

Computer inventoried

23-16s-18w

ORIGINAL

**DRILL-STEM TEST DATA**

**Well Name:**

DECHANT B #2 N2 S2 SW

15-165-21681

**Company :**

AFG ENERGY INC

**Location - Sec:**

23

**Twp:**

16S

**Rge:**

18W

**County:**

RUSH

**State:**

KS

**Date:**

15-Oct-95

# TRILOBITE TESTING L.L.C.

OPERATOR : AFG Energy Inc

DATE 10/15/95

WELL NAME: Dechant B #2

KB 2084.00 ft

TICKET NO: 8088

DST #1

LOCATION : 23-16S-18W, Rush Cty KS

GR 0.00 ft

FORMATION: Topeka

INTERVAL : 3045.00 To 3062.00 ft

TD 3062.00 ft

TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec.        | 13339  | 13339  | 13276  |     |     | PF Fr. 0940 to 0955 hr |
| SI 30 Range(Psi ) | 4025.0 | 4025.0 | 4000.0 | 0.0 | 0.0 | IS Fr. 0955 to 1025 hr |
| SF 15 Clock(hrs)  | 23832  | 23832  | 25753  |     |     | SF Fr. 1025 to 1040 hr |
| FS 30 Depth(ft )  | 3057.0 | 3057.0 | 3052.0 | 0.0 | 0.0 | FS Fr. 1040 to 1110 hr |

|                | Field  | 1      | 2   | 3   | 4   |                           |
|----------------|--------|--------|-----|-----|-----|---------------------------|
| A. Init Hydro  | 1421.0 | 1426.0 | 0.0 | 0.0 | 0.0 | T STARTED hr              |
| B. First Flow  | 31.0   | 58.0   | 0.0 | 0.0 | 0.0 | T ON BOTM hr              |
| B1. Final Flow | 31.0   | 58.0   | 0.0 | 0.0 | 0.0 | T OPEN 0940 hr            |
| C. In Shut-in  | 291.0  | 297.0  | 0.0 | 0.0 | 0.0 | T PULLED 1110 hr          |
| D. Init Flow   | 41.0   | 58.0   | 0.0 | 0.0 | 0.0 | T OUT hr                  |
| E. Final Flow  | 41.0   | 58.0   | 0.0 | 0.0 | 0.0 |                           |
| F. Fl Shut-in  | 176.0  | 206.0  | 0.0 | 0.0 | 0.0 | TOOL DATA-----            |
| G. Final Hydro | 1401.0 | 1418.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs         |
| Inside/Outside | 0      | 0      | I   |     |     | Wt Set On Packer 0.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 0.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 0.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 0.00 lbs  |
|                |        |        |     |     |     | Bot Choke 0.75 in         |
|                |        |        |     |     |     | Hole Size 7.88 in         |
|                |        |        |     |     |     | D Col. ID 2.25 in         |
|                |        |        |     |     |     | D. Pipe ID 3.80 in        |
|                |        |        |     |     |     | D.C. Length 30.00 ft      |
|                |        |        |     |     |     | D.P. Length 0.00 ft       |

## RECOVERY

Tot Fluid 40.00 ft of 30.00 ft in DC and 10.00 ft in DP  
40.00 ft of Drilling mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Blow -

Weak surface blow, slowly built to 4"

Final Blow -

Fair to strong blow built to 6"

SAMPLES:

SENT TO:

## MUD DATA-----

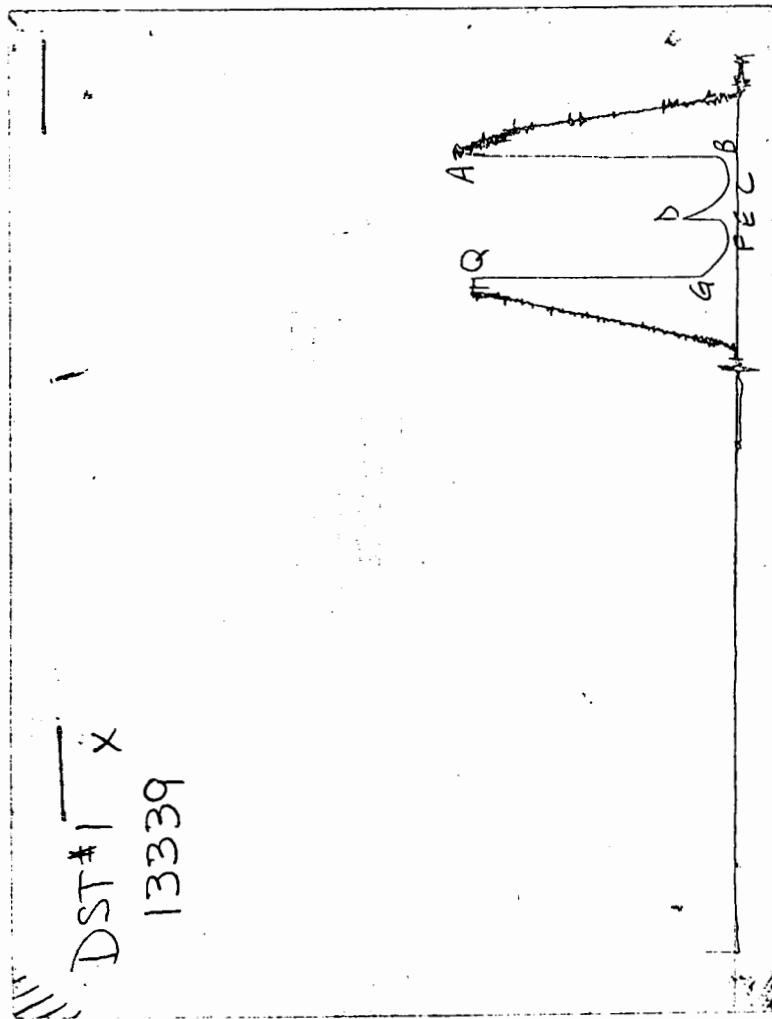
| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 8.80 lb/c |
| Vis.     | 48.00 S/L |
| W.L.     | 8.40 in3  |
| F.C.     | 0.00 in   |
| Mud Drop |           |

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 120.00 F |
| Hole Condition |          |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00     |
| Cushion Type   |          |
| Reversed Out   |          |
| Tool Chased    |          |

|          |                |
|----------|----------------|
| Tester   | Rod Steinbrink |
| Co. Rep. | Ed Glassman    |
| Contr.   | Discovery      |
| Rig #    | 1              |
| Unit #   |                |
| Pump T.  |                |

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

## TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : AFG Energy Inc  
 WELL NAME: Dechant B #2  
 LOCATION : 23-16S-18W, Rush Cty KS  
 INTERVAL : 3279.00 To 3340.00 ft

DATE 10/16/95  
 KB 2084.00 ft TICKET NO: 8754 DST #2  
 GR 2076.00 ft FORMATION: LKC "A"  
 TD 3340.00 ft TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 60 Rec.        | 11084  | 11084  | 13252  |     |     | PF Fr. 1000 to 1100 hr |
| SI 60 Range(Psi ) | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 | IS Fr. 1100 to 1200 hr |
| SF 60 Clock(hrs)  | AK-1   | AK-1   | AK-1   |     |     | SF Fr. 1200 to 1300 hr |
| FS 60 Depth(ft )  | 3336.0 | 3336.0 | 3331.0 | 0.0 | 0.0 | FS Fr. 1300 to 1400 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 1658.0 | 1628.0 | 0.0 | 0.0 | 0.0 | T STARTED 0900 hr             |
| B. First Flow  | 115.0  | 123.0  | 0.0 | 0.0 | 0.0 | T ON BOTM 0958 hr             |
| Bl. Final Flow | 115.0  | 124.0  | 0.0 | 0.0 | 0.0 | T OPEN 1000 hr                |
| C. In Shut-in  | 904.0  | 903.0  | 0.0 | 0.0 | 0.0 | T PULLED 1400 hr              |
| D. Init Flow   | 115.0  | 112.0  | 0.0 | 0.0 | 0.0 | T OUT hr                      |
| E. Final Flow  | 115.0  | 117.0  | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 904.0  | 902.0  | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 1600.0 | 1616.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs             |
| Inside/Outside | 0      | 0      | I   |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 40000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 37000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 37000.00 lbs  |
|                |        |        |     |     |     | Bot Choke 0.75 in             |
|                |        |        |     |     |     | Hole Size 7.88 in             |
|                |        |        |     |     |     | D Col. ID 2.25 in             |
|                |        |        |     |     |     | D. Pipe ID 3.80 in            |
|                |        |        |     |     |     | D.C. Length 30.00 ft          |
|                |        |        |     |     |     | D.P. Length 3228.00 ft        |

