15-051-25898

14-12s-19w

DIAMOND TESTING

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Topeka Effective Pay -- Ft. Ticket No. 2591

Date 9-19-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,430 ft. to 3,470 ft. Total Depth 3,470 ft.

Packer Depth 3,425 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,430 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,411 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,467 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 9.0 cc. Drill Pipe Length 3,366 ft. I.D. 3 1/2 in.

Chlorides 4,200 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 40 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 23 mins. Weak surface blow back during shut-in.
2nd Open: Weak, ¼ in., blow increasing. Off bottom of bucket in 28½ mins. Fair, 1 in., blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 63 ft. of gas & mud cut watery oil = .896490 bbls. (Grind out: 10%-gas; 15%-mud; 15%-water; 60%-heavy oil)

Recovered 63 ft. of oil cut watery mud = .896490 bbls. (Grind out: 2%-oil; 43%-water; 55%-mud)

Recovered 126 ft. of muddy water with a scum of oil = 1.504370 bbls. (Grind out: 12%-mud; 88%-water)

Recovered 252 ft. of TOTAL FLUID = 3.297350 bbls. Chlorides: 55,500 Ppm

Remarks Tool Sample Grind Out: 4%-gas; 14%-oil; 25%-mud; 57%-water

Time Set Packer(s) 1:54 A.M. P.M. Time Started Off Bottom 5:39 A.M. P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure ..... (A) 1633 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 17 P.S.I. to (C) 64 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1075 P.S.I.

Final Flow Period ..... Minutes 45 (E) 68 P.S.I. to (F) 116 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1069 P.S.I.

Final Hydrostatic Pressure ..... (H) 1632 P.S.I.

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #1 TOPEKA 3,430' - 3,470'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/19
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 TOPEKA 3,430' - 3,470		
Well Fluid Type		Start Test Time	23:32:00
		Final Test Time	08:13:00
Start Test Date	2009/09/18		
Final Test Date	2009/09/19		
Gauge Name	1150		
Gauge Serial Number			

Test Results

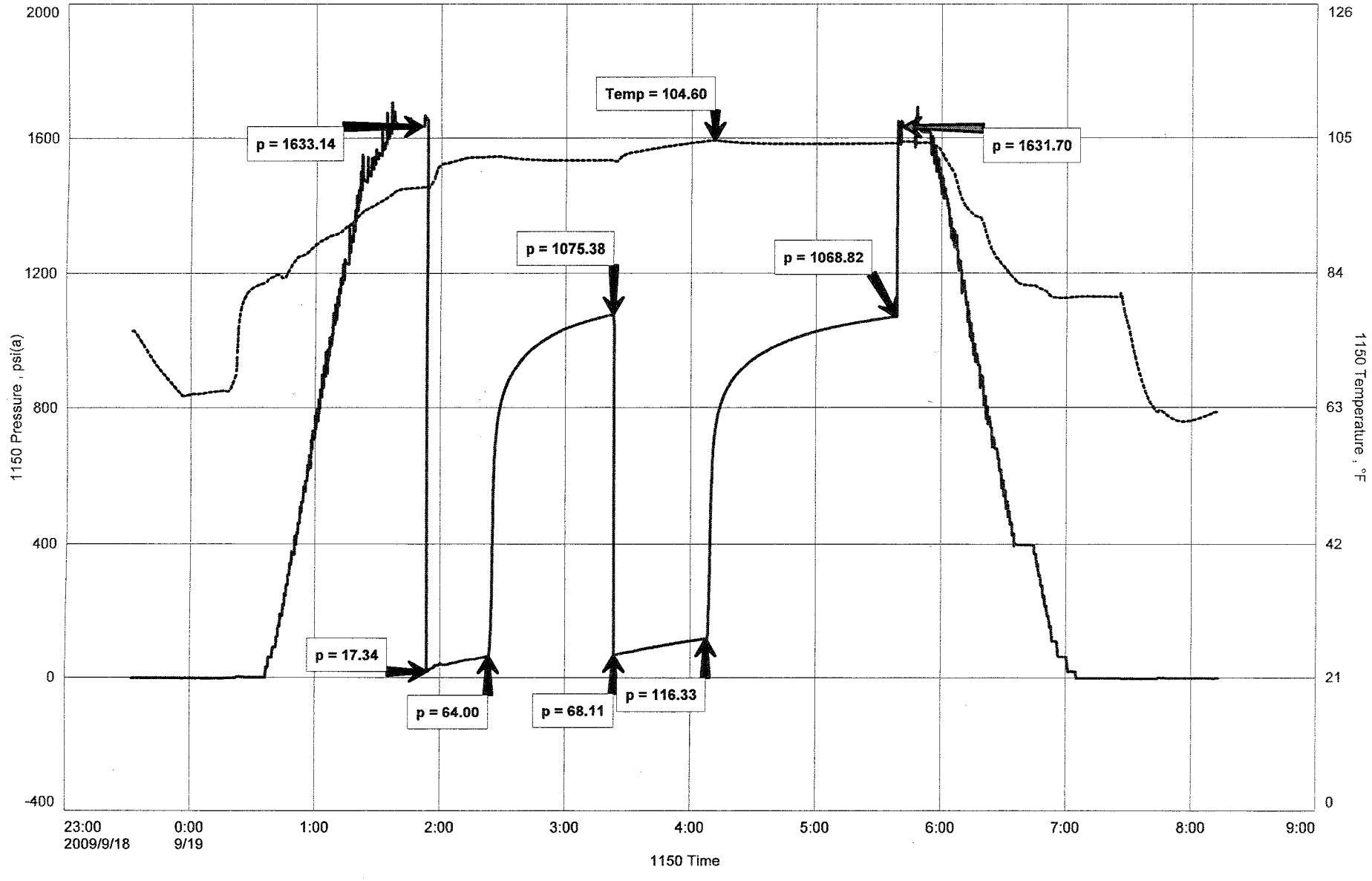
RECOVERED: 60' GAS IN PIPE
63' G&MCWO 10% GAS, 15% MUD, 15% WTR, 60% OIL (HEAVY)
63' OCWM 2% OIL, 43% WTR, 55% MUD
126' MW 12% MUD, 88% WTR - SCUM OF OIL (CHLORIDES 55,500 Ppm)
252' TOTAL FLUID

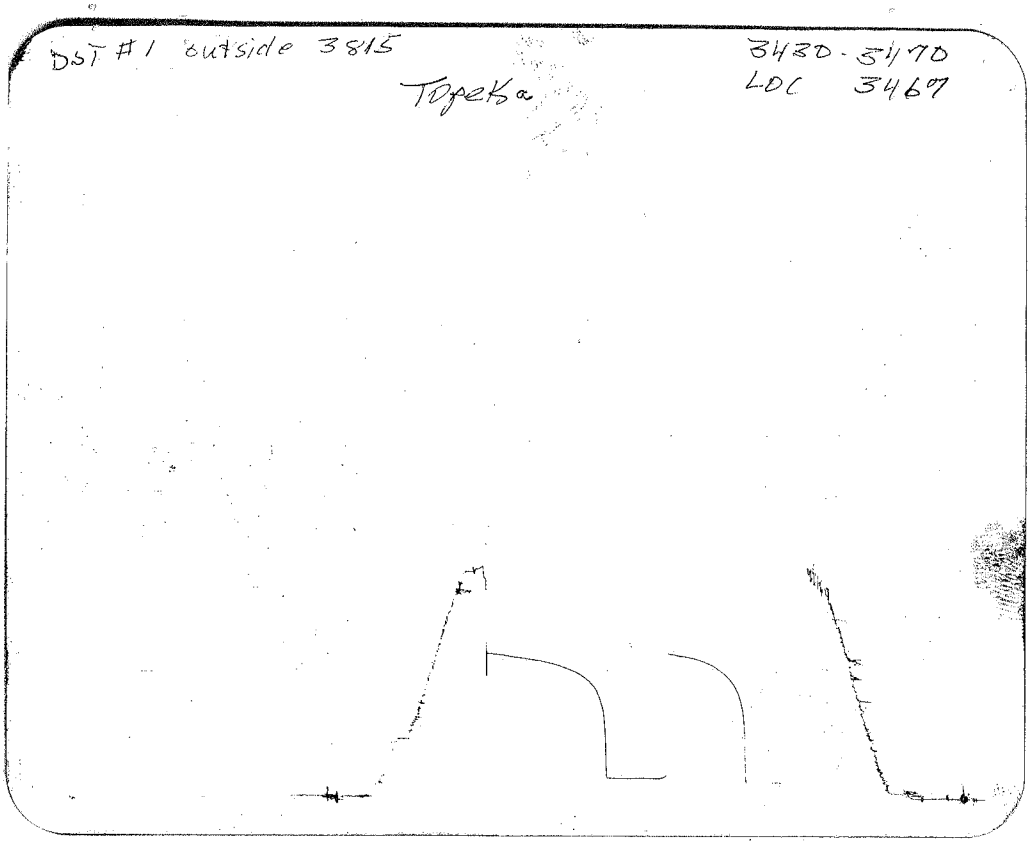
TOOL SAMPLE: 4% GAS, 14% OIL, 25% MUD, 57% WTR

RAYMOND OIL COMPANY
DST #1 TOPEKA 3,430' - 3,470'
Start Test Date: 2009/09/18
Final Test Date: 2009/09/19

PFEIFER #1
Formation: DST #1 TOPEKA 3,430' - 3,470

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1633	1633	PSI
(B)	First Initial Flow Pressure	17	17	PSI
(C)	First Final Flow Pressure	64	64	PSI
(D)	Initial Closed-in Pressure	1075	1075	PSI
(E)	Second Initial Flow Pressure	68	68	PSI
(F)	Second Final Flow Pressure	116	116	PSI
(G)	Final Closed-in Pressure	1069	1069	PSI
(H)	Final Hydrostatic Mud	1632	1632	PSI

DIAMOND TESTING
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Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Toronto Effective Pay -- Ft. Ticket No. 2592

Date 9-19-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,495 ft. to 3,535 ft. Total Depth 3,535 ft.

Packer Depth 3,490 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,495 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,476 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,532 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 10.8 cc. Drill Pipe Length 3,431 ft. I.D. 3 1/2 in.

Chlorides 4,900 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 40 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, 1/8 in., blow increasing to 6 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 5¼ ins. No blow back during shut-in.

Recovered 78 ft. of watery mud with a scum of oil = 1.109940 bbls. (Grind out: 42%-water; 58%-mud)

Recovered 63 ft. of salt water = .607880 bbls. (Grind out: 100%-water) Chlorides: 53,500 Ppm

Recovered 141 ft. of TOTAL FLUID = 1.717820 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 5%-mud; 95%-water with a scum of oil

Time Set Packer(s) 4:50 ~~A~~P.M. Time Started Off Bottom 8:35 ~~A~~P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure ..... (A) 1685 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1103 P.S.I.

Final Flow Period ..... Minutes 45 (E) 43 P.S.I. to (F) 74 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1050 P.S.I.

Final Hydrostatic Pressure ..... (H) 1669 P.S.I.

