15-009-25623

22-18s-11w

# DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30044.D237



Company RJM Company — Lease & Well No. Roy Robl No. 1

Elevation 1789 EGL — Formation Lansing "A" - "F" — Effective Pay -- Ft. — Ticket No. M237

Date 10-24-11 — Sec. 22 — Twp. 18S — Range 11W — County Barton — State Kansas

Test Approved By James C. Musgrove — Diamond Representative Michael Cochran

Formation Test No. 1 — Interval Tested from 3,037 ft. to 3,128 ft. — Total Depth 3,128 ft.

Packer Depth 3,032 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 3,037 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,026 ft. — Recorder Number 30044 — Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,125 ft. — Recorder Number 13386 — Cap. 3,875 psi

Below Straddle Recorder Depth ft. — Recorder Number — Cap. psi

Drilling Contractor Southwind Drilling, Inc. - Rig 2 — Drill Collar Length -- ft. — I.D. -- in.

Mud Type Chemical — Viscosity 65 — Weight Pipe Length -- ft. — I.D. -- in.

Weight 8.8 — Water Loss 7.2 cc. — Drill Pipe Length 3,012 ft. — I.D. 3 1/2 in.

Chlorides 1,800 P.P.M. — Test Tool Length 25 ft. — Tool Size 3 1/2 - IF in.

Jars: Make Sterling — Serial Number Not Run — Anchor Length 29' perf. w/ 62' 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: Good surface blow. Off bottom of bucket in 5 mins. No blow back during shut-in.
2nd Open: Good, surface blow. Off bottom of bucket immediately. No blow back during shut-in.

Recovered 630 ft. of gas in pipe

Recovered 63 ft. of slightly oil specked gassy mud = .896490 bbls. (Grind out: 17%-gas; 1%-oil; 82%-mud)

Recovered 63 ft. of TOTAL FLUID = .896490 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 10%-gas; 90%-mud with a thick scum of oil

Time Set Packer(s) 10:15 ~~P~~A.M. — Time Started Off Bottom 1:00 ~~X~~P.M. — Maximum Temperature 100°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1444 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 14 | P.S.I. to (C) | 23 | P.S.I. |
| Initial Closed In Period | Minutes 30 | (D) | 421 | P.S.I. | | |
| Final Flow Period | Minutes 45 | (E) | 28 | P.S.I. to (F) | 34 | P.S.I. |
| Final Closed In Period | Minutes 60 | (G) | 603 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1429 | P.S.I. | | |

# DIAMOND TESTING



## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | R.J.M. | Job Number | M237 |
| Well Name | ROY ROBL #1 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#1 3037-3128 LANSING A-F | Well Operator | R.J.M. |
| Surface Location | SEC.22-18S-11W BARTON CO.KS. | Report Date | 2011/10/24 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | JIM MUSGROVE |
| | | Test Unit | NO. 1 |

## Test Information

| | |
|---|---|
| Test Type | CONVENTIONAL |
| Formation | DST#1 3037-3128 LANSING A-F |
| Test Purpose (AEUB) | Initial Test |

| | | | |
|---|---|---|---|
| Start Test Date | 2011/10/24 | Start Test Time | 08:30:00 |
| Final Test Date | 2011/10/24 | Final Test Time | 14:40:00 |
| | | Well Fluid Type | 01 Oil |

| | |
|---|---|
| Gauge Name | 30044 |
| Gauge Serial Number | |

## Test Results

Remarks

RECOVERED:

630' GIP

63' SOSGM 17% GAS, 1% OIL, 82% MUD

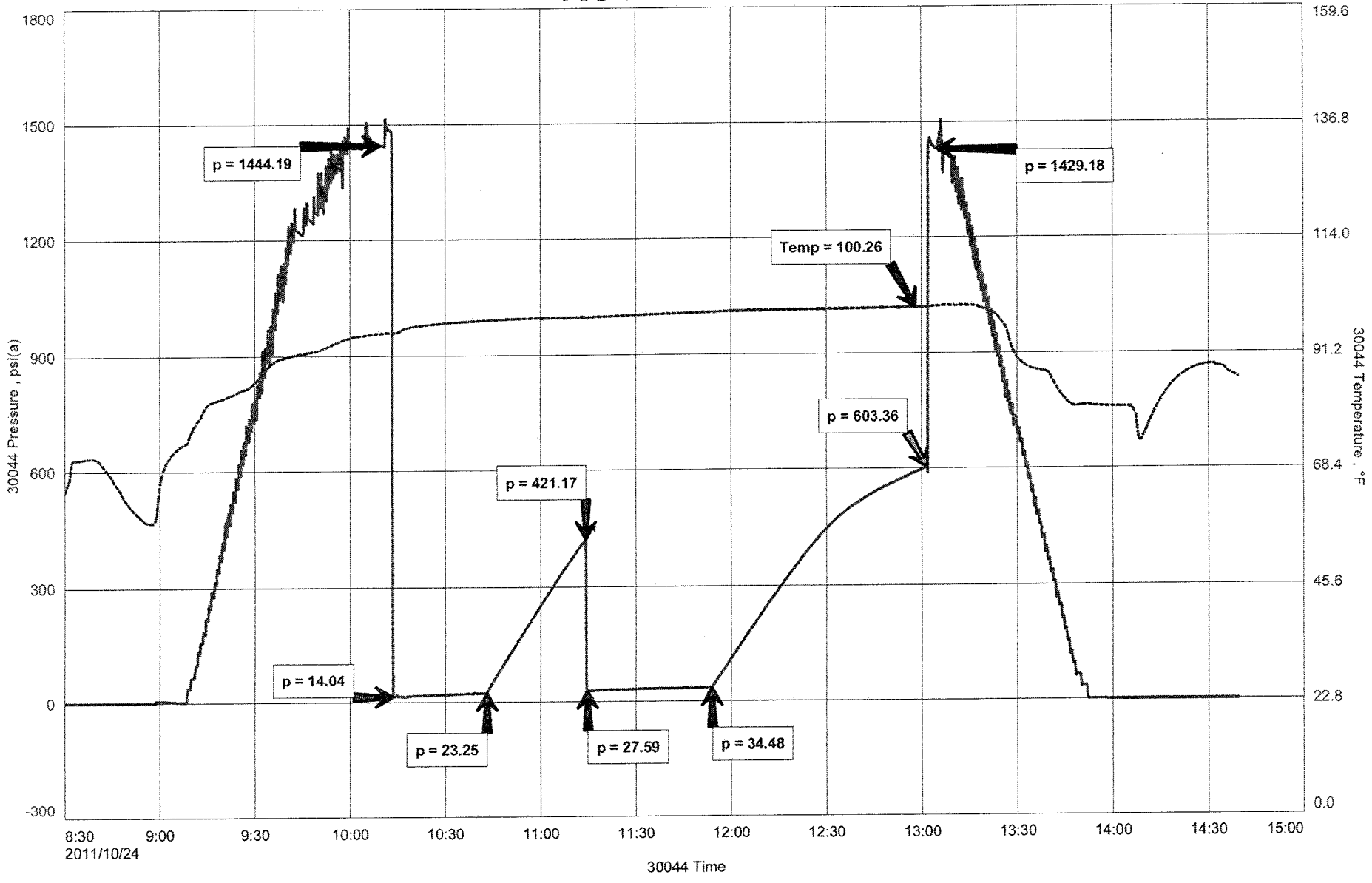
63' TOTAL FLUID

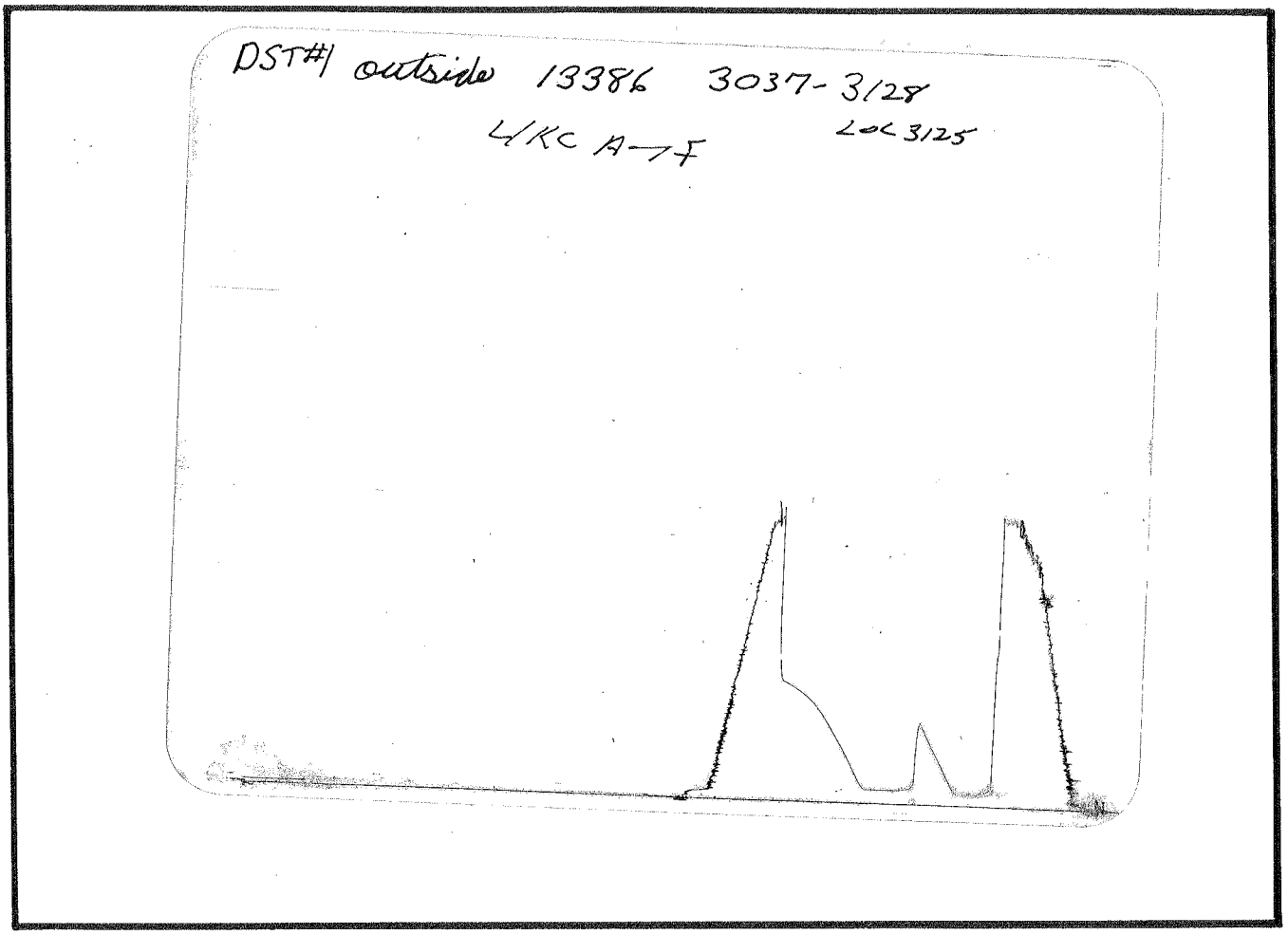
**TOOL SAMPLE:** 10%GAS, 90% MUD, A THICK SCUM OF OIL

R.J.M.
DST#1 3037-3128 LANSING A-F
Start Test Date: 2011/10/24
Final Test Date: 2011/10/24

