15-101-21907

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.d224

Company Ritchie Exploration, Inc. Lease & Well No. Keavs No. 1

Elevation 2890 KB Formation Lansing/Kansas City "E" Effective Pay -- Ft. Ticket No. 2109

Date 3-9-06 Sec. 20 Twp. 17S Range 30W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,005 ft. to 4,027 ft. Total Depth 4,027 ft.

Packer Depth 4,000 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,005 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,991 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,024 ft. Recorder Number 13387 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 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 6.4 cc. Drill Pipe Length 3,978 ft. I.D. 3 1/4 in.

Chlorides 3,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 22 ft. 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, ½ in., blow increasing. Off bottom of bucket in 13½ mins. Weak, ½ in., blow back during shut-in.
2nd Open: Weak, surface blow increasing. Off bottom of bucket in 22 mins. Weak, surface blow back during shut-in.

Recovered 90 ft. of gas in pipe

Recovered 320 ft. of clean oil = 3.283200 bbls. (Gravity: 31 @ 60°)

Recovered 41 ft. of slightly watery & gas cut oily mud = .420660 bbls. (Grind out: 8%-water; 8%-gas; 28%-oil; 56%-mud)

Recovered 31 ft. of slightly oil cut muddy water = .318060 bbls. (Grind out: 5%-oil; 30%-mud; 65%-water)

Recovered 392 ft. of TOTAL FLUID = 4.021920 bbls.

Remarks Tool Sample Grind Out: 6%-mud; 14%-water; 80%-oil

Time Set Packer(s) 9:56 ~~A.M.~~ P.M. Time Started Off Bottom 12:56 ~~A.M.~~ P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure		(A)	1903 P.S.I.		
Initial Flow Period	Minutes 30	(B)	9 P.S.I.	to (C)	78 P.S.I.
Initial Closed In Period	Minutes 45	(D)	927 P.S.I.		
Final Flow Period	Minutes 45	(E)	82 P.S.I.	to (F)	157 P.S.I.
Final Closed In Period	Minutes 60	(G)	871 P.S.I.		
Final Hydrostatic Pressure		(H)	1903 P.S.I.		

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Keavs No. 1

Date 3-9-06 Sec. 20 Twp. 17 S Range 30 W

Formation Test No. 1 Interval Tested From 4,005 ft. to 4,027 ft. Total Depth 4,027 ft.

Formation Lansing/Kansas City "E"

	MUD PIT	RECOVERY	
Viscosity	50 CP	-- CP	
Weight	9.1	--	
Water Loss	6.4 CC	-- CC	
PH Factor	10.5	--	Water 7.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.29	@ 76	°F.	20,000 ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	1.80	@ 70	°F.	3,500 ppm
Mud Pit Sample Filtrate	1.50	@ 74	°F.	3,900 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By KIM B. SHOEMAKER

Remarks Pit filtrate triton dish chlorides were 3,000 Ppm. 10% oil in the system. Recovery water dish chlorides were 15,000 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: CRAIG CAULK

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: KEAVS #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #1 LKC "E" 4,005' - 4,027'

Location-Surface: SEC 20-17S-30W LANE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2006/03/09	Start Time:	19:13:00
End Date:	2006/03/10	End Time:	03:11:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

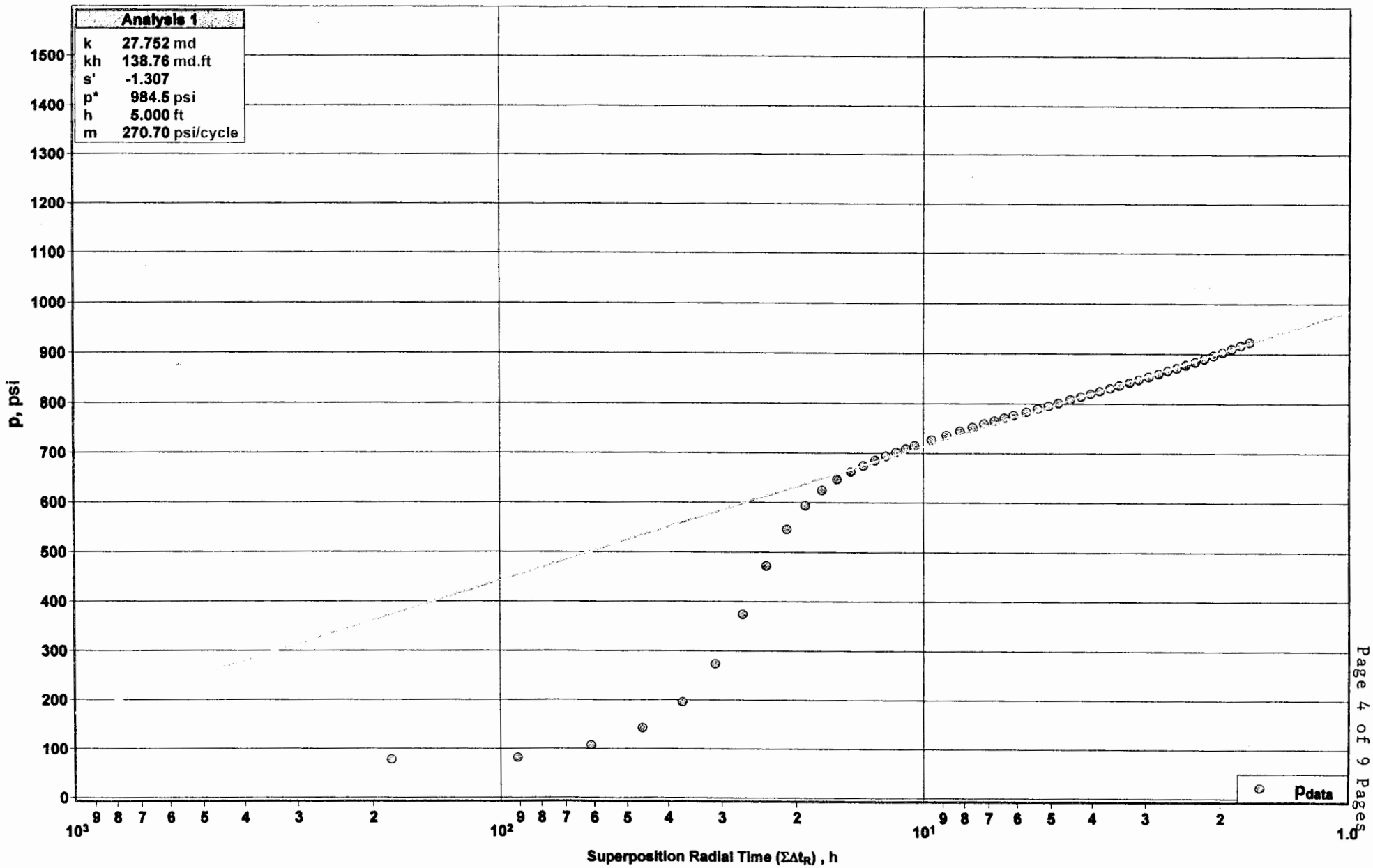
RECOVERED: 90' GAS IN PIPE
320' CLEAN OIL 31 GRAVITY @ 60 deg.
41' SLTWTR & GCOM 8% WTR, 8% GAS, 28% OIL, 56% MUD
31' SLT OCMW 5% OIL, 30% MUD, 65% WTR
392' TOTAL FLUID

TOOL SAMPLE: 6% MUD, 14% WTR, 80% OIL

RITCHIE EXPLORATION, INC.
KEAVS #1 DST #1
LKC "E" 4,005'-4,027'

DST #1 INITIAL SHUT-IN

HORNER PLOT



Oil Well Test - Buildup
Radial Flow Analysis

RITCHIE EXPLORATION, INC.