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #2 TORONTO 3,495' - 3,535'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/19
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #2 TORONTO 3,495' - 3,535'		
Well Fluid Type	06 Water	Start Test Time	15:15:00
		Final Test Time	22:37:00
Start Test Date	2009/09/19		
Final Test Date	2009/09/19		
Gauge Name	1150		
Gauge Serial Number			

Test Results

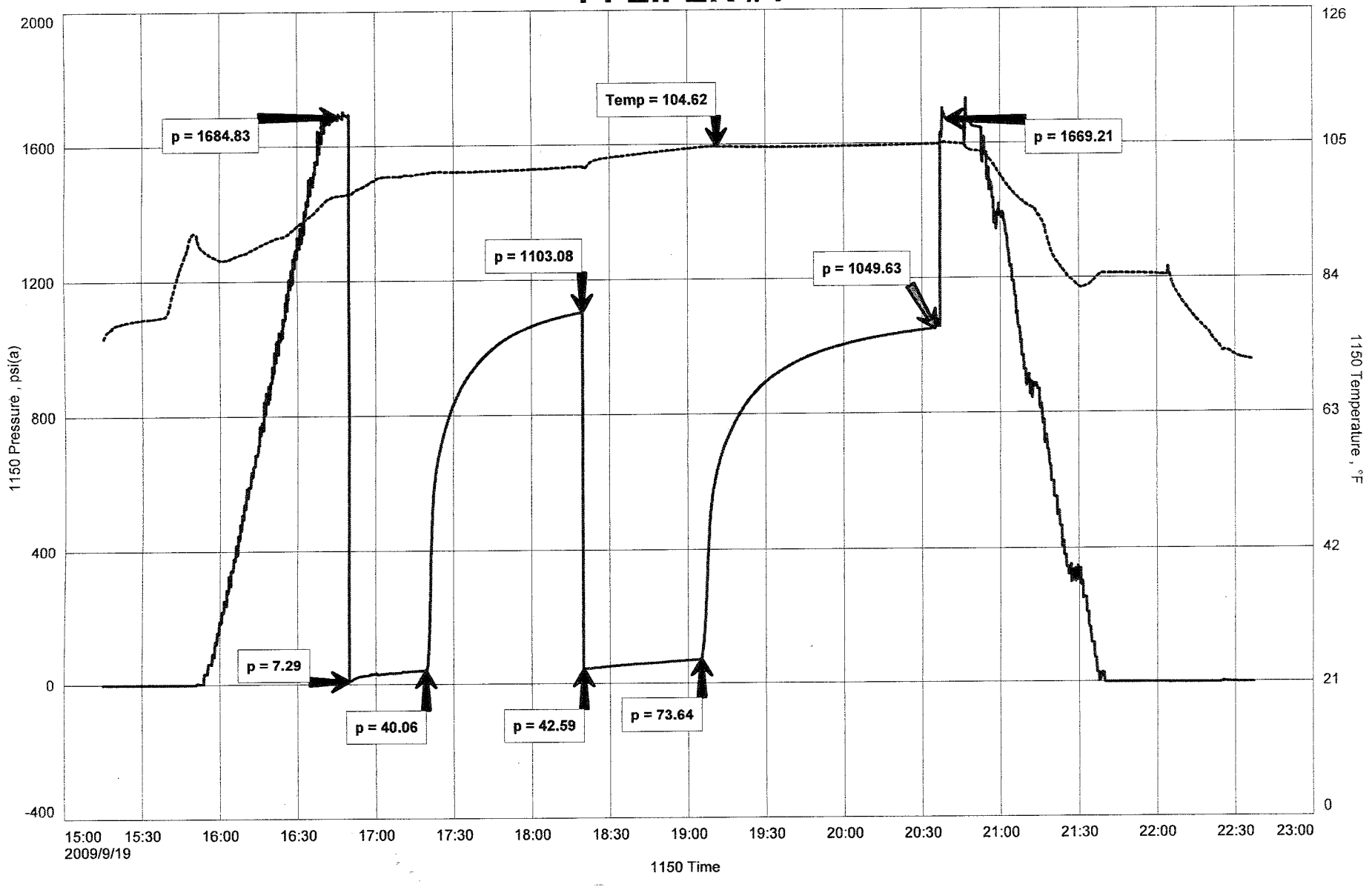
RECOVERED: 78' WM 42% WTR, 58% MUD - WITH A SCUM OF OIL
63' SW 100% WTR CHLORIDES 53,500 Ppm
141' TOTAL FLUID

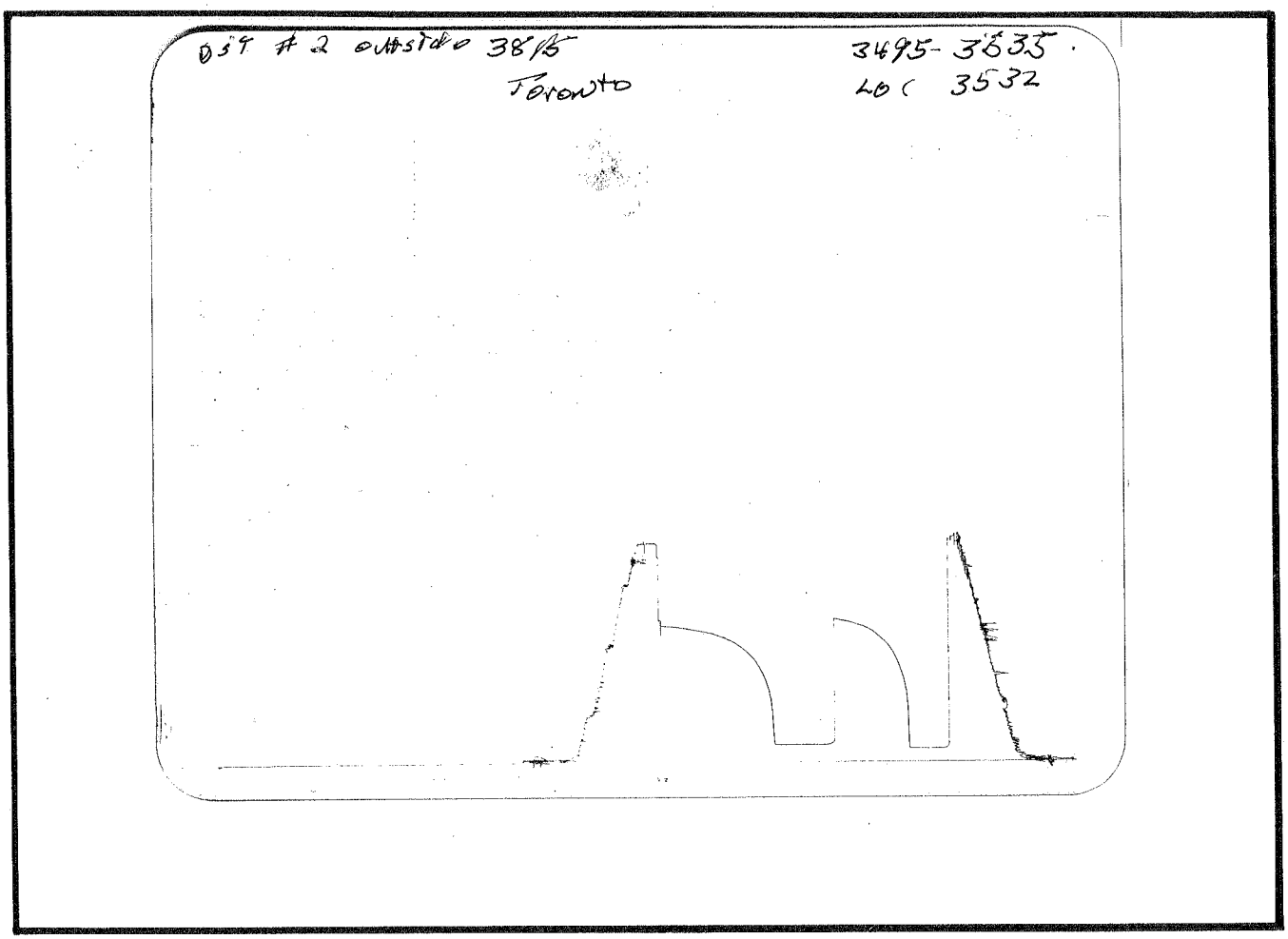
TOOL SAMPLE: 5% MUD, 95% WTR WITH A SCUM OF OIL

RAYMOND OIL COMPANY
DST #2 TORONTO 3,495' - 3,535'
Start Test Date: 2009/09/19
Final Test Date: 2009/09/19

PFEIFER #1
Formation: DST #2 TORONTO 3,495' - 3,535'

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	PRESSURE Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1685	1685	PSI
(B)	First Initial Flow Pressure	7	7	PSI
(C)	First Final Flow Pressure	40	40	PSI
(D)	Initial Closed-in Pressure	1103	1103	PSI
(E)	Second Initial Flow Pressure	43	43	PSI
(F)	Second Final Flow Pressure	74	74	PSI
(G)	Final Closed-in Pressure	1050	1050	PSI
(H)	Final Hydrostatic Mud	1669	1669	PSI

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Lansing/Kansas City (35' Zone) Effective Pay -- Ft. Ticket No. 2593

Date 9-20-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,530 ft. to 3,590 ft. Total Depth 3,590 ft.

Packer Depth 3,525 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,530 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,511 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,587 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 53 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 10.8 cc. Drill Pipe Length 3,466 ft. I.D. 3 1/2 in.

Chlorides 4,900 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 28' perf. w/32' 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 8 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 7½ ins. No blow back during shut-in.

Recovered 96 ft. of oil specked muddy water = 1.366080 bbls. (Grind out: 44%-mud; 56%-water)

Recovered 63 ft. of muddy water with a few oil specks = .607880 bbls. (Grind out: 12%-mud; 88%-water)

Recovered 159 ft. of TOTAL FLUID = 1.973960 bbls. Chlorides: 28,500 Ppm

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-oil; 23%-mud; 75%-water

Time Set Packer(s) 8:39 ~~A.M.~~ P.M. Time Started Off Bottom 12:24 ~~A.M.~~ P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure		(A)	1656 P.S.I.		
Initial Flow Period	Minutes 30	(B)	9 P.S.I.	to (C)	45 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1108 P.S.I.		
Final Flow Period	Minutes 45	(E)	48 P.S.I.	to (F)	80 P.S.I.
Final Closed In Period	Minutes 90	(G)	1078 P.S.I.		
Final Hydrostatic Pressure		(H)	1652 P.S.I.		

