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KCC WICHITA

15-101-21821

32-16s-30w

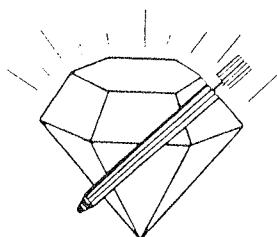
DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21076.D00

Page 1 of 2 Pages

Company Ritchie Exploration, Inc. Lease & Well No. Stewart 32 A No. 1
Elevation 2881 KB Formation Myrick Station/Fort Scott Effective Pay -- Ft. Ticket No. 1788
Date 10-27-03 Sec. 32 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly
Formation Test No. 1 Interval Tested from 4,426 ft. to 4,490 ft. Total Depth 4,490 ft.
Packer Depth 4,421 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,426 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,414 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,487 ft. Recorder Number 13386 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.6 Water Loss 10.4 cc. Drill Pipe Length 4,401 ft. I.D. 3 1/2 in.
Chlorides 3,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 33' perf. w/31' drill pipe Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.
Blow: 1st Open: Weak, 1/8 in., blow increasing to 11 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing. Off bottom of bucket in 38 1/2 mins. No blow back during shut-in.
Recovered 228 ft. of gas in pipe
Recovered 20 ft. of heavy oil cut mud = .205200 bbls. (Grind out: 38%-oil; 62%-mud)
Recovered 62 ft. of slightly watery & gas cut oily mud = .636120 bbls. (Grind out: 2%-water; 12%-gas; 36%-oil; 50%-mud)
Recovered 62 ft. of slightly watery & gas cut muddy oil = .636120 bbls. (Grind out: 4%-water; 14%-gas; 34%-mud; 48%-oil)
Recovered 144 ft. of TOTAL FLUID = 1.477440 bbls.
Remarks Tool Sample Grind Out: 10%-gas; 14%-water; 37%-mud; 39%-oil

Time Set Packer(s) 7:35:30 ^{XXM.} P.M. Time Started Off Bottom 10:35:30 ^{XXM.} P.M. Maximum Temperature 123°
Initial Hydrostatic Pressure (A) 2170 P.S.I.
Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period Minutes 45 (D) 1058 P.S.I.
Final Flow Period Minutes 45 (E) 44 P.S.I. to (F) 75 P.S.I.
Final Closed In Period Minutes 60 (G) 997 P.S.I.
Final Hydrostatic Pressure (H) 2169 P.S.I.



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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.
Lease & Well No. Stewart 32 A No. 1
Date 10-27-03 Sec. 32 Twp. 16 S Range 30 W
Formation Test No. 1 Interval Tested From 4,426 ft. to 4,490 ft. Total Depth 4,490 ft.
Formation Myrick Station/Fort Scott

	MUD PIT	RECOVERY	
Viscosity	<u>47</u> CP	<u>--</u> CP	
Weight	<u>9.6</u>	<u>--</u>	
Water Loss	<u>10.4</u> CC	<u>--</u> CC	
PH Factor	<u>10.0</u>	<u>--</u>	Water <u>6.4</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>.72</u> @ <u>61</u> °F	<u>10,500</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F	<u>--</u> ppm
Mud Pit Sample	<u>1.50</u> @ <u>70</u> °F	<u>4,200</u> ppm
Mud Pit Sample Filtrate	<u>1.60</u> @ <u>72</u> °F	<u>3,800</u> ppm

