



15-095-21826

## DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

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28 2002

ORIGINAL

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Company MTM Petroleum, Inc. Lease & Well No. Francis No. 1Elevation 1630 KB Formation Mississippi Effective Pay -- Ft. Ticket No. J1302Date 10-16-02 Sec. 28 Twp. 29S Range 8W County Kingman State KansasTest Approved By Jerry A. Smith Diamond Representative John C. RiedlFormation Test No. 1 Interval Tested from 4,219 ft. to 4,240 ft. Total Depth 4,240 ft.Packer Depth 4,214 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Packer Depth 4,219 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Depth of Selective Zone Set -- ft.Top Recorder Depth (Inside) 4,222 ft. Recorder Number Elec. Cap. 5,000 psiBottom Recorder Depth (Outside) 4,237 ft. Recorder Number 13556 Cap. 5,475 psiBelow Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psiDrilling Contractor Duke Drlg. Co., Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.Weight 9.4 Water Loss 11.0 cc. Drill Pipe Length 4,197 ft. I.D. 3 1/2 in.Chlorides 4,000 P.P.M. Test Tool Length 22 ft. Tool Size 3 1/2 - IF in.Jars: Make Bowen Serial Number Not Run Anchor Length 21 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, 3 in., blow.2nd Open: Weak, 1/2 in. blow.Recovered 50 ft. of gas in pipe.Recovered 10 ft. of drilling mud = .074000 bbls.Recovered 10 ft. of TOTAL FLUID = .074000 bbls.Recovered -- ft. of --Recovered -- ft. of --Remarks --

KCC

OCT 25 2002

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Time Set Packer(s) 3:37 ~~XXXX~~ P.M. Time Started Off Bottom 5:37 ~~XXXX~~ P.M. Maximum Temperature 114°Initial Hydrostatic Pressure (A) 2093 P.S.I.Initial Flow Period Minutes 30 (B) 10 P.S.I. to (C) 14 P.S.I.Initial Closed In Period Minutes 30 (D) 35 P.S.I.Final Flow Period Minutes 30 (E) 13 P.S.I. to (F) 13 P.S.I.Final Closed In Period Minutes 30 (G) 27 P.S.I.Final Hydrostatic Pressure (H) 2065 P.S.I.



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**FLUID SAMPLE DATA**

Company MTM Petroleum, Inc.  
Lease & Well No. Francis No. 1  
Date 10-16-02 Sec. 28 Twp. 29 S Range 8 W  
Formation Test No. 1 Interval Tested From 4,219 ft. to 4,240 ft. Total Depth 4,240 ft.  
Formation Mississippi

|            | <u>MUD PIT</u> | <u>RECOVERY</u> |
|------------|----------------|-----------------|
| Viscosity  | <u>47</u> CP   | <u>40</u> CP    |
| Weight     | <u>9.4</u>     | <u>9.1</u>      |
| Water Loss | <u>11.0</u> CC | <u>12.0</u> CC  |
| PH Factor  | <u>10.0</u>    | <u>9.5</u>      |

|                         | <u>RESISTIVITY</u>   | <u>CHLORIDE CONTENT</u> |
|-------------------------|----------------------|-------------------------|
| Recovery Water          | <u>-- @ -- °F.</u>   | <u>-- ppm</u>           |
| Recovery Mud            | <u>1.50 @ 70 °F.</u> | <u>4,300 ppm</u>        |
| Recovery Mud Filtrate   | <u>1.50 @ 70 °F.</u> | <u>4,300 ppm</u>        |
| Mud Pit Sample          | <u>1.60 @ 70 °F.</u> | <u>4,000 ppm</u>        |
| Mud Pit Sample Filtrate | <u>1.50 @ 75 °F.</u> | <u>3,900 ppm</u>        |