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #3 LKC 35' 3,530' - 3,590'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/20
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #3 LKC 35' 3,530' - 3,590'		
Well Fluid Type	06 Water	Start Test Time	06:50:00
		Final Test Time	14:18:00
Start Test Date	2009/09/20		
Final Test Date	2009/09/20		
Gauge Name	1150		
Gauge Serial Number			

Test Results

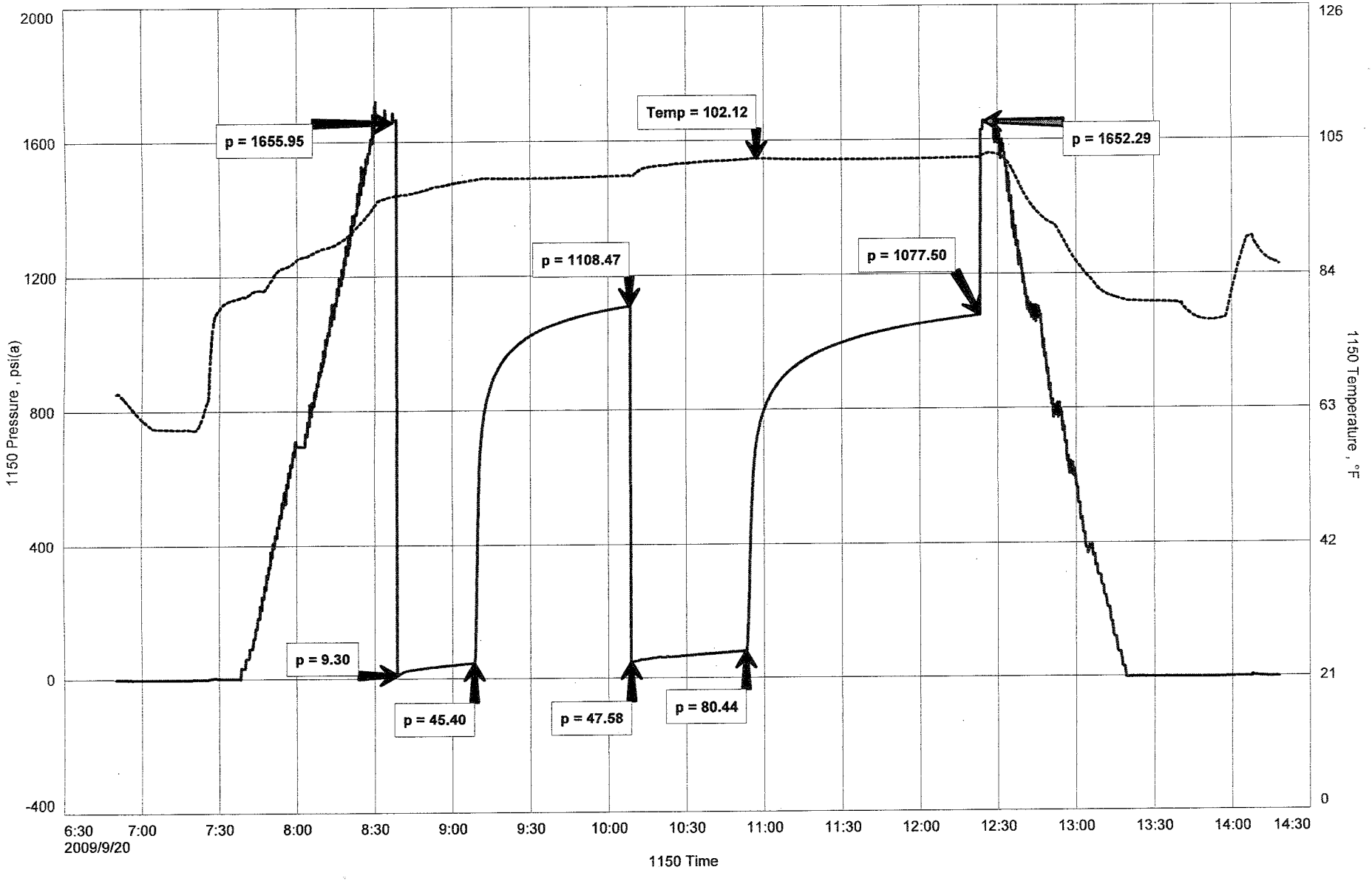
RECOVERED: 96' MW 44% MUD, 56% WTR - OIL SPECKED
63' MW 12% MUD, 88% WTR - FEW OIL SPECKS CHLORIDES 28,500 Ppm
159' TOTAL FLUID

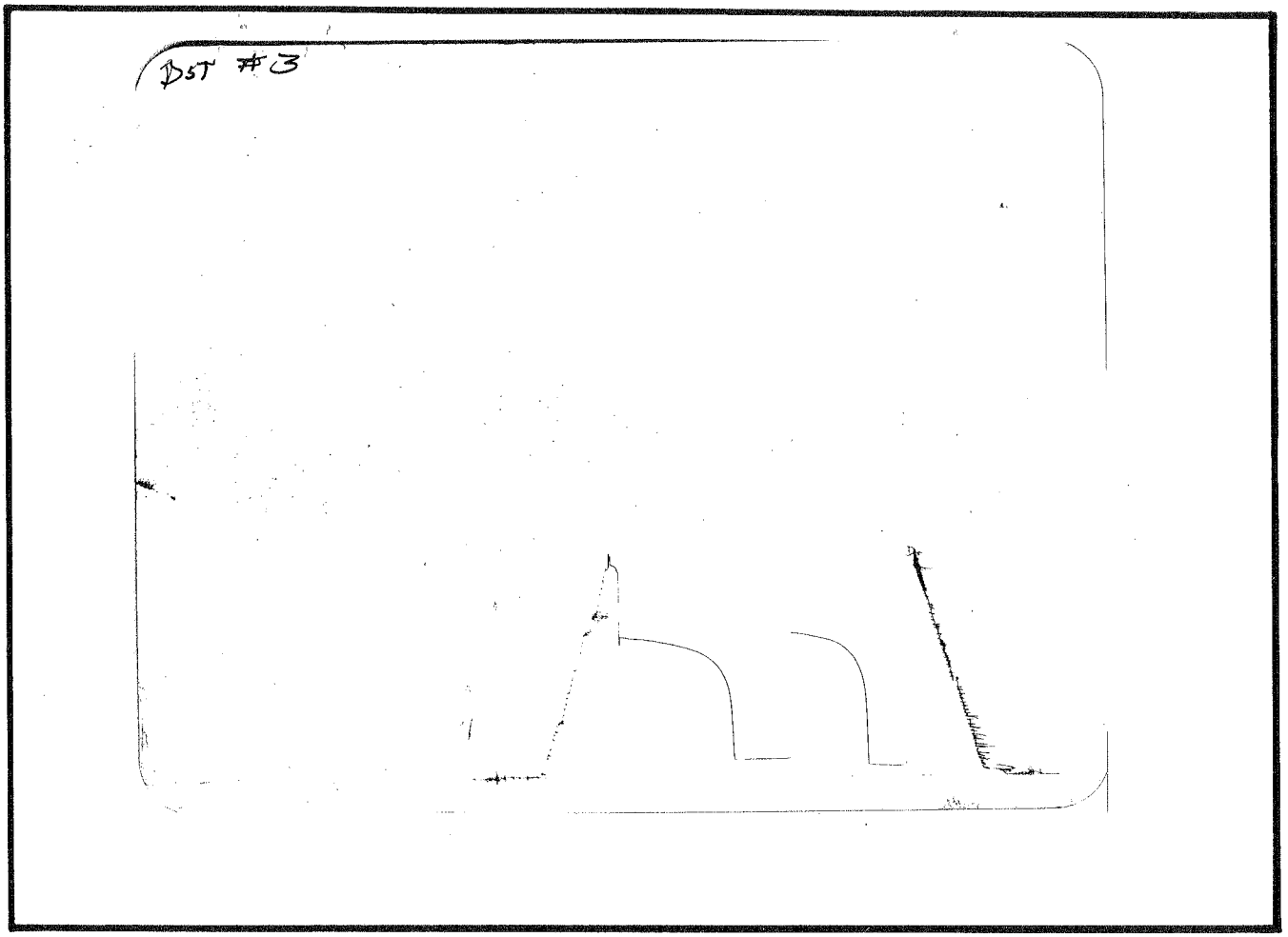
TOOL SAMPLE: 2% OIL, 23% MUD, 75% WTR

RAYMOND OIL COMPANY
DST #3 LKC 35' 3,530' - 3,590'
Start Test Date: 2009/09/20
Final Test Date: 2009/09/20

PFEIFER #1
Formation: DST #3 LKC 35' 3,530' - 3,590'

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1656	1656	PSI
(B)	First Initial Flow Pressure	9	9	PSI
(C)	First Final Flow Pressure	45	45	PSI
(D)	Initial Closed-in Pressure	1108	1108	PSI
(E)	Second Initial Flow Pressure	48	48	PSI
(F)	Second Final Flow Pressure	80	80	PSI
(G)	Final Closed-in Pressure	1078	1078	PSI
(H)	Final Hydrostatic Mud	1652	1652	PSI

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Lansing/Kansas City (50'-90' Zones) Effective Pay -- Ft. Ticket No. 2594

Date 9-20-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 3,585 ft. to 3,630 ft. Total Depth 3,630 ft.

Packer Depth 3,580 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,585 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,566 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,627 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 9.8 cc. Drill Pipe Length 3,521 ft. I.D. 3 1/2 in.

Chlorides 4,400 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 45 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: Fair, 1 in., blow increasing. Off bottom of bucket in 4 mins. Strong blow back off bottom of bucket during shut-in.

2nd Open: Fair, 2 in., blow increasing. Off bottom of bucket in 4 mins. Strong blow back off bottom of bucket during shut-in.

Recovered 1,670 ft. of gas in pipe

Recovered 346 ft. of clean oil = 4.923580 bbls. (Gravity: 28.2 @ 60°)

Recovered 220 ft. of heavy gas & mud cut watery oil = 3.130600 bbls. (Grind out: 50%-gas; 2%-mud; 5%-water; 43%-oil)

Recovered 347 ft. of oil & gas cut muddy water = 4.649200 bbls. (Grind out: 2%-oil; 5%-gas; 15%-mud; 78%-water)

Recovered 913 ft. of TOTAL FLUID = 12.703380 bbls. Chlorides: 38,500 Ppm

Remarks Tool Sample Grind Out: 2%-mud; 5%-gas; 27%-water; 66%-oil

Time Set Packer(s) 10:21 ~~A.M.~~ P.M. Time Started Off Bottom 2:06 ~~A.M.~~ P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure ..... (A) 1694 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 20 P.S.I. to (C) 188 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1123 P.S.I.

Final Flow Period ..... Minutes 45 (E) 196 P.S.I. to (F) 391 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1115 P.S.I.

Final Hydrostatic Pressure ..... (H) 1691 P.S.I.