KEAVS #1 DST #1

LKC "E" 4,005' - 4,027'

Analysis Results

Total Sandface Rate (q_tB_t)	115.201 bbl/d	Apparent Skin (s')	-1.307
Semilog Slope (m)	270.70	Skin - Damage	-1.307
Gas Permeability (k_g)	md	Skin - Inclination	
Oil Permeability (k_o)	27.752 md	Skin - Partial Penetration	
Water Permeability (k_w)	md	Pressure Drop Due to Skin (Δp_s)	-307.35 psi
Flow Capacity (kh)	138.758 md.ft	Damage Ratio (DR)	0.862
Total Mobility (k/μ_t)	13.84 md/cp	Flow Efficiency (FE)	1.160
Total Transmissivity(kh/μ_t)	69.20 md.ft/cp		

Reservoir Parameters

Net Pay (h)	5.000 ft
Total Porosity (ϕ_t)	11.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.674e-6 psi^{-1}
Total Compressibility (c_t)	1.350e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	1998.40 psi
Extrapolated Pressure (p*)	984.52 psi
Final Flowing Pressure (p_{wfo})	77.97 psi

Production and Times

Corrected Flow Time (t_c)	0.5000 hr
Cumulative Oil Production	2.011 bbl
Final Oil Rate	96.000 bbl/d

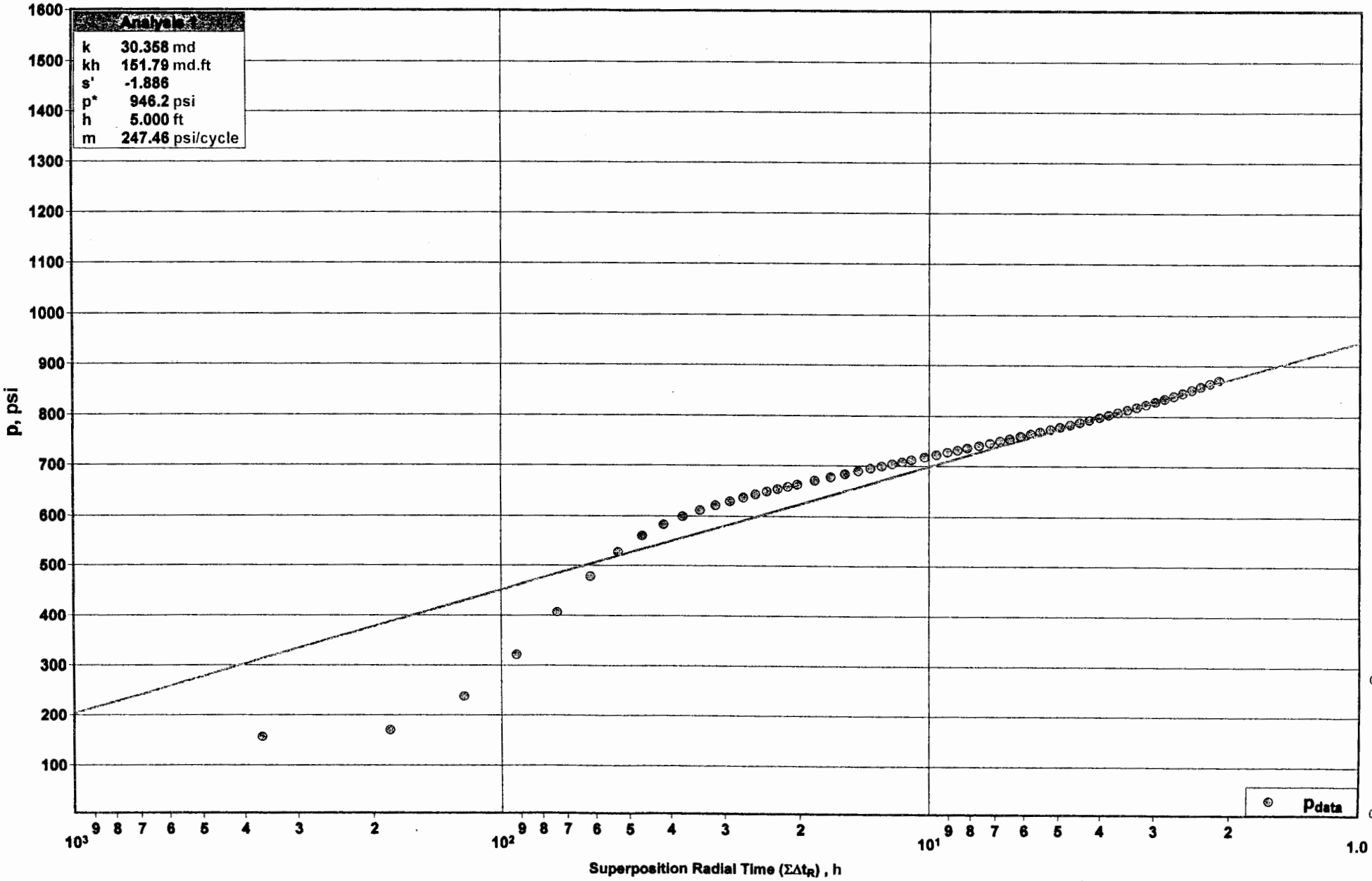
Fluid Properties

Oil Compressibility (c_o)	1.02917e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.200
Oil Viscosity (μ_o)	2.005 cp
Solution Gas Ratio (R_s)	363 scf/bbl
Oil Gravity (γ_o)	30.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	1998.40 psi

RITCHIE EXPLORATION, INC.
KEAVS #1 DST #1
LKC "E" 4,005' - 4,027'

DST #1 FINAL SHUT -IN

HORNER PLOT



Oil Well Test - Buildup
Radial Flow Analysis

RITCHIE EXPLORATION, INC.

LKC "E" 4,005' - 4,027'

KEAVS #1 DST #1

Analysis Results

Total Sandface Rate ($q_t B_t$)	115.201 bbl/d	Apparent Skin (s')	-1.886
Semilog Slope (m)	247.46	Skin - Damage	-1.886
Gas Permeability (k_g)	md	Skin - Inclination	
Oil Permeability (k_o)	30.358 md	Skin - Partial Penetration	
Water Permeability (k_w)	md	Pressure Drop Due to Skin (Δp_s)	-405.61 psi
Flow Capacity (kh)	151.791 md.ft -	Damage Ratio (DR)	0.819
Total Mobility (k/μ_t)	15.14 md/cp	Flow Efficiency (FE)	1.220
Total Transmissivity(kh/μ_t)	75.70 md.ft/cp		

Reservoir Parameters

Net Pay (h)	5.000 ft
Total Porosity (ϕ_t)	11.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.674e-6 psi^{-1}
Total Compressibility (c_t)	1.350e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	1998.40 psi
Extrapolated Pressure (p*)	946.22 psi
Final Flowing Pressure (p_{wfo})	156.95 psi

Production and Times

Corrected Flow Time (t_c)	1.2583 hr
Cumulative Oil Production	5.044 bbl
Final Oil Rate	96.000 bbl/d

Fluid Properties

Oil Compressibility (c_o)	1.02917e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.200
Oil Viscosity (μ_o)	2.005 cp
Solution Gas Ratio (R_s)	363 scf/bbl
Oil Gravity (y_o)	30.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	1998.40 psi

RITCHIE EXPLORATION, INC.