## RECOVERY

Tot Fluid 150.00 ft of 30.00 ft in DC and 120.00 ft in DP  
 150.00 ft of Gassy mud - 20% gas, 80% mud

3.00 ft of pay (est)  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Blow -  
 Strong, bottom of bucket in 30 sec;  
 Gas to surface in 5 min

Final Blow -  
 Strong, bottom of bucket as soon as  
 tool opened

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/cf  
 Vis. 52.00 S/L  
 W.L. 8.00 in3  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 107.00 F  
 Hole Condition  
 % Porosity 10.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Dan Bangle  
 Co. Rep. Ed Glassman  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

# COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.

AFG Energy Inc

Dechant B #2  
23 16S 18W

DST # 2  
Rush COUNTY

\*\*\*\*\*  
ELEVATION: 2084 KB EST. PAY: 3 FT.  
DATUM: -1253 ZONE TESTED: LKC "A"  
TEST INTERVAL: 3279-3340 TIME INTERVALS: 60-60-60-60  
RECORDER DEPTH: 3336 VISCOSITY: 0.0128 CP  
BOTTOM HOLE TEMP: 107 HOLE SIZE: 7.875 IN  
COMPRESSIBILITY: 0.9984 GAS GRAVITY: 0.705  
\*\*\*\*\*

\*\*\*\*\*  
TEMPERATURE RANKINE: 567.00 &  
TRANSMISSIBILITY: 17648.75 Kh/%  
THEORITICAL FLOW CAPICITY: 225.90 Kh  
AVERAGE EFFECTIVE PERMEABILITY: 75.30 K(md.)  
RADIUS OF INVESTIGATION: 95.06 FT.  
DAMAGE RATIO: 4.64  
ABSOLUTE OPEN FLOW(MAX) 341.00 MCFD  
ABSOLUTE OPEN FLOW(MIN) 341.00 MCFD  
THEORITICAL OPEN FLOW(MAX) 1583.29 MCFD  
THEORITICAL OPEN FLOW(MIN) 1583.29 MCFD  
POTENTIOMETRIC SURFACE 770.40 (FT.)  
\*\*\*\*\*

INITIAL SHUT-IN VALUES:  
SLOPE 20005.00  
THEORETICAL STATIC PRESSURE 913.62

FINAL SHUT-IN VALUES:  
SLOPE 17905.10  
THEORETICAL STATIC PRESSURE 911.40

DRAWDOWN FACTOR: 0.24 (%)