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #4 LKC 50'-90' 3,585' - 3,630'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/21
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #4 LKC 50'-90' 3,585' - 3,630'		
Well Fluid Type		Start Test Time	20:57:00
		Final Test Time	05:32:00
Start Test Date	2009/09/20		
Final Test Date	2009/09/21		
Gauge Name	1150		
Gauge Serial Number			

Test Results

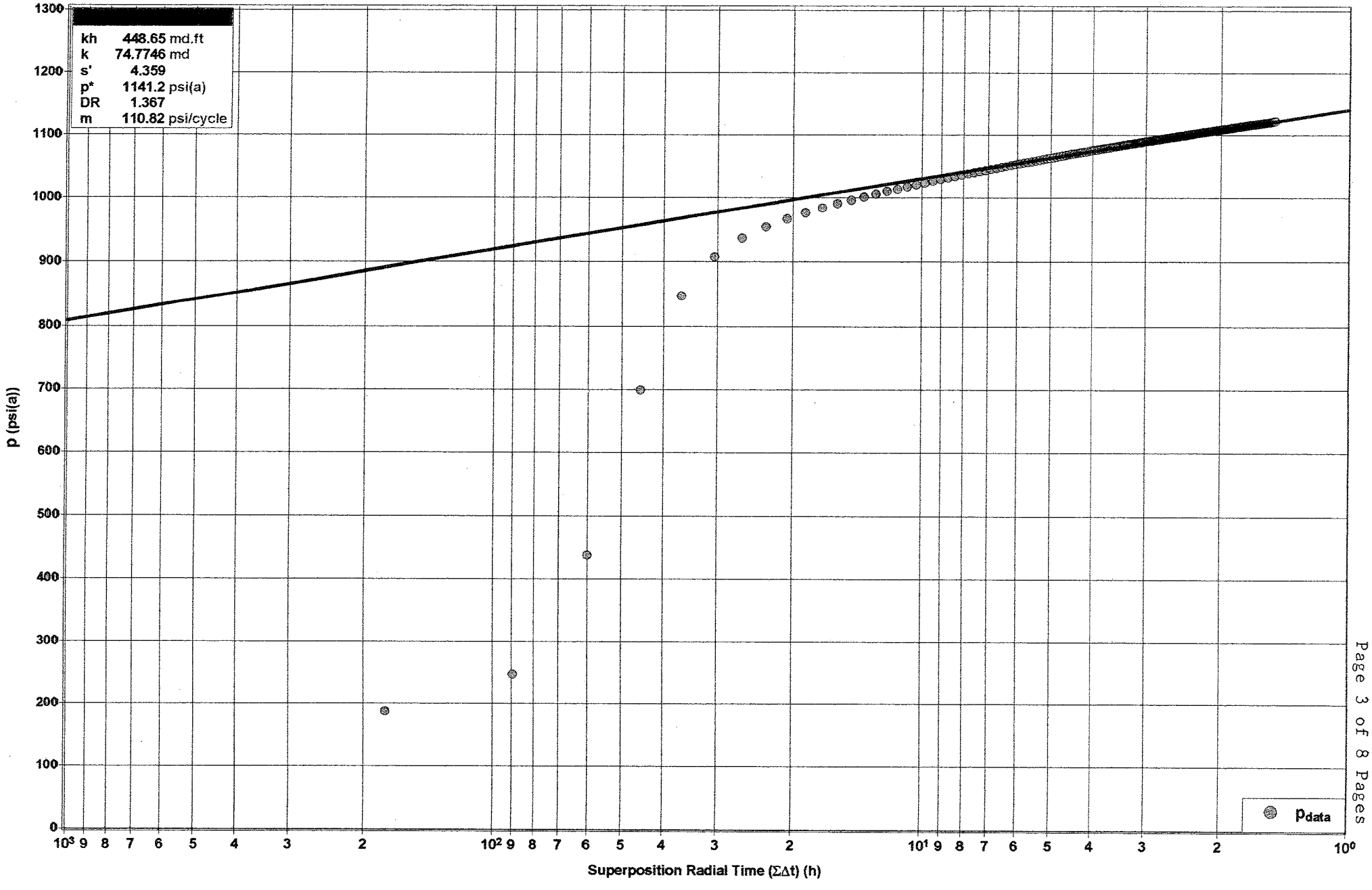
REVOVERED: 1,670' GAS IN PIPE
346' CLEAN OIL 28.2 GRAVITY @ 60 deg.
220' HG&MCWO 50% GAS, 2% MUD, 5% WTR, 43% OIL
347' O&GCMW 2% OIL, 5% GAS, 15% MUD, 78% WTR CHLORIDES 38,500 Ppm
913' TOTAL FLUID

TOOL SAMPLE: 5% GAS, 2% MUD, 27% WTR, 66% OIL

RAYMOND OIL COMPANY
PFEIFER #1
DST #4 LKC 50'-90' 3,585' - 3,640

INITIAL SHUT-IN

HORNER PLOT



Oil Well Test - Buildup
Radial Flow Analysis

RAYMOND OIL COMPANY

PFEIFER #1

DST #4 LKC 50'-90' 3,585' - 3,640

Analysis Results

Total Sandface Rate (qtBt)	136.840bbl/d
Semilog Slope (m)	110.82
Gas Permeability (kg)	md
Oil Permeability (ko)	74.775md
Water Permeability (kw)	md
Flow Capacity (kh)	448.648md.ft
Total Mobility (k/mt)	33.46md/cp
Total Transmissivity(kh/mt)	200.77md.ft/cp
Apparent Skin (s')	4.359
Skin - Damage	4.359
Skin - Inclination	
Skin - Partial Penetration	
Pressure Drop Due to Skin (Dps)	419.83psi
Damage Ratio (DR)	1.367
Flow Efficiency (FE)	0.732

Reservoir Parameters

Net Pay (h)	6.000ft
Total Porosity (ft)	12.00%
Water Saturation (Sw)	20.00%
Oil Saturation (So)	80.00%
Gas Saturation (Sg)	0.00%
Wellbore Radius (rw)	0.30ft
Formation Temperature (T)	120.0°F
Formation Compressibility (cf)	4.508e-6psi-1
Total Compressibility (ct)	1.339e-5psi-1

Pressures

Initial Pressure (pi)	1751.43psi
Extrapolated Pressure (p*)	1141.19psi
Final Flowing Pressure (pwfo)	186.60psi

Production and Times

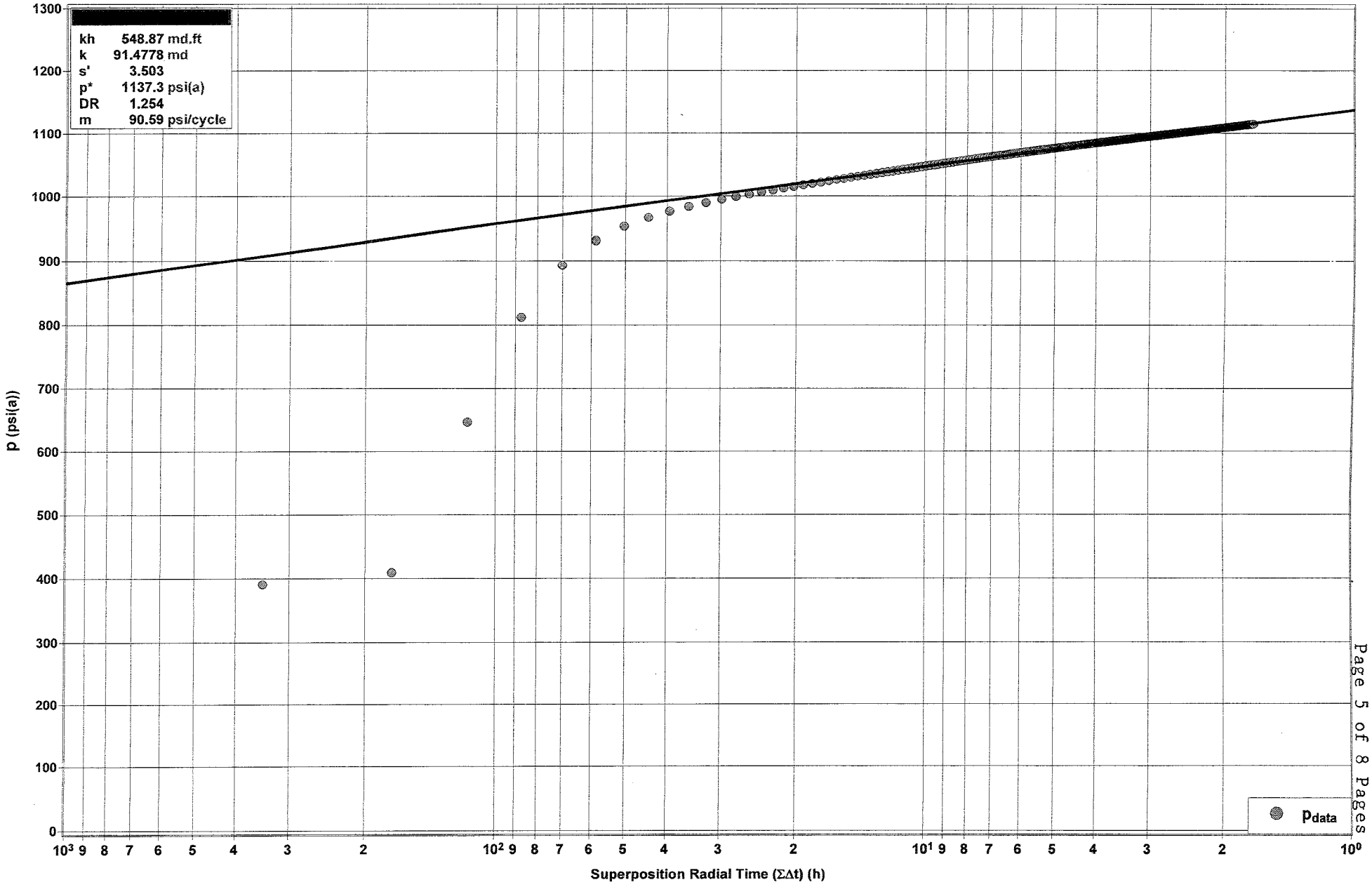
Corrected Flow Time (tc)	0.4917hr
Cumulative Oil Production	2.390bbl
Final Oil Rate	116.000bbl/d

Fluid Properties

Oil Compressibility (co)	1.03511e-5psi-1
Oil Formation Volume Factor (Bo)	1.180
Oil Viscosity (mo)	2.235cp
Solution Gas Ratio (Rs)	314scf/bbl
Oil Gravity (yo)	30.00° API
Gas Gravity (G)	0.650
PVT Reference Pressure (pPVT)	1751.43psi

RAYMOND OIL COMPANY
PFEIFER #1
DST #4 LKC 50'-90' 3,585' - 3,640

FINAL SHUT-IN
HORNER PLOT



Oil Well Test - Buildup
Radial Flow Analysis

RAYMOND OIL COMPANY

PFEIFER #1

DST #4 LKC 50'-90' 3,585' - 3,640

Analysis Results

Total Sandface Rate (qtBt)	136.840 bbl/d	Apparent Skin (s')	3.503
Semilog Slope (m)	90.59	Skin - Damage	3.503
Gas Permeability (kg)	md	Skin - Inclination	
Oil Permeability (ko)	91.478 md	Skin - Partial Penetration	
Water Permeability (kw)	md	Pressure Drop Due to Skin (Dps)	275.77 psi
Flow Capacity (kh)	548.867 md.ft	Damage Ratio (DR)	1.254
Total Mobility (k/mt)	40.94 md/cp	Flow Efficiency (FE)	0.797
Total Transmissivity(kh/mt)	245.62 md.ft/cp		

Reservoir Parameters

Net Pay (h)	6.000 ft
Total Porosity (ft)	12.00 %
Water Saturation (Sw)	20.00 %
Oil Saturation (So)	80.00 %
Gas Saturation (Sg)	0.00 %
Wellbore Radius (rw)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (cf)	4.508e-6 psi-1
Total Compressibility (ct)	1.339e-5 psi-1

Pressures

Initial Pressure (pi)	1751.43 psi
Extrapolated Pressure (p*)	1137.27 psi
Final Flowing Pressure (pwfo)	390.23 psi

Production and Times

Corrected Flow Time (tc)	1.2389 hr
Cumulative Oil Production	6.001 bbl
Final Oil Rate	116.000 bbl/d

Fluid Properties

Oil Compressibility (co)	1.03511e-5 psi-1
Oil Formation Volume Factor (Bo)	1.180
Oil Viscosity (mo)	2.235 cp
Solution Gas Ratio (Rs)	314 scf/bbl
Oil Gravity (yo)	30.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (pPVT)	1751.43 psi