ROY ROBL #1
Formation: DST#1 3037-3128 LANSING A-F
Pool: WILDCAT
Job Number: M237

# ROY ROBL #1






This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Elec. Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1444 | 1444 | PSI |
| (B) | First Initial Flow Pressure | 14 | 14 | PSI |
| (C) | First Final Flow Pressure | 23 | 23 | PSI |
| (D) | Initial Closed-in Pressure | 421 | 421 | PSI |
| (E) | Second Initial Flow Pressure | 28 | 28 | PSI |
| (F) | Second Final Flow Pressure | 34 | 34 | PSI |
| (G) | Final Closed-in Pressure | 603 | 603 | PSI |
| (H) | Final Hydrostatic Mud | 1429 | 1429 | PSI |

# DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30044.D238




Company RJM Company — Lease & Well No. Roy Robl No. 1

Elevation 1789 EGL — Formation Lower Lansing — Effective Pay -- Ft. — Ticket No. M238

Date 10-25-11 — Sec. 22 — Twp. 18S — Range 11W — County Barton — State Kansas

Test Approved By James C. Musgrove — Diamond Representative Michael Cochran

Formation Test No. 2 — Interval Tested from 3,196 ft. to 3,260 ft. — Total Depth 3,260 ft.

Packer Depth 3,191 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 3,196 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,185 ft. — Recorder Number 30044 — Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,257 ft. — Recorder Number 13386 — Cap. 3,875 psi

Below Straddle Recorder Depth ft. — Recorder Number — Cap. psi

Drilling Contractor Southwind Drilling, Inc. - Rig 2 — Drill Collar Length -- ft. — I.D. -- in.

Mud Type Chemical — Viscosity 51 — Weight Pipe Length -- ft. — I.D. -- in.

Weight 8.9 — Water Loss 8.0 cc. — Drill Pipe Length 3,171 ft. — I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. — Test Tool Length 25 ft. — Tool Size 3 1/2 - IF in.

Jars: Make Sterling — Serial Number Not Run — Anchor Length 32' 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: Good, surface blow. Off bottom of bucket in 1½ mins. No blow back during shut-in.
2nd Open: Good, surface blow. Off bottom of bucket in 45 secs. Gas to surface at shut-in. Gas did burn. No blow back during shut-in.

Recovered 30 ft. of clean oil = .426900 bbls. (Grind out: 100%-oil) Gravity: 36 @ 60°

Recovered 120 ft. of gassy muddy oil = 1.707600 bbls. (Grind out: 4%-gas; 82%-oil; 14%-mud)

Recovered 150 ft. of TOTAL FLUID = 2.134500 bbls.

Recovered ft. of

Recovered ft. of

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

Time Set Packer(s) 6:00 A.M. P.M. — Time Started Off Bottom 8:30 A.M. P.M. — Maximum Temperature 102°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1528 | P.S.I. | |
| Initial Flow Period | Minutes 30 | | (B) | 17 | P.S.I. | to (C) 38 P.S.I. |
| Initial Closed In Period | Minutes 30 | | (D) | 670 | P.S.I. | |
| Final Flow Period | Minutes 30 | | (E) | 42 | P.S.I. | to (F) 64 P.S.I. |
| Final Closed In Period | Minutes 60 | | (G) | 645 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1521 | P.S.I. | |

# DIAMOND TESTING



## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | R.J.M. | Job Number | M238 |
| Well Name | ROY ROBL #1 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#2 3196-3260 LOWER LANSING | Well Operator | R.J.M. |
| Surface Location | SEC.22-18S-11W BARTON CO.KS. | Report Date | 2011/10/25 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | JIM MUSGROVE |
| | | Test Unit | NO. 1 |

## Test Information

| | |
|---|---|
| Test Type | CONVENTIONAL |
| Formation | DST#2 3196-3260 LOWER LANSING |
| Test Purpose (AEUB) | Initial Test |

| | | | |
|---|---|---|---|
| Start Test Date | 2011/10/25 | Start Test Time | 04:15:00 |
| Final Test Date | 2011/10/25 | Final Test Time | 10:55:00 |
| | | Well Fluid Type | 01 Oil |

| | |
|---|---|
| Gauge Name | 30044 |
| Gauge Serial Number | |

## Test Results

Remarks

RECOVERED:

**GTS @ SHUT IN, GAS DID BURN**
**30'** CO 100% OIL
120' GMO 4% GAS, 82% OIL, 14% MUD
**150' TOTAL FLUID**

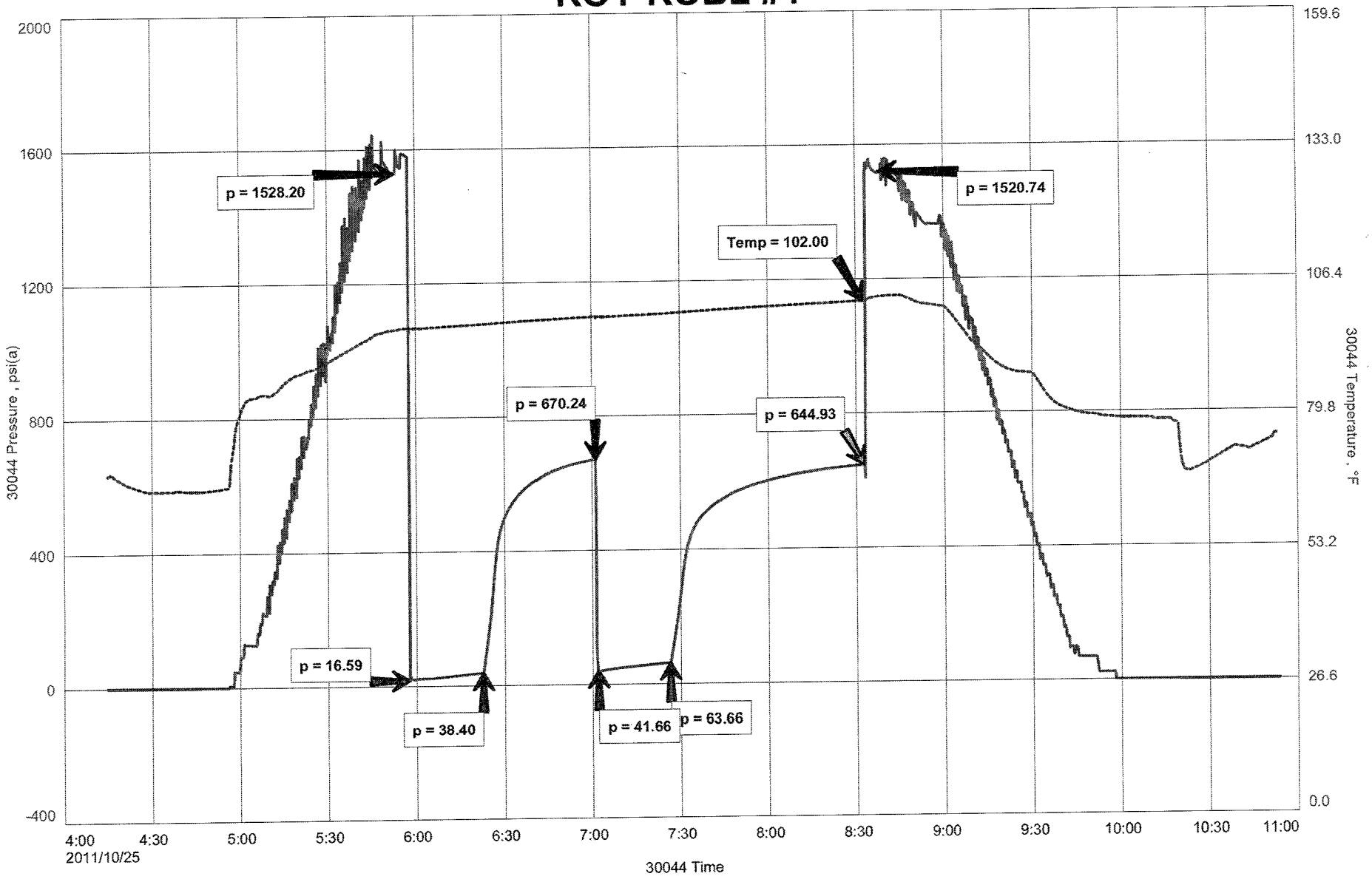
GRAVITY: 36.0 @ 60

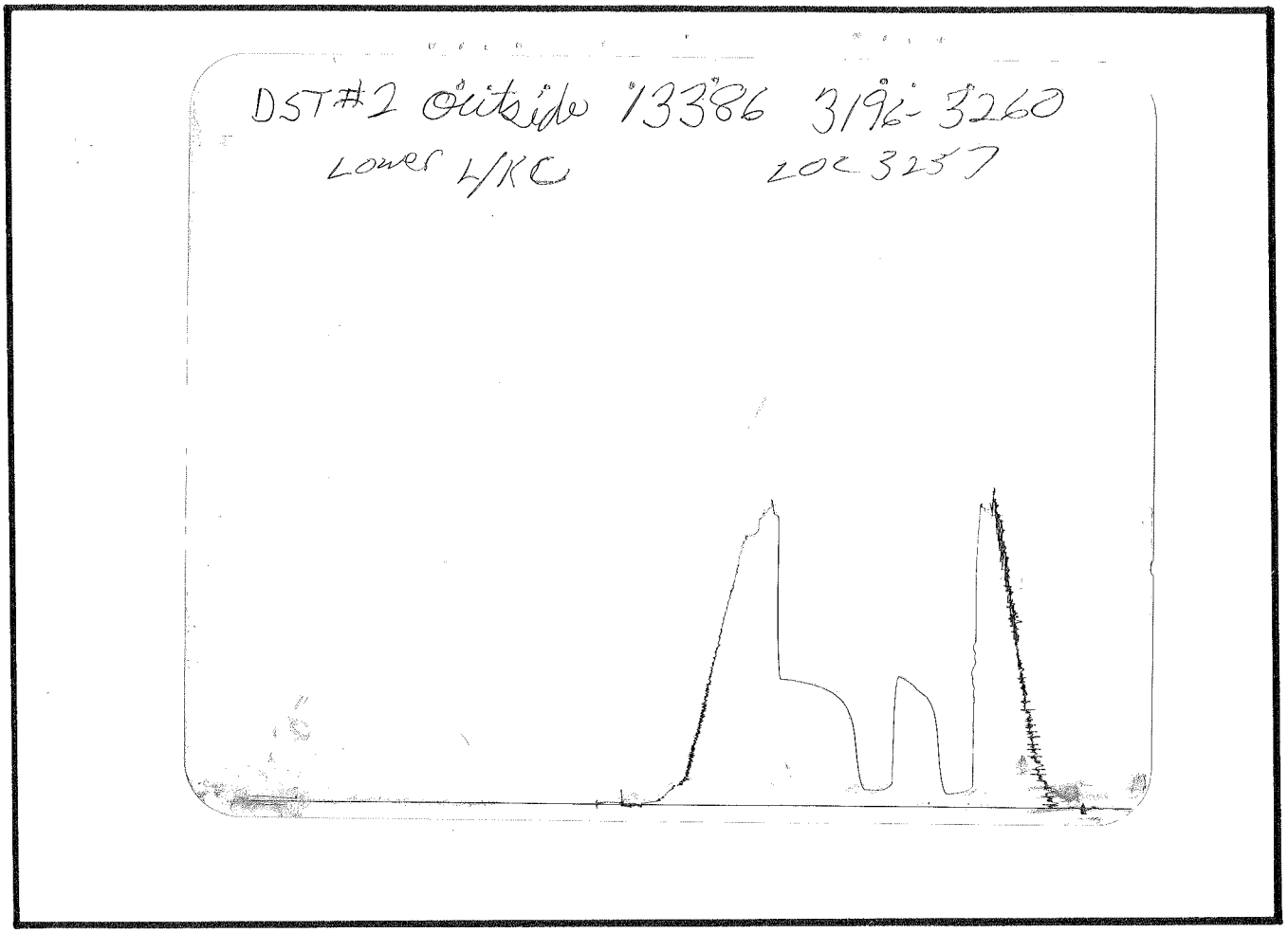
**TOOL SAMPLE:** 90% OIL, 10% MUD

R.J.M.
DST#2 3196-3260 LOWER LANSING
Start Test Date: 2011/10/25
Final Test Date: 2011/10/25