# **CALCULATED RECOVERY ANALYSIS**

DST # 2

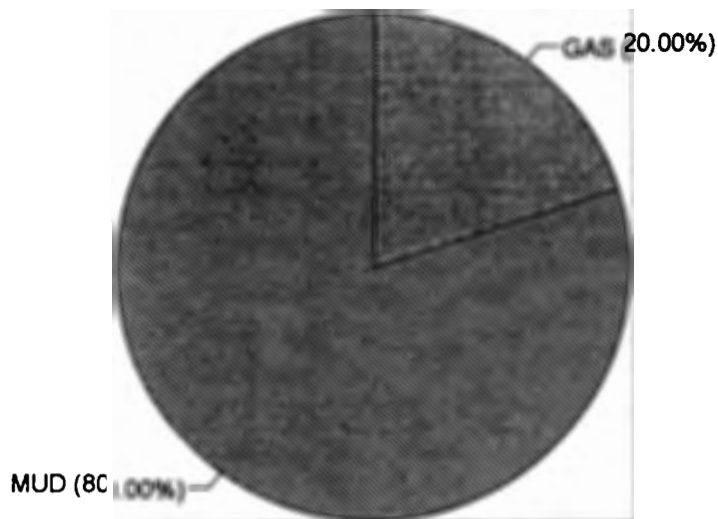
TICKET # 8754

\*\*\*\*\*

| SAMPLE #    | TOTAL FEET | GAS |      | OIL |      | WATER |      | MUD |      |
|-------------|------------|-----|------|-----|------|-------|------|-----|------|
|             |            | %   | FEET | %   | FEET | %     | FEET | %   | FEET |
| DRILL PIPE  | 1          | 20  | 24   |     | 0    |       | 0    | 80  | 96   |
|             | 2          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 3          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 4          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 5          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 6          |     | 0    |     | 0    |       | 0    |     | 0    |
| WEIGHT PIPE | 1          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 2          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 3          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 4          |     | 0    |     | 0    |       | 0    |     | 0    |
| DRL COLLAR  | 1          | 20  | 6    |     | 0    |       | 0    | 80  | 24   |
|             | 2          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 3          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 4          |     | 0    |     | 0    |       | 0    |     | 0    |
|             | 5          |     | 0    |     | 0    |       | 0    |     | 0    |
| TOTAL       | 150        | 20  | 30   | 0   | 0    | 0     | 0    | 80  | 120  |

HRS OPE BBL/DAY

BBL OIL= 0 \* 2.00 0  
 BBL WATER= 0 \* 0  
 BBL MUD= 1.48248  
 BBL GAS = 0.37062



# GAS RECOVERY

COMPANY: AFG Energy Inc

DATE: 10/16/95

WELL NAME: Dechant B #2

KB Elev: 2084.00 ft TICKET #8754

DST #2

WELL LOCATION: 23-16S-18W, Rush Cty KS

GR Elev: 2076.00 ft FORMATION: LKC "A"

INTERVAL Fr.: 3279.00 To 3340.00 T.D.: 3340.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

## \*\*\*\*\* GAS RATES FOR FLOW #1

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 5             | 1.50            | 0                 | 20          | 311000.0       |
| 10            | 1.50            | 0                 | 22          | 326000.0       |
| 15            | 1.50            | 0                 | 22          | 326000.0       |
| 20            | 1.50            | 0                 | 22          | 326000.0       |
| 25            | 1.50            | 0                 | 22          | 326000.0       |
| 30            | 1.50            | 0                 | 22          | 326000.0       |
| 35            | 1.50            | 0                 | 22          | 326000.0       |
| 40            | 1.50            | 0                 | 22          | 326000.0       |
| 45            | 1.50            | 0                 | 22          | 326000.0       |
| 50            | 1.50            | 0                 | 22          | 326000.0       |
| 55            | 1.50            | 0                 | 22          | 326000.0       |
| 60            | 1.50            | 0                 | 22          | 326000.0       |

## \*\*\*\*\* GAS RATES FOR FLOW #2

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 5             | 1.50            | 0                 | 22          | 326000.0       |
| 10            | 1.50            | 0                 | 22          | 326000.0       |
| 15            | 1.50            | 0                 | 22          | 326000.0       |
| 20            | 1.50            | 0                 | 23          | 341000.0       |
| 25            | 1.50            | 0                 | 23          | 341000.0       |
| 30            | 1.50            | 0                 | 23          | 341000.0       |
| 35            | 1.50            | 0                 | 23          | 341000.0       |
| 40            | 1.50            | 0                 | 23          | 341000.0       |
| 45            | 1.50            | 0                 | 23          | 341000.0       |
| 50            | 1.50            | 0                 | 23          | 341000.0       |
| 55            | 1.50            | 0                 | 23          | 341000.0       |
| 60            | 1.50            | 0                 | 23          | 341000.0       |

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number: 950560  
Sample From: Dechant B #2 DST 2  
Producer: AFG Energy  
Date:  
Time:  
Sampler:  
Source:

Analyzed: 10/17/95  
Pressure:  
Temperature:  
Location: 23-16-18  
County: Rush  
State: Kansas  
Formation: Hays