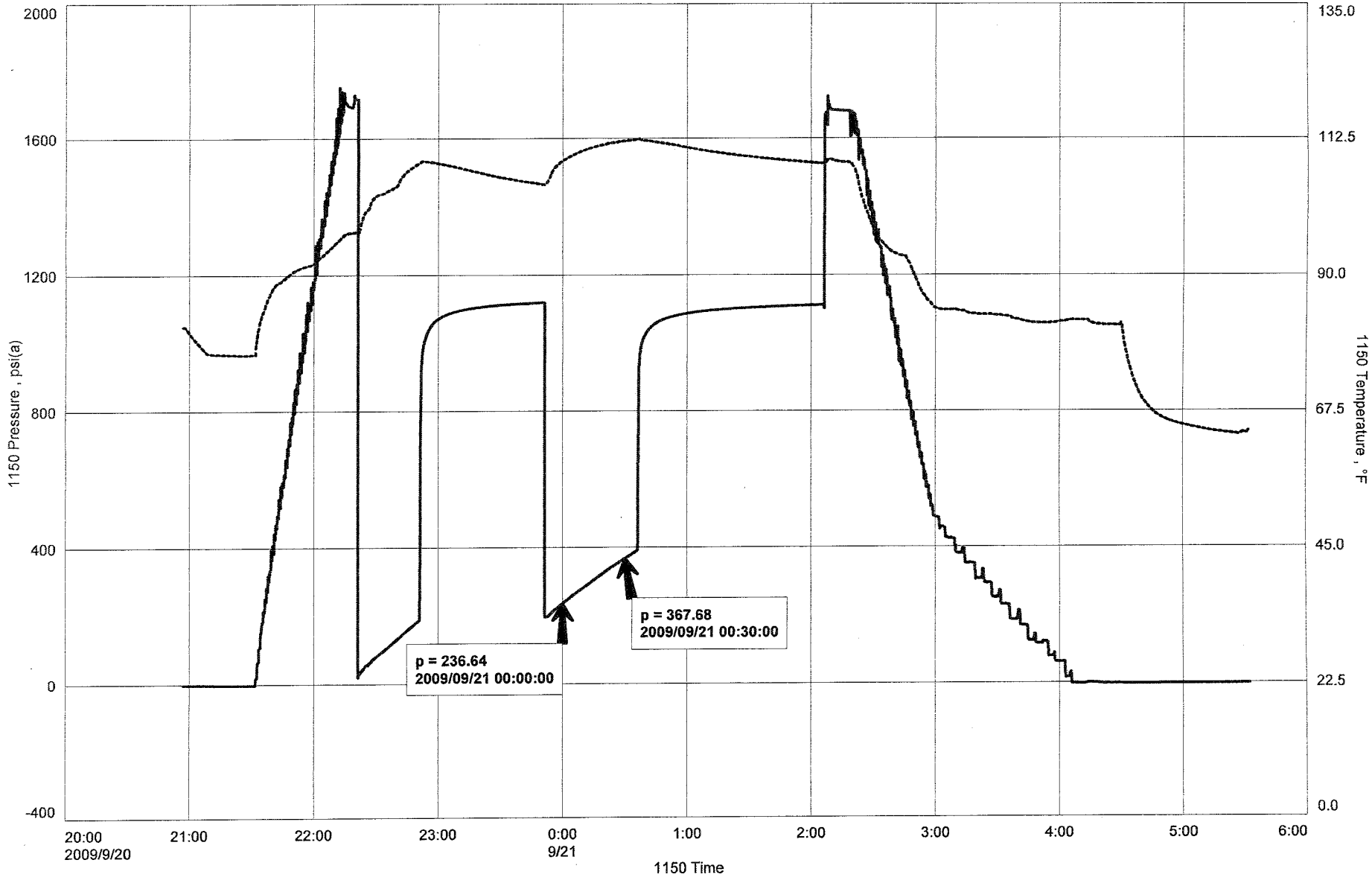
RAYMOND OIL COMPANY
PFEIFER #1
DST #4 LKC 50'-90' 3,585' - 3,640
ESTIMATED DAILY PRODUCTION

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	DRILL-PIPE SIZE-ID	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION	AVERAGE PERCENTAGE OIL	ESTIMATED DAILY PRODUCTION
FINAL FLOW	368	237	131	0.0142	0.3841	30	1440	232	50.09%	116

RAYMOND OIL COMPANY
DST #4 LKC 50'-90' 3,585' - 3,630'
Start Test Date: 2009/09/20
Final Test Date: 2009/09/21

PFEIFER #1
Formation: DST #4 LKC 50'-90' 3,585' - 3,630'

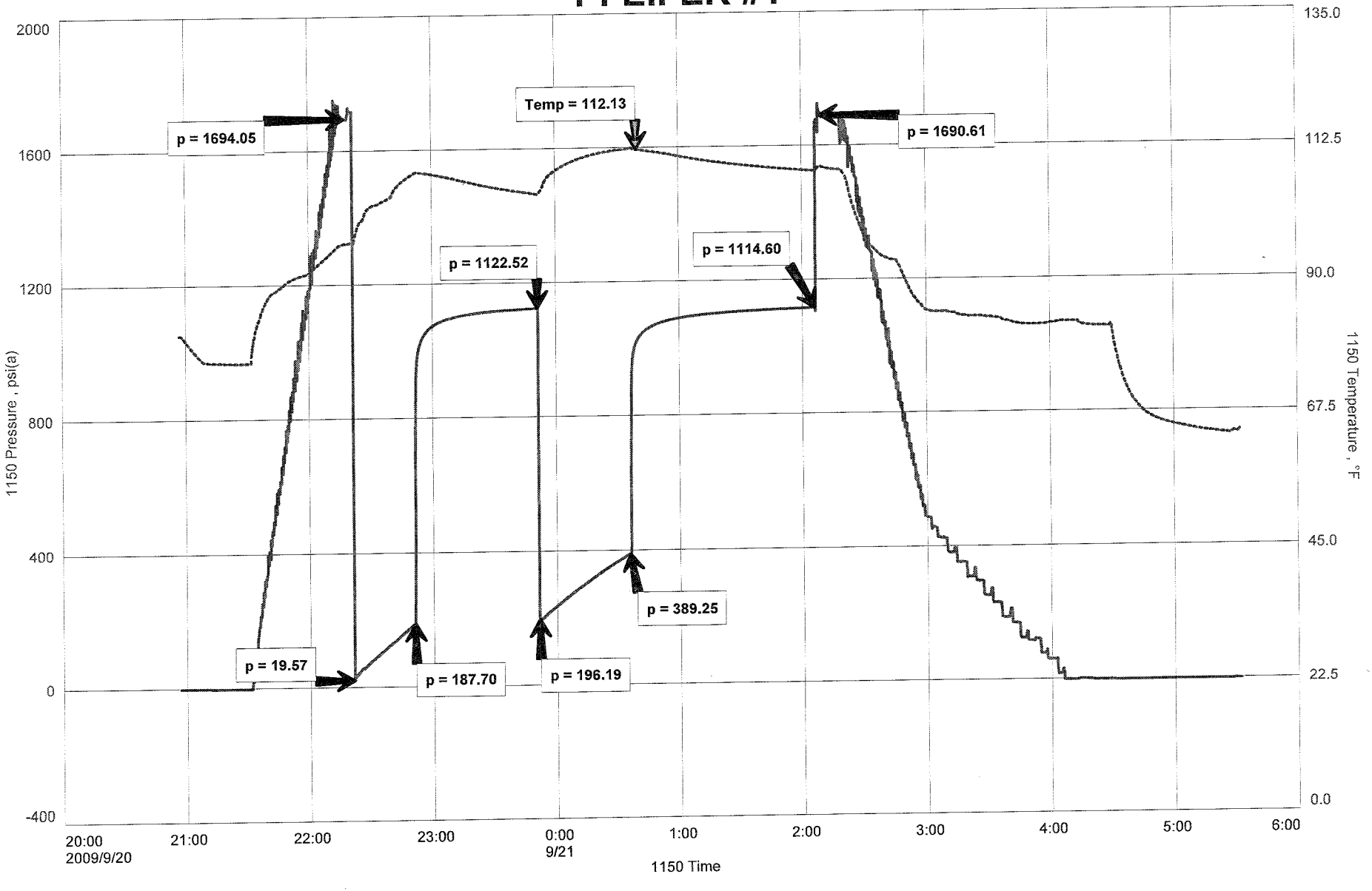
ESTIMATED PRODUCTION

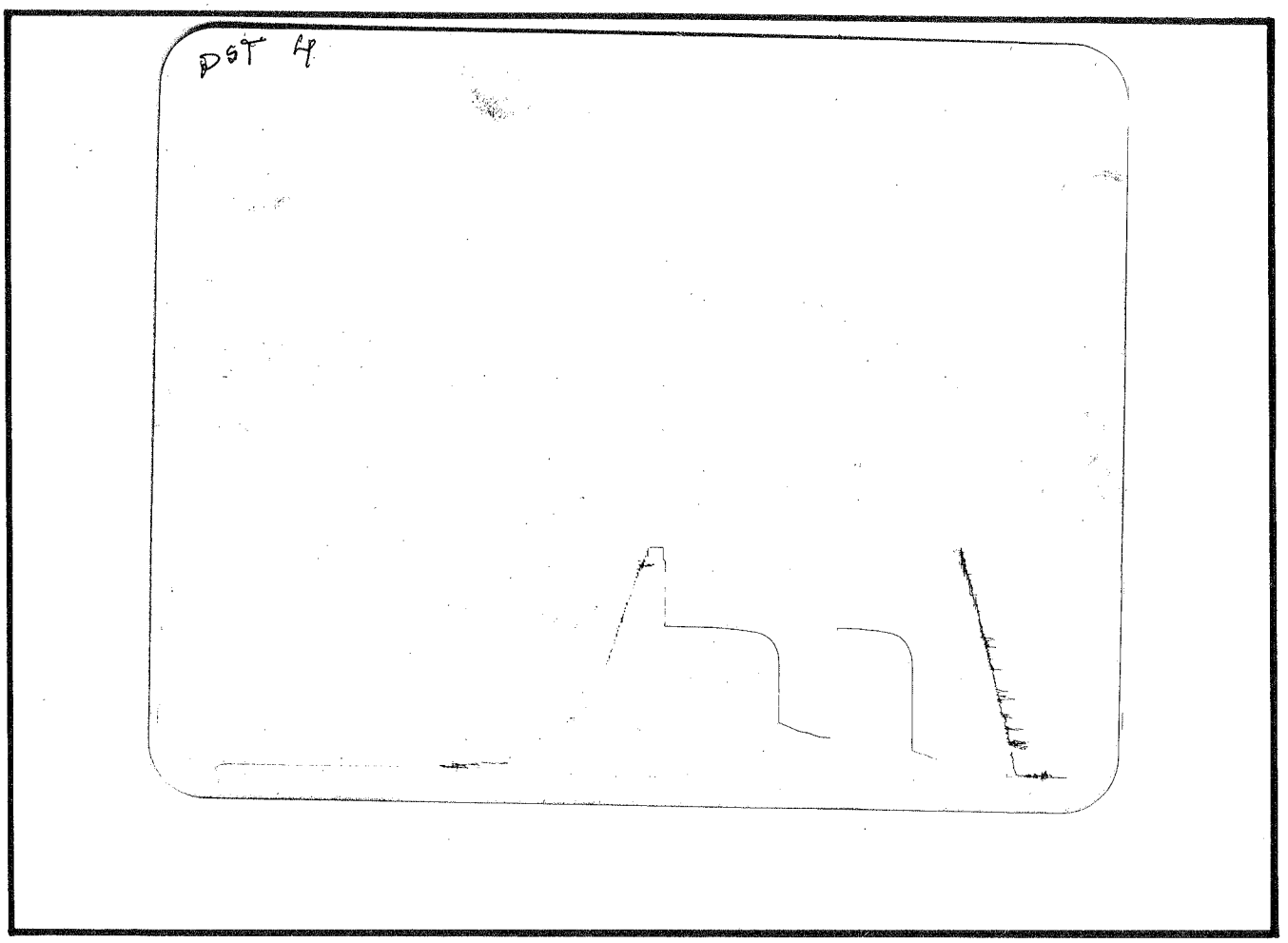


RAYMOND OIL COMPANY
DST #4 LKC 50'-90' 3,585' - 3,630'
Start Test Date: 2009/09/20
Final Test Date: 2009/09/21