Sample Taken By ROGER D. FRIEDLY

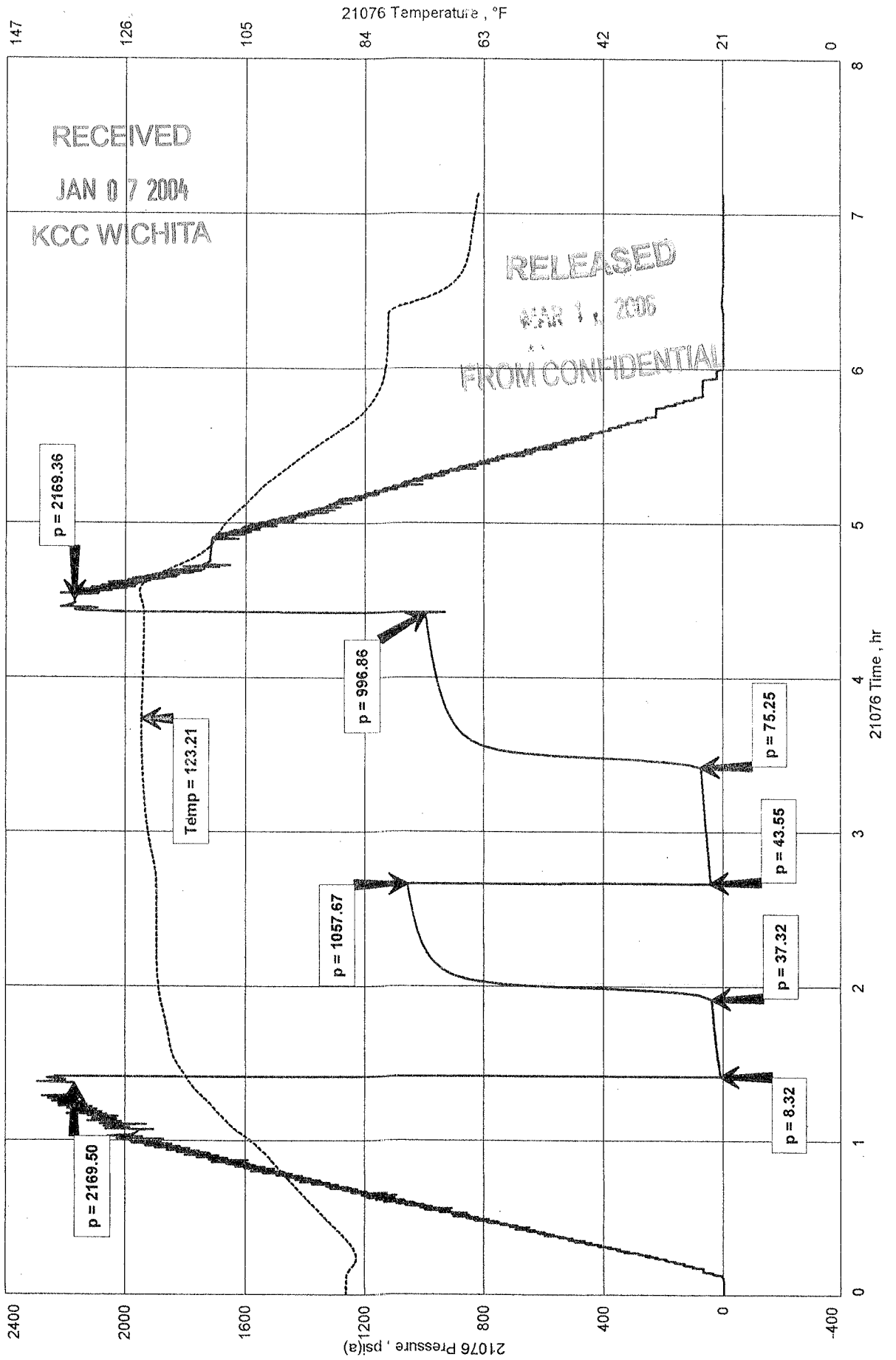
Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 3,000 Ppm.
Recovery water dish chlorides were 8,000 Ppm.