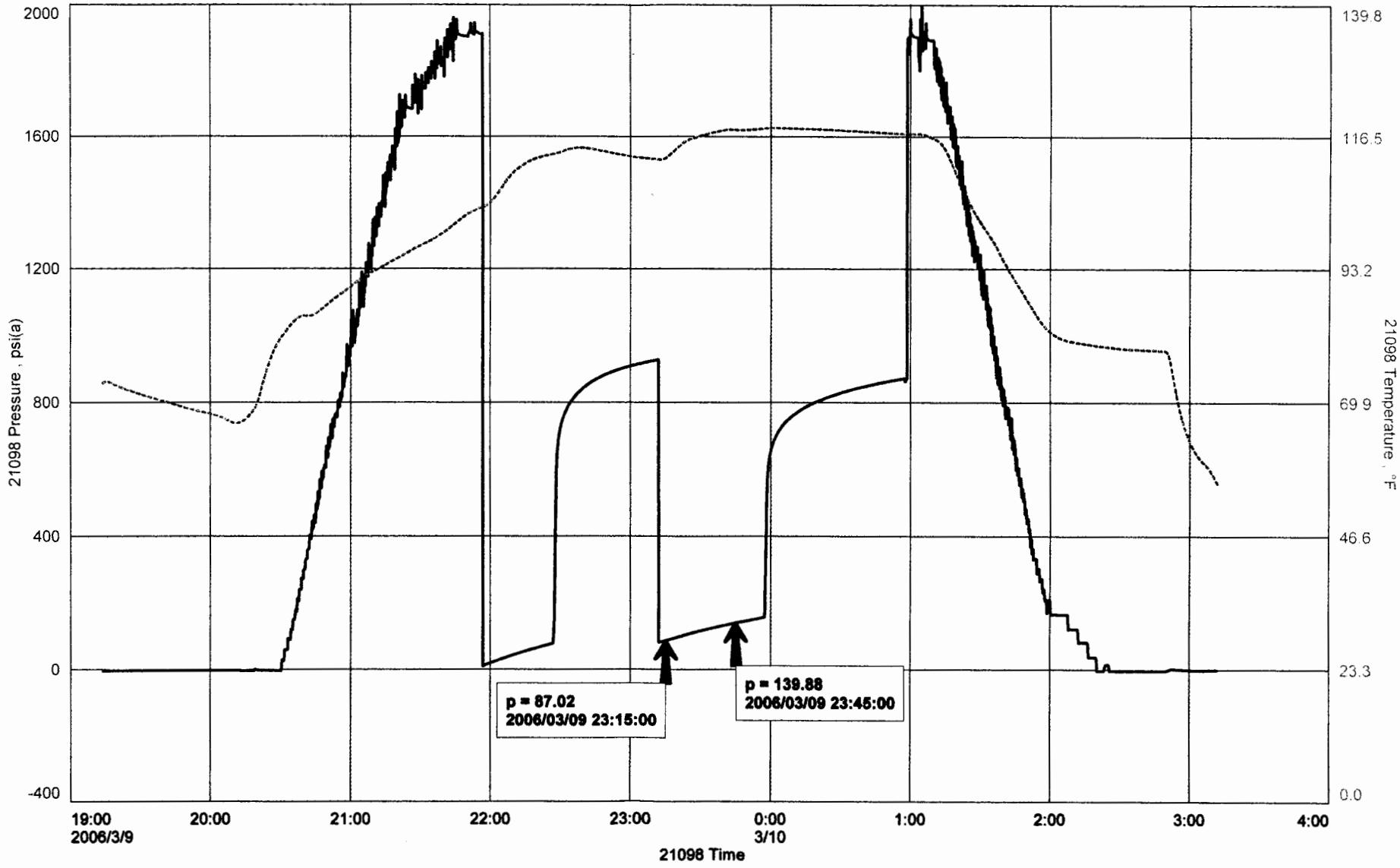
DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE-ID	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PROD.	AVERAGE % OIL	ESTIMATED PRODUCTION
FINAL FLOW	140	87	53	0.0142	0.3771	30	1440	96	1	96

KEAVS #1 DST #1 LKC "E" 4,005' - 4,027'

RITCHIE EXPLORATION, INC.
DST #1 LKC "E" 4,005' - 4,027'
Start Test Date: 2006/03/09
Final Test Date: 2006/03/10

