



15-063-21638

## DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 21098.D 333

Page 1 of 3 Pages

Company Falcon Exploration, Inc. Lease & Well No. R & M No. 6

Elevation 2817KB Formation Mississippi Effective Pay -- Ft. Ticket No. 2215

Date 11-07-06 Sec. 27 Twp. 13S Range 30W County Gove State Kansas

Test Approved By Ted Jochems, Jr. Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,405 ft. to 4,441 ft. Total Depth 4,441 ft.

Packer Depth 4,400 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,405 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,386 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,438 ft. Recorder Number 13387 Cap. 4,000 psi

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

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 44 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 7.6 cc. Drill Pipe Length 4,373 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number No. 1 Anchor Length 36 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 1/2 in. No blow back during shut-in.

2nd Open: Weak surface blow increasing to 5 1/2 ins. No blow back during shut-in.

Recovered 16 ft. of muddy oil = .227200 bbls. (Grind out: 33%-mud; 67%-oil)

Recovered 16 ft. of oil cut mud = .227200 bbls. (Grind out: 20%-oil; 80%-mud)

Recovered 32 ft. of TOTAL FLUID = .454400 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

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

Time Set Packer(s) 10:34 ~~XXX~~ P.M. Time Started Off Bottom 1:39 ~~XXX~~ A.M. Maximum Temperature 122°

Initial Hydrostatic Pressure ..... (A) 2111 P.S.I.

Initial Flow Period ..... Minutes 5 (B) 5 P.S.I. to (C) 9 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 740 P.S.I.

Final Flow Period ..... Minutes 45 (E) 11 P.S.I. to (F) 19 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 673 P.S.I.

Final Hydrostatic Pressure ..... (H) 2113 P.S.I.



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**FLUID SAMPLE DATA**

Company Falcon Exploration, Inc.

Lease & Well No. R & M No. 6

Date 11-07-06 Sec. 27 Twp. 13 S Range 30 W

Formation Test No. 1 Interval Tested From 4,405 ft. to 4,441 ft. Total Depth 4,441 ft.

Formation Mississippi

|            | <u>MUD PIT</u> | <u>RECOVERY</u> |
|------------|----------------|-----------------|
| Viscosity  | <u>44</u> CP   | <u>--</u> CP    |
| Weight     | <u>9.3</u>     | <u>--</u>       |
| Water Loss | <u>7.6</u> CC  | <u>--</u> CC    |
| PH Factor  | <u>10.5</u>    | <u>--</u>       |

|                         | <u>RESISTIVITY</u>   | <u>CHLORIDE CONTENT</u> |
|-------------------------|----------------------|-------------------------|
| Recovery Water          | <u>-- @ -- °F.</u>   | <u>--</u> ppm           |
| Recovery Mud            | <u>-- @ -- °F.</u>   | <u>--</u> ppm           |
| Recovery Mud Filtrate   | <u>-- @ -- °F.</u>   | <u>--</u> ppm           |
| Mud Pit Sample          | <u>1.80 @ 50 °F.</u> | <u>4,100</u> ppm        |
| Mud Pit Sample Filtrate | <u>1.90 @ 56 °F.</u> | <u>3,800</u> ppm        |

Sample Taken By ROGER D. FRIEDLY

Witness By TED JOCHEMS, JR.

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm

## **GENERAL INFORMATION**

### **Client Information:**

Company: FALCON EXPLORATION, INC.

Contact: MICHEAL S. MITCHELL

Phone: Fax: e-mail:

### **Site Information:**

Contact: TED JOCHEMS, JR

Phone: Fax: e-mail:

### **Well Information:**

Name: R & M #6

Operator: FALCON EXPLORATION, INC.

Location-Downhole: DST #1 MISSISSIPPI 4,405' - 4,441'

Location-Surface: SEC 27-13S-30W GOVE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: TED JOCHEMS, JR

Test Type: CONVENTIONAL

Job Number:

Test Unit: NO. 1

Start Date: 2006/11/07

Start Time: 19:19:00

End Date: 2006/11/08

End Time: 04:19:00

Report Date:

Prepared By:

### **Remarks:**

Qualified By:

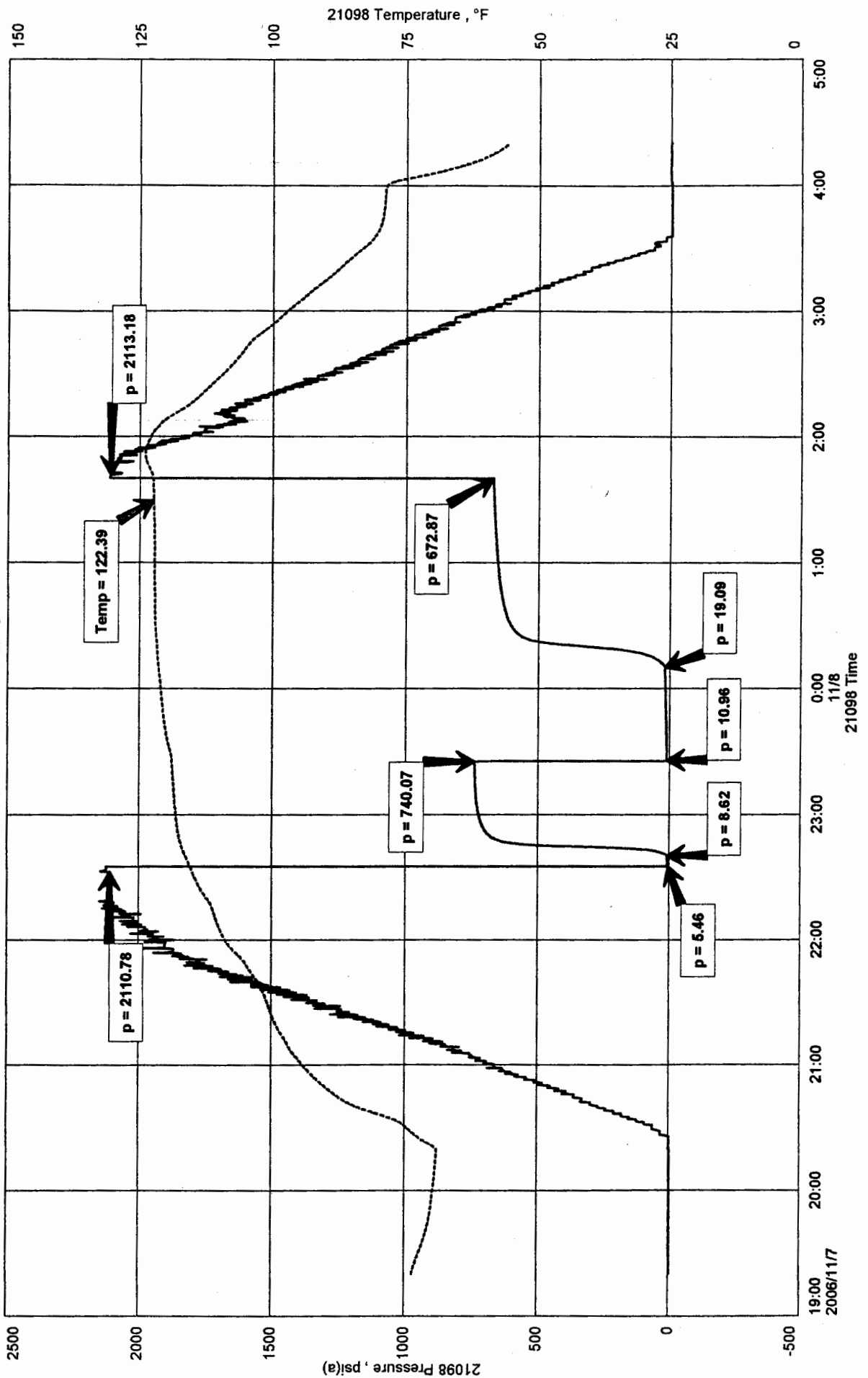
RECOVERED: 16' MO 33% MUD, 67% OIL  
16' OCM 20% OIL, 80% MUD  
32' TOTAL FLUID