PFEIFER #1
Formation: DST #4 LKC 50'-90' 3,585' - 3,630'

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1694	1694	PSI
(B)	First Initial Flow Pressure	20	20	PSI
(C)	First Final Flow Pressure	188	188	PSI
(D)	Initial Closed-in Pressure	1123	1123	PSI
(E)	Second Initial Flow Pressure	196	196	PSI
(F)	Second Final Flow Pressure	391	391	PSI
(G)	Final Closed-in Pressure	1115	1115	PSI
(H)	Final Hydrostatic Mud	1691	1691	PSI

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Lansing/Kansas City (140'-180' Zones) Effective Pay -- Ft. Ticket No. 2595

Date 9-21-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 5 Interval Tested from 3,650 ft. to 3,730 ft. Total Depth 3,730 ft.

Packer Depth 3,645 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,650 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,631 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,727 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,586 ft. I.D. 3 1/2 in.

Chlorides 4,800 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 48' perf. w/32' 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 ½ in. No blow back during shut-in.
2nd Open: No blow for 15 mins. Weak, surface blow throughout. No blow back during shut-in.

Recovered 20 ft. of gas in pipe

Recovered 1 ft. of clean oil = .004920 bbls.

Recovered 15 ft. of heavy oil cut mud = .073800 bbls. (Grind out: 44%-oil; 56%-mud)

Recovered 16 ft. of TOTAL FLUID = .078720 bbls.

Recovered ft. of

Remarks Tool Sample Grind Out: 45%-mud; 55%-oil

Time Set Packer(s) 7:26 ~~A~~P.M. Time Started Off Bottom 11:11 ~~A~~P.M. Maximum Temperature 104°

Initial Hydrostatic Pressure ..... (A) 1759 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 14 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 877 P.S.I.

Final Flow Period ..... Minutes 45 (E) 17 P.S.I. to (F) 22 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 807 P.S.I.

Final Hydrostatic Pressure ..... (H) 1756 P.S.I.

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #5 LKC 140'-180' 3,650' - 3,730'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/22
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #5 LKC 140'-180' 3,650' - 3,730'		
Well Fluid Type		Start Test Time	17:39:00
		Final Test Time	01:02:00
Start Test Date	2009/09/21		
Final Test Date	2009/09/22		
Gauge Name	1150		
Gauge Serial Number			

Test Results

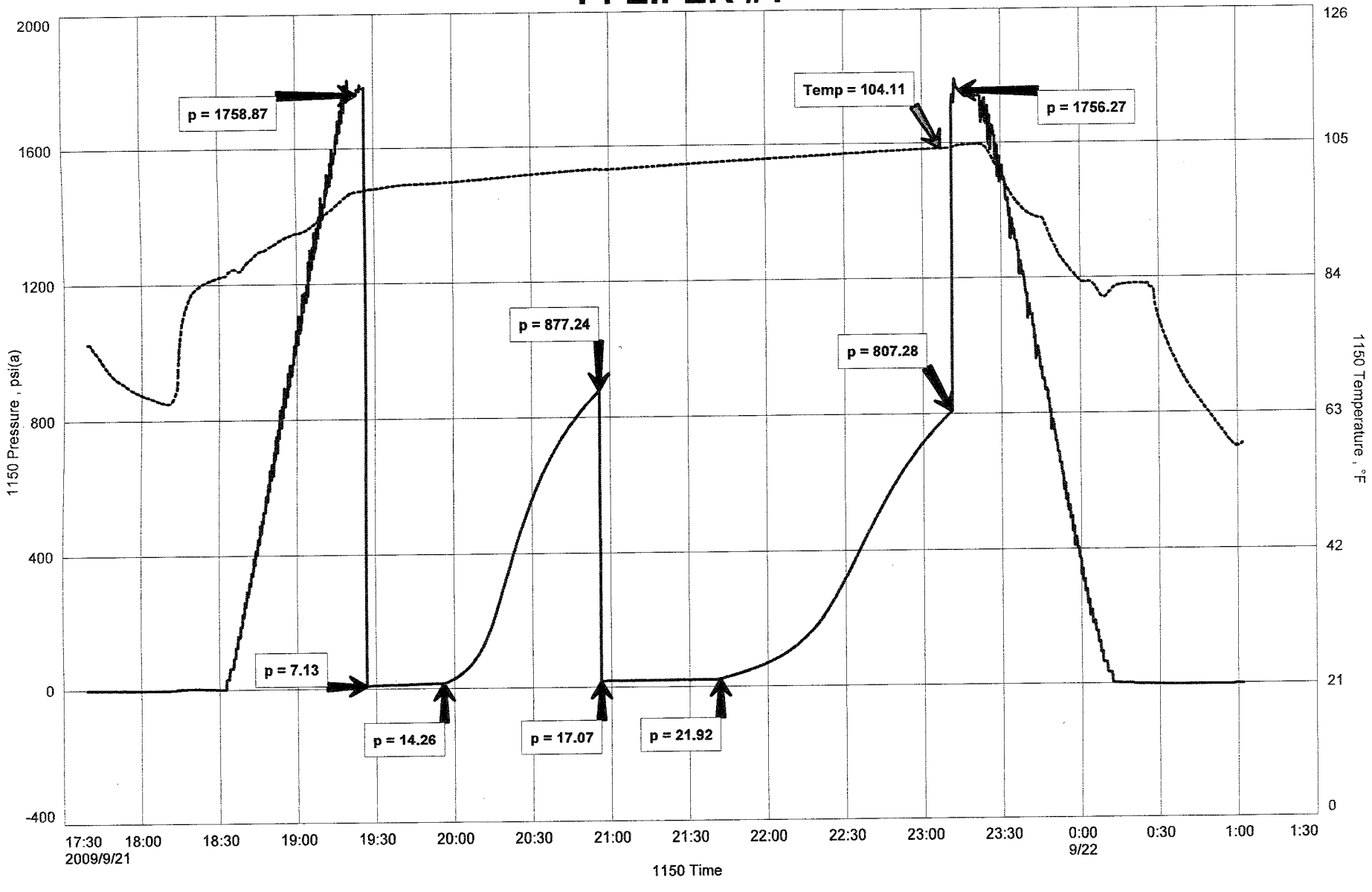
RECOVERED: 20' GAS IN PIPE
1' CLEAN OIL
15' HOCM 44% OIL, 56% MUD
16' TOTAL FLUID

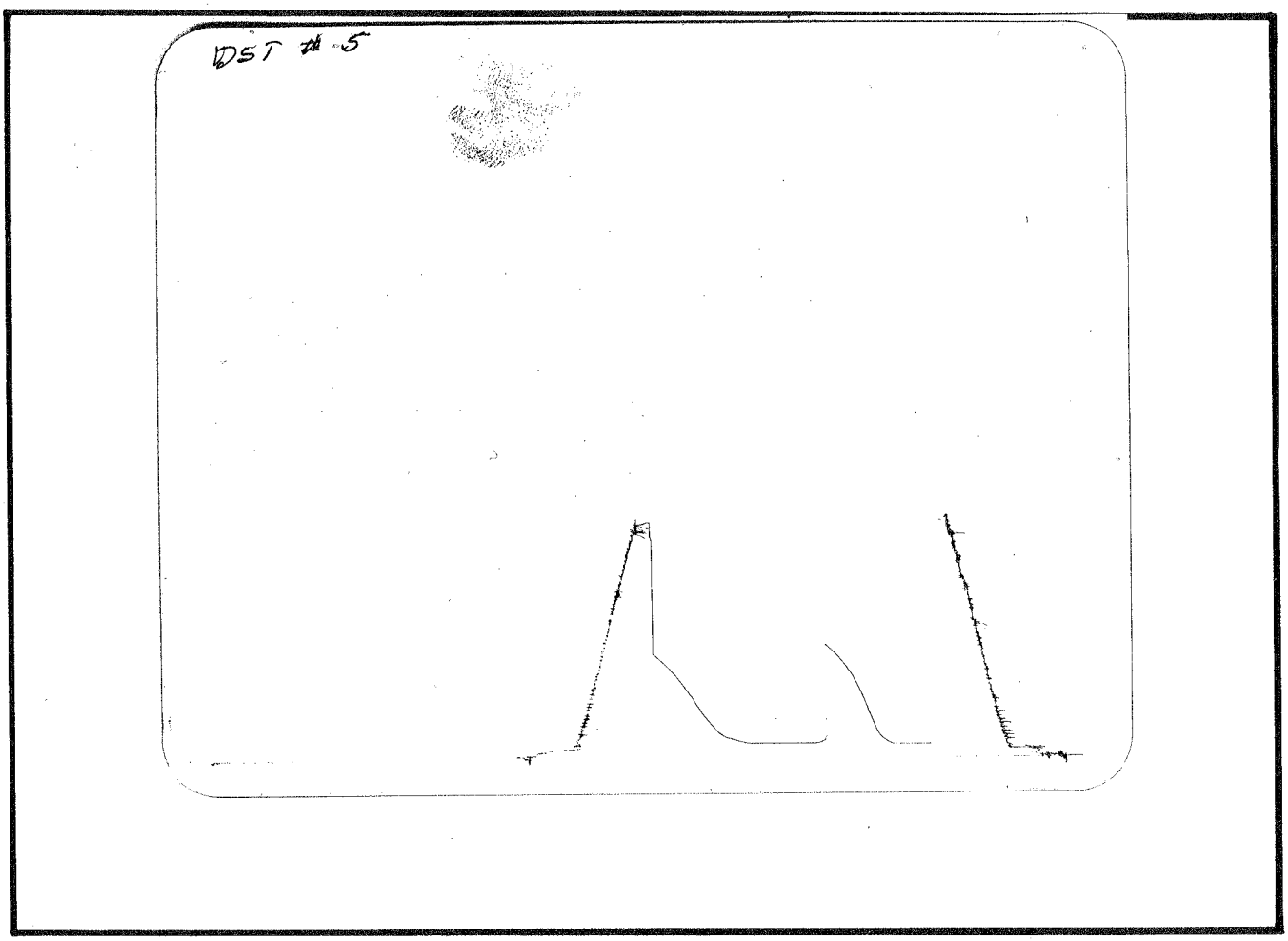
TOOL SAMPLE: 45% MUD, 55% OIL

RAYMOND OIL COMPANY
DST #5 LKC 140'-180' 3,650' - 3,730'
Start Test Date: 2009/09/21
Final Test Date: 2009/09/22

PFEIFER #1
Formation: DST #5 LKC 140'-180' 3,650' - 3,730'

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1759	1759	PSI
(B)	First Initial Flow Pressure	7	7	PSI
(C)	First Final Flow Pressure	14	14	PSI
(D)	Initial Closed-in Pressure	877	877	PSI
(E)	Second Initial Flow Pressure	17	17	PSI
(F)	Second Final Flow Pressure	22	22	PSI
(G)	Final Closed-in Pressure	807	807	PSI
(H)	Final Hydrostatic Mud	1756	1756	PSI

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Lansing/Kansas City (200' Zone) Effective Pay -- Ft. Ticket No. 2596

Date 9-22-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 6 Interval Tested from 3,725 ft. to 3,760 ft. Total Depth 3,760 ft.