ROY ROBL #1
Formation: DST#2 3196-3260 LOWER LANSING
Pool: WILDCAT
Job Number: M238

# ROY ROBL #1






This is an actual photograph of recorder chart.

| POINT | | PRESSURE Elec. Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1528 | 1528 | PSI |
| (B) | First Initial Flow Pressure | 17 | 17 | PSI |
| (C) | First Final Flow Pressure | 38 | 38 | PSI |
| (D) | Initial Closed-in Pressure | 670 | 670 | PSI |
| (E) | Second Initial Flow Pressure | 42 | 42 | PSI |
| (F) | Second Final Flow Pressure | 64 | 64 | PSI |
| (G) | Final Closed-in Pressure | 645 | 645 | PSI |
| (H) | Final Hydrostatic Mud | 1521 | 1521 | PSI |

# DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30044.D239




Company RJM Company — Lease & Well No. Roy Robl No. 1

Elevation 1789 EGL — Formation Arbuckle — Effective Pay -- Ft. — Ticket No. M239

Date 10-25-11 — Sec. 22 — Twp. 18S — Range 11W — County Barton — State Kansas

Test Approved By James C. Musgrove — Diamond Representative Michael Cochran

Formation Test No. 3 — Interval Tested from 3,268 ft. to 3,340 ft. — Total Depth 3,340 ft.

Packer Depth 3,263 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 3,268 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,257 ft. — Recorder Number 30044 — Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,337 ft. — Recorder Number 13386 — Cap. 3,875 psi

Below Straddle Recorder Depth ft. — Recorder Number — Cap. psi

Drilling Contractor Southwind Drilling, Inc. - Rig 2 — Drill Collar Length -- ft. — I.D. -- in.

Mud Type Chemical — Viscosity 51 — Weight Pipe Length -- ft. — I.D. -- in.

Weight 8.9 — Water Loss 9.2 cc. — Drill Pipe Length 3,243 ft. — I.D. 3 1/2 in.

Chlorides 6,000 P.P.M. — Test Tool Length 25 ft. — Tool Size 3 1/2 - IF in.

Jars: Make Sterling — Serial Number Not Run — Anchor Length 10' perf. w/ 62' 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 4½ ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 3 ins. No blow back during shut-in.

Recovered ½ ft. of clean oil = .007115 bbls. Gravity: 39.2 @ 60°

Recovered 140 ft. of gassy oil cut watery mud = 1.992200 bbls. (Grind out: 1%-gas; 10%-free oil; 28%-emulsified oil; 1%-water; 60%-mud)

Recovered 140½ ft. of TOTAL FLUID = 1.999315 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 5%-gas; 21%-oil; 15%-emulsified oil; 4%-water; 55%-mud

Time Set Packer(s) 8:30 A.M. — Time Started Off Bottom 11:00 A.M. — Maximum Temperature 104°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1546 | P.S.I. | |
| Initial Flow Period | Minutes 30 | | (B) | 12 | P.S.I. to (C) | 38 P.S.I. |
| Initial Closed In Period | Minutes 30 | | (D) | 1061 | P.S.I. | |
| Final Flow Period | Minutes 45 | | (E) | 38 | P.S.I. to (F) | 73 P.S.I. |
| Final Closed In Period | Minutes 45 | | (G) | 1040 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1532 | P.S.I. | |

# DIAMOND TESTING

## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | R.J.M. | Job Number | M239 |
| Well Name | ROY ROBL #1 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#3 3268-3340 ARBUCKLE | Well Operator | R.J.M. |
| Surface Location | SEC.22-18S-11W BARTON CO.KS. | Report Date | 2011/10/26 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | JIM MUSGROVE |
| | | Test Unit | NO. 1 |

## Test Information

| | |
|---|---|
| Test Type | CONVENTIONAL |
| Formation | DST#3 3268-3340 ARBUCKLE |
| Test Purpose (AEUB) | Initial Test |

| | | | |
|---|---|---|---|
| Start Test Date | 2011/10/25 | Start Test Time | 19:15:00 |
| Final Test Date | 2011/10/26 | Final Test Time | 03:20:00 |
| | | Well Fluid Type | 01 Oil |

| | |
|---|---|
| Gauge Name | 30044 |
| Gauge Serial Number | |

## Test Results

Remarks

RECOVERED:

CLEAN OIL

140' GOCWM 1% GAS,10% FREE OIL, 28% EMULSIFIED OIL, 1% WTR, 60% MUD

**140' TOTAL FLUID**

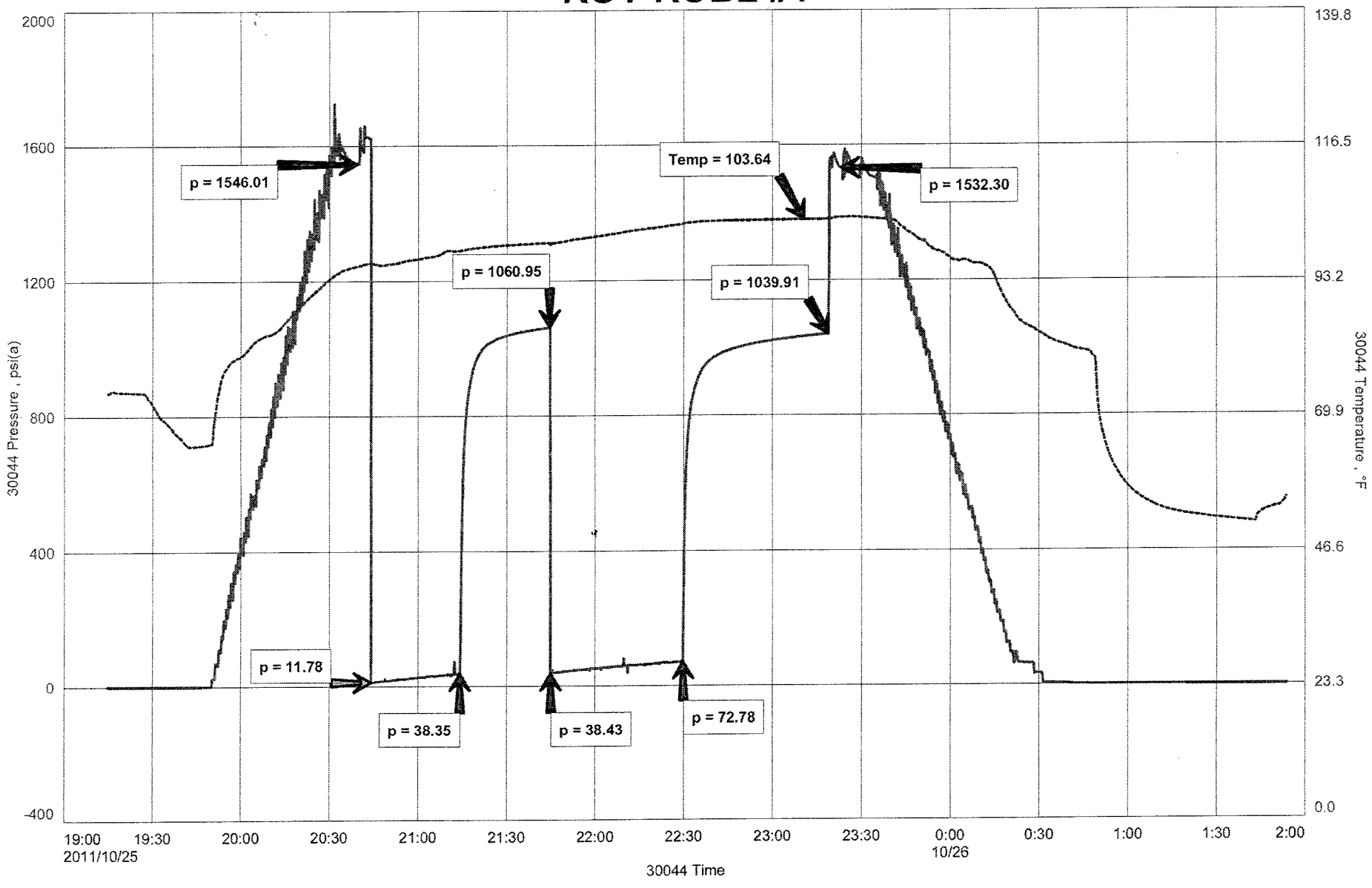
GRAVITY: 39.2 @ 60

**TOOL SAMPLE:** 5% GAS, 21% FREE OIL, 15% EMULSIFIED OIL, 4% WTR, 55% MUD

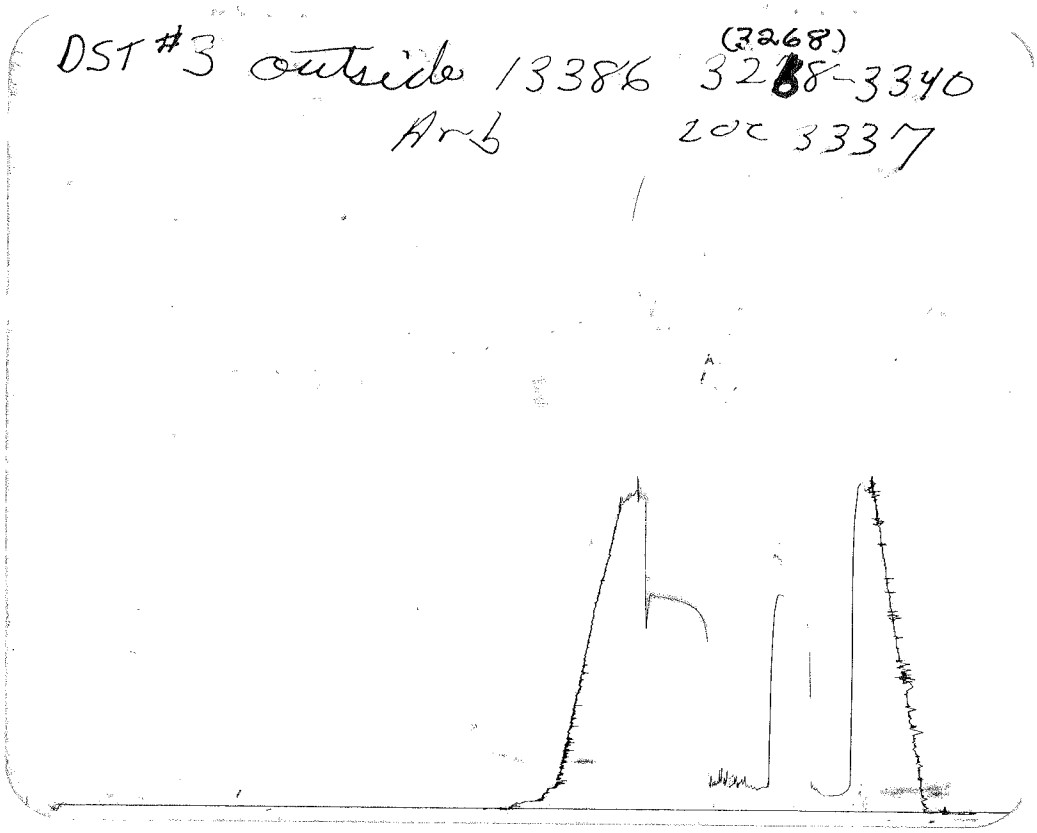
R.J.M.
DST#3 3268-3340 ARBUCKLE
Start Test Date: 2011/10/25
Final Test Date: 2011/10/26