KEAVS #1
Formation: DST #1 LKC "E" 4,005' - 4,027'
Pool: WILDCAT

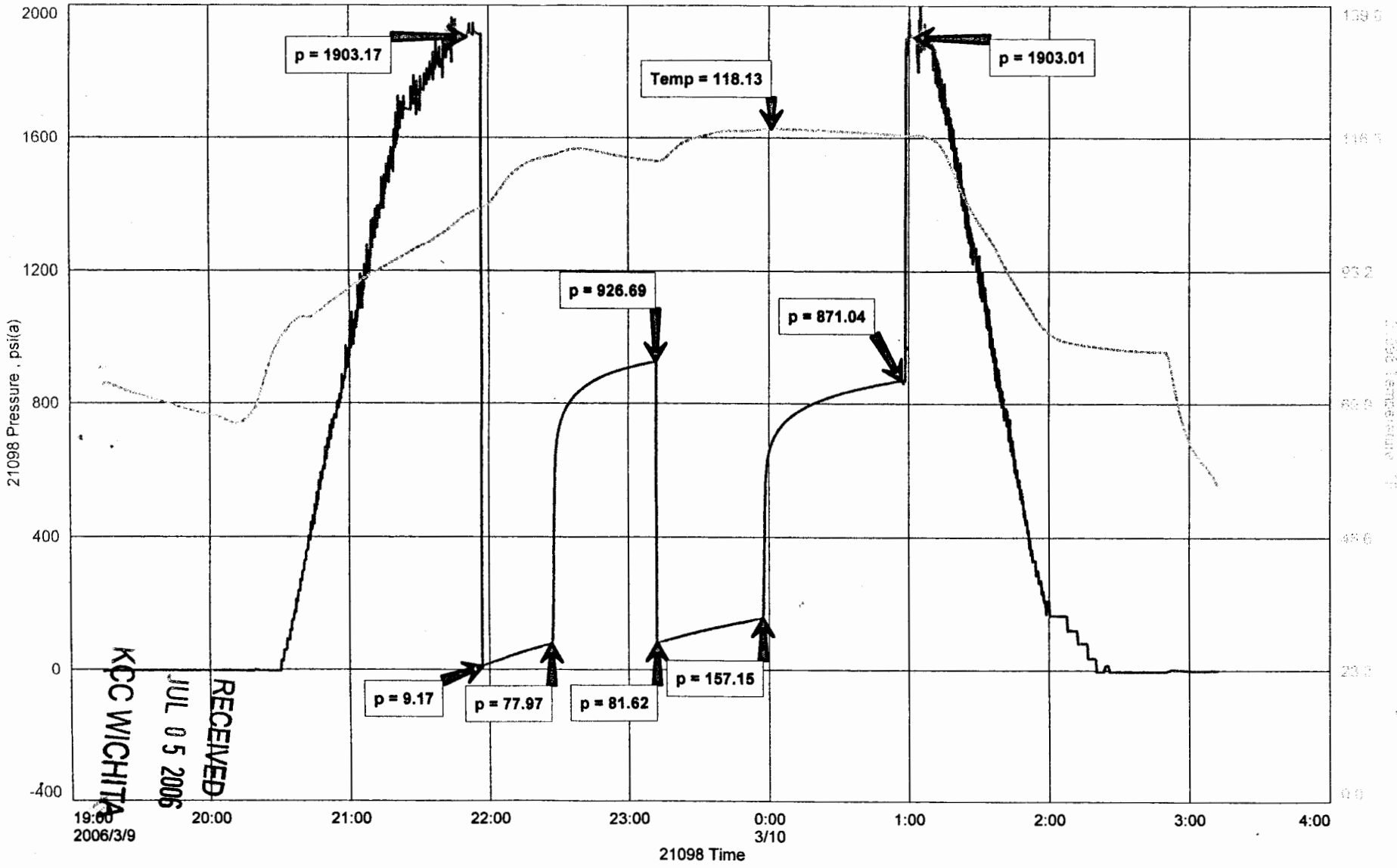
KEAVS #1 DST #1 EST PROD. CHART

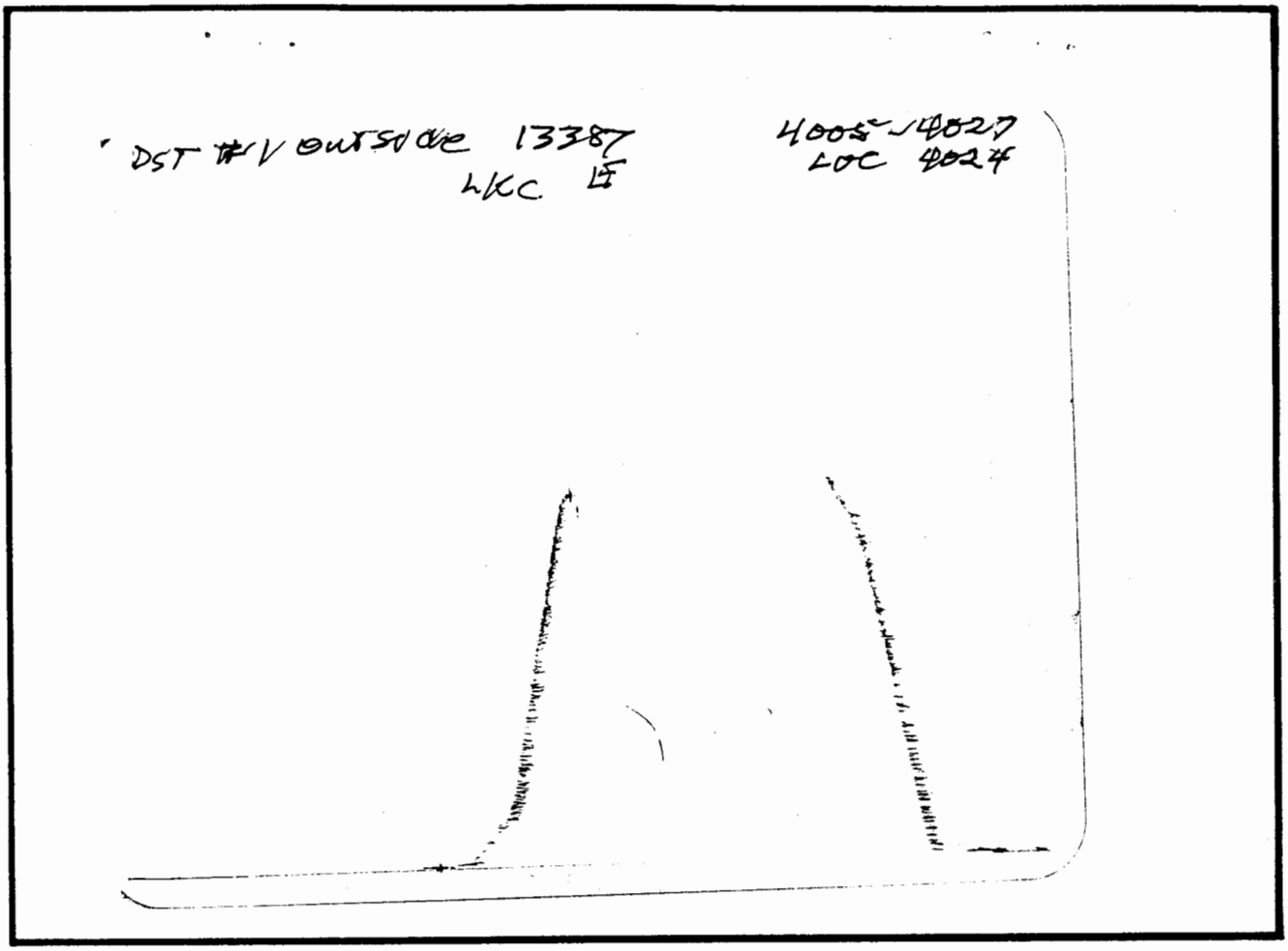


RITCHIE EXPLORATION, INC.
DST #1 LKC "E" 4,005' - 4,027'
Start Test Date: 2006/03/09
Final Test Date: 2006/03/10

KEAVS #1
Formation: DST #1 LKC "E" 4,005' - 4,027'
Pool: WILDCAT

KEAVS #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1903	1903	PSI
(B)	First Initial Flow Pressure	9	9	PSI
(C)	First Final Flow Pressure	78	78	PSI
(D)	Initial Closed-in Pressure	927	927	PSI
(E)	Second Initial Flow Pressure	82	82	PSI
(F)	Second Final Flow Pressure	157	157	PSI
(G)	Final Closed-in Pressure	871	871	PSI
(H)	Final Hydrostatic Mud	1903	1903	PSI

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.d225

Company Ritchie Exploration, Inc. Lease & Well No. Keavs No. 1

Elevation 2890 KB Formation Marmaton/Altamont Effective Pay -- Ft. Ticket No. 2110

Date 3-11-06 Sec. 20 Twp. 17S Range 30W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,308 ft. to 4,370 ft. Total Depth 4,370 ft.

Packer Depth 4,303 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,308 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,294 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,367 ft. Recorder Number 13387 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 55 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 6.0 cc. Drill Pipe Length 4,281 ft. I.D. 3½ in.

Chlorides 2,700 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 31' 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 4½ ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 6½ ins. No blow back during shut-in.

Recovered 598 ft. of system drilling mud = 6.135480 bbls. (Grind out: 8%-oil; 92%-mud from tool sliding)

Recovered 124 ft. of slightly oil cut watery mud = 1.272240 bbls. (Grind out: 1%-oil; 31%-water; 68%-mud)

Recovered 722 ft. of TOTAL FLUID = 7.407720 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-oil; 6%-water; 92%-mud

* Tool slid 10 ft. Opened while head joint added. Lost mud.

Time Set Packer(s) 12:07 ~~A.M.~~ P.M. Time Started Off Bottom 3:07 ~~A.M.~~ P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 2063 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 371 P.S.I. to (C) 395 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 981 P.S.I.

Final Flow Period ..... Minutes 45 (E) 394 P.S.I. to (F) 426 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 978 P.S.I.

Final Hydrostatic Pressure ..... (H) 2061 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Keavs No. 1

Date 3-11-06 Sec. 20 Twp. 17 S Range 30 W

Formation Test No. 2 Interval Tested From 4,308 ft. to 4,370 ft. Total Depth 4,370 ft.

Formation Marmaton/Altamont

	MUD PIT	RECOVERY	
Viscosity	55 CP	56 CP	
Weight	9.2	9.1	
Water Loss	6.0 CC	7.6 CC	
PH Factor	10.5	10.5	Water 8.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.46	@ 62	°F.	16,000 ppm
Recovery Mud	1.50	@ 64	°F.	4,600 ppm
Recovery Mud Filtrate	1.40	@ 62	°F.	5,000 ppm
Mud Pit Sample	1.60	@ 70	°F.	3,900 ppm
Mud Pit Sample Filtrate	1.90	@ 76	°F.	3,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By KIM B. SHOEMAKER

Remarks Pit filtrate triton dish chlorides were 2,700 Ppm.
Recovery filtrate triton dish chlorides were 3,000 Ppm.
Recovery water dish chlorides were 13,000 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: CRAIG CAULK

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: KEAVS #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #2 MARM/ALTAM 4,308' - 4,370'

Location-Surface: SEC 20-17S-30W LANE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2006/03/11	Start Time:	07:55:00
End Date:	2006/03/11	End Time:	17:26:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