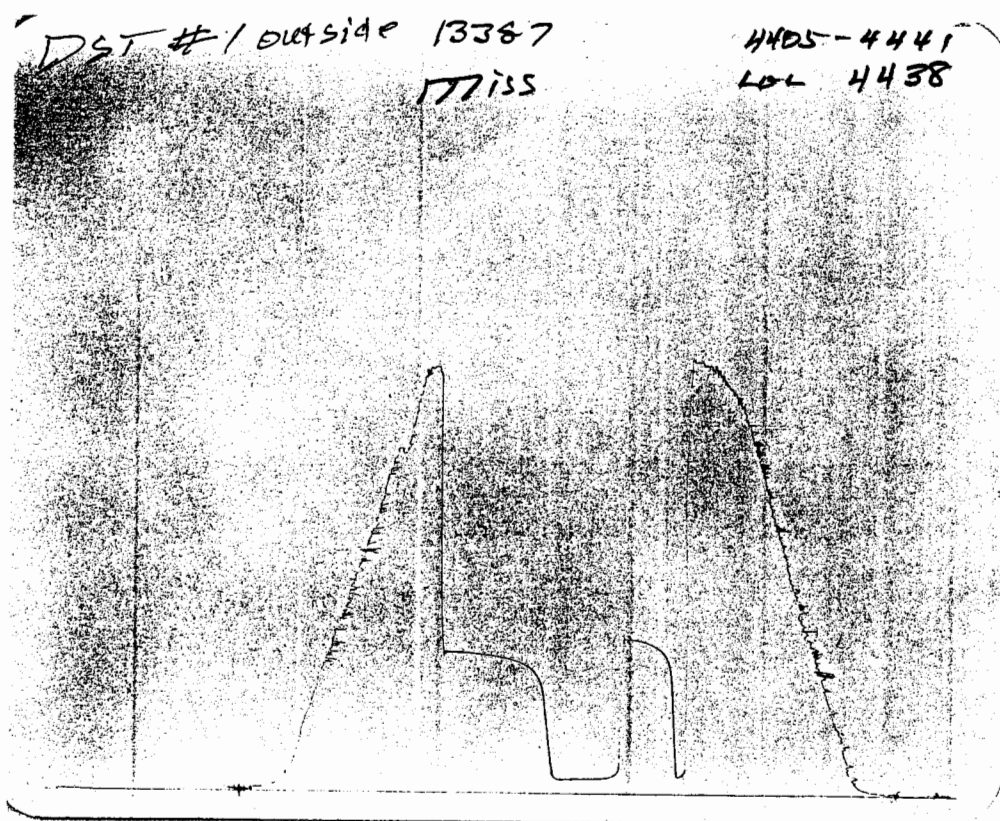
TOOL SAMPLE: 45% MUD, 55% OIL

FALCON EXPLORATION, INC.  
 DST #1 MISSISSIPPI 4,405' - 4,441'  
 Start Test Date: 2006/11/07  
 Final Test Date: 2006/11/08

R & M #6  
 Formation: DST #1 MISSISSIPPI 4,405' - 4,441'  
 Pool: WILDCAT

# R & M #6





This is an actual photograph of recorder chart.

| POINT                                 | PRESSURE      |                      |
|---------------------------------------|---------------|----------------------|
|                                       | Field Reading | Elec. Office Reading |
| (A) Initial Hydrostatic Mud .....     | 2111          | 2111                 |
| (B) First Initial Flow Pressure.....  | 5             | 5                    |
| (C) First Final Flow Pressure .....   | 9             | 9                    |
| (D) Initial Closed-in Pressure .....  | 740           | 740                  |
| (E) Second Initial Flow Pressure..... | 11            | 11                   |
| (F) Second Final Flow Pressure.....   | 19            | 19                   |
| (G) Final Closed-in Pressure.....     | 673           | 673                  |
| (H) Final Hydrostatic Mud.....        | 2113          | 2113                 |



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Company Falcon Exploration, Inc. Lease & Well No. R & M No. 6

Elevation 2817KB Formation Mississippi Effective Pay -- Ft. Ticket No. 2216

Date 11-08-06 Sec. 27 Twp. 13S Range 30W County Gove State Kansas

Test Approved By Ted Jochems, Jr. Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,441 ft. to 4,466 ft. Total Depth 4,466 ft.

Packer Depth 4,436 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,441 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,422 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,463 ft. Recorder Number 13387 Cap. 4,000 psi

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

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

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

Weight 9.2 Water Loss 10.0 cc. Drill Pipe Length 4,409 ft. I.D. 3 1/2 in.

Chlorides 2,600 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number No. 1 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 surface blow throughout. No blow back during shut-in.

2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of slightly oil specked drilling mud = .071000 bbls.

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) 5:30 ~~XXX~~ P.M. Time Started Off Bottom 8:37 ~~XXX~~ P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure ..... (A) 2104 P.S.I.

Initial Flow Period ..... Minutes 7 (B) 7 P.S.I. to (C) 8 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1131 P.S.I.

Final Flow Period ..... Minutes 45 (E) 5 P.S.I. to (F) 16 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 987 P.S.I.

Final Hydrostatic Pressure ..... (H) 2103 P.S.I.



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**FLUID SAMPLE DATA**

Company Falcon Exploration, Inc.

Lease & Well No. R & M No. 6

Date 11-08-06 Sec. 27 Twp. 13 S Range 30 W

Formation Test No. 2 Interval Tested From 4,441 ft. to 4,466 ft. Total Depth 4,466 ft.

