

15-167-23555

5-145-12w

### DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035.D027

Company L. D. Drilling, Inc. Lease & Well No. Schwarz No. 1-5

Elevation 1864 KB Formation Tarkio Effective Pay -- Ft. Ticket No. P027

Date 4-11-09 Sec. 5 Twp. 14S Range 12W County Russell State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Paul Schilowsky

Formation Test No. 1 Interval Tested from 2,365 ft. to 2,460 ft. Total Depth 2,460 ft.

Packer Depth 2,360 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,365 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 2,355 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 2,457 ft. Recorder Number 13387 Cap. 3,900 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 49 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 8.4 cc. Drill Pipe Length 2,333 ft. I.D. 3 1/2 in.

Chlorides 2,500 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 1 Anchor Length 33' 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 blow, building. Off bottom of bucket in 13 mins. No blow back during shut-in.

2nd Open: Fair blow, building to 10 ins. No blow back during shut-in.

Recovered 120 ft. of gas in pipe

Recovered 60 ft. of mud = .615600 bbls. (Grind out: 100%-mud)

Recovered 60 ft. of TOTAL FLUID = .615600 bbls.

Recovered          ft. of         

Recovered          ft. of         

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 8:04 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 11:04 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 85°

Initial Hydrostatic Pressure ..... (A) 1095 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 26 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 709 P.S.I.

Final Flow Period ..... Minutes 45 (E) 45 P.S.I. to (F) 48 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 692 P.S.I.

Final Hydrostatic Pressure ..... (H) 1095 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: LD DRLG. CO.

Contact: LD DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

### Well Information:

Name: SCHWARZ 1-5

Operator: LD DRLG. CO.