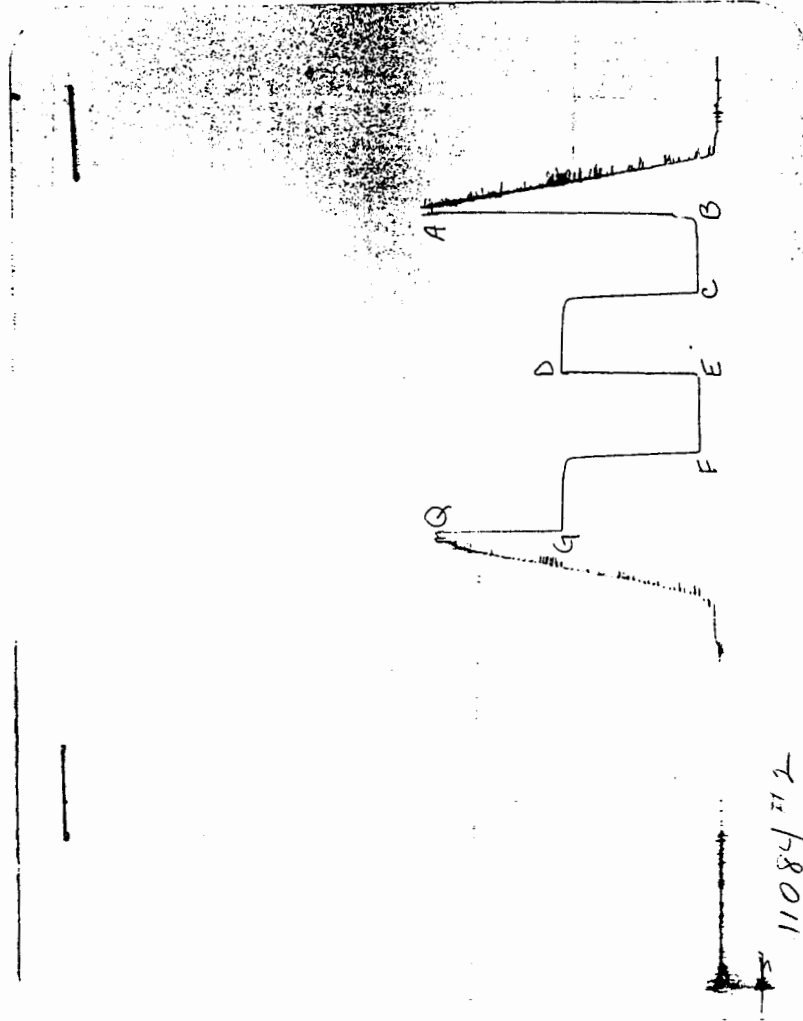
|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 2.233  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 26.017 | 0.000 |
| Carbon Dioxide | CO2: 0.000 | 0.000 |
| Methane        | C1: 66.259 | 0.000 |
| Ethane         | C2: 2.915  | 0.780 |
| Propane        | C3: 1.156  | 0.319 |
| Iso Butane     | iC4: 0.314 | 0.103 |
| Normal Butane  | nC4: 0.438 | 0.138 |
| Iso Pentane    | iC5: 0.155 | 0.057 |
| Normal Pentane | nC5: 0.169 | 0.061 |
| Hexanes Plus   | C6+: 0.344 | 0.150 |

TOTAL: 100.000 1.607  
Z Fact: 0.9984  
SP.GR.: 0.7050  
BTU (SAT): 794.1 @ 14.73 psia  
BTU (DRY): 808.2 @ 14.73 psia  
OCTANE RATING: 91.3

COMMENTS:

0.041

CHART PAGE



This is an actual photograph of recorder chart

# INITIAL FLOW

DST # 2

RECORDER 11084

| <>               |                 |                 |
|------------------|-----------------|-----------------|
| <u>TIME(MIN)</u> | <u>PRESSURE</u> | <u>PRESSURE</u> |
| 0                | 122.8           | 122.8           |
| 3                | 122.8           | 0.0             |
| 6                | 122.8           | 0.0             |
| 9                | 122.8           | 0.0             |
| 12               | 122.8           | 0.0             |
| 15               | 122.8           | 0.0             |
| 18               | 122.8           | 0.0             |
| 21               | 122.8           | 0.0             |
| 24               | 122.8           | 0.0             |
| 27               | 123.9           | 1.1             |
| 30               | 123.9           | 0.0             |
| 33               | 123.9           | 0.0             |
| 36               | 123.9           | 0.0             |
| 39               | 123.9           | 0.0             |
| 42               | 123.9           | 0.0             |
| 45               | 123.9           | 0.0             |
| 48               | 123.9           | 0.0             |
| 51               | 123.9           | 0.0             |
| 54               | 123.9           | 0.0             |
| 57               | 123.9           | 0.0             |
| 60               | 123.9           | 0.0             |