Formation Mississippi

|            | <u>MUD PIT</u> | <u>RECOVERY</u> |
|------------|----------------|-----------------|
| Viscosity  | <u>46</u> CP   | <u>--</u> CP    |
| Weight     | <u>9.2</u>     | <u>--</u>       |
| Water Loss | <u>10.0</u> CC | <u>--</u> CC    |
| PH Factor  | <u>9.5</u>     | <u>--</u>       |

|                         | <u>RESISTIVITY</u>                           | <u>CHLORIDE<br/>CONTENT</u> |
|-------------------------|----------------------------------------------|-----------------------------|
| Recovery Water          | <u>--</u> @ <u>--</u> °F. <u>--</u> ppm      |                             |
| Recovery Mud            | <u>--</u> @ <u>--</u> °F. <u>--</u> ppm      |                             |
| Recovery Mud Filtrate   | <u>--</u> @ <u>--</u> °F. <u>--</u> ppm      |                             |
| Mud Pit Sample          | <u>1.20</u> @ <u>74</u> °F. <u>4,900</u> ppm |                             |
| Mud Pit Sample Filtrate | <u>1.40</u> @ <u>77</u> °F. <u>3,800</u> ppm |                             |

Sample Taken By ROGER D. FRIEDLY

Witness By TED JOCHEMS, JR.

Remarks Pit filtrate triton dish chlorides were 2,600 Ppm

## **GENERAL INFORMATION**

### **Client Information:**

Company: FALCON EXPLORATION, INC.

Contact: MICHEAL S. MITCHELL

Phone: Fax: e-mail:

### **Site Information:**

Contact: TED JOCHEMS, JR.

Phone: Fax: e-mail:

### **Well Information:**

Name: R&M #6

Operator: FALCON EXPLORATION, INC.

Location-Downhole: DST #2 MISSISSIPPI 4,441' - 4,466'

Location-Surface: SEC 27-13S-30W GOVE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: TED JOCHEMS, JR.

Test Type: CONVENTIONAL

Job Number:

Test Unit: NO. 1

Start Date: 2006/01/08

Start Time: 14:34:00

End Date: 2006/11/08

End Time: 23:20:00

Report Date:

Prepared By:

### **Remarks:**

Qualified By:

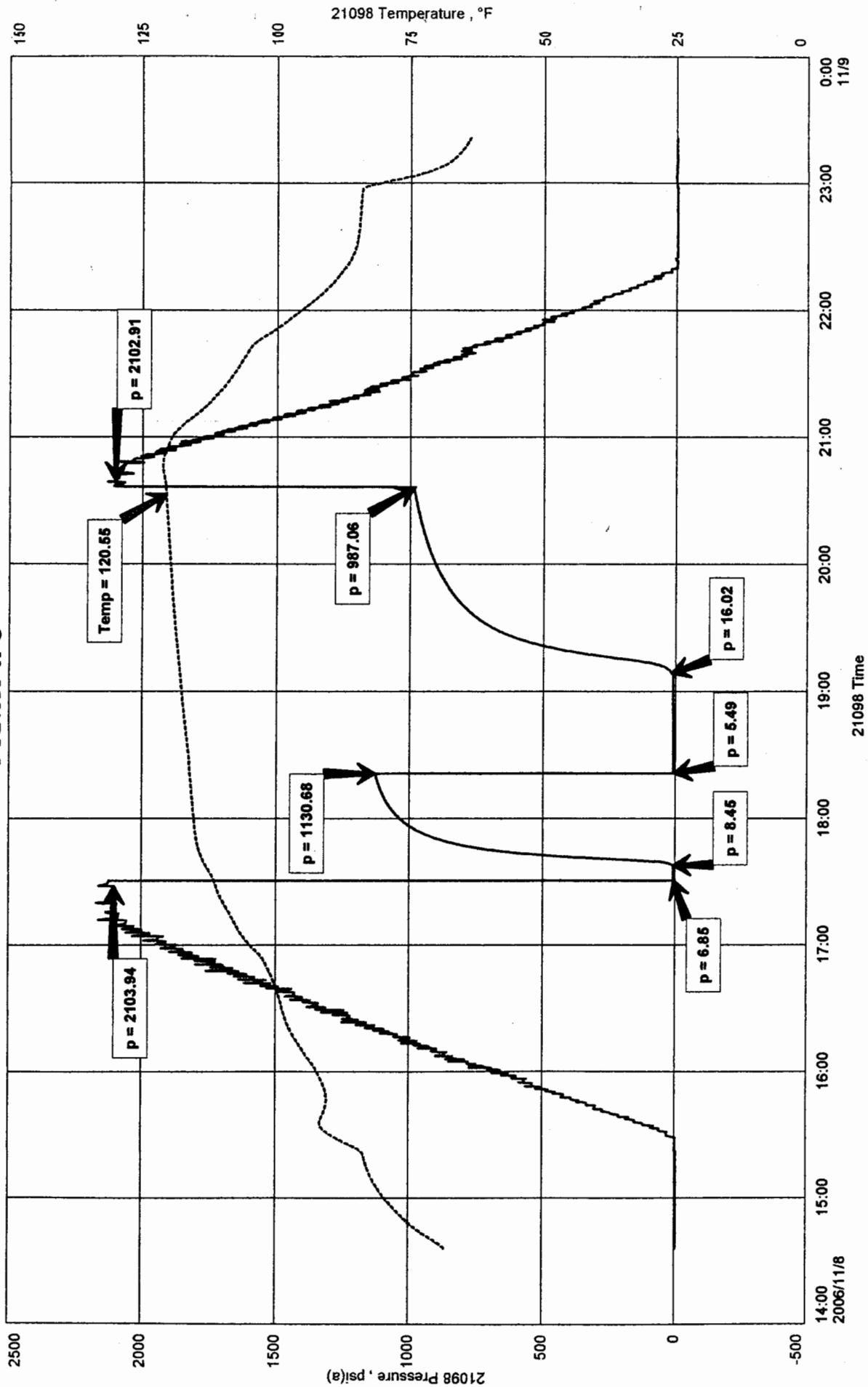
RECOVERED: 5' SLT OIL SPECKED DRILLING MUD