Location-Downhole: DST #1 TORKIO 2365-2460

Location-Surface: SEC. 5 / 14S / 12W

### Test Information:

Company: DIAMOND TESTING

Representative: PAUL

Supervisor: KIM SHOEMAKER

Test Type: Drill Stem Test Job Number: P027

Test Unit: NO. 1

Start Date: 2009/04/11 Start Time: 06:03:00

End Date: 2009/04/11 End Time: 12:26:00

Report Date: 2009/04/11 Prepared By: PAUL

Qualified By: KIM

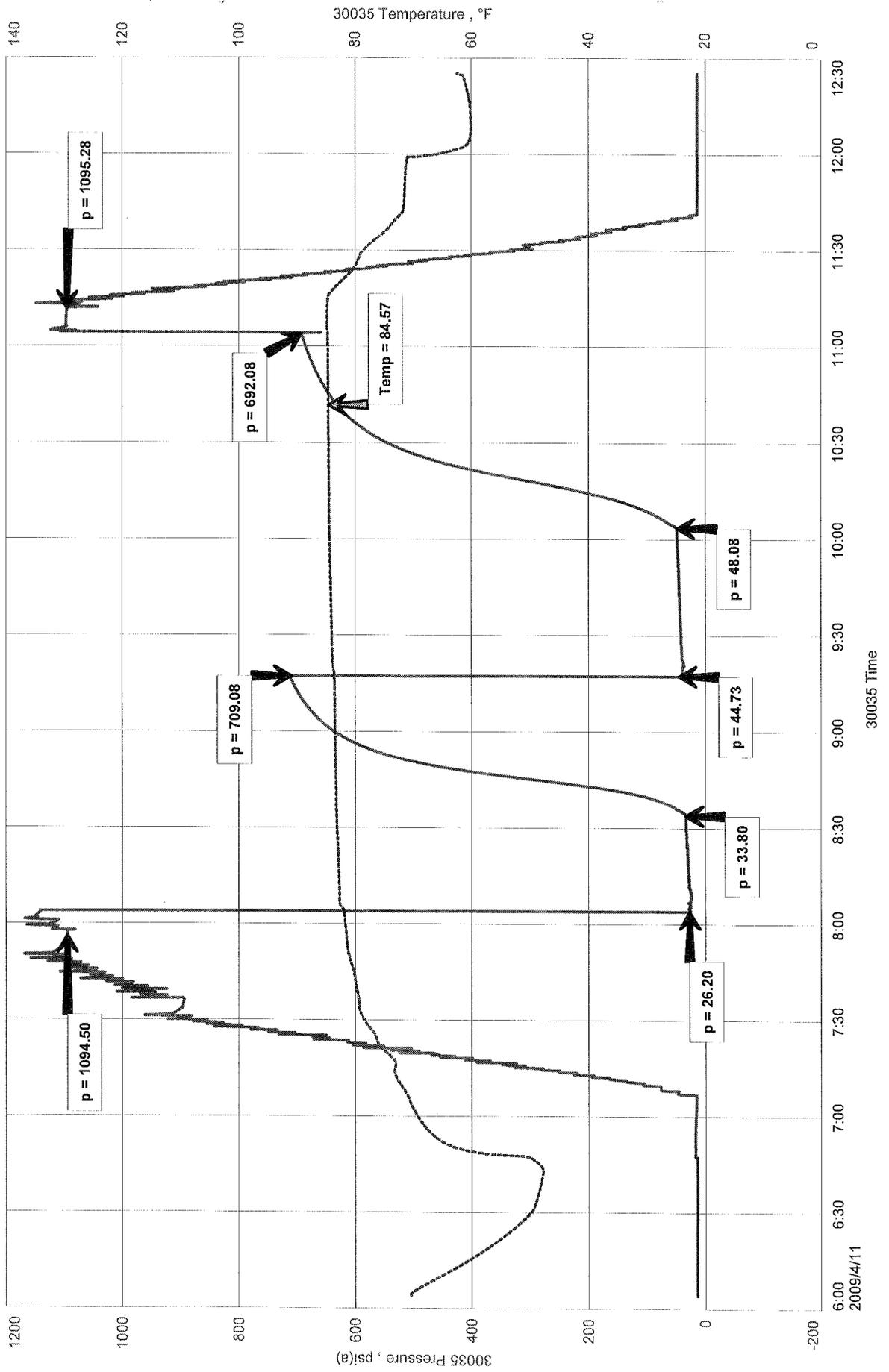
### Remarks:

RECOVERED: 120 FT. OF GIP  
60 FT. OF MUD  
TOOL SMPL: 100% MUD  
60 FT. OF FLUID TOTAL

LD DRLG. CO.  
DST #1 TORKIO 2365-2460  
Start Test Date: 2009/04/11  
Final Test Date: 2009/04/11

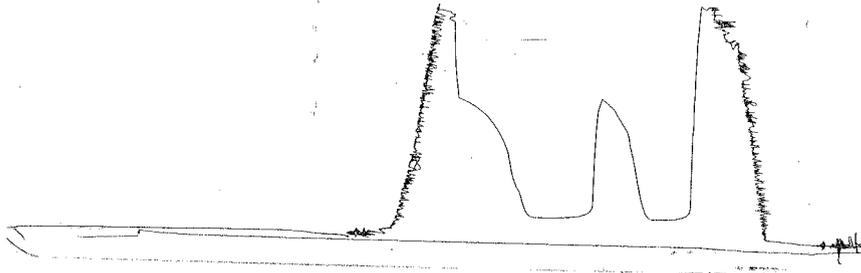
SCHWARZ 1-5  
Formation: DST#1 TORKIO 2365-2460  
Job Number: P027

# SCHWARZ 1-5



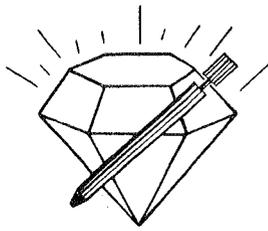
Schwarz 1-5 Turkia 2365-2400  
Dsp #1

Opp Side Loc 2457  
13387



This is an actual photograph of recorder chart.