# FINAL FLOW

DST # 2

RECORDER 11084

| TIME(MIN) | PRESSURE | <>       |
|-----------|----------|----------|
|           |          | PRESSURE |
| 0         | 111.8    | 111.8    |
| 3         | 111.8    | 0.0      |
| 6         | 111.8    | 0.0      |
| 9         | 111.8    | 0.0      |
| 12        | 114.02   | 2.2      |
| 15        | 114.02   | 0.0      |
| 18        | 115.12   | 1.1      |
| 21        | 115.12   | 0.0      |
| 24        | 116.2    | 1.1      |
| 27        | 117.3    | 1.1      |
| 30        | 117.3    | 0.0      |
| 33        | 117.3    | 0.0      |
| 36        | 117.3    | 0.0      |
| 39        | 117.3    | 0.0      |
| 42        | 117.3    | 0.0      |
| 45        | 117.3    | 0.0      |
| 48        | 117.3    | 0.0      |
| 51        | 117.3    | 0.0      |
| 54        | 117.3    | 0.0      |
| 57        | 117.3    | 0.0      |
| 60        | 117.3    | 0.0      |

# INITIAL SHUT-IN

Dechant B #2

DST # 2

INITIAL FLOW TIME 60

SLOPE

P\*

20005.0

913.62

PSI/CYCLE

PSI

|   | <u>TIME(MIN)</u> | <u>Pws (psi)</u> | <u>Log</u><br><u>Horn T</u> | <u>&lt;&gt;</u><br><u>PRESSURE</u> | <u>Horn T</u> |
|---|------------------|------------------|-----------------------------|------------------------------------|---------------|
|   | 3                | 576.87           | 1.322                       | 576.9                              | 21            |
|   | 6                | 866.88           | 1.041                       | 290.0                              | 11            |
|   | 9                | 878.79           | 0.885                       | 11.9                               | 8             |
|   | 12               | 885.29           | 0.778                       | 6.5                                | 6             |
|   | 15               | 889.62           | 0.699                       | 4.3                                | 5             |
|   | 18               | 891.78           | 0.637                       | 2.2                                | 4             |
|   | 21               | 892.87           | 0.586                       | 1.1                                | 4             |
|   | 24               | 893.95           | 0.544                       | 1.1                                | 4             |
| Q | 27               | 895.03           | 0.508                       | 1.1                                | 3             |
|   | 30               | 897.20           | 0.477                       | 2.2                                | 3             |
|   | 33               | 898.28           | 0.450                       | 1.1                                | 3             |
|   | 36               | 898.28           | 0.426                       | 0.0                                | 3             |
|   | 39               | 899.36           | 0.405                       | 1.1                                | 3             |
|   | 42               | 900.44           | 0.385                       | 1.1                                | 2             |
|   | 45               | 900.44           | 0.368                       | 0.0                                | 2             |
|   | 48               | 900.44           | 0.352                       | 0.0                                | 2             |
|   | 51               | 901.53           | 0.338                       | 1.1                                | 2             |
|   | 54               | 901.53           | 0.325                       | 0.0                                | 2             |
|   | 57               | 901.53           | 0.312                       | 0.0                                | 2             |
| X | 60               | 902.61           | 0.301                       | 1.1                                | 2             |