Sample Taken By JOHN C. RIEDL

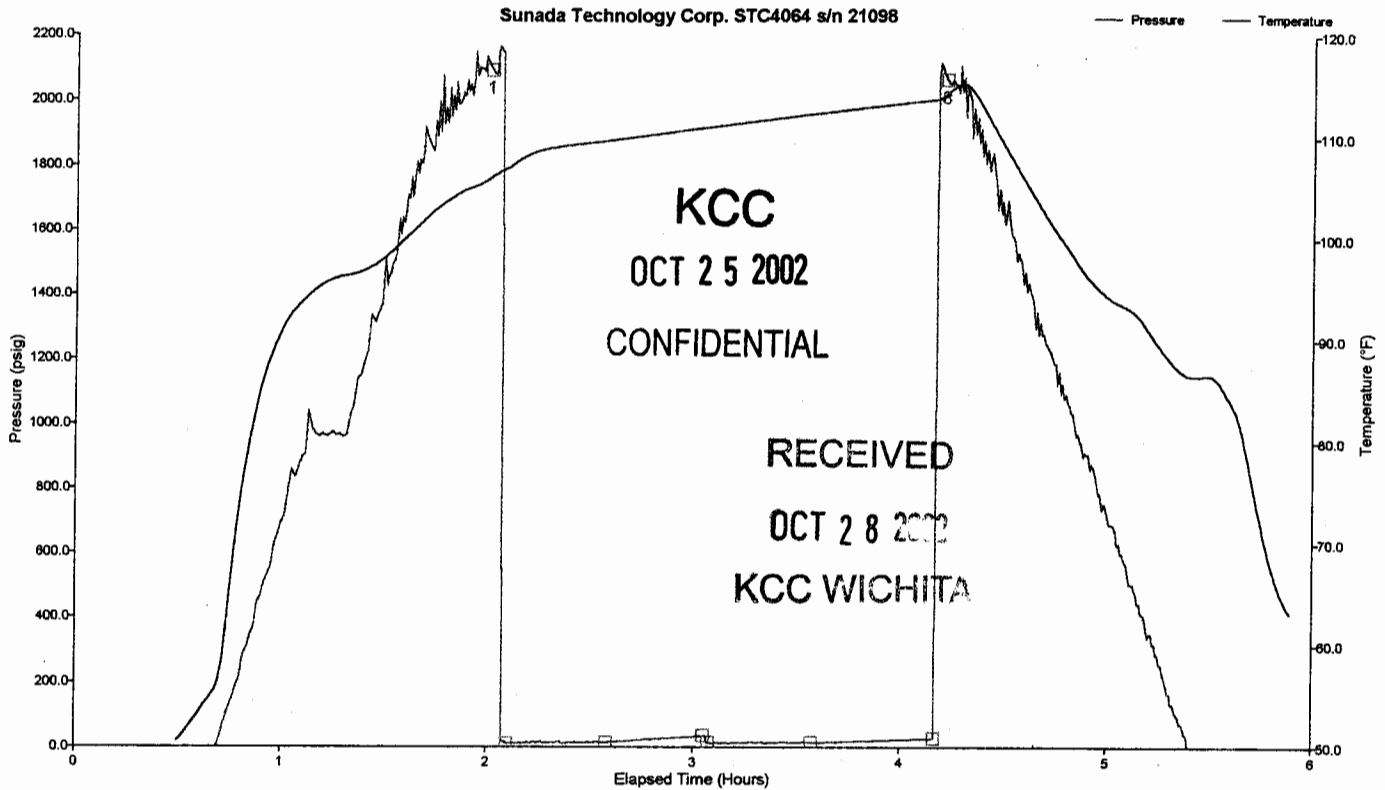
Witness By Jerry A. Smith

Remarks Pit filtrate triton dish chlorides were 4,000 Ppm  
Recovery filtrate triton dish chlorides were 3,500 Ppm