ROY ROBL #1
Formation: DST#3 3268-3340 ARBUCKLE
Pool: WILDCAT
Job Number: M239

# ROY ROBL #1



DST #3 outside 13386 (3268) 3288-3340
Arb 20c 3337



This is an actual photograph of recorder chart.

| POINT | | PRESSURE Elec. Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1546 | 1546 | PSI |
| (B) | First Initial Flow Pressure | 12 | 12 | PSI |
| (C) | First Final Flow Pressure | 38 | 38 | PSI |
| (D) | Initial Closed-in Pressure | 1061 | 1061 | PSI |
| (E) | Second Initial Flow Pressure | 38 | 38 | PSI |
| (F) | Second Final Flow Pressure | 73 | 73 | PSI |
| (G) | Final Closed-in Pressure | 1040 | 1040 | PSI |
| (H) | Final Hydrostatic Mud | 1532 | 1532 | PSI |

# DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30044.D240




Company RJM Company — Lease & Well No. Roy Robl No. 1

Elevation 1789 EGL — Formation Arbuckle — Effective Pay -- Ft. — Ticket No. M240

Date 10-26-11 — Sec. 22 — Twp. 18S — Range 11W — County Barton — State Kansas

Test Approved By James C. Musgrove — Diamond Representative Michael Cochran

Formation Test No. 4 — Interval Tested from 3,278 ft. to 3,350 ft. — Total Depth 3,350 ft.

Packer Depth 3,273 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 3,278 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,267 ft. — Recorder Number 30044 — Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,347 ft. — Recorder Number 13386 — Cap. 3,875 psi

Below Straddle Recorder Depth ft. — Recorder Number — Cap. psi

Drilling Contractor Southwind Drilling, Inc. - Rig 2 — Drill Collar Length -- ft. — I.D. -- in.

Mud Type Chemical — Viscosity 51 — Weight Pipe Length -- ft. — I.D. -- in.

Weight 9.4 — Water Loss 10.4 cc. — Drill Pipe Length 3,253 ft. — I.D. 3 1/2 in.

Chlorides 8,000 P.P.M. — Test Tool Length 25 ft. — Tool Size 3 1/2 - IF in.

Jars: Make Sterling — Serial Number Not Run — Anchor Length 10' perf. w/ 62' 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: Good, surface blow. Off bottom of bucket in 12 mins. No blow back during shut-in.
2nd Open: Good, surface blow. Off bottom of bucket in 14 mins. No blow back during shut-in.

Recovered 195 ft. of clean oil = 2.774850 bbls. (Grind out: 100%-oil) Gravity: 41.6 @ 60°

Recovered 270 ft. of gassy watery mud cut oil = 5.265100 bbls. (Grind out: 8%-gas; 20%-oil; 38%-emulsified oil; 4%-water; 30%-mud)

Recovered 465 ft. of TOTAL FLUID = 6.616950 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-gas; 37%-oil; 20%-emulsified oil; 4%-water; 37%-mud

Time Set Packer(s) 8:15 A.M. P.M. — Time Started Off Bottom 11:15 A.M. P.M. — Maximum Temperature 105°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 1557 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 23 | P.S.I. | to (C) 105 | P.S.I. | |
| Initial Closed In Period | Minutes 45 | (D) 1001 | P.S.I. | | | |
| Final Flow Period | Minutes 45 | (E) 114 | P.S.I. | to (F) 190 | P.S.I. | |
| Final Closed In Period | Minutes 60 | (G) 955 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 1546 | P.S.I. | | |

# DIAMOND TESTING



## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | R.J.M. | Job Number | M240 |
| Well Name | ROY ROBL #1 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#4 3278-3350 ARBUCKLE | Well Operator | R.J.M. |
| Surface Location | SEC.22-18S-11W BARTON CO.KS. | Report Date | 2011/10/26 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | JIM MUSGROVE |
| | | Test Unit | NO. 1 |

## Test Information

| | | | |
|---|---|---|---|
| Test Type | CONVENTIONAL | | |
| Formation | DST#4 3278-3350 ARBUCKLE | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2011/10/26 | Start Test Time | 06:20:00 |
| Final Test Date | 2011/10/26 | Final Test Time | 14:00:00 |
| | | Well Fluid Type | 01 Oil |
| Gauge Name | 30044 | | |
| Gauge Serial Number | | | |

## Test Results

Remarks

RECOVERED:

**195'** CO 100% OIL
270' GWMCO 8% GAS, 20% OIL, 38% EMULSIFIED OIL, 4% WTR, 30% MUD
**465' TOTAL FLUID**

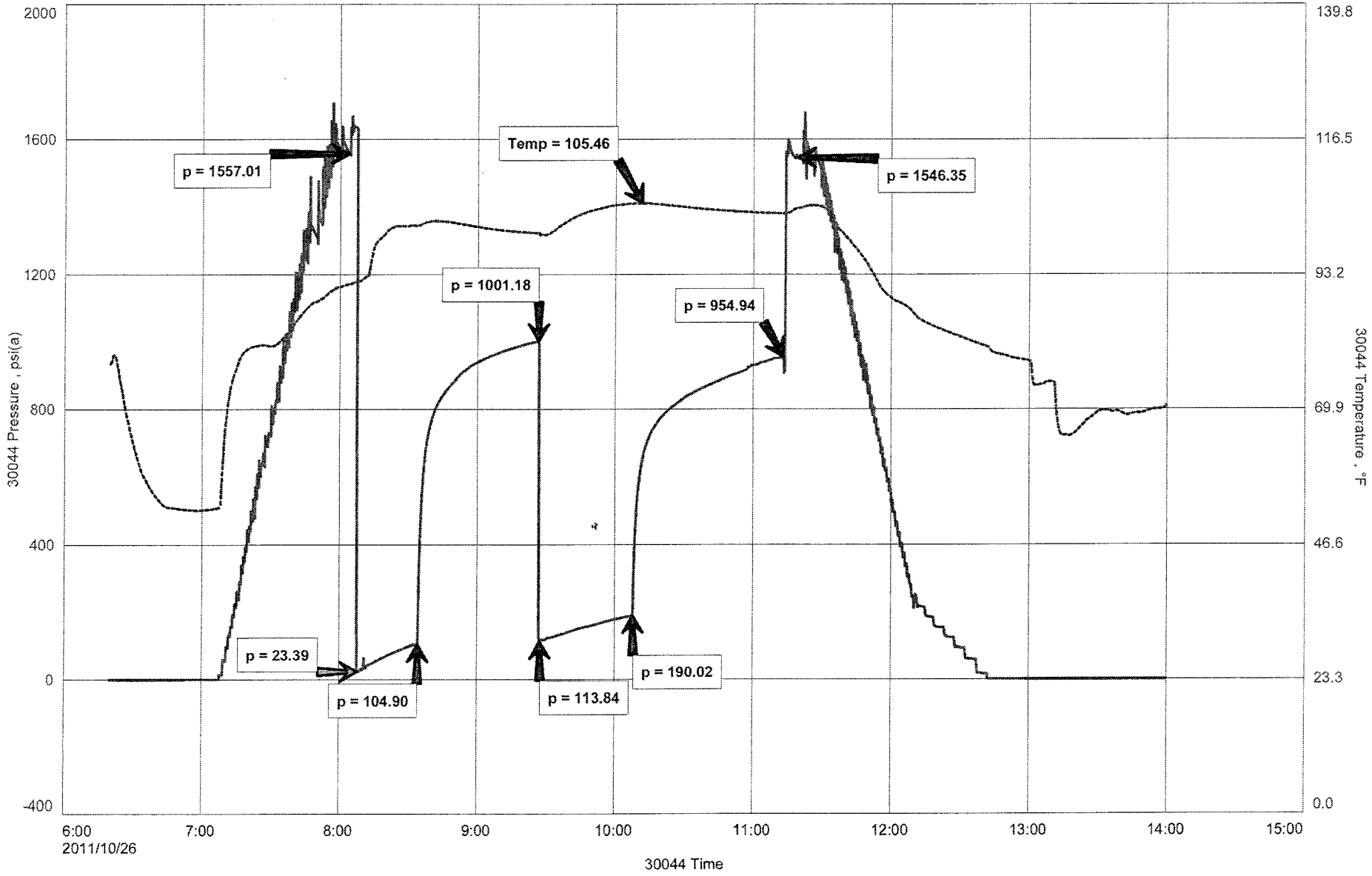
GRAVITY: 41.6 @ 60

**TOOL SAMPLE:** 2% GAS, 37% OIL, 20% EO, 4% WTR, 37% MUD

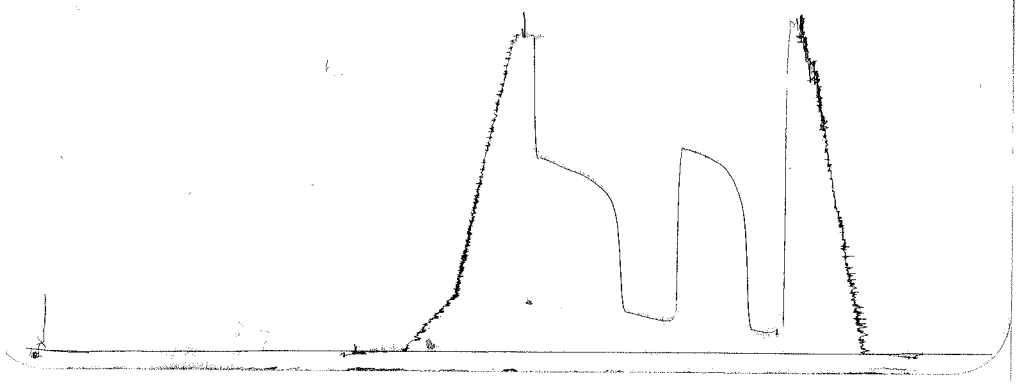
R.J.M.
DST#4 3278-3350 ARBUCKLE
Start Test Date: 2011/10/26
Final Test Date: 2011/10/26

ROY ROBL #1
Formation: DST#4 3278-3350 ARBUCKLE
Pool: WILDCAT
Job Number: M240

# ROY ROBL #1



DST #1 outside 13386 3278-3350
Arbuckle Loc 3347



This is an actual photograph of recorder chart.

| POINT | | PRESSURE Elec. Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1557 | 1557 | PSI |
| (B) | First Initial Flow Pressure | 23 | 23 | PSI |
| (C) | First Final Flow Pressure | 105 | 105 | PSI |
| (D) | Initial Closed-in Pressure | 1001 | 1001 | PSI |
| (E) | Second Initial Flow Pressure | 114 | 114 | PSI |
| (F) | Second Final Flow Pressure | 190 | 190 | PSI |
| (G) | Final Closed-in Pressure | 955 | 955 | PSI |
| (H) | Final Hydrostatic Mud | 1546 | 1546 | PSI |