RITCHIE EXPLORATION, INC.
 SEC 32-18S-30W, LANE CO.
 Start Test Date: 2003/10/27
 Final Test Date: 2003/10/28

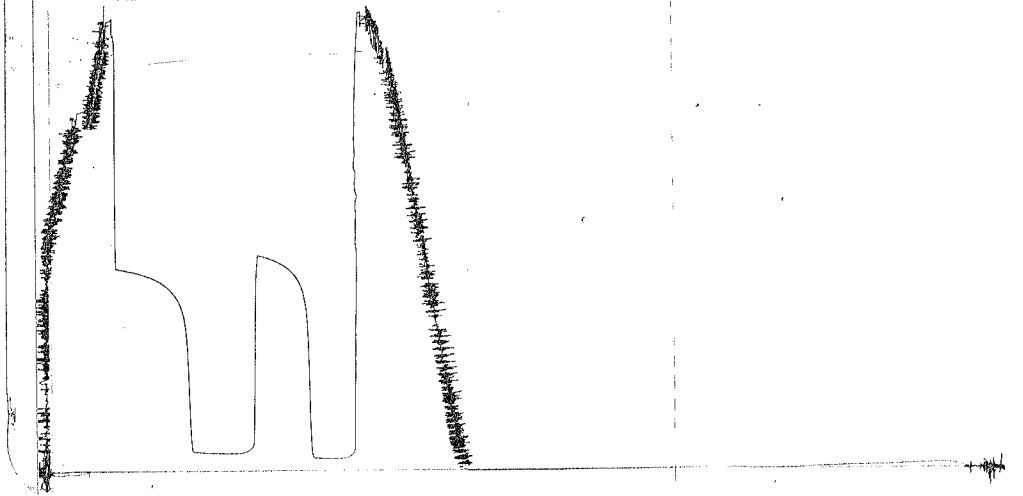
#1 STEWART 32 A
 Formation: MYRICK ST/ FT SCOTT 4426'-4490'

#1 STEWART 32 A



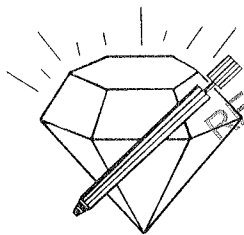
DST #1 Outside 13586
Myrick/FT Scott

4426-4490
LOC 4487



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec.
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2170	2170	PSI
(B) First Initial Flow Pressure.....	8	8	PSI
(C) First Final Flow Pressure	37	37	PSI
(D) Initial Closed-in Pressure	1058	1058	PSI
(E) Second Initial Flow Pressure.....	44	44	PSI
(F) Second Final Flow Pressure.....	75	75	PSI
(G) Final Closed-in Pressure.....	997	997	PSI
(H) Final Hydrostatic Mud.....	2169	2169	PSI



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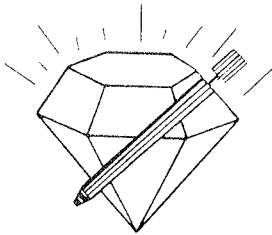
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Page 1 of 2 Pages

Company Ritchie Exploration, Inc. Lease & Well No. Stewart 324 No. 1
Elevation 2881 KB Formation Johnson Effective Pay -- Ft. Ticket No. 1789
Date 10-28-03 Sec. 32 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly
Formation Test No. 2 Interval Tested from 4,493 ft. to 4,558 ft. Total Depth 4,558 ft.
Packer Depth 4,488 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,493 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,481 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,555 ft. Recorder Number 13386 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.4 Water Loss 10.0 cc. Drill Pipe Length 4,468 ft. I.D. 3 1/2 in.
Chlorides 2,500 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 34' perf. w/31' drill pipe Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.
Blow: 1st Open: Weak, 1/8 in., blow increasing to a good, 8 in., blow. Weak, 1/4 in., blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing. Off bottom of bucket in 45 mins.
Recovered 196 ft. of gas in pipe
Recovered 52 ft. of gas cut oily mud = .533520 bbls. (Grind out: 6%-gas; 40%-oil; 54%-mud)
Recovered 62 ft. of gas cut oily mud = .636120 bbls. (Grind out: 20%-gas; 35%-oil; 45%-mud)
Recovered 114 ft. of TOTAL FLUID = 1.169640 bbls.
Recovered ft. of
Remarks Tool Sample Grind Out: 10%-gas; 41%-oil; 49%-mud

