

DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
LudwigA1-32DST1

Page 1 of 2 Page

Company Trans Pacific Oil Corporation Lease & Well No. Ludwig "A" No. 1-32
Elevation 1941 Est Formation Upper Lansing Effective Pay Ft. Ticket No. RR090
Date 9-23-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas
Test Approved By Alex Chapin Diamond Representative Ricky Ray

Formation Test No. 1 Interval Tested from 3,161 ft. to 3,248 ft. Total Depth 3,248 ft.
Packer Depth 3,156 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,161 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,151 ft. Recorder Number 0062 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,229 ft. Recorder Number 5954 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 9 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 52 Weight Pipe Length ft I.D. in.
Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3,138 ft I.D. 3 1/2 in.
Chlorides 4,700 P.P.M. Test Tool Length 23 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 24' perf. w/ 63' 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, surface blow increasing to 3 1/4 ins. in 30 mins. No blow back during shut-in.

2nd Open: No blow increasing to 1 3/4 ins. in 60 mins. No blow back during shut-in.

Recovered 65 ft. of mud = .924950 bbls. (Grind out: 100%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 7:00 P.M. Time Started off Bottom 11:15 P.M. Maximum Temperature 107°
Initial Hydrostatic Pressure.....(A) 1548 P.S.I.
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 27 P.S.I.
Initial Closed In Period.....Minutes 75 (D) 705 P.S.I.
Final Flow Period.....Minutes 60 (E) 27 P.S.I. to (F) 43 P.S.I.
Final Closed In Period.....Minutes 90 (G) 319 P.S.I.
Final Hydrostatic Pressure.....(H) 1571 P.S.I.



Diamond Testing LC

P.O. Box 157

Hoisington KS 67544

Ricky Ray - Tester
(620) 617-7261

Wellsite Report

General Information

Company Name	Trans Pacific Corporation
Contact	Beth A Isern
Well Operator	Trans Pacific Corporation
Well Name	Ludwig A 1-32
Surface Location	Sec: 32-16s-13w (Barton County)
Field	Trapp
Well Type	Vertical
Pool	Pool Ext
Test Purpose (AEUB)	Initial Test
Qualified By	Alex Chapin
Gauge Name	0062

Test Information

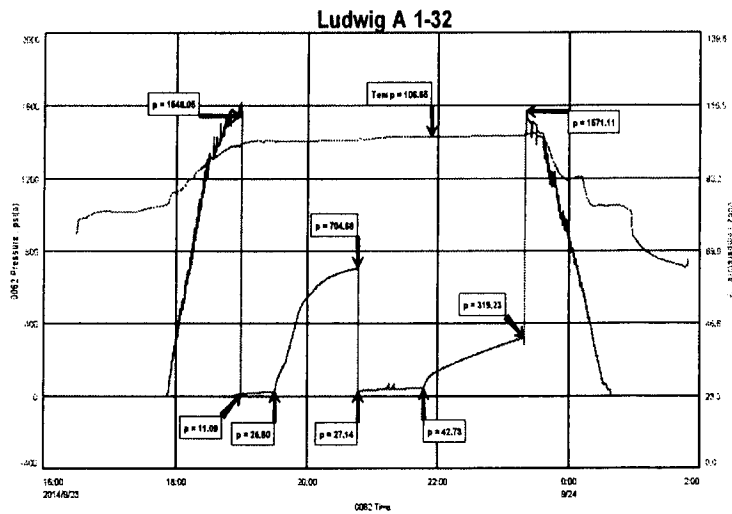
Job Number	RR090
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Upper Lan (3161-3248)
Start Test Date	2014/09/23
Start Test Time	16:29:00
Final Test Date	2014/09/24
Final Test Time	01:48:00

Test Results

Recovery:

65' M 100% M

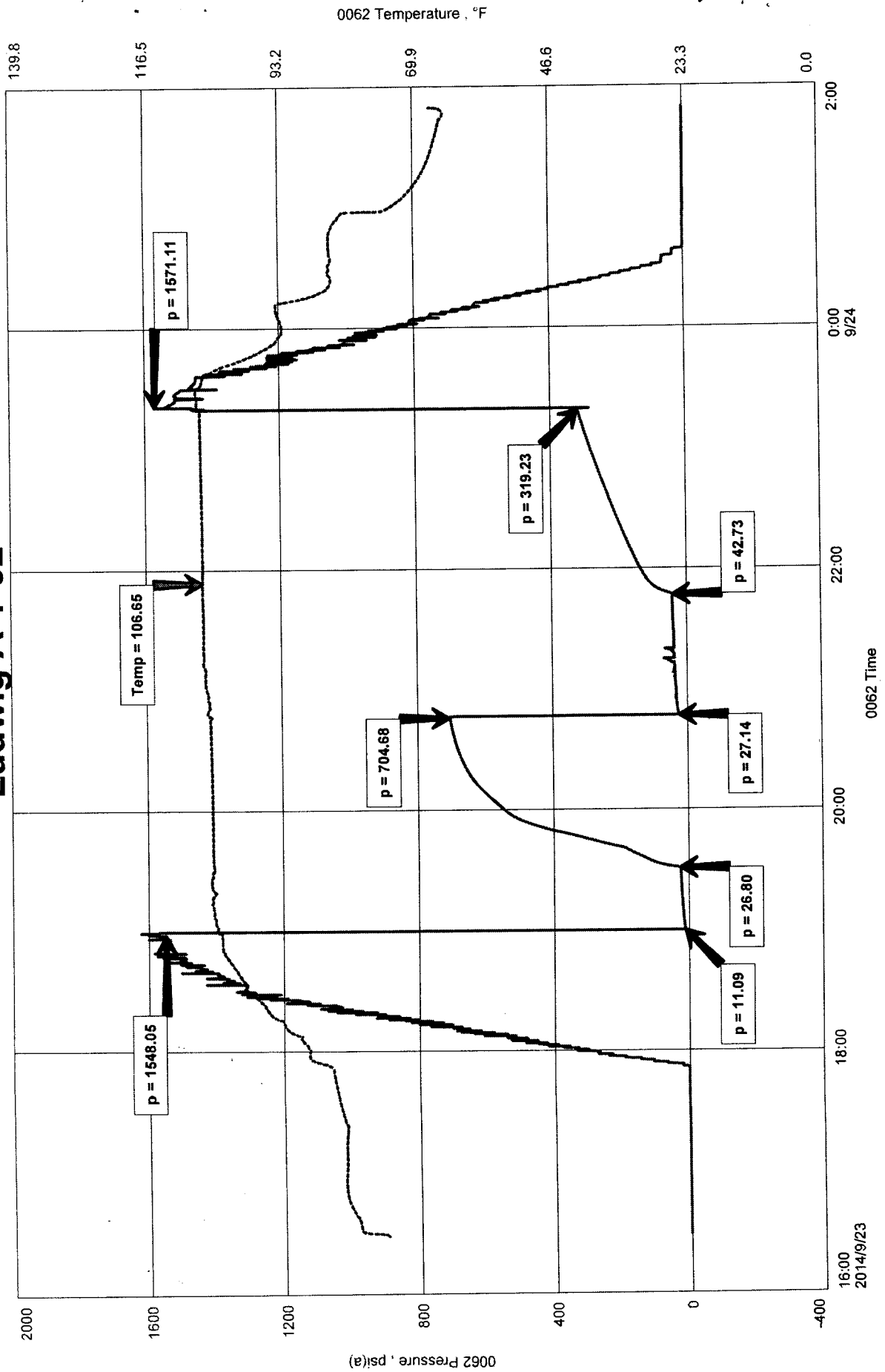
Tool Sample: 100% M

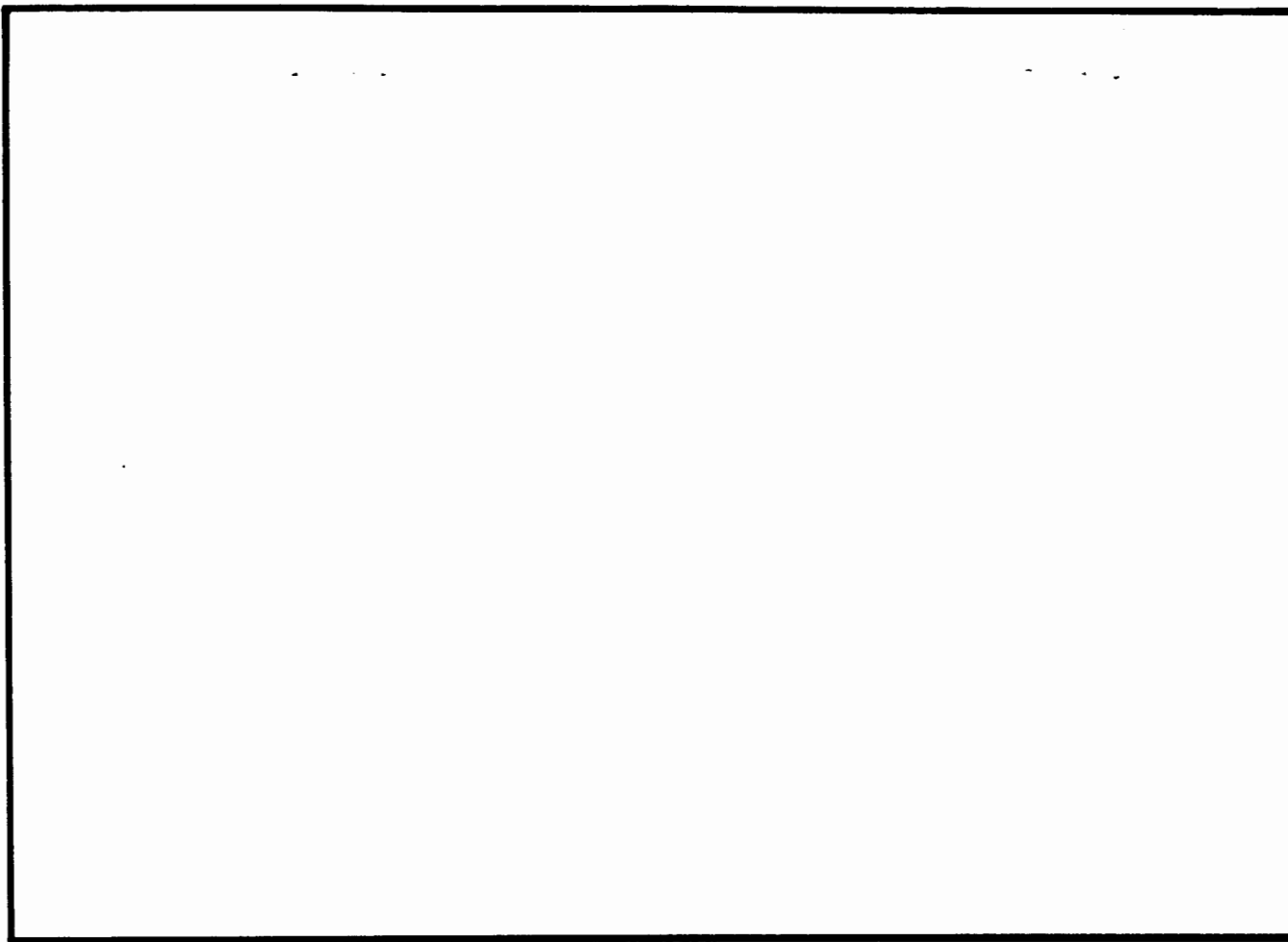


Trans Pacific Corporation
Dst 1 Upper Lan (3161-3248)
Start Test Date: 2014/09/23
Final Test Date: 2014/09/24

Ludwig A 1-32
Formation: Dst 1 Upper Lan (3161-3248)
Pool: Pool Ext
Job Number: RR090

Ludwig A 1-32





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Electronic Reading	
(A) Initial Hydrostatic Mud	1548	PSI
(B) First Initial Flow Pressure	11	PSI
(C) First Final Flow Pressure	27	PSI
(D) Initial Closed-in Pressure	705	PSI
(E) Second Initial Flow Pressure	27	PSI
(F) Second Final Flow Pressure	43	PSI
(G) Final Closed-in Pressure	319	PSI
(H) Final Hydrostatic Mud	1571	PSI



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
LudwigA1-32DST2

Page 1 of 2 Page

Company Trans Pacific Oil Corporation Lease & Well No. Ludwig "A" No. 1-32
Elevation 1941 Est Formation Lansing "H-I" Effective Pay Ft. Ticket No. RR091
Date 9-24-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas
Test Approved By Alex Chapin Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 3,260 ft. to 3,318 ft. Total Depth 3,318 ft.
Packer Depth 3,255 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,260 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,250 ft. Recorder Number 0062 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,297 ft. Recorder Number 5954 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 9 Drill Collar Length ft. I.D. in.
Mud Type Chemical Viscosity 59 Weight Pipe Length ft. I.D. in.
Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 3,237 ft. I.D. 3 1/2 in.
Chlorides 6,700 P.P.M. Test Tool Length 23 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 26' 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: 1/4 in. blow increasing. Off bottom of bucket in 4 1/4 mins. Weak, 1 1/4 in. blow back during shut-in.