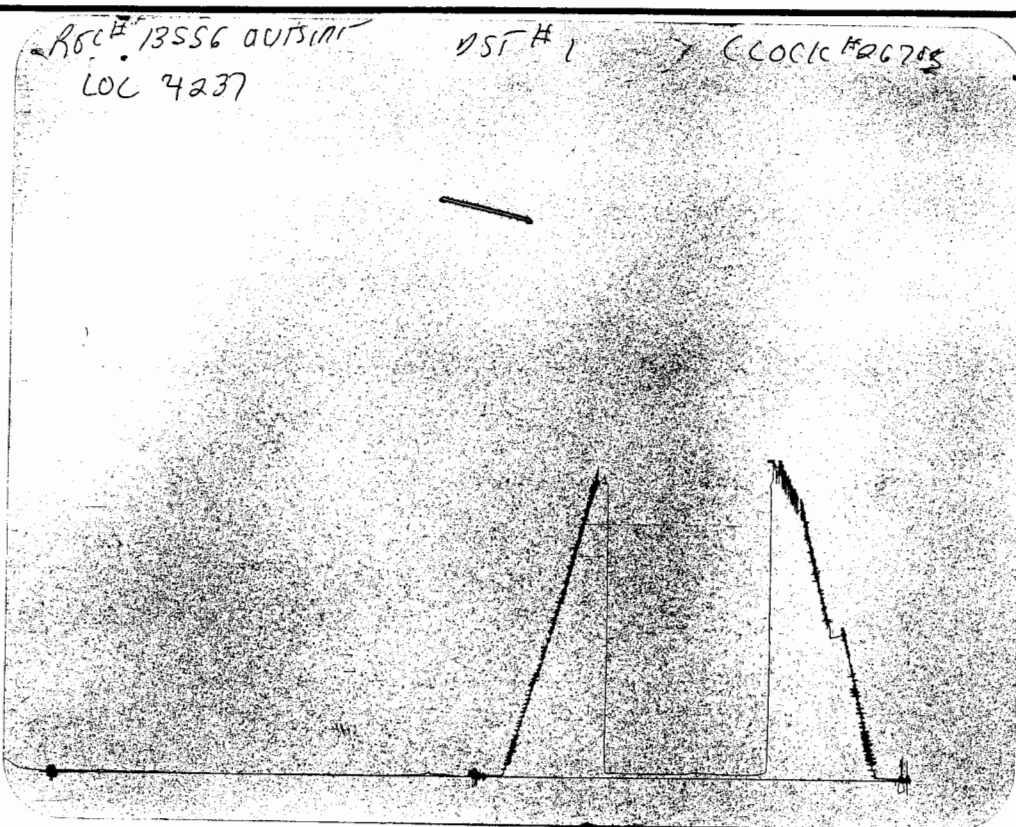
Well LSD: DST 1 MISS 4219-4240  
Well Name: FRANCIS 1  
Company: MTM PETROLEUM INC  
Battery on: Oct 16, 2002 at 13:32:00  
Notes: REC. 50' GIP 10' DRILLING MUD

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**ORIGINAL**



| Tag | Pressure     | Temperature | Comment             |
|-----|--------------|-------------|---------------------|
| 1   | 2092.99 psig | 106.18 °F   | 2002-10-16 15:33:00 |
| 2   | 10.40 psig   | 107.15 °F   | 2002-10-16 15:38:00 |
| 3   | 14.42 psig   | 109.77 °F   | 2002-10-16 16:07:00 |
| 4   | 34.61 psig   | 111.07 °F   | 2002-10-16 16:35:00 |
| 5   | 13.41 psig   | 111.13 °F   | 2002-10-16 16:36:30 |
| 6   | 13.32 psig   | 112.45 °F   | 2002-10-16 17:06:30 |
| 7   | 27.33 psig   | 113.83 °F   | 2002-10-16 17:42:00 |
| 8   | 2065.44 psig | 114.43 °F   | 2002-10-16 17:45:00 |



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE         |                            |
|----------------------------------------|------------------|----------------------------|
|                                        | Field<br>Reading | Elec.<br>Office<br>Reading |
| (A) Initial Hydrostatic Mud .....      | 2093             | 2093                       |
| (B) First Initial Flow Pressure.....   | 10               | 10                         |
| (C) First Final Flow Pressure .....    | 14               | 14                         |
| (D) Initial Closed-in Pressure .....   | 35               | 35                         |
| (E) Second Initial Flow Pressure ..... | 13               | 13                         |
| (F) Second Final Flow Pressure.....    | 13               | 13                         |
| (G) Final Closed-in Pressure.....      | 27               | 27                         |
| (H) Final Hydrostatic Mud .....        | 2065             | 2065                       |