| POINT                                 | PRESSURE      |                      | PSI |
|---------------------------------------|---------------|----------------------|-----|
|                                       | Field Reading | Elec. Office Reading |     |
| (A) Initial Hydrostatic Mud .....     | 1095          | 1095                 | PSI |
| (B) First Initial Flow Pressure.....  | 26            | 26                   | PSI |
| (C) First Final Flow Pressure .....   | 34            | 34                   | PSI |
| (D) Initial Closed-in Pressure .....  | 709           | 709                  | PSI |
| (E) Second Initial Flow Pressure..... | 45            | 45                   | PSI |
| (F) Second Final Flow Pressure.....   | 48            | 48                   | PSI |
| (G) Final Closed-in Pressure.....     | 692           | 692                  | PSI |
| (H) Final Hydrostatic Mud .....       | 1095          | 1095                 | PSI |



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035.D028

Company L. D. Drilling, Inc. Lease & Well No. Schwarz No. 1-5  
 Elevation 1864 KB Formation Lansing "A" Effective Pay      -- Ft. Ticket No. P028  
 Date 4-12-09 Sec. 5 Twp. 14S Range 12W County Russell State Kansas  
 Test Approved By Jim Musgrove Diamond Representative Paul Schilowsky  
 Formation Test No. 2 Interval Tested from 3,007 ft. to 3,030 ft. Total Depth 3,030 ft.  
 Packer Depth 3,002 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.  
 Packer Depth 3,007 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 2,997 ft. Recorder Number 30035 Cap. 5,000 psi  
 Bottom Recorder Depth (Outside) 3,027 ft. Recorder Number 13387 Cap. 3,900 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 49 Weight Pipe Length      -- ft. I.D.      -- in.  
 Weight 9.0 Water Loss 7.4 cc. Drill Pipe Length 2,975 ft. I.D.      3 1/2 in.  
 Chlorides 4,900 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.  
 Jars: Make Sterling Serial Number 1 Anchor Length 23 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 blow, building to 6 ins. No blow back during shut-in.  
 2nd Open: Weak blow, building to 8 ins. No blow back during shut-in.

Recovered 210 ft. of gas in pipe  
 Recovered 30 ft. of gassy oil cut mud = .307800 bbls. (Grind out: 15%-gas; 15%-oil; 70%-mud)  
 Recovered 30 ft. of TOTAL FLUID = .307800 bbls.  
 Recovered      ft. of       
 Recovered      ft. of       
 Remarks Tool Sample Grind Out: 5%-gas; 10%-oil; 85%-mud

Time Set Packer(s) 9:20 ~~XXM.~~ P.M. Time Started Off Bottom 12:05 ~~XXM.~~ A.M. Maximum Temperature 96°  
 Initial Hydrostatic Pressure      (A) 1463 P.S.I.  
 Initial Flow Period      Minutes 30 (B) 22 P.S.I. to (C) 25 P.S.I.  
 Initial Closed In Period      Minutes 30 (D) 926 P.S.I.  
 Final Flow Period      Minutes 45 (E) 29 P.S.I. to (F) 35 P.S.I.  
 Final Closed In Period      Minutes 60 (G) 1185 P.S.I.  
 Final Hydrostatic Pressure      (H) 1464 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: LD DRLG. CO.

Contact: LD DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: SCHWARZ 1-5

Operator: LD DRLG, CO.