2nd Open: 3/4 in. blow increasing. Off bottom of bucket in 3 mins. Weak, 2 in. blow back during shut-in.

Recovered 1,798 ft. of gas in pipe
Recovered 62 ft. of oil = .882260 bbls. (Grind out: 100%-oil) Gravity: 40 @ 60°
Recovered 186 ft. of mud cut, gassy oil = 2.646780 bbls. (Grind out: 30%-gas; 40%-oil; 20%-mud)
Recovered 248 ft. of TOTAL FLUID = 3.529040 bbls.
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 65%-oil; 35%-mud

Time Set Packer(s) 2:40 P.M. Time Started off Bottom 6:55 P.M. Maximum Temperature 108°
Initial Hydrostatic Pressure.....(A) 1629 P.S.I.
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 51 P.S.I.
Initial Closed In Period.....Minutes 75 (D) 475 P.S.I.
Final Flow Period.....Minutes 60 (E) 55 P.S.I. to (F) 95 P.S.I.
Final Closed In Period.....Minutes 90 (G) 470 P.S.I.
Final Hydrostatic Pressure.....(H) 1626 P.S.I.



Diamond Testing

P.O. Box 157

Hoisington KS 67544

Ricky Ray - Tester

(620) 617-7261

Wellsite Report

General Information

Company Name	Trans Pacific Corporation
Contact	Beth A Isern
Well Operator	Trans Pacific Corporation
Well Name	Ludwig A 1-32
Surface Location	Sec: 32-16s-13w (Barton County)
Field	Trapp
Well Type	Vertical
Pool	Pool Ext
Test Purpose (AEUB)	Initial Test
Qualified By	Alex Chapin
Gauge Name	0062

Test Information

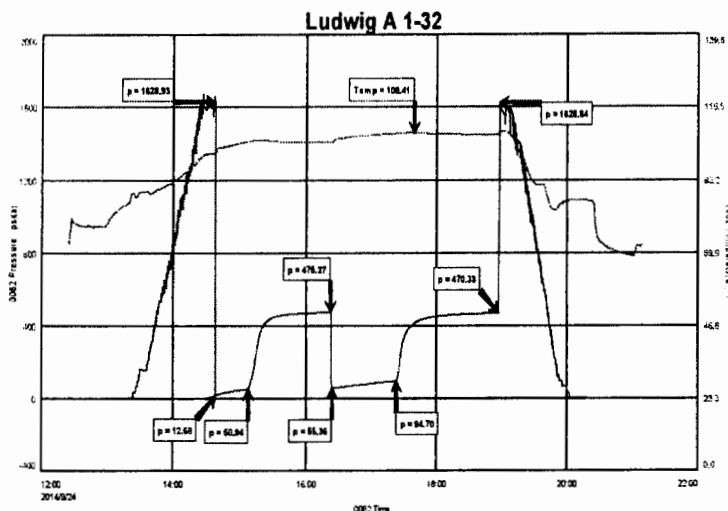
Job Number	RR091
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Lan "H-I" (3260-3318)
Start Test Date	2014/09/24
Start Test Time	12:25:00
Final Test Date	2014/09/24
Final Test Time	21:09:00

Test Results

Recovery:

1798'	GIP			
62'	O	100% O	40 Gravity @ 60 Deg	
186'	MCGO	30% G	40% O	20% M
248'	Total Fluid			