Time Set Packer(s) 12:51 P.M. Time Started Off Bottom 3:51 P.M. Maximum Temperature 117°
Initial Hydrostatic Pressure (A) 2193 P.S.I.
Initial Flow Period Minutes 30 (B) 7 P.S.I. to (C) 28 P.S.I.
Initial Closed In Period Minutes 45 (D) 1149 P.S.I.
Final Flow Period Minutes 45 (E) 32 P.S.I. to (F) 56 P.S.I.
Final Closed In Period Minutes 60 (G) 1106 P.S.I.
Final Hydrostatic Pressure (H) 2183 P.S.I.



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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.
Lease & Well No. Stewart 32 A No. 1
Date 10-28-03 Sec. 32 Twp. 16 S Range 30 W
Formation Test No. 2 Interval Tested From 4,493 ft. to 4,558 ft. Total Depth 4,558 ft.
Formation Johnson

	MUD PIT	RECOVERY
Viscosity	<u>46</u> CP	<u>--</u> CP
Weight	<u>9.4</u>	<u>--</u>
Water Loss	<u>10.0</u> CC	<u>--</u> CC
PH Factor	<u>10.0</u>	<u>--</u>

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	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample	<u>1.70</u> @ <u>64</u> °F. <u>4,000</u> ppm	
Mud Pit Sample Filtrate	<u>2.10</u> @ <u>66</u> °F. <u>3,000</u> ppm	

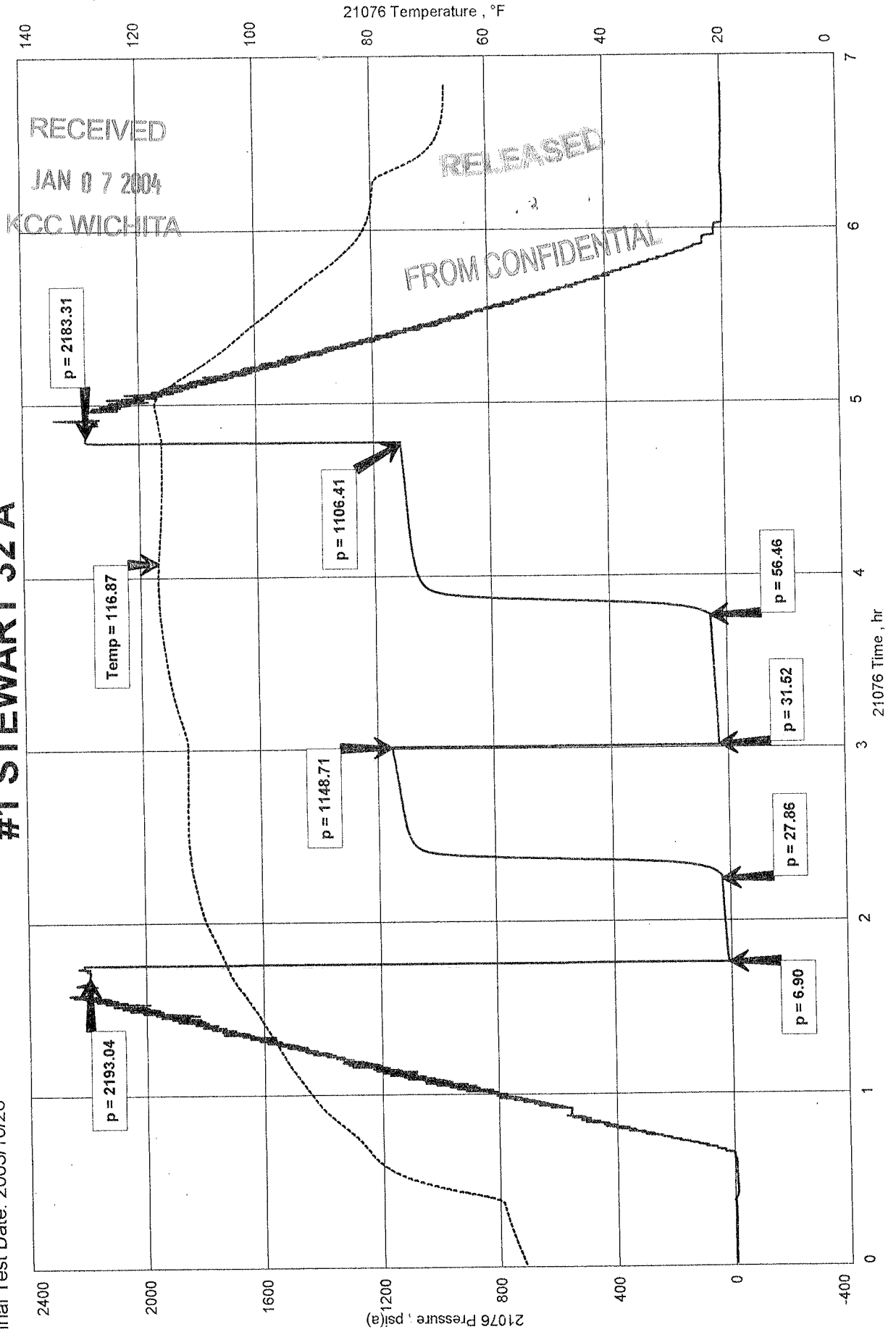
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Sample Taken By ROGER D. FRIEDLY
Witness By Kim B. Shoemaker
Remarks Pit filtrate triton dish chlorides were 2,500 Ppm.