Location-Downhole: DST #2 LANSING A 3007-3030

Location-Surface: SEC.5 / 14S / 12W

### Test Information:

Company: DIAMOND TESTING

Representative: PAUL

Supervisor: JIM MUSGROVE

Test Type: Drill Stem Test Job Number: P028

Test Unit: NO. 1

Start Date: 2009/04/12 Start Time: 19:37:00

End Date: 2009/04/13 End Time: 01:49:00

Report Date: 2009/04/13 Prepared By: PAUL

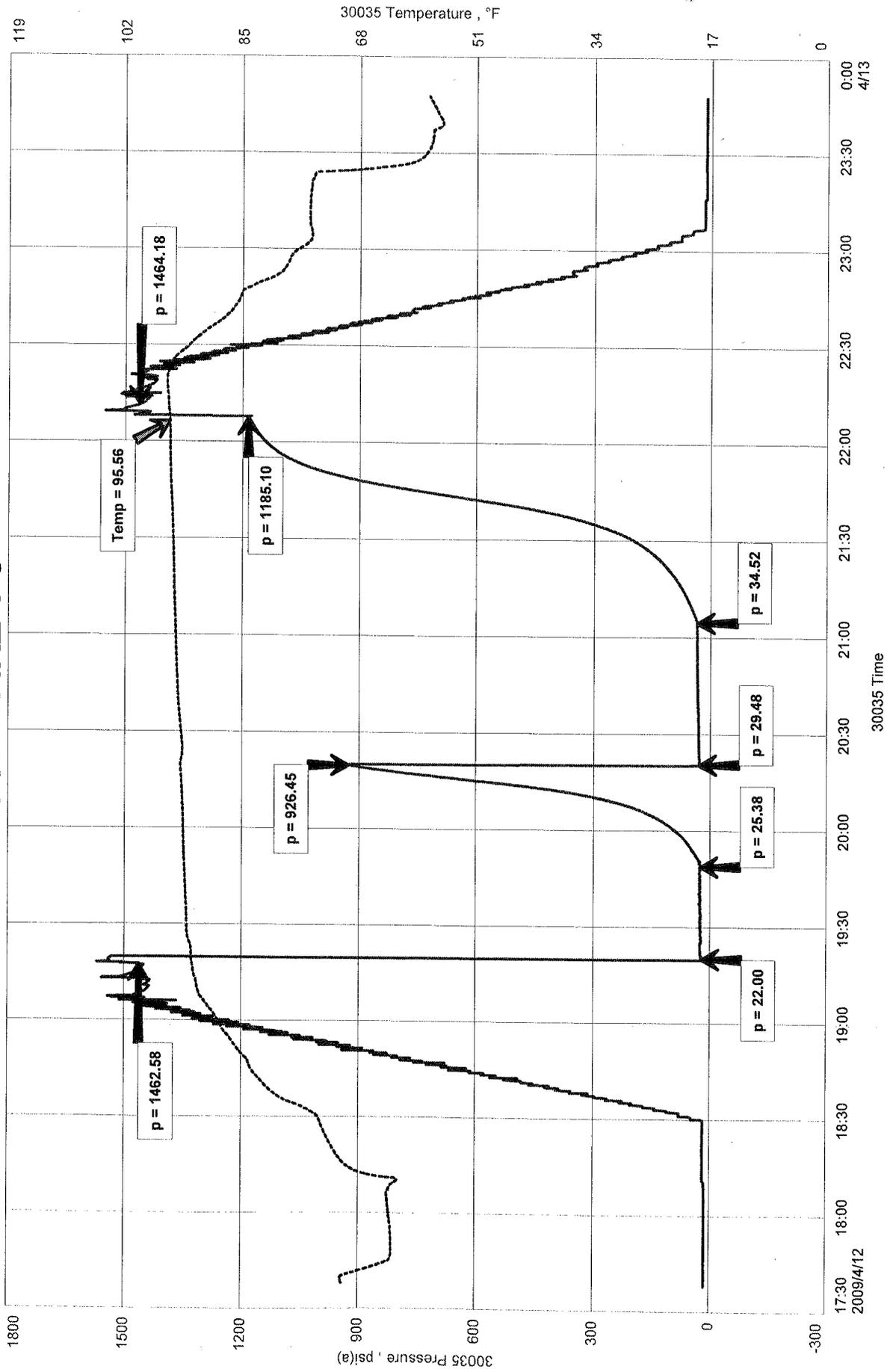
Remarks: Qualified By: JIM

RECOVERED: 30 FT, OF GOCM 15%G / 15%O / 70%M  
120 FT. OF GIP  
30 FT. OF FLUID TOTAL

LD DRLG. CO.  
 DST #2 LANSING A 3007-3030  
 Start Test Date: 2009/04/12  
 Final Test Date: 2009/04/13