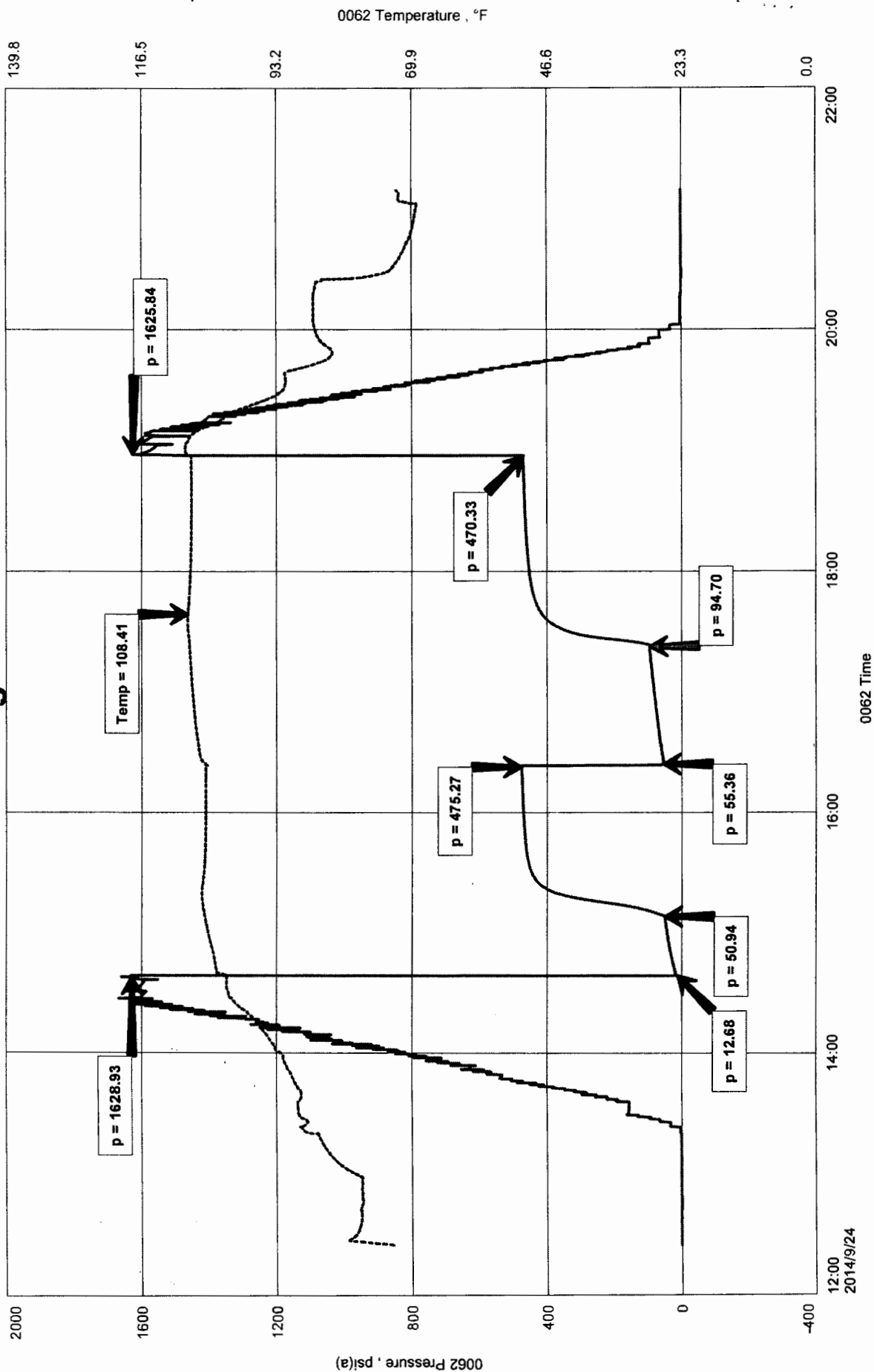
Tool Sample: 65% O 35% M

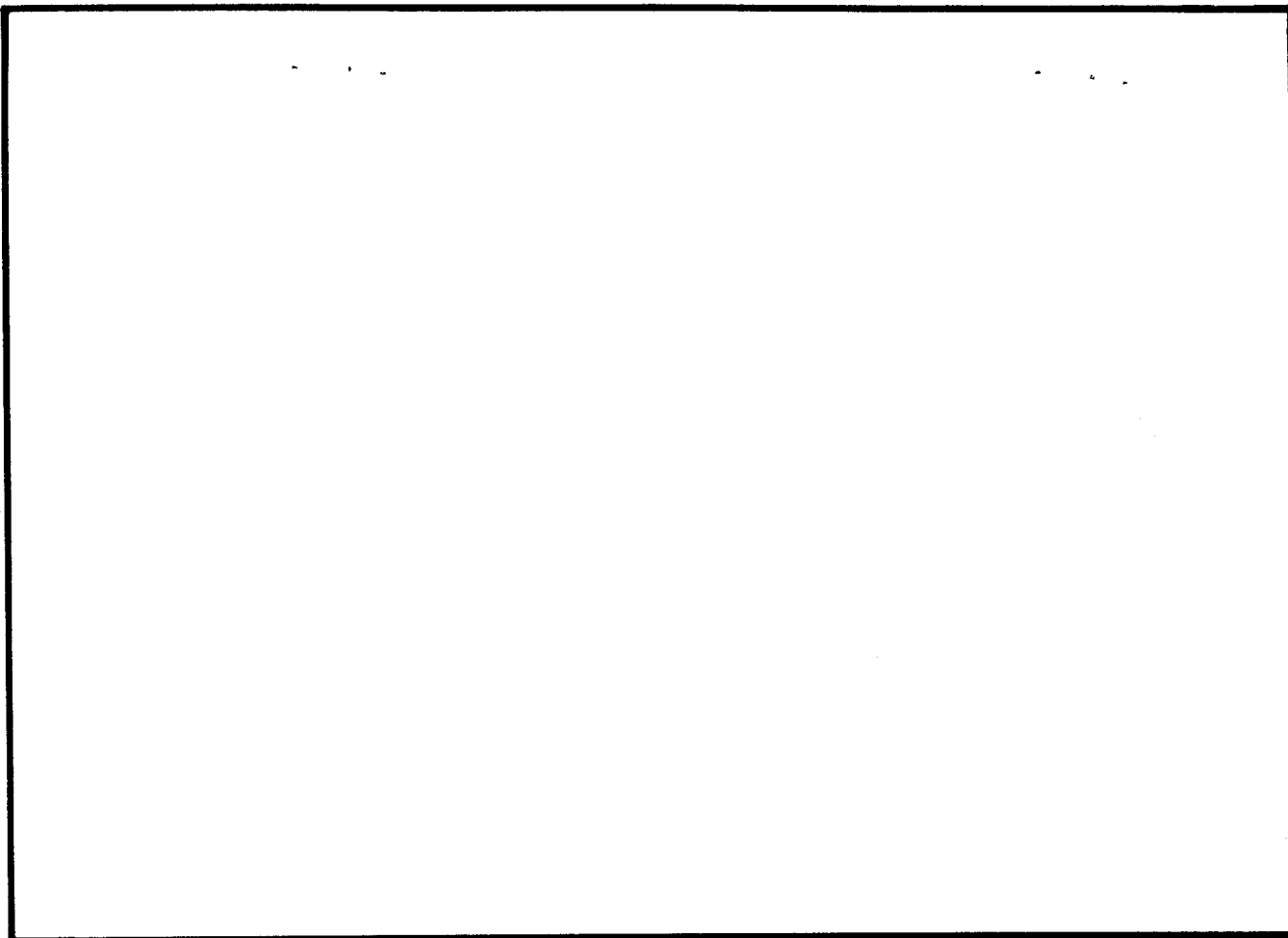


Ludwig A 1-32
Formation: Dst 2 Lan "H-I" (3260-3318)
Pool: Pool Ext
Job Number: RR091

Trans Pacific Corporation
Dst 2 Lan "H-I" (3260-3318)
Start Test Date: 2014/09/24
Final Test Date: 2014/09/24

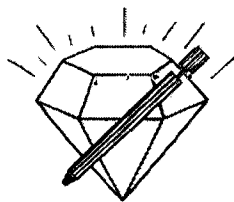
Ludwig A 1-32





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Electronic Reading	
(A) Initial Hydrostatic Mud	1629	PSI
(B) First Initial Flow Pressure	13	PSI
(C) First Final Flow Pressure.....	51	PSI
(D) Initial Closed-in Pressure.....	475	PSI
(E) Second Initial Flow Pressure	55	PSI
(F) Second Final Flow Pressure.....	95	PSI
(G) Final Closed-in Pressure	470	PSI
(H) Final Hydrostatic Mud.....	1626	PSI



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
LudwigA1-32DST3

Page 1 of 2 Page

Company Trans Pacific Oil Corporation Lease & Well No. Ludwig "A" No. 1-32
Elevation 1941 Est Formation Lansing "J-K" Effective Pay Ft. Ticket No. RR092
Date 9-25-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas
Test Approved By Alex Chapin Diamond Representative Ricky Ray

Formation Test No. 3 Interval Tested from 3,314 ft. to 3,360 ft. Total Depth 3,360 ft.
Packer Depth 3,309 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,314 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,304 ft. Recorder Number 0062 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,351 ft. Recorder Number 5954 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 9 Drill Collar Length ft. I.D. in.
Mud Type Chemical Viscosity 59 Weight Pipe Length ft. I.D. in.
Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3,291 ft. I.D. 3 1/2 in.
Chlorides 6,200 P.P.M. Test Tool Length 23 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 14' 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: 1/4 in. blow increasing to 4 1/2 ins. in 30 mins. No blow back during shut-in.