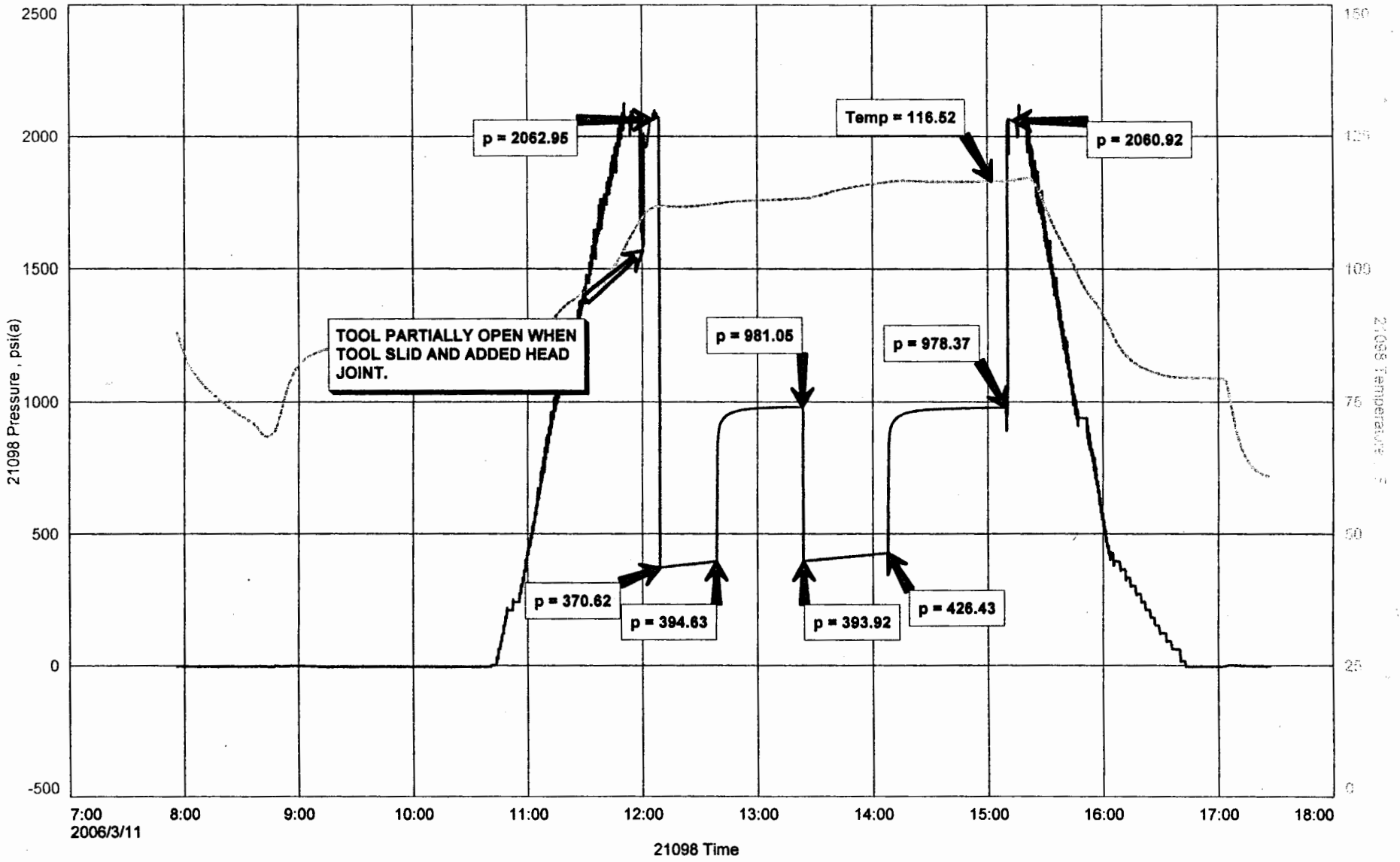
RECOVERED: 598' SYSTEM DRILLING MUD 8% OIL 92% MUD - FROM TOOL SLIDDING
124' SLT OCWM 1% OIL, 31%$ WTR, 68% MUD
722' TOTAL FLUID

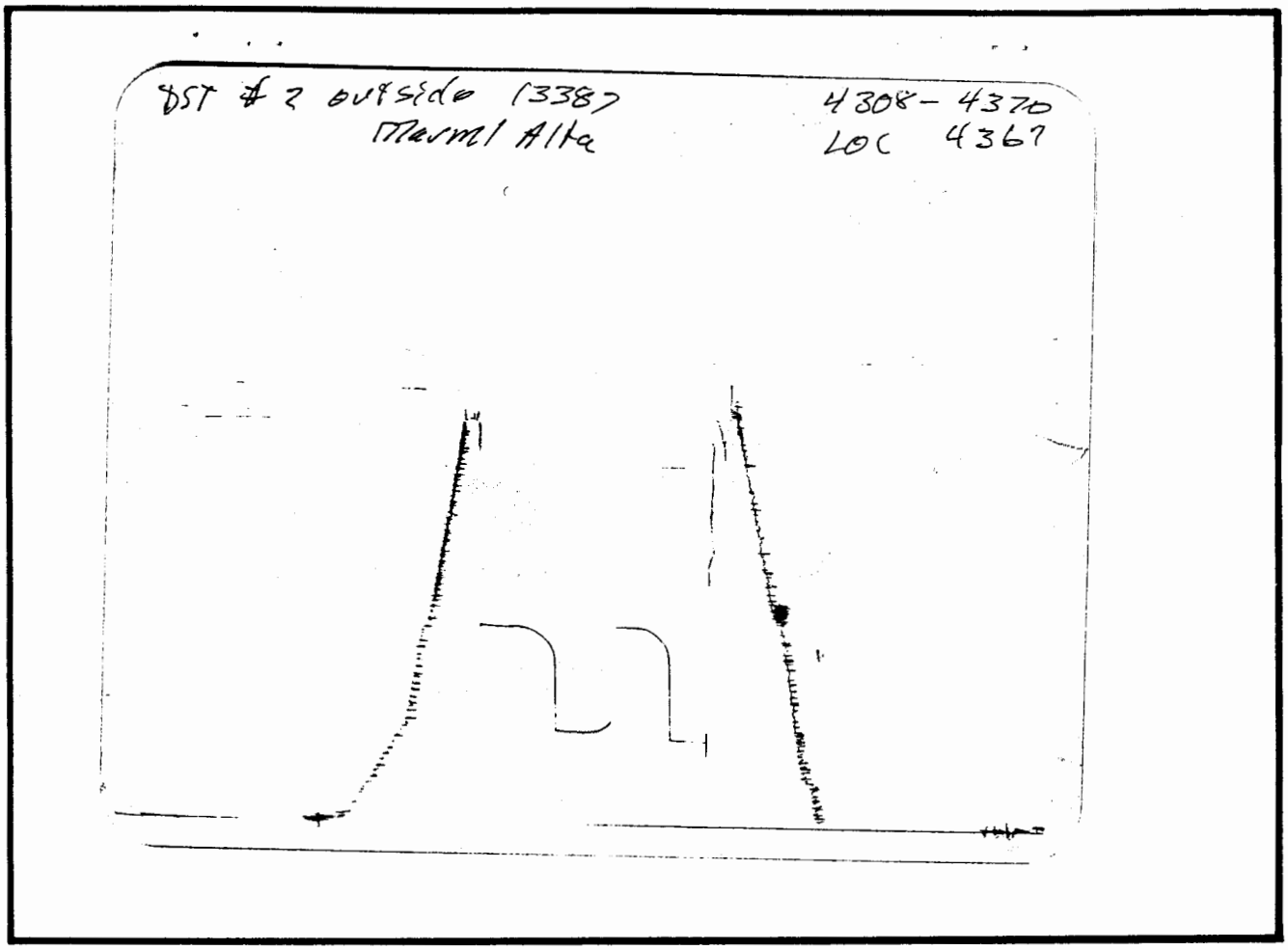
TOOL SAMPLE 2% OIL, 6% WTR, 92% MUD

RITCHIE EXPLORATION, INC.
DST #2 MARM/ALTAM 4,308' - 4,370'
Start Test Date: 2006/03/11
Final Test Date: 2006/03/11