Packer Depth 3,720 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,725 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,706 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,757 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.4 cc. Drill Pipe Length 3,661 ft. I.D. 3 1/2 in.

Chlorides 4,800 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 35 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 to 7 ins. No blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing to 7 ins. No blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 7 ft. of clean oil = .099610 bbls. (Gravity: 27.4 @ 60°)

Recovered 124 ft. of oil cut muddy water = 1.475910 bbls. (Grind out: 2%-oil; 15%-mud; 83%-water)

Recovered 131 ft. of TOTAL FLUID = 1.575520 bbls. Chlorides: 37,500 Ppm

Recovered ft. of

Remarks Tool Sample Grind Out: 10%-oil; 90%-water

Time Set Packer(s) 9:20 ~~P~~A.M. Time Started Off Bottom 1:05 ~~A~~P.M. Maximum Temperature 106°

Initial Hydrostatic Pressure		(A)	1790 P.S.I.		
Initial Flow Period	Minutes 30	(B)	9 P.S.I.	to (C)	39 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1198 P.S.I.		
Final Flow Period	Minutes 45	(E)	42 P.S.I.	to (F)	69 P.S.I.
Final Closed In Period	Minutes 90	(G)	1179 P.S.I.		
Final Hydrostatic Pressure		(H)	1788 P.S.I.		

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #6 LKC 200' 3,725' - 3,760'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/22
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #6 LKC 200' 3,725' 3,760'		
Well Fluid Type	01 Oil	Start Test Time	07:32:00
		Final Test Time	15:19:00
Start Test Date	2009/09/22		
Final Test Date	2009/09/22		
Gauge Name	1150		
Gauge Serial Number			

Test Results

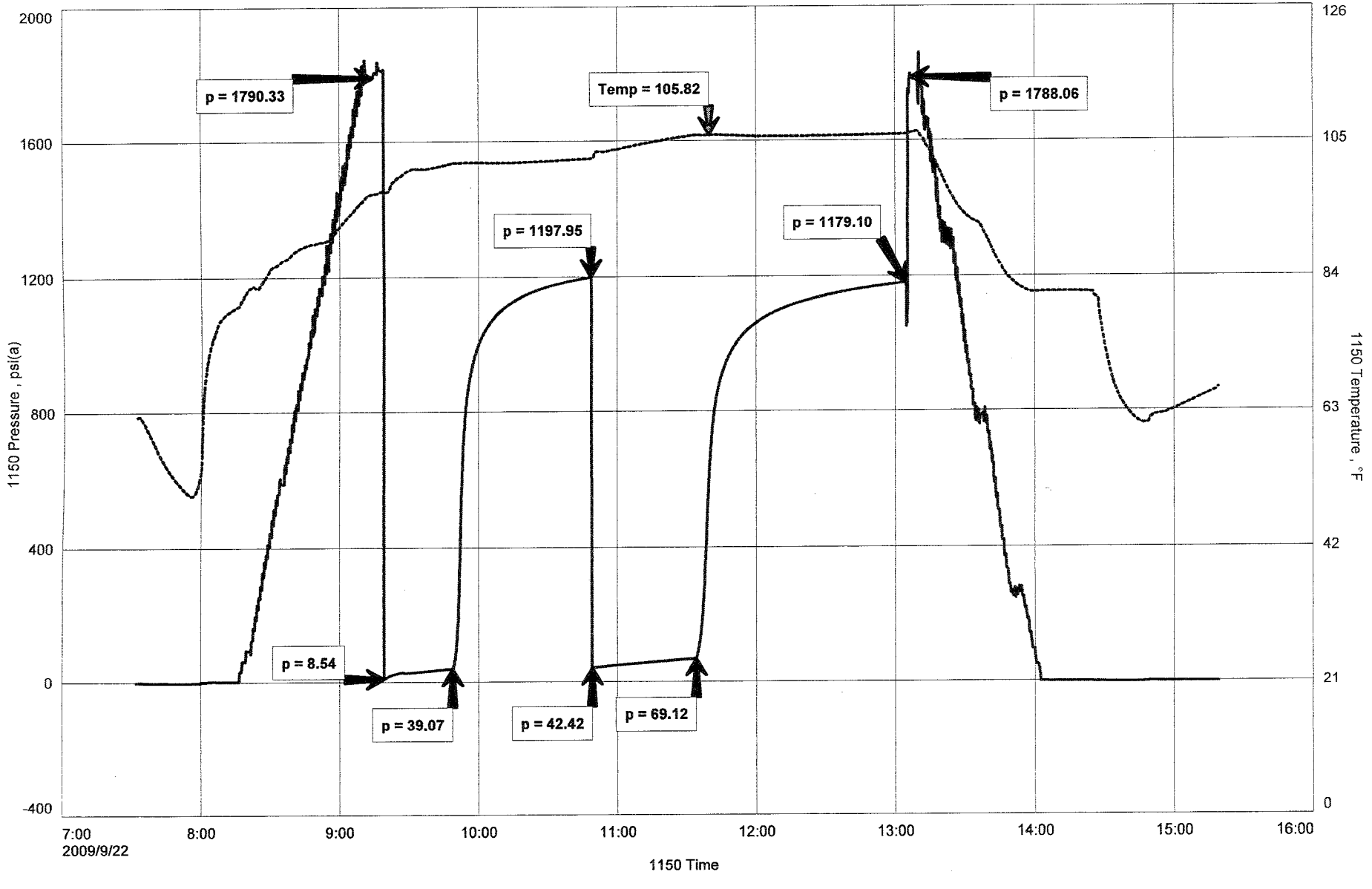
RECOVERED: 60' GAS IN PIPE
7' CLEAN OIL 27.4 GRAVITY @ 60 deg
124' OCMW 2% OIL, 15% MUD, 83% WTR CHLORIDES 37,500 Ppm
131' TOTAL FLUID

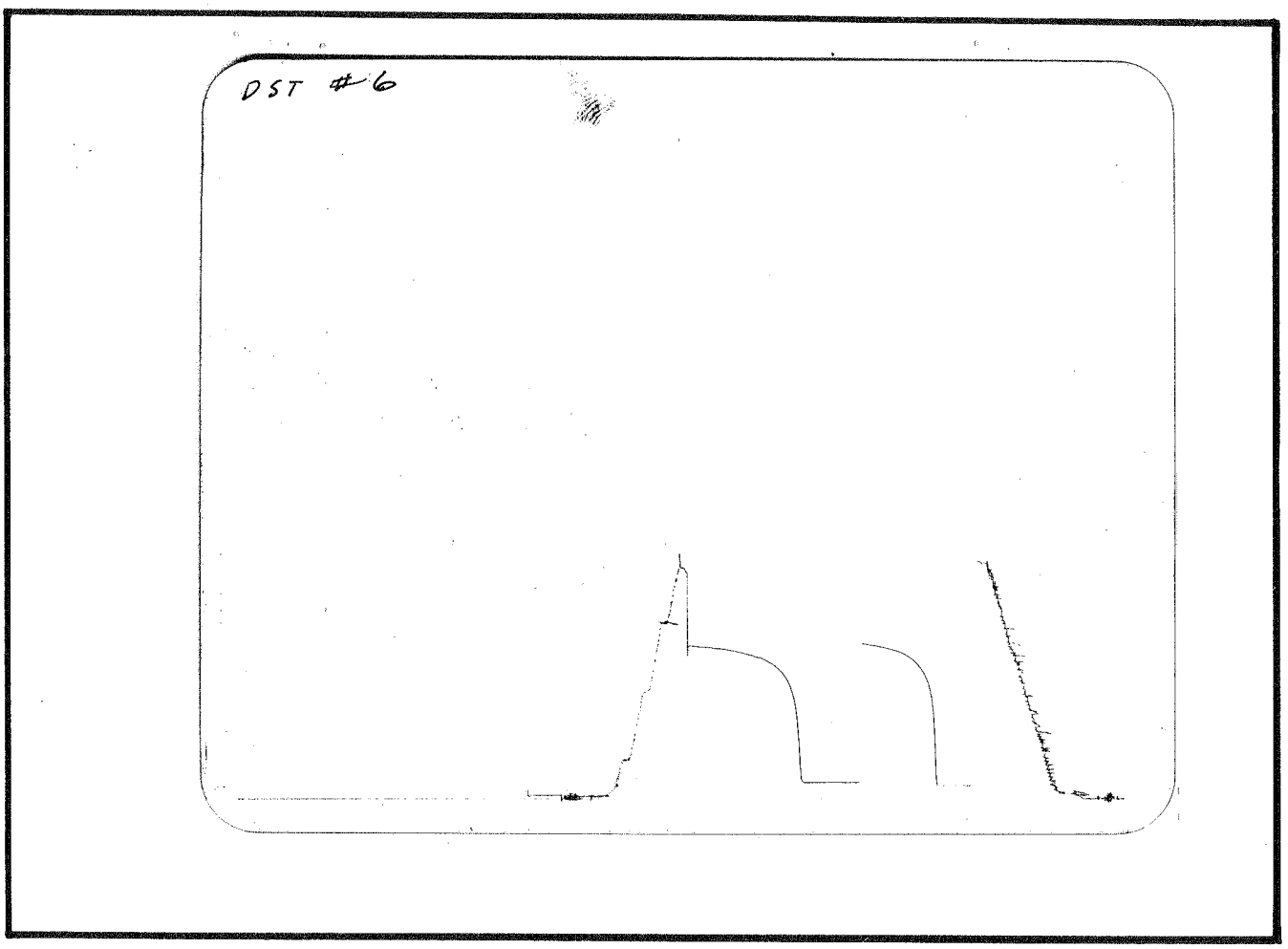
TOOL SAMPLE: 10% OIL, 90% WTR

RAYMOND OIL COMPANY
DST #6 LKC 200' 3,725' - 3,760'
Start Test Date: 2009/09/22
Final Test Date: 2009/09/22

PFEIFER #1
Formation: DST #6 LKC 200' 3,725' 3,760'

PFEIFER #1





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1790	1790	PSI
(B)	First Initial Flow Pressure	9	9	PSI
(C)	First Final Flow Pressure	39	39	PSI
(D)	Initial Closed-in Pressure	1198	1198	PSI
(E)	Second Initial Flow Pressure	42	42	PSI
(F)	Second Final Flow Pressure	69	69	PSI
(G)	Final Closed-in Pressure	1179	1179	PSI
(H)	Final Hydrostatic Mud	1788	1788	PSI

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

Company Raymond Oil Company, Inc. Lease & Well No. Pfeifer No. 1

Elevation 2235 KB Formation Lansing/Kansas City (220' Zone) Effective Pay -- Ft. Ticket No. 2597

Date 9-22-09 Sec. 14 Twp. 12S Range 19W County Ellis State Kansas

Test Approved By Kevin L. Kessler Diamond Representative Roger D. Friedly

Formation Test No. 7 Interval Tested from 3,755 ft. to 3,780 ft. Total Depth 3,780 ft.