2nd Open: 1/4 in. blow increasing to 7 1/2 ins. in 60 mins. No blow back during shut-in.

Recovered 253 ft. of gas in pipe

Recovered 4 ft. of oil = .056920 bbls. (Grind out: 100%-oil) Gravity: 26 @ 60°

Recovered 53 ft. of oil cut mud = .754190 bbls. (Grind out: 22%-oil; 78%-mud)

Recovered 57 ft. of TOTAL FLUID = .811110 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 42%-oil; 58%-mud

Time Set Packer(s) 8:21 A.M. Time Started off Bottom 12:36 P.M. Maximum Temperature 107°
Initial Hydrostatic Pressure.....(A) 1593 P.S.I.
Initial Flow Period.....Minutes 30 (B) 9 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period.....Minutes 75 (D) 403 P.S.I.
Final Flow Period.....Minutes 60 (E) 26 P.S.I. to (F) 34 P.S.I.
Final Closed In Period.....Minutes 90 (G) 382 P.S.I.
Final Hydrostatic Pressure.....(H) 1621 P.S.I.



Diamond Testing LLC

P.O. Box 157

Hoisington KS 67544

Ricky Ray - Tester
(620) 617-7261

Wellsite Report

General Information

Company Name	Trans Pacific Corporation
Contact	Beth A Isern
Well Operator	Trans Pacific Corporation
Well Name	Ludwig A 1-32
Surface Location	Sec: 32-16s-13w (Barton County)
Field	Trapp
Well Type	Vertical
Pool	Pool Ext
Test Purpose (AEUB)	Initial Test
Qualified By	Alex Chapin
Gauge Name	0062

Test Information

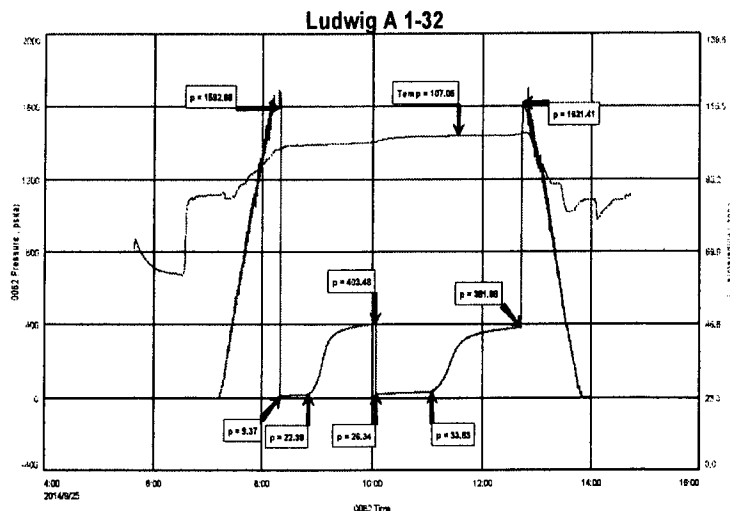
Job Number	RR092
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 3 Lan "J-K" (3314-3360)
Start Test Date	2014/09/25
Start Test Time	05:38:00
Final Test Date	2014/09/25
Final Test Time	14:48:00

Test Results

Recovery:

253'	GIP		
4'	O	100 % O	26 Gravity @ 60 Deg
53'	OM	22% O	78% M
57'	Total Fluid		

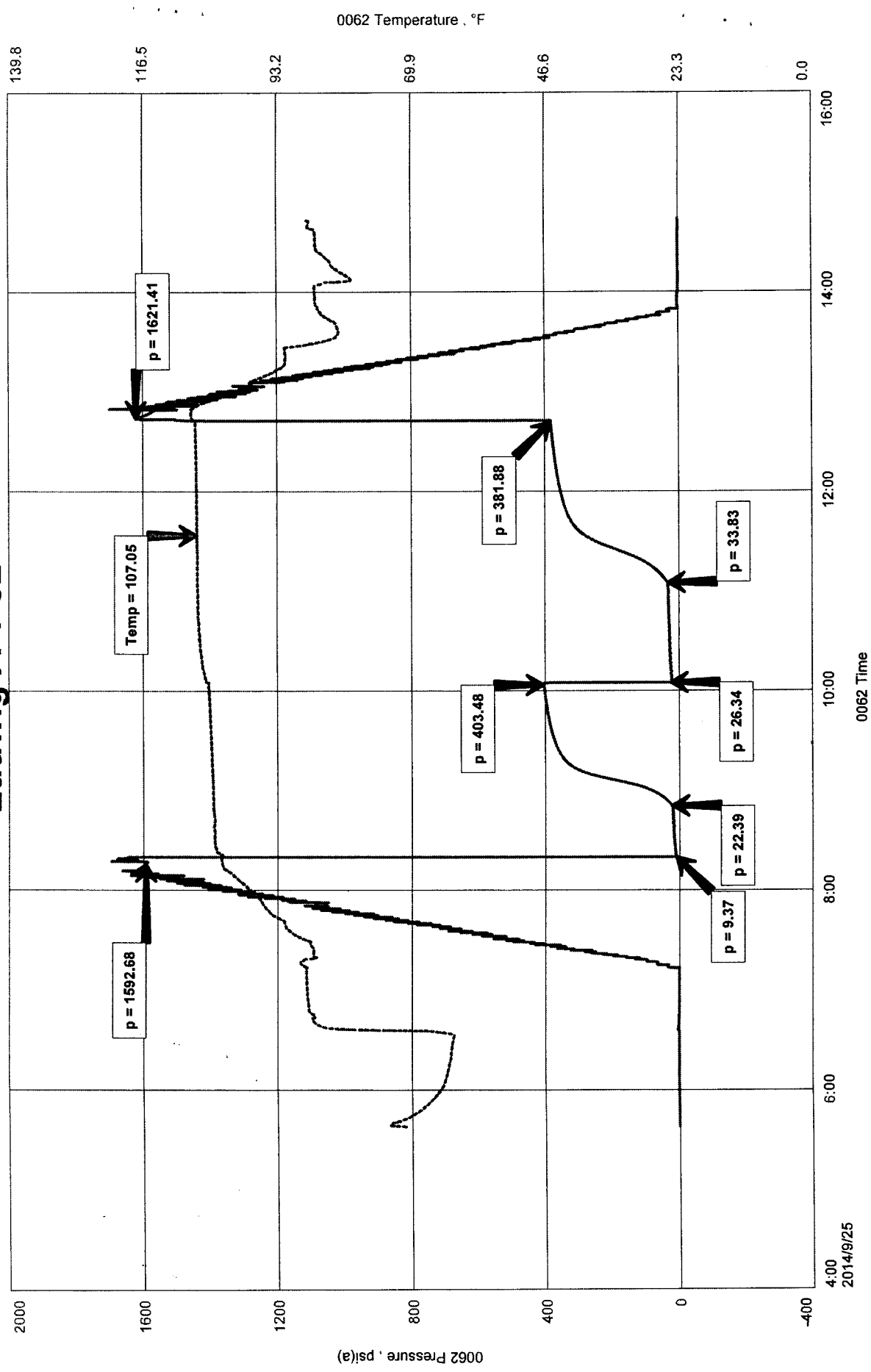
Tool Sample:	42% O	58% M
--------------	-------	-------