KEAVS #1
Formation: DST #2 MARM/ALTAM 4,308' - 4,307'
Pool: WILDCAT

KEAVS #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2063	2063	PSI
(B)	First Initial Flow Pressure	371	371	PSI
(C)	First Final Flow Pressure	395	395	PSI
(D)	Initial Closed-in Pressure	981	981	PSI
(E)	Second Initial Flow Pressure	394	394	PSI
(F)	Second Final Flow Pressure	426	426	PSI
(G)	Final Closed-in Pressure	978	978	PSI
(H)	Final Hydrostatic Mud	2061	2061	PSI

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.d226

Company Ritchie Exploration, Inc. Lease & Well No. Keavs No. 1

Elevation 2890 KB Formation Myrick Station/Fort Scott Effective Pay -- Ft. Ticket No. 2111

Date 3-12-06 Sec. 20 Twp. 17S Range 30W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 4,431 ft. to 4,485 ft. Total Depth 4,485 ft.

Packer Depth 4,426 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,431 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,417 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,482 ft. Recorder Number 13387 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 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 4,404 ft. I.D. 3½ in.

Chlorides 5,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 23' 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 3 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 2 ins. No blow back during shut-in.

Recovered 55 ft. of slightly oil cut drilling mud = .564300 bbls. (Grind out: 10%-oil; 90%-mud) System mud 8% oil cut

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 12%-oil; 88%-mud

Time Set Packer(s) 1:09 ~~A~~P.M. Time Started Off Bottom 3:09 ~~A~~P.M. Maximum Temperature 116°

Initial Hydrostatic Pressure ..... (A) 2141 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 5 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1049 P.S.I.

Final Flow Period ..... Minutes 30 (E) 18 P.S.I. to (F) 32 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 1004 P.S.I.

Final Hydrostatic Pressure ..... (H) 2142 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Keavs No. 1

Date 3-12-06 Sec. 20 Twp. 17 S Range 30 W

Formation Test No. 3 Interval Tested From 4,431 ft. to 4,485 ft. Total Depth 4,485 ft.

Formation Myrick Station/Fort Scott

	MUD PIT	RECOVERY
Viscosity	50 CP	48 CP
Weight	9.3	9.4
Water Loss	7.2 CC	6.8 CC
PH Factor	10.0	9.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	1.00	@ 68	°F.	6,400 ppm
Recovery Mud Filtrate	1.10	@ 72	°F.	5,800 ppm
Mud Pit Sample	.94	@ 70	°F.	6,800 ppm
Mud Pit Sample Filtrate	1.00	@ 74	°F.	6,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By KIM B. SHOEMAKER

Remarks Pit filtrate triton dish chlorides were 5,000 Ppm.
Recovery filtrate triton dish chlorides were 5,300 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: CRAIG CAULK

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: KEAVS #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #3 MYRICK ST. / FT. SCOTT 4,431' - 4,485'

Location-Surface: SEC 20-17S-30W LANE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2006/03/12	Start Time:	10:59:00
End Date:	2006/03/12	End Time:	16:58:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

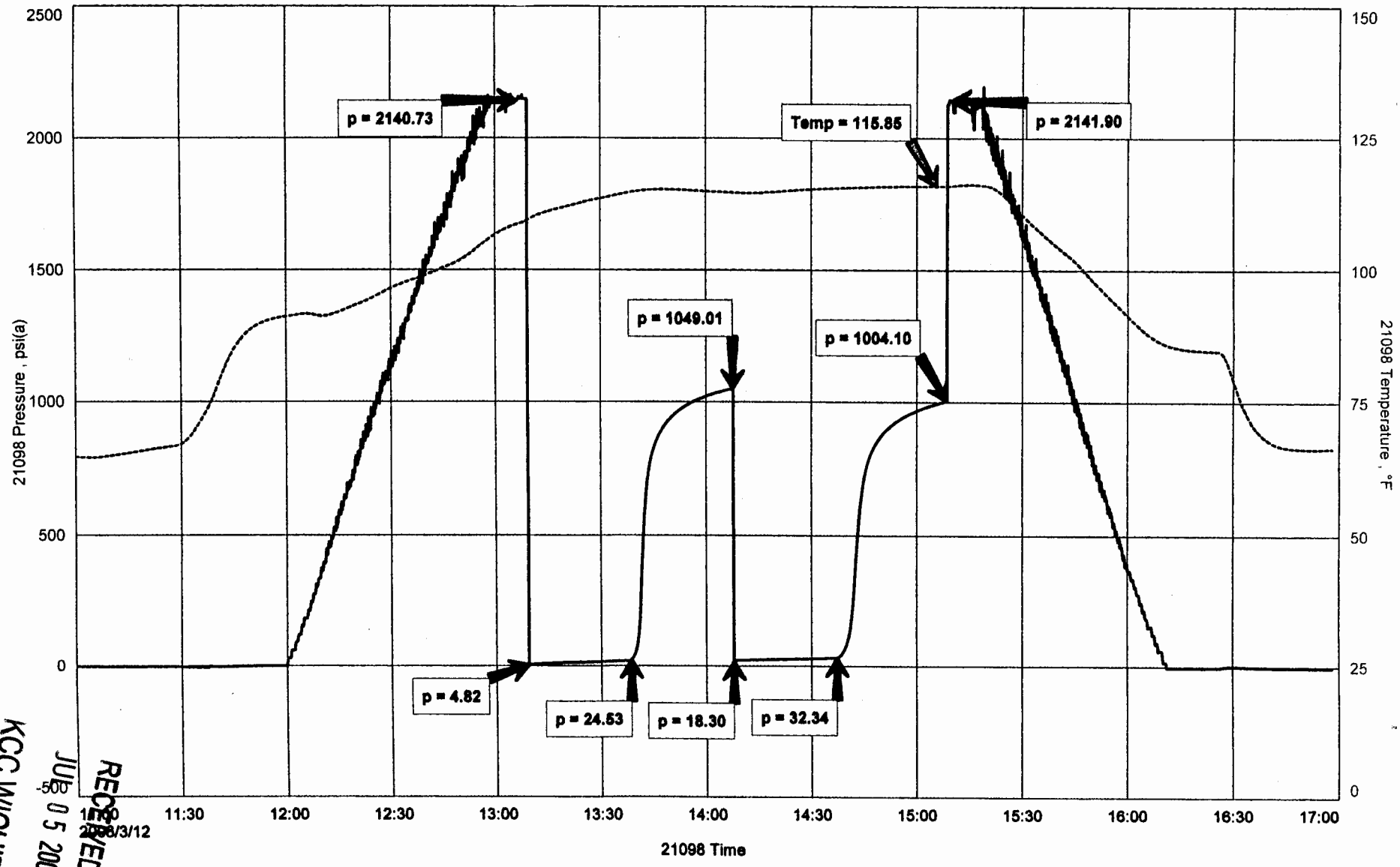
RECOVERED: 55' SLT OCDM 10% OIL, 90% MUD. SYSTEM MUD 8% OIL CUT