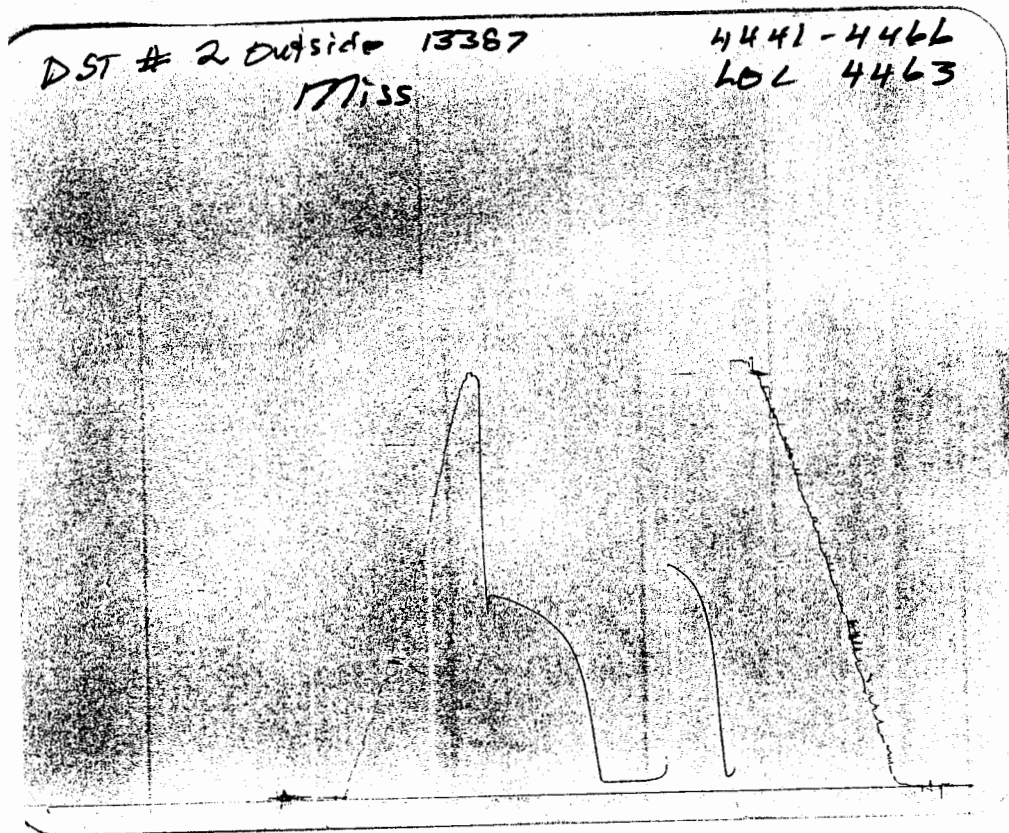
TOOL SAMPLE: 6% OIL, 94% MUD

FALCON EXPLORATION, INC.  
DST #2 MISSISSIPPI 4,441' - 4,466'  
Start Test Date: 2006/01/08  
Final Test Date: 2006/11/08