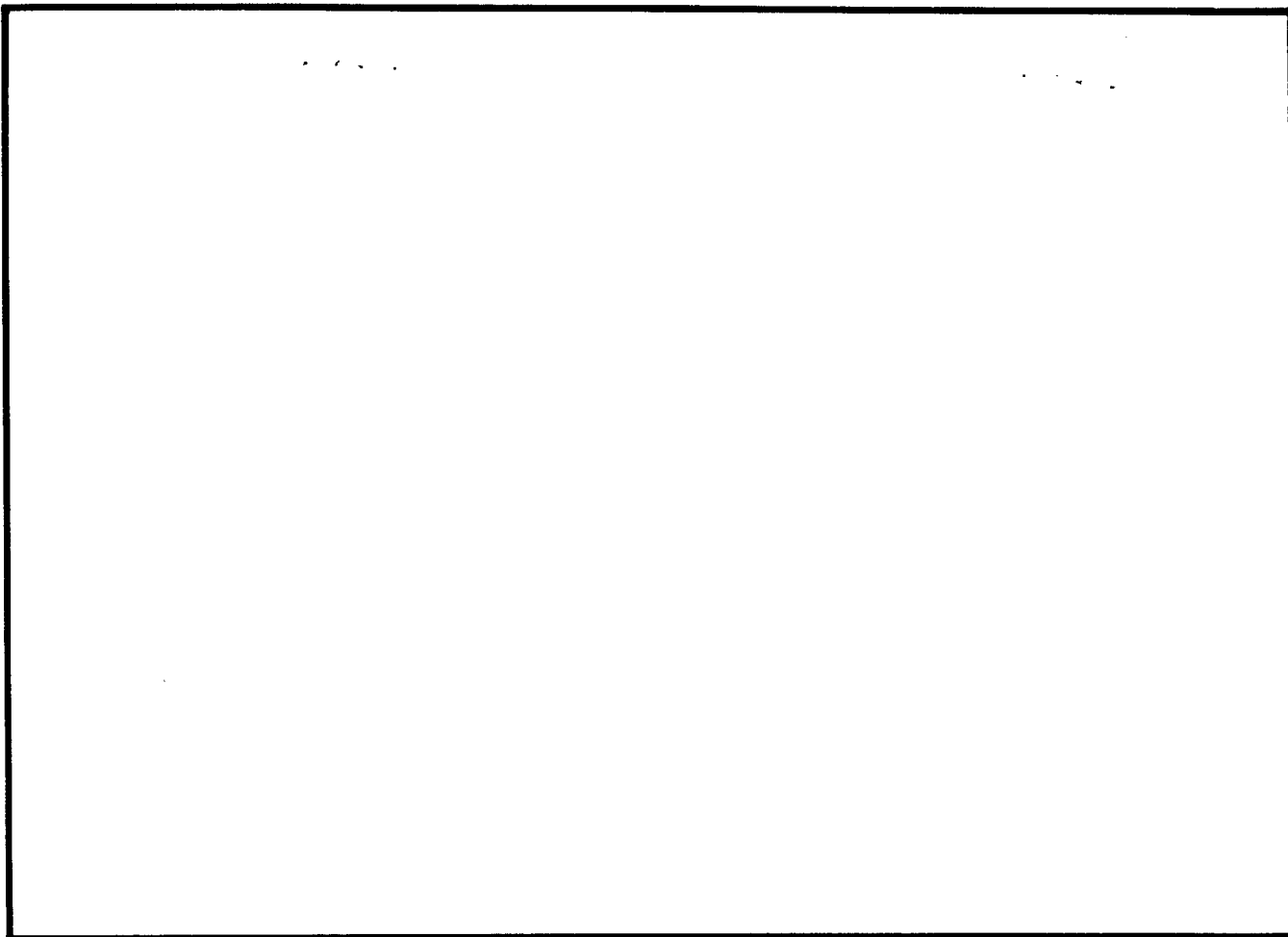


Trans Pacific Corporation
Dst 3 Lan "J-K" (3314-3360)
Start Test Date: 2014/09/25
Final Test Date: 2014/09/25

Ludwig A 1-32
Formation: Dst 3 Lan "J-K" (3314-3360)
Pool: Pool Ext
Job Number: RR092

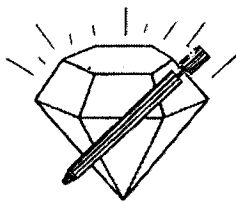
Ludwig A 1-32





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Electronic Reading	
(A) Initial Hydrostatic Mud	1593	PSI
(B) First Initial Flow Pressure	9	PSI
(C) First Final Flow Pressure	22	PSI
(D) Initial Closed-in Pressure	403	PSI
(E) Second Initial Flow Pressure	26	PSI
(F) Second Final Flow Pressure	34	PSI
(G) Final Closed-in Pressure	382	PSI
(H) Final Hydrostatic Mud	1621	PSI



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
LudwigA1-32DST4

Page 1 of 2 Page

Company Trans Pacific Oil Corporation Lease & Well No. Ludwig "A" No. 1-32
Elevation 1941 Est Formation Arbuckle Effective Pay Ft. Ticket No. RR093
Date 9-26-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas
Test Approved By Alex Chapin Diamond Representative Ricky Ray

Formation Test No. 4 Interval Tested from 3,359 ft. to 3,386 ft. Total Depth 3,386 ft.
Packer Depth 3,354 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,359 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,349 ft. Recorder Number 0062 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,363 ft. Recorder Number 5954 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 9 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 59 Weight Pipe Length ft I.D. in.
Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3,336 ft I.D. 3 1/2 in.
Chlorides 6,200 P.P.M. Test Tool Length 23 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 27 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: 1/4 in. blow increasing to 3 1/4 ins. in 30 mins. No blow back during shut-in.