#1 STEWART 32 A
Formation: DST #2 JOHNSON 4493'-4558'

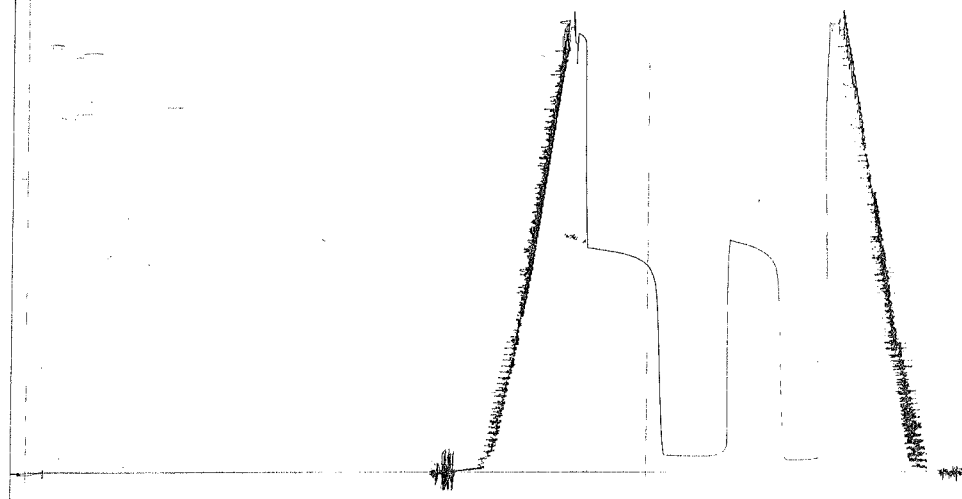
RITCHIE EXPLORATION, INC.
SEC 32-18S-30W, LANE CO.
Start Test Date: 2003/10/28
Final Test Date: 2003/10/28

#1 STEWART 32 A



DST # 2 outside 13386
JOHNSON

4493 - 4558
LOC 4555



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2193	2193
(B) First Initial Flow Pressure.....	7	7
(C) First Final Flow Pressure	28	28
(D) Initial Closed-in Pressure	1149	1149
(E) Second Initial Flow Pressure.....	32	32
(F) Second Final Flow Pressure.....	56	56
(G) Final Closed-in Pressure.....	1106	1106
(H) Final Hydrostatic Mud	2183	2183