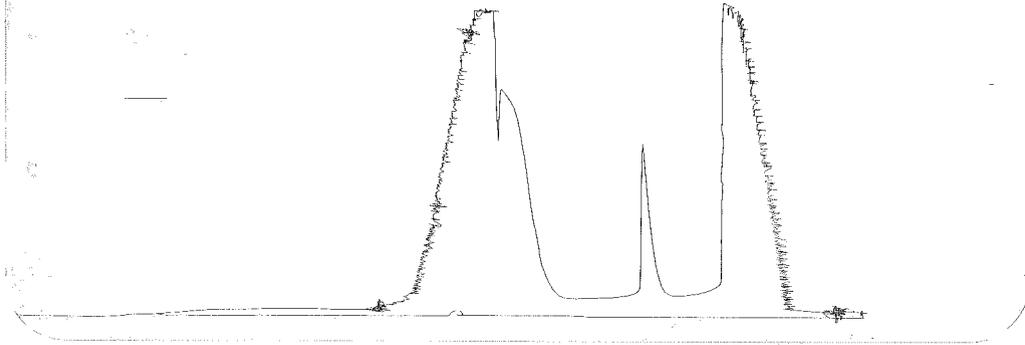
SCHWARZ 1-5  
 Formation: DST #2 LANSING A 3007-3030  
 Job Number: P028

# SCHWARZ 1-5



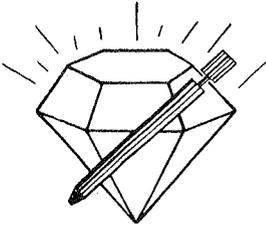
PST # 2 3007-3030

outside  
Loc. 3027



This is an actual photograph of recorder chart.

| POINT                            | PRESSURE         |      | Elec.<br>Office<br>Reading | PSI |
|----------------------------------|------------------|------|----------------------------|-----|
|                                  | Field<br>Reading |      |                            |     |
| (A) Initial Hydrostatic Mud      | 1463             | 1463 |                            | PSI |
| (B) First Initial Flow Pressure  | 22               | 22   |                            | PSI |
| (C) First Final Flow Pressure    | 25               | 25   |                            | PSI |
| (D) Initial Closed-in Pressure   | 926              | 926  |                            | PSI |
| (E) Second Initial Flow Pressure | 29               | 29   |                            | PSI |
| (F) Second Final Flow Pressure   | 35               | 35   |                            | PSI |
| (G) Final Closed-in Pressure     | 1185             | 1185 |                            | PSI |
| (H) Final Hydrostatic Mud        | 1464             | 1464 |                            | PSI |



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30035.D029

Company L. D. Drilling, Inc. Lease & Well No. Schwarz No. 1-5
Elevation 1864 KB Formation Lansing "B" Effective Pay -- Ft. Ticket No. P029
Date 4-13-09 Sec. 5 Twp. 14S Range 12W County Russell State Kansas
Test Approved By Jim Musgrove Diamond Representative Paul Schilowsky

Formation Test No. 3 Interval Tested from 3,036 ft. to 3,045 ft. Total Depth 3,045 ft.
Packer Depth 3,040 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,045 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,035 ft. Recorder Number 30035 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,042 ft. Recorder Number 13387 Cap. 3,900 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 49 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.0 Water Loss 7.4 cc. Drill Pipe Length 3,004 ft. I.D. 3 1/2 in.
Chlorides 4,900 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 9 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 surface blow, building to 7 ins. No blow back during shut-in.
2nd Open: Weak surface blow, building to 5 ins. No blow back during shut-in.

Recovered 150 ft. of slightly oil specked muddy water = 1.539000 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out: 2%-oil; 28%-mud; 70%-water

Time Set Packer(s) 9:48 A.M. Time Started Off Bottom 12:38 P.M. Maximum Temperature 100°
Initial Hydrostatic Pressure (A) 1475 P.S.I.
Initial Flow Period Minutes 30 (B) 23 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period Minutes 30 (D) 1380 P.S.I.
Final Flow Period Minutes 45 (E) 55 P.S.I. to (F) 96 P.S.I.
Final Closed In Period Minutes 60 (G) 1370 P.S.I.
Final Hydrostatic Pressure (H) 1476 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: LD DRLG. CO.

Contact: LD DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: SCHWARZ 1-5

Operator: LD DRLG. CO.