2nd Open: No blow increasing to 5 ins. in 60 mins. No blow back during shut-in.

Recovered 253 ft. of gas in pipe
Recovered 10 ft. of oil = .142300 bbls. (Grind out: 100%-oil) Gravity: 29 @ 60°
Recovered 2 ft. of slightly oil cut mud = .028460 bbls. (Grind out: 1%-oil; 99%-mud)
Recovered 12 ft. of TOTAL FLUID = .170760 bbls.
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 12%-oil; 88%-mud

Time Set Packer(s) 1:53 A.M. Time Started off Bottom 6:11 A.M. Maximum Temperature 108°
Initial Hydrostatic Pressure.....(A) 1683 P.S.I.
Initial Flow Period.....Minutes 30 (B) 9 P.S.I. to (C) 15 P.S.I.
Initial Closed In Period.....Minutes 75 (D) 1070 P.S.I.
Final Flow Period.....Minutes 60 (E) 16 P.S.I. to (F) 27 P.S.I.
Final Closed In Period.....Minutes 90 (G) 1061 P.S.I.
Final Hydrostatic Pressure.....(H) 1683 P.S.I.

Diamond Testing LLC**P.O. Box 157****Hoisington KS 67544****Ricky Ray - Tester
(620) 617-7261****Wellsite Report****General Information**

Company Name	Trans Pacific Corporation
Contact	Beth A Isern
Well Operator	Trans Pacific Corporation
Well Name	Ludwig A 1-32
Surface Location	Sec: 32-16s-13w (Barton County)
Field	Trapp
Well Type	Vertical
Pool	Pool Ext
Test Purpose (AEUB)	Initial Test
Qualified By	Alex Chapin
Gauge Name	0062

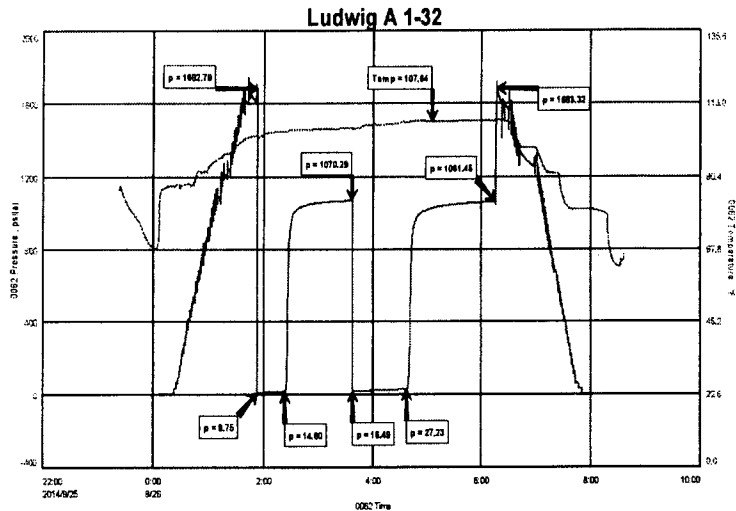
Test Information

Job Number	RR093
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 4 Arbuckle (3359-3386)
Start Test Date	2014/09/25
Start Test Time	23:23:00
Final Test Date	2014/09/26
Final Test Time	08:36:00

Test Results**Recovery:**

50'	GIP		
10'	O	100% O	
2'	SLOCM	1% O	99% M
12'	Total Fluid		

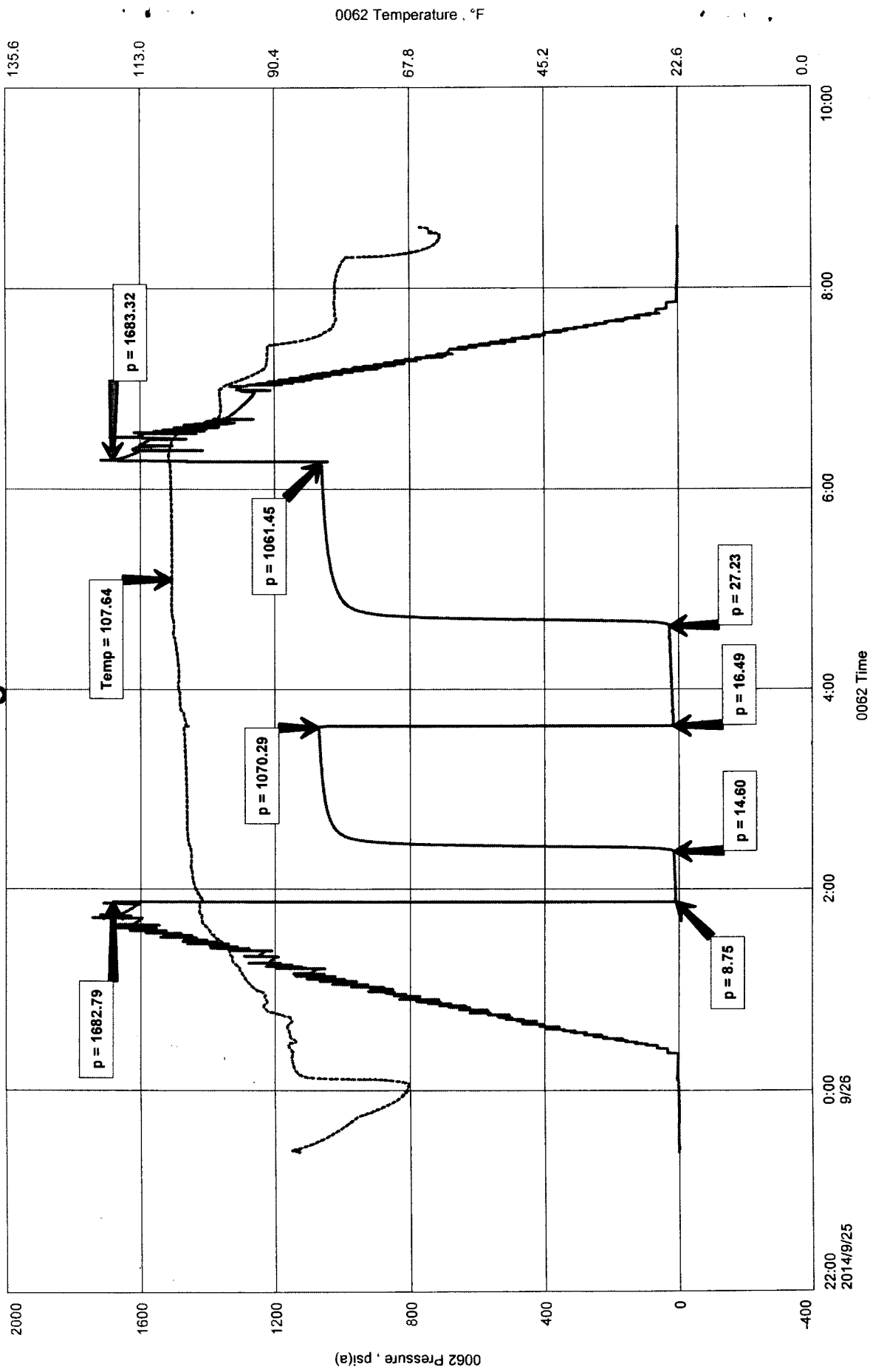
Tool Sample:	12% O	88% M
--------------	-------	-------