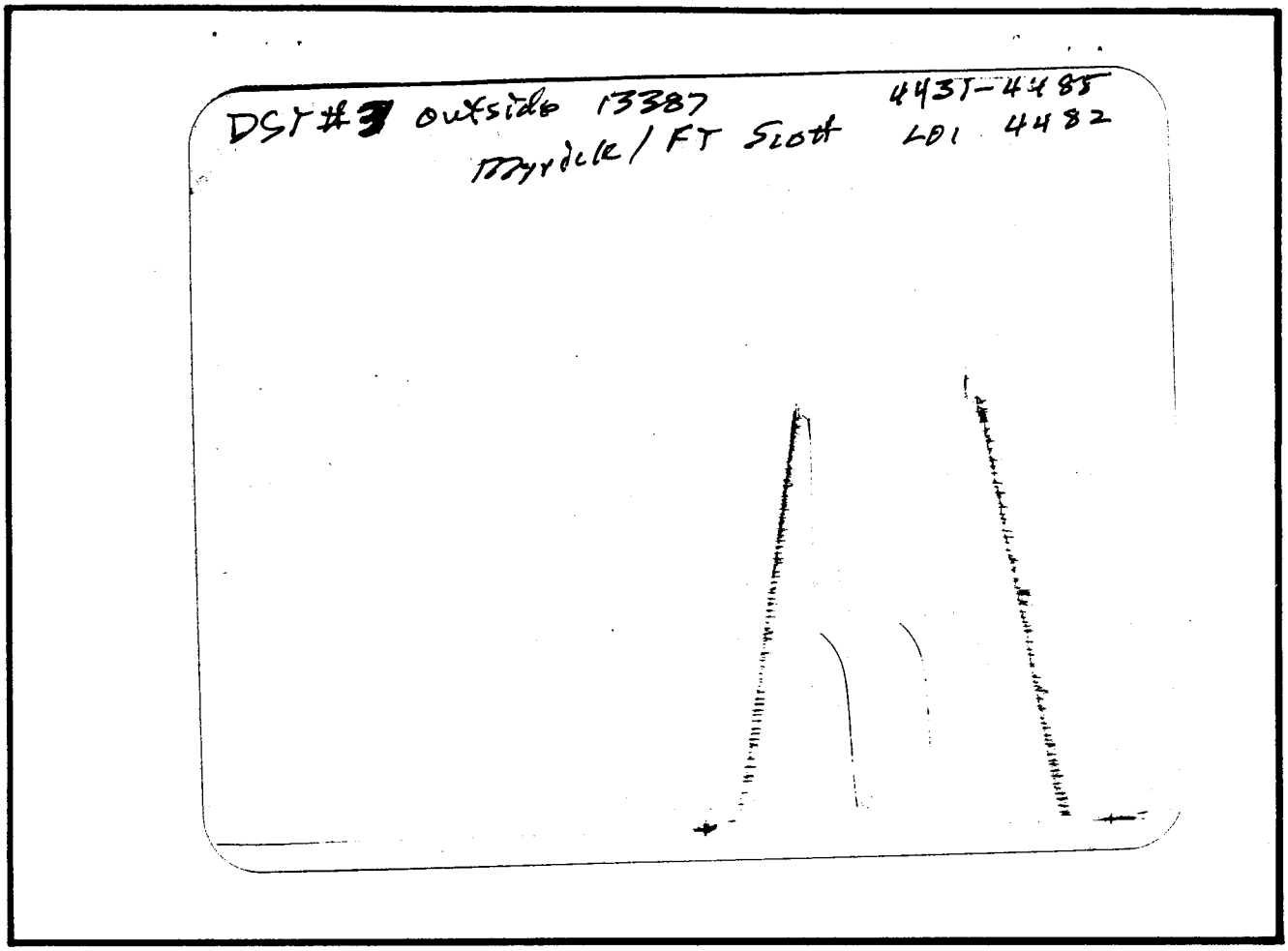
TOOL SAMPLE: 12% OIL, 88% MUD.

RITCHIE EXPLORATION, INC.
DST #3 MYRICK ST. / FT. SCOTT 4,431' - 4,485'
Start Test Date: 2006/03/12
Final Test Date: 2006/03/12

KEAVS #1
Formation: DST #3 MYRICK ST. / FT. SCOTT 4,431' - 4,485'
Pool: WILDCAT

KEAVS #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2141	2141	PSI
(B)	First Initial Flow Pressure	5	5	PSI
(C)	First Final Flow Pressure	25	25	PSI
(D)	Initial Closed-in Pressure	1049	1049	PSI
(E)	Second Initial Flow Pressure	18	18	PSI
(F)	Second Final Flow Pressure	32	32	PSI
(G)	Final Closed-in Pressure	1004	1004	PSI
(H)	Final Hydrostatic Mud	2142	2142	PSI

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.d227

Company Ritchie Exploration, Inc. Lease & Well No. Keavs No. 1

Elevation 2890 KB Formation Cherokee/Johnson Effective Pay -- Ft. Ticket No. 2112

Date 3-13-06 Sec. 20 Twp. 17S Range 30W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 4,483 ft. to 4,545 ft. Total Depth 4,545 ft.

Packer Depth 4,478 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,483 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,469 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,542 ft. Recorder Number 13387 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 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 4,456 ft. I.D. 3½ in.

Chlorides 4,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 31' 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, ½ in., blow increasing to 1½ ins. No blow back during shut-in.
2nd Open: Weak, surface blow throughout. No blow back during shut-in.

Recovered 30 ft. of slightly oil cut drilling mud = .307800 bbls. (Grind out: 5%-oil; 95%-mud) System mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 6%-oil; 94%-mud

Time Set Packer(s) 7:53 ~~P.M.~~ A.M. Time Started Off Bottom 10:53 ~~P.M.~~ A.M. Maximum Temperature 116°

Initial Hydrostatic Pressure ..... (A) 2155 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 3 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1096 P.S.I.

Final Flow Period ..... Minutes 45 (E) 13 P.S.I. to (F) 20 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1069 P.S.I.

Final Hydrostatic Pressure ..... (H) 2154 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Keavs No. 1

Date 3-13-06 Sec. 20 Twp. 17 S Range 30 W

Formation Test No. 4 Interval Tested From 4,483 ft. to 4,545 ft. Total Depth 4,545 ft.

Formation Cherokee/Johnson

	MUD PIT	RECOVERY
Viscosity	50 CP	47 CP
Weight	9.3	9.3
Water Loss	7.2 CC	7.2 CC
PH Factor	10.5	10.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	1.10	@ 70	°F.	5,800 ppm
Recovery Mud Filtrate	1.15	@ 76	°F.	5,000 ppm
Mud Pit Sample	1.20	@ 60	°F.	6,000 ppm
Mud Pit Sample Filtrate	1.30	@ 62	°F.	5,200 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By KIM B. SHOEMAKER

Remarks Pit filtrate triton dish chlorides were 4,000 Ppm.
Recovery filtrate triton dish chlorides were 4,200 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: CRAIG CAULK

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: KEAVS #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #4 CHEROKEE / JOHNSON 4,483' - 4,545'

Location-Surface: SEC 20-17S-30W LANE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2006/03/13	Start Time:	04:55:00
End Date:	2006/03/13	End Time:	12:42:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