R&M #6  
Formation: DST #2 MISSISSIPPI 4,441' - 4,466'  
Pool: WILDCAT

## R&M #6





This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE         |      | Elec.<br>Office<br>Reading |
|----------------------------------------|------------------|------|----------------------------|
|                                        | Field<br>Reading |      |                            |
| (A) Initial Hydrostatic Mud .....      | 2104             | 2104 | PSI                        |
| (B) First Initial Flow Pressure.....   | 7                | 7    | PSI                        |
| (C) First Final Flow Pressure .....    | 8                | 8    | PSI                        |
| (D) Initial Closed-in Pressure .....   | 1131             | 1131 | PSI                        |
| (E) Second Initial Flow Pressure ..... | 5                | 5    | PSI                        |
| (F) Second Final Flow Pressure.....    | 16               | 16   | PSI                        |
| (G) Final Closed-in Pressure.....      | 987              | 987  | PSI                        |
| (H) Final Hydrostatic Mud .....        | 2103             | 2103 | PSI                        |



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STC 21098.D335

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Company Falcon Exploration, Inc. Lease & Well No.          R & M No. 6  
Elevation 2817KB Formation Myrick Station Effective Pay          Ft. Ticket No. 2217  
Date 11-10-06 Sec. 27 Twp. 13S Range 30W County Gove State Kansas  
Test Approved By Ted Jochems, Jr. Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 4,280 ft. to 4,340 ft. Total Depth 4,668 ft.

Packer Depth 4,275 ft. Size 6 3/4 in. Packer Depth 4,340 ft. Size 6 3/4 in.

Packer Depth 4,280 ft. Size 6 3/4 in. Packer Depth 4,345 ft. Size 6 3/4 in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 4,261 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,333 ft. Recorder Number 6884 Cap. 4,000 psi

Below Straddle Recorder Depth 4,665 ft. Recorder Number 13387 Cap. 4,000 psi

Drilling Contractor Val Energy, Inc. - Rig 4 Drill Collar Length          ft. I.D.          in.

Mud Type Chemical Viscosity 47 Weight Pipe Length          ft. I.D.          in.

Weight 9.2 Water Loss 8.0 cc. Drill Pipe Length 4,248 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number No. 1 Anchor Length 60' perf. w/ 328' tail 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 3/4 in. No blow back during shut-in.

2nd Open: Weak surface blow after 9 mins., increasing to 3/4 in. No blow back during shut-in.

Recovered 10 ft. of slightly oil specked drilling mud = .142000 bbls.

Recovered 20 ft. of drilling mud = .284000 bbls.

Recovered 30 ft. of TOTAL FLUID = .426000 bbls.

Recovered          ft. of         

Recovered          ft. of         

Remarks Below Straddle Recorder: 1,418 psi @ end

Tool Sample Grind Out: 100%-drilling mud with a few oil specks

Time Set Packer(s) 9:36 ~~XXX~~ P.M. Time Started Off Bottom 12:41 ~~XXX~~ A.M. Maximum Temperature 117°

Initial Hydrostatic Pressure          (A) 2016 P.S.I.

Initial Flow Period          Minutes 5 (B) 7 P.S.I. to (C) 10 P.S.I.

Initial Closed In Period          Minutes 45 (D) 1117 P.S.I.

Final Flow Period          Minutes 45 (E) 11 P.S.I. to (F) 24 P.S.I.

Final Closed In Period          Minutes 90 (G) 949 P.S.I.

Final Hydrostatic Pressure          (H) 2014 P.S.I.



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**FLUID SAMPLE DATA**

Company Falcon Exploration, Inc.

Lease & Well No. R & M No. 6

Date 11-10-06 Sec. 27 Twp. 13 S Range 30 W

Formation Test No. 3 Interval Tested From 4,280 ft. to 4,340 ft. Total Depth 4,668 ft.

Formation Myrick Station

|            | <u>MUD PIT</u> | <u>RECOVERY</u> |
|------------|----------------|-----------------|
| Viscosity  | <u>47</u> CP   | <u>44</u> CP    |
| Weight     | <u>9.2</u>     | <u>9.2</u>      |
| Water Loss | <u>8.0</u> CC  | <u>7.6</u> CC   |
| PH Factor  | <u>9.5</u>     | <u>10.0</u>     |

|                         | <u>RESISTIVITY</u>   | <u>CHLORIDE CONTENT</u> |
|-------------------------|----------------------|-------------------------|
| Recovery Water          | <u>-- @ -- °F.</u>   | <u>-- ppm</u>           |
| Recovery Mud            | <u>1.40 @ 54 °F.</u> | <u>5,600 ppm</u>        |
| Recovery Mud Filtrate   | <u>1.40 @ 60 °F.</u> | <u>4,900 ppm</u>        |
| Mud Pit Sample          | <u>1.60 @ 50 °F.</u> | <u>5,200 ppm</u>        |
| Mud Pit Sample Filtrate | <u>1.50 @ 56 °F.</u> | <u>4,600 ppm</u>        |

Sample Taken By ROGER D. FRIEDLY

Witness By TED JOCHEMS, JR.

