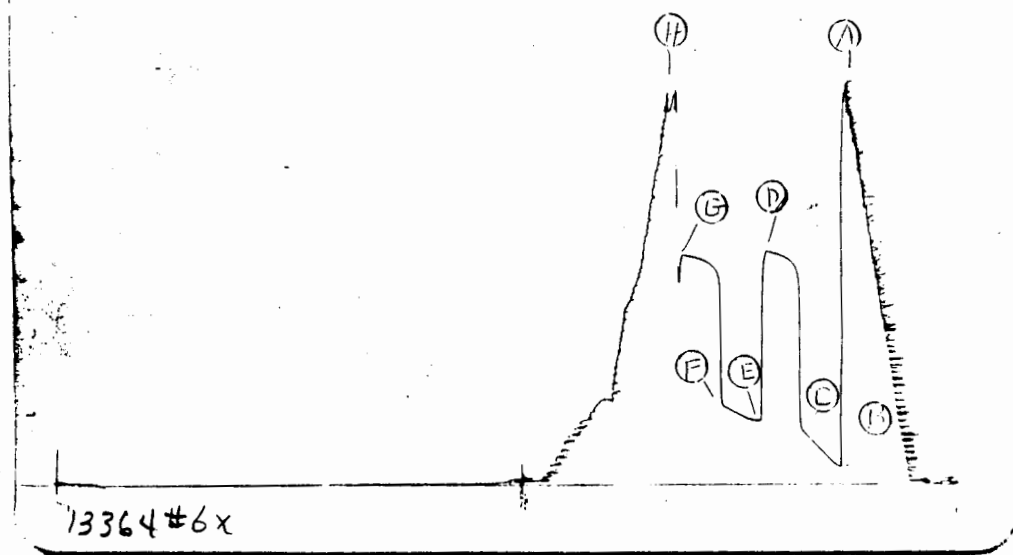
Blow Remarks Strong blow throughout test.

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Chlorides: 56,000 P.P.M.



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1940	PSI
(B) First Initial Flow Pressure	86	PSI
(C) First Final Flow Pressure	259	PSI
(D) Initial Closed-in Pressure	1162	PSI
(E) Second Initial Flow Pressure	317	PSI
(F) Second Final Flow Pressure	403	PSI
(G) Final Closed-in Pressure	1133	PSI
(H) Final Hydrostatic Mud	1930	PSI