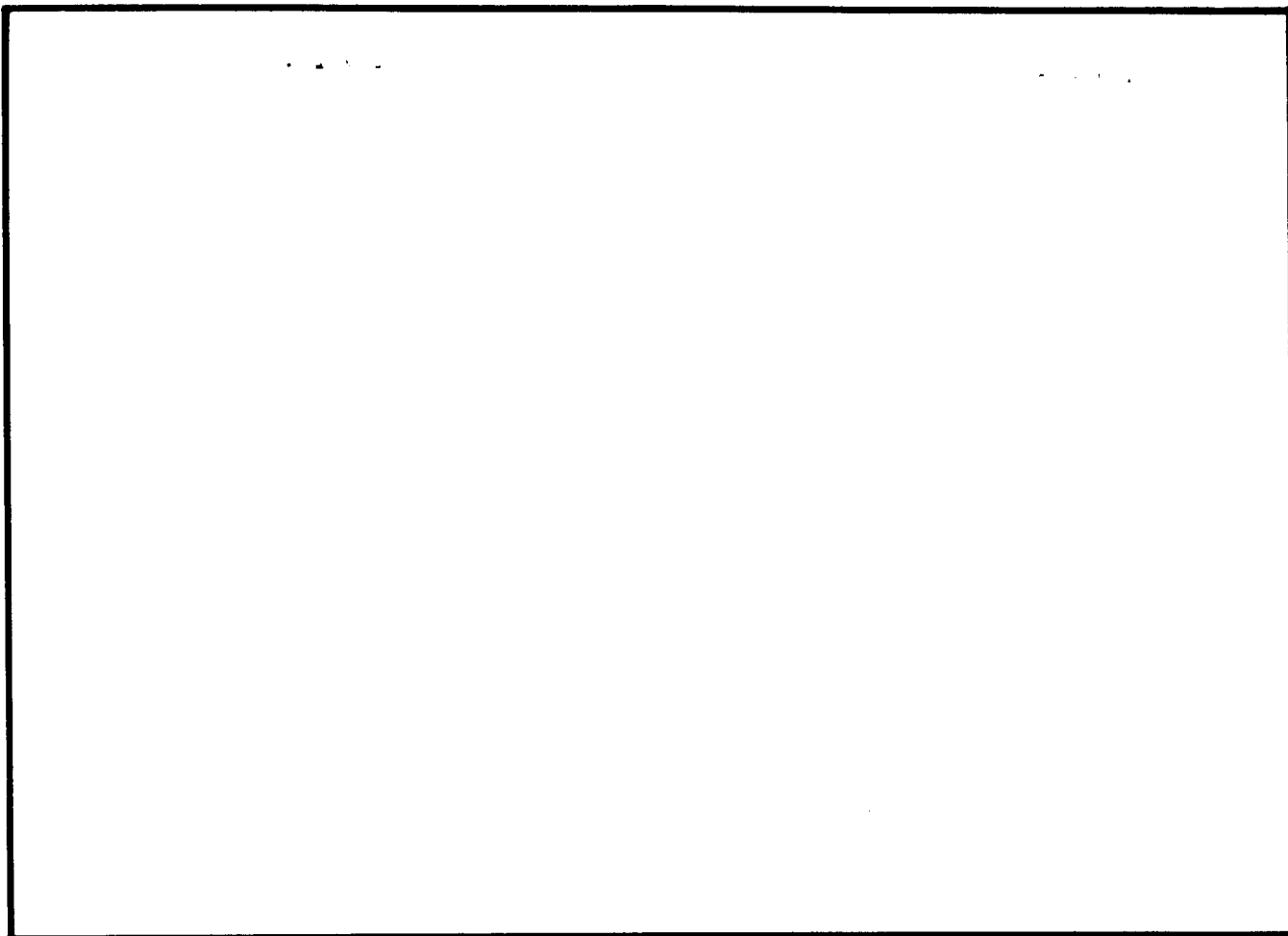


Trans Pacific Corporation
Dst 4 Arbuckle (3359-3386)
Start Test Date: 2014/09/25
Final Test Date: 2014/09/26

Ludwig A 1-32
Formation: Dst 4 Arbuckle (3359-3386)
Pool: Pool Ext
Job Number: RR093

Ludwig A 1-32





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Electronic Reading	
(A) Initial Hydrostatic Mud	1683	PSI
(B) First Initial Flow Pressure	9	PSI
(C) First Final Flow Pressure.....	15	PSI
(D) Initial Closed-in Pressure.....	1070	PSI
(E) Second Initial Flow Pressure	16	PSI
(F) Second Final Flow Pressure.....	27	PSI
(G) Final Closed-in Pressure	1061	PSI
(H) Final Hydrostatic Mud.....	1683	PSI

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b¹	= Approximate Radius of Investigation (Net Pay Zone h¹)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h¹	= Net Pay Thickness	Feet
K	= Permeability	md
K¹	= Permeability (From Net Pay Zone h¹)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	psi/cycle
OF¹	= Maximum Indicated Flow Rate	MCF/D
OF²	= Minimum Indicated Flow Rate	MCF/D
OF³	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF⁴	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^B	= Extrapolated Static Pressure	Psig.
P^F	= Final Flow Pressure	Psig.
P^{OT}	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q¹	= Theoretical Production w/Damage Removed	bbls/day
Q^g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r^w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t^o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
u	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.