Location-Downhole: DST #3 LANSING B 3036-3045

Location-Surface: SEC.5 / 14S / 12W

### Test Information:

Company: DIAMOND TESTING

Representative: PAUL

Supervisor: JIM MUSGROVE

Test Type: Drill Stem Test Job Number: P029

Test Unit: NO. 1

Start Date: 2009/04/13 Start Time: 08:12:00

End Date: 2009/04/13 End Time: 14:28:00

Report Date: 2009/04/13 Prepared By: PAUL

Qualified By: JIM

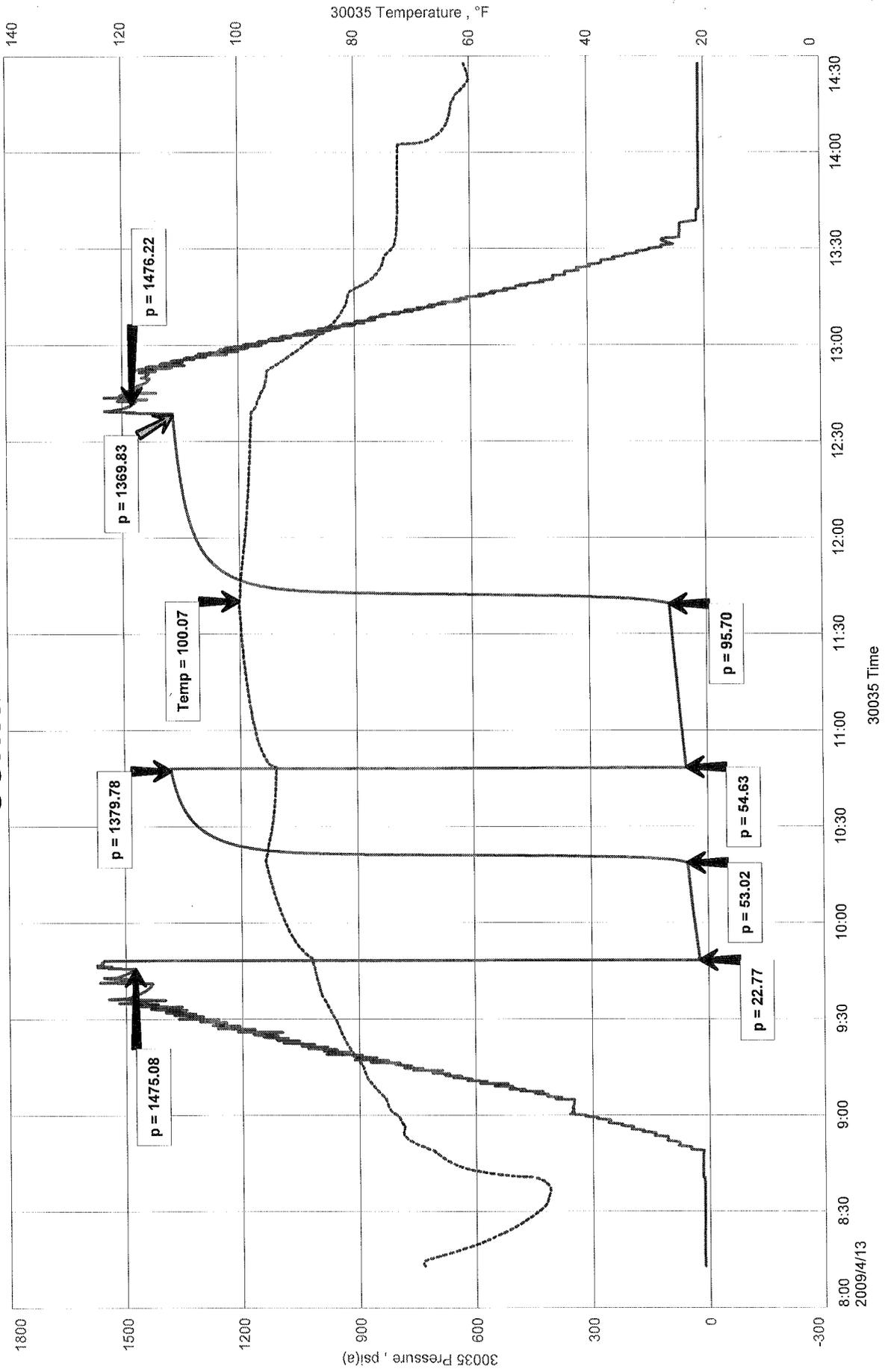
### Remarks:

RECOVERED: 150 FT. OF SOSMW  
TOOL SMPL: 2%O / 28%M / 70%W  
150 FT. OF FLUID TOTAL

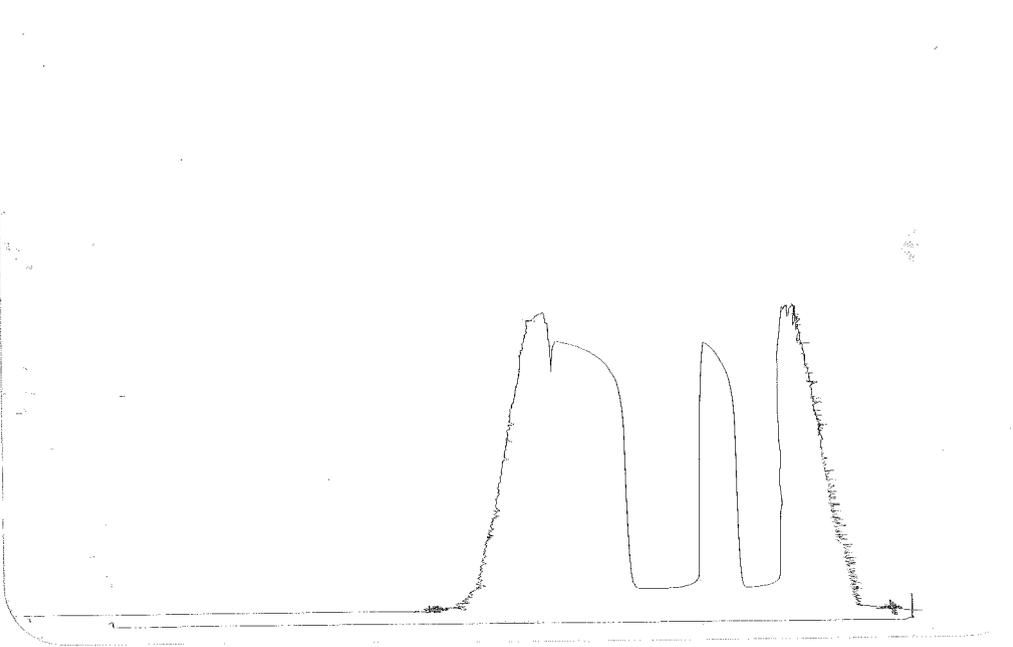
LD DRLG. CO.  
DST #3 LANSING B 3036-3045  
Start Test Date: 2009/04/13  
Final Test Date: 2009/04/13

SCHWARZ 1-5  
Formation: DST #3 LANSING B 3036-3045  
Job Number: P029

# SCHWARZ 1-5



SCHWARZ 15 Lansing B 3036-3045 outside Log. 3042



This is an actual photograph of recorder chart.

| POINT                            | PRESSURE      |                      | PSI |
|----------------------------------|---------------|----------------------|-----|
|                                  | Field Reading | Elec. Office Reading |     |
| (A) Initial Hydrostatic Mud      | 1475          | 1475                 | PSI |
| (B) First Initial Flow Pressure  | 23            | 23                   | PSI |
| (C) First Final Flow Pressure    | 53            | 53                   | PSI |
| (D) Initial Closed-in Pressure   | 1380          | 1380                 | PSI |
| (E) Second Initial Flow Pressure | 55            | 55                   | PSI |
| (F) Second Final Flow Pressure   | 96            | 96                   | PSI |
| (G) Final Closed-in Pressure     | 1370          | 1370                 | PSI |
| (H) Final Hydrostatic Mud        | 1476          | 1476                 | PSI |