Remarks Pit filtrate triton dish chlorides were 4,000 Ppm  
Recovery filtrate triton dish chlorides were 4,100 Ppm

## **GENERAL INFORMATION**

### **Client Information:**

Company: FALCON EXPLORATION, INC.

Contact: MICHEAL S. MITCHELL

Phone: Fax: e-mail:

### **Site Information:**

Contact: TED JOCHEMS, JR.

Phone: Fax: e-mail:

### **Well Information:**

Name: R & M #6

Operator: FALCON EXPLORATION, INC.

Location-Downhole: DST #3 MYRICK ST 4,280' - 4,340' TD 4,668'

Location-Surface: SEC 27-13S-30W GOVE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: TED JOCHEMS, JR.

Test Type: STRADDLE TEST Job Number:

Test Unit: NO. 1

Start Date: 2006/11/10 Start Time: 17:50:00

End Date: 2006/11/11 End Time: 04:39:00

Report Date: Prepared By:

Qualified By:

### **Remarks:**

RECOVERED: 10' SLT OIL SPECKED DRILLING MUD  
20' DRILLING MUD  
30' TOTAL FLUID

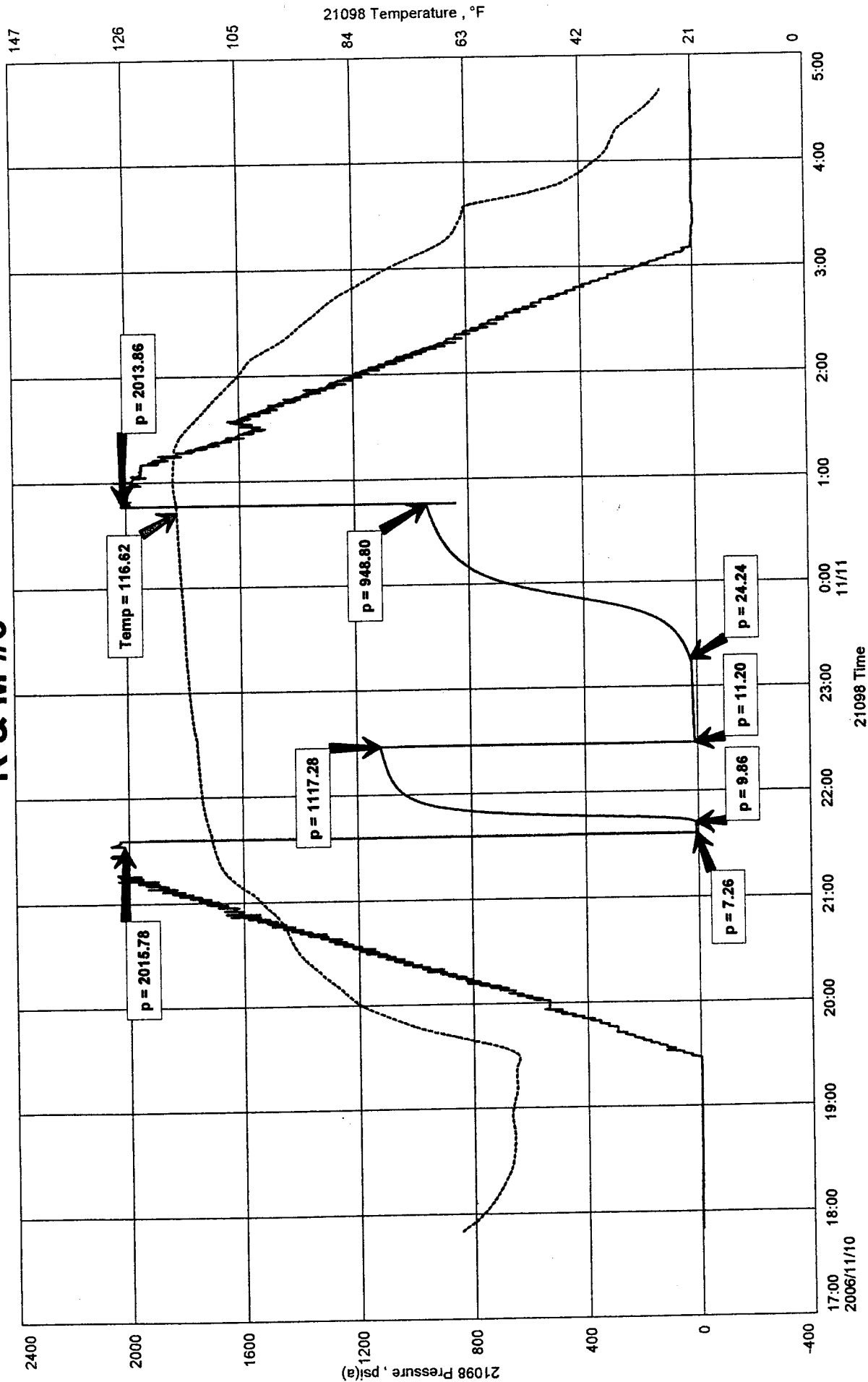
TOOL SAMPLE: 100% DRILLING MUD WITH A FEW OIL SPECKS