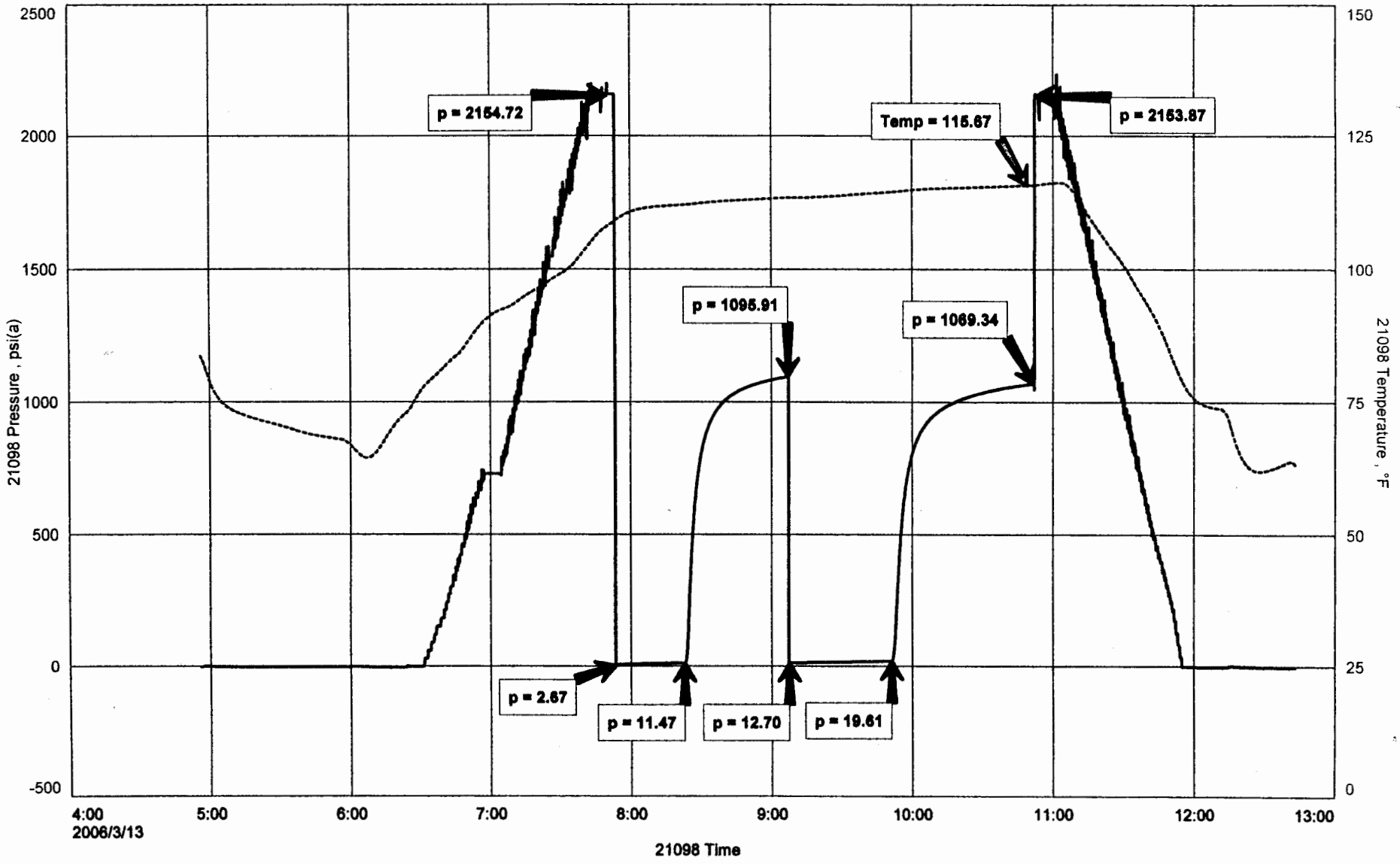
RECOVERED: 30' SLT OCM 5% OIL, 95% MUD

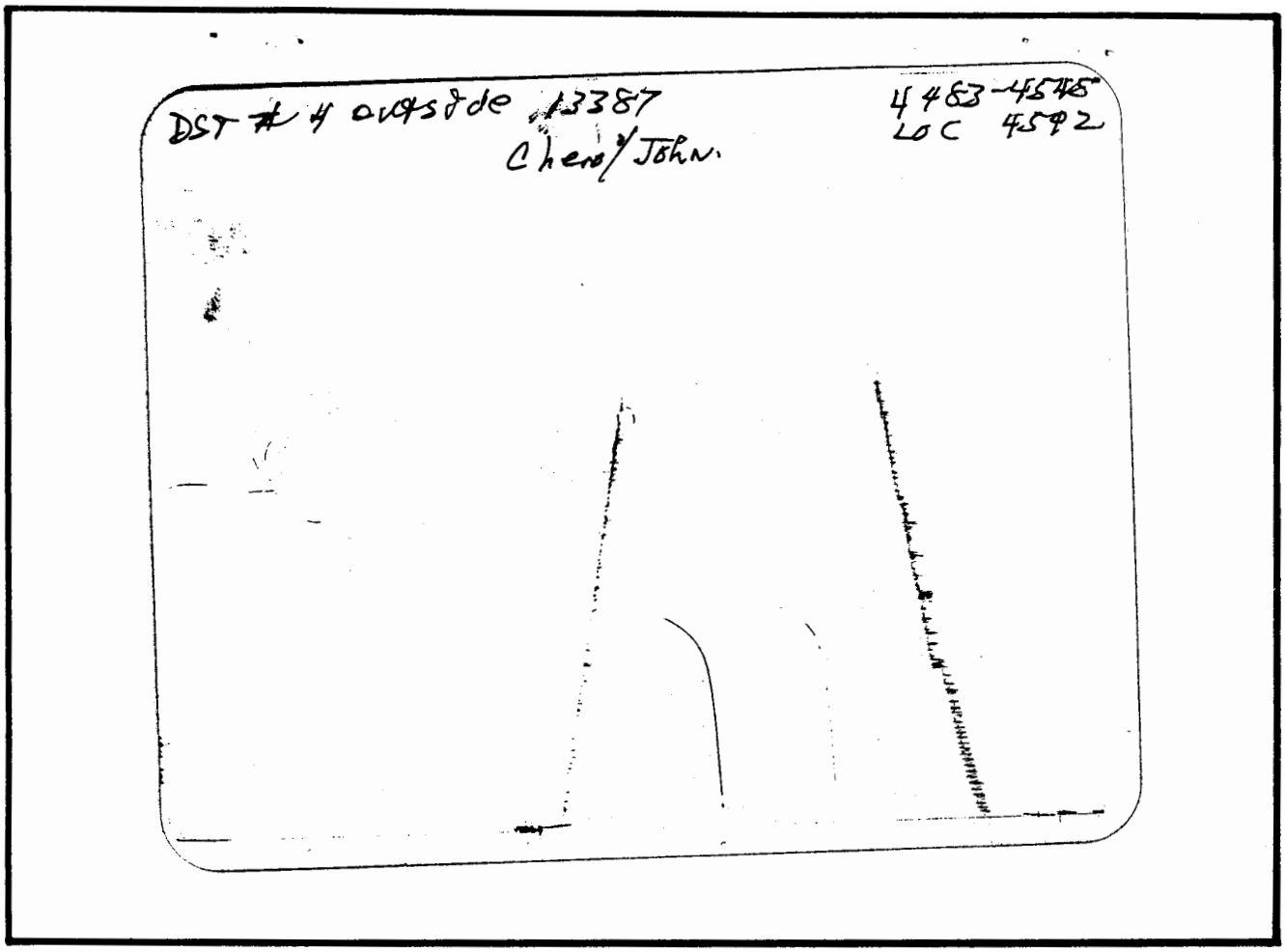
TOOL SAMPLE: 6% OIL, 94% MUD

RITCHIE EXPLORATION, INC.
DST #4 CHEROKEE / JOHNSON 4,483' - 4,545'
Start Test Date: 2006/03/13
Final Test Date: 2006/03/13

KEAVS #1
Formation: DST #4 CHEROKEE / JOHNSON 4,483' - 4,545'
Pool: WILDCAT

KEAVS #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2155	2155	PSI
(B)	First Initial Flow Pressure	3	3	PSI
(C)	First Final Flow Pressure	11	11	PSI
(D)	Initial Closed-in Pressure	1096	1096	PSI
(E)	Second Initial Flow Pressure	13	13	PSI
(F)	Second Final Flow Pressure	20	20	PSI
(G)	Final Closed-in Pressure	1069	1069	PSI
(H)	Final Hydrostatic Mud	2154	2154	PSI