Packer Depth 3,750 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,755 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,736 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,777 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Murfin Drilling Company, Inc. - Rig 16 Drill Collar Length 31 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.4 cc. Drill Pipe Length 3,691 ft. I.D. 3 1/2 in.

Chlorides 4,800 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 25 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 12 mins. No blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing. Off bottom of bucket in 17½ mins. No blow back during shut-in.

Recovered 30 ft. of gas in pipe

Recovered 1 ft. of clean oil = .014230 bbls.

Recovered 35 ft. of oil cut muddy water = .498050 bbls. (Grind out: 4%-oil; 12%-mud; 84%-water)

Recovered 504 ft. of salt water with oil specks = 6.883310 bbls. (Grind out: 100%-water) Chlorides: 42,000 Ppm

Recovered 540 ft. of TOTAL FLUID = 7.395590 bbls.

Remarks Tool Sample Grind Out: 100%-salt water with a scum of oil

Time Set Packer(s) 10:15 ~~A.M.~~ P.M. Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure		(A)	1812 P.S.I.		
Initial Flow Period	Minutes 30	(B)	9 P.S.I.	to (C)	131 P.S.I.
Initial Closed In Period	Minutes 60	(D)	1258 P.S.I.		
Final Flow Period	Minutes 45	(E)	133 P.S.I.	to (F)	255 P.S.I.
Final Closed In Period	Minutes 90	(G)	1248 P.S.I.		
Final Hydrostatic Pressure		(H)	1809 P.S.I.		

Diamond Testing

General information Report

General Information

Company Name RAYMOND OIL COMPANY

Contact	TED MCHENRY		
Well Name	PFEIFER #1	Job Number	
Unique Well ID	DST #7 LKC 220' 3,755' - 3,780'	Representative	ROGER D. FRIEDLY
Surface Location	SEC 14-12S-19W ELLIS COUNTY	Well Operator	RAYMOND OIL COMPANY
Well License Number		Report Date	2009/09/23
Field	WILDCAT	Prepared By	ROGER D. FRIEDLY
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #7 LKC 220' 3,755' - 3,780'		
Well Fluid Type	06 Water	Start Test Time	20:38:00
		Final Test Time	04:06:00
Start Test Date	2009/09/22		
Final Test Date	2009/09/23		
Gauge Name	1150		
Gauge Serial Number			

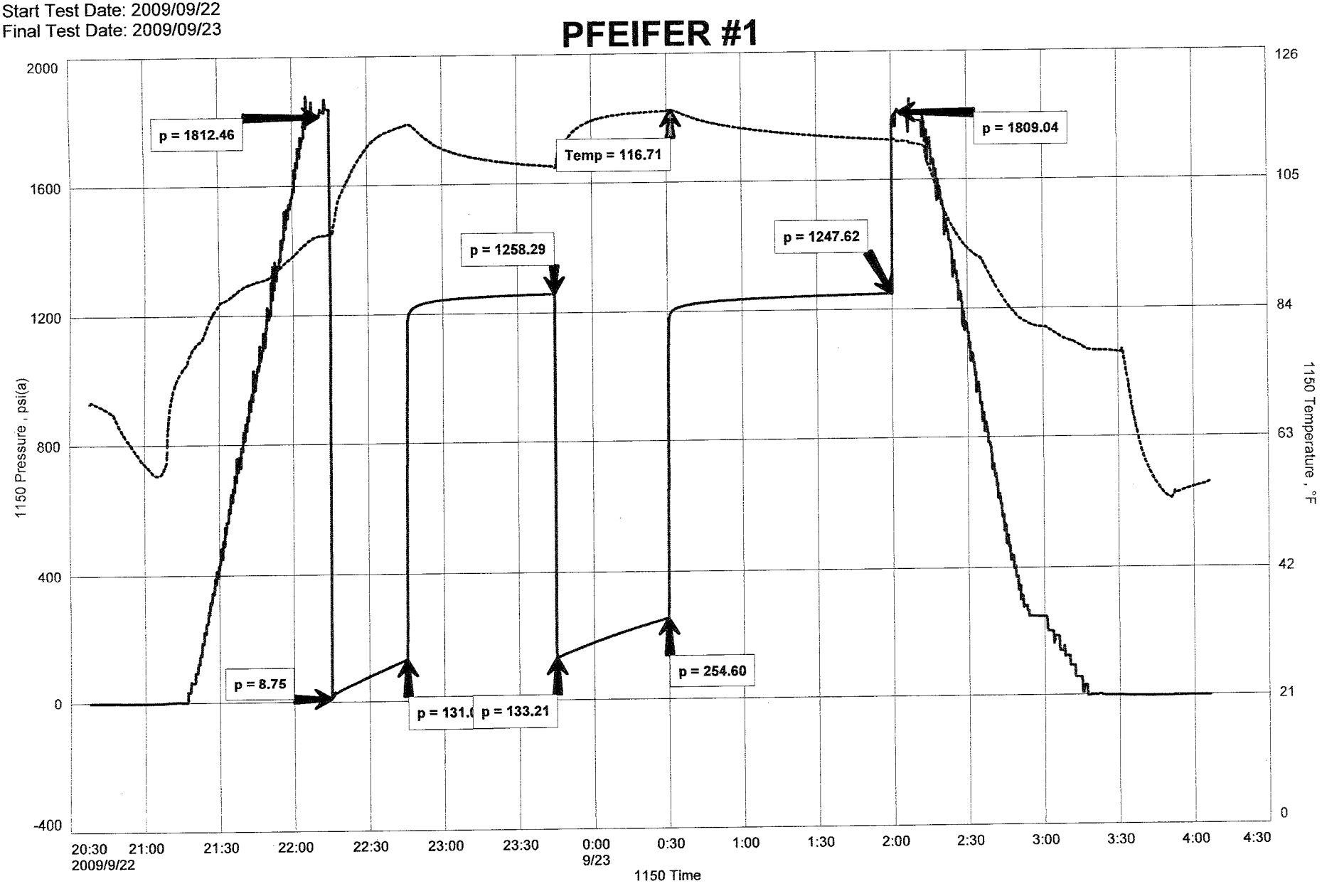
Test Results

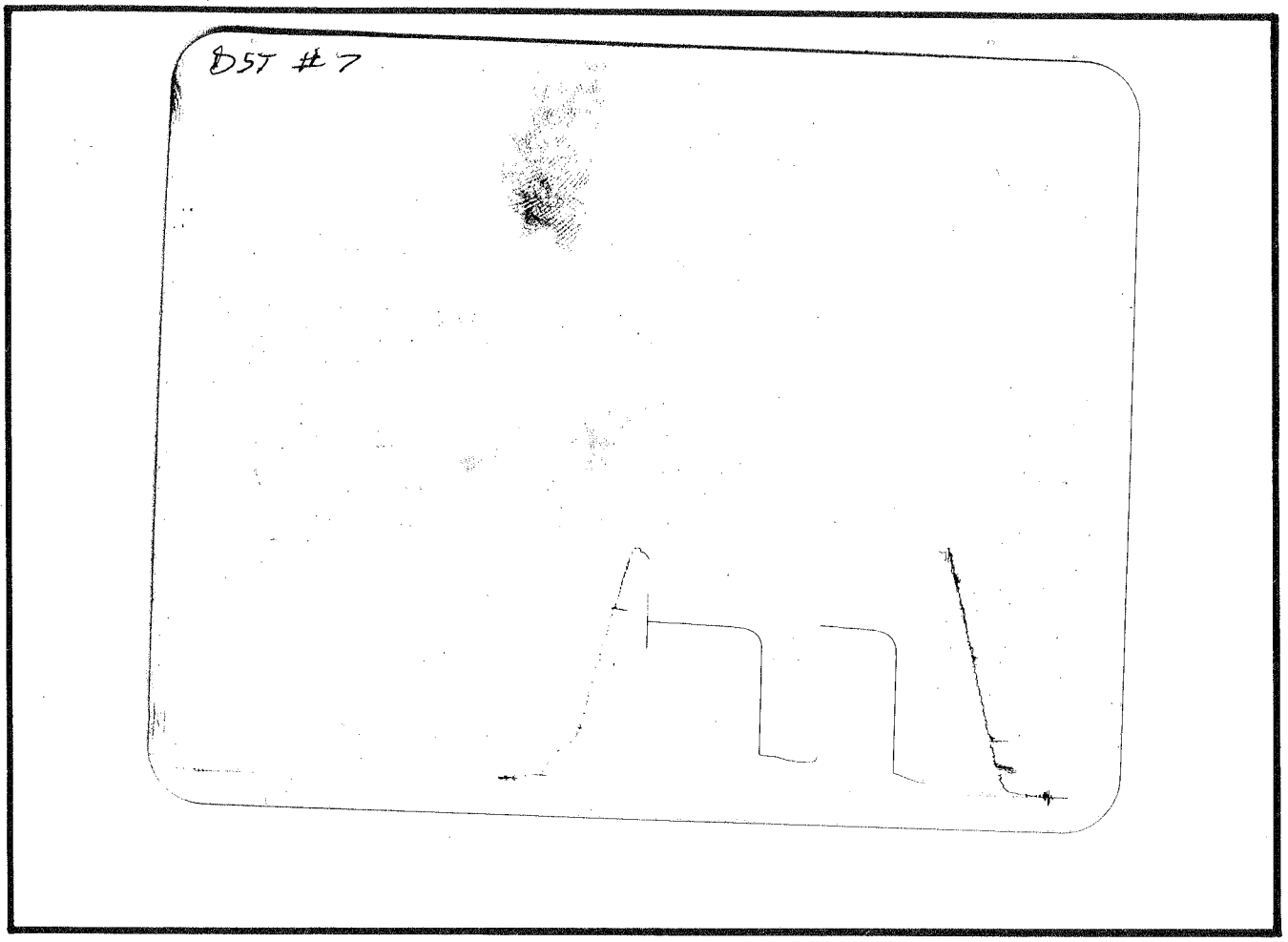
RECOVERED: 30' GAS IN PIPE
1' CLEAN OIL
35' OCMW 4% OIL, 12% MUD, 84% WTR
504' SW 100% WTR - OIL SPECKS CHLORIDES 42,000 Ppm
540' TOTAL FLUID

TOOL SAMPLE: 100% SW WITH SCUM OF OIL

RAYMOND OIL COMPANY
DST #7 LKC 220' 3,755' - 3,780'
Start Test Date: 2009/09/22
Final Test Date: 2009/09/23

PFEIFER #1
Formation: DST #7 LKC 220' 3,755' - 3,780'





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1812	1812	PSI
(B)	First Initial Flow Pressure	9	9	PSI
(C)	First Final Flow Pressure	131	131	PSI
(D)	Initial Closed-in Pressure	1258	1258	PSI
(E)	Second Initial Flow Pressure	133	133	PSI
(F)	Second Final Flow Pressure	255	255	PSI
(G)	Final Closed-in Pressure	1248	1248	PSI
(H)	Final Hydrostatic Mud	1809	1809	PSI