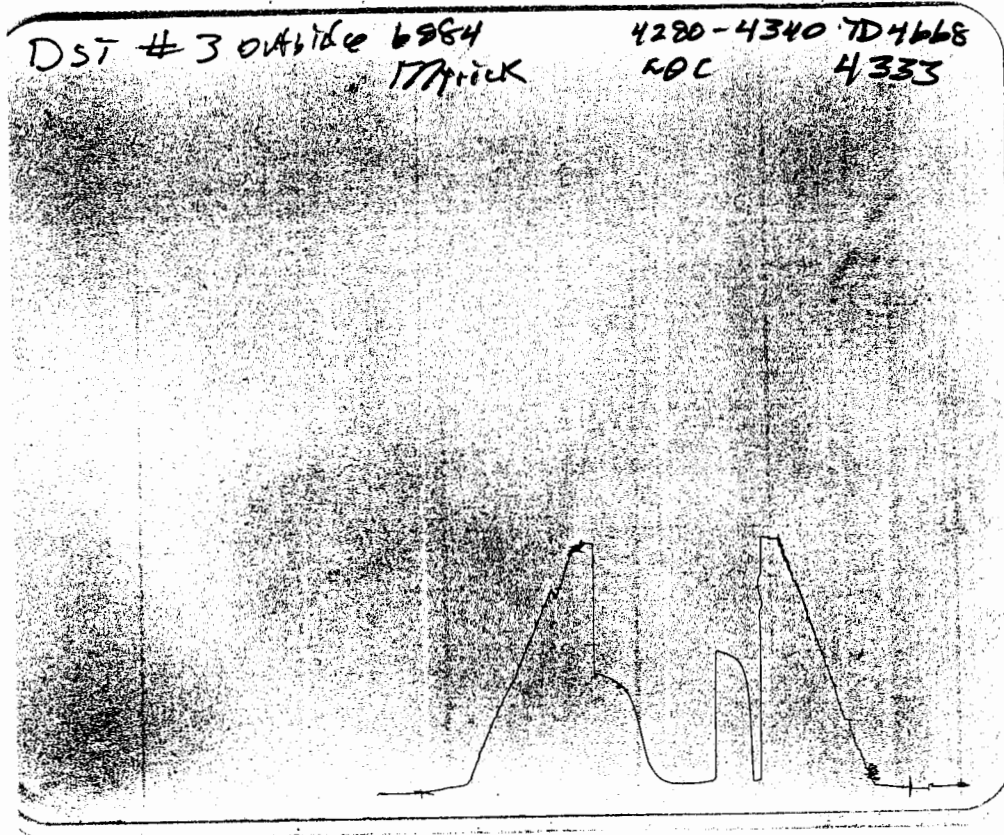
BELOW STRADDLE RECORDER 1,418 PSI @ END

R & M #6  
 Formation: DST #3 MYRICK ST 4,280' - 4,340' TD 4,668'  
 Pool: WILDCAT

FALCON EXPLORATION, INC.  
 DST #3 MYRICK ST 4,280' - 4,340' TD 4,668'  
 Start Test Date: 2006/11/10  
 Final Test Date: 2006/11/11

# R & M #6





This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE Elec. |                |
|----------------------------------------|----------------|----------------|
|                                        | Field Reading  | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 2016           | 2016           |
| (B) First Initial Flow Pressure.....   | 7              | 7              |
| (C) First Final Flow Pressure .....    | 10             | 10             |
| (D) Initial Closed-in Pressure .....   | 1117           | 1117           |
| (E) Second Initial Flow Pressure ..... | 11             | 11             |
| (F) Second Final Flow Pressure.....    | 24             | 24             |
| (G) Final Closed-in Pressure.....      | 949            | 949            |
| (H) Final Hydrostatic Mud .....        | 2014           | 2014           |

DST # 3 Below 13387

Myrick

4280-4340 M 4668

406 4665