**FINAL SHUT-IN**

Dechant B #2

DST # 2

TOTAL FLOW TIME 120

SLOPE

17905.1

PSI/CYCLE

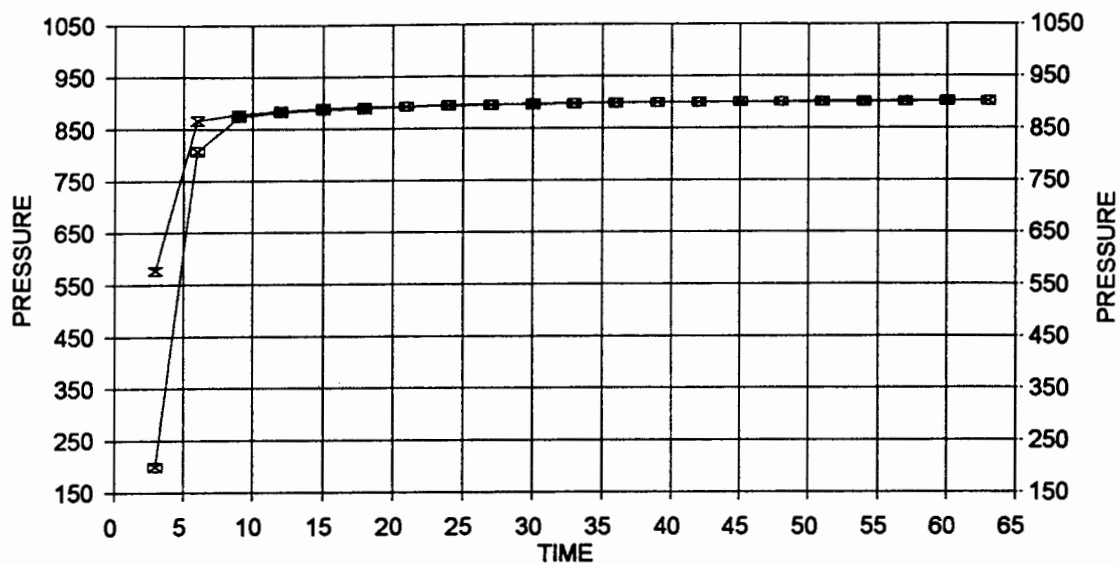
P\*

911.40

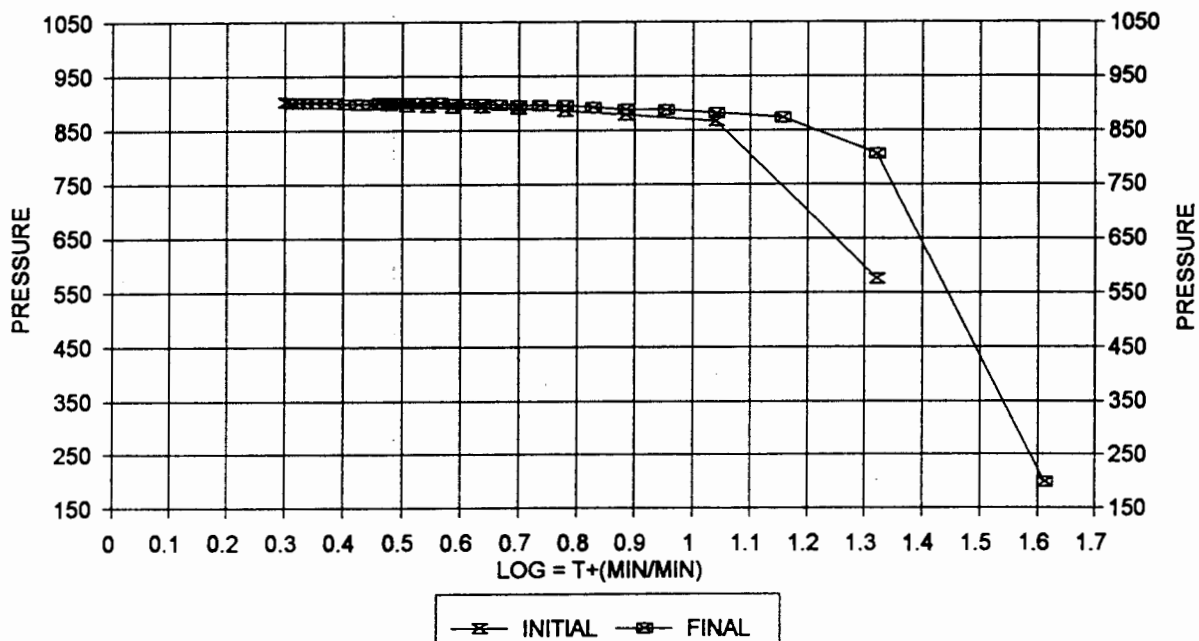
PSI

|   | <u>TIME(MIN)</u> | <u>Pws (psi)</u> | <u>Log<br/>Hom T</u> | <u>&lt;&gt;<br/>PRESSURE</u> | <u>Hom T</u> |
|---|------------------|------------------|----------------------|------------------------------|--------------|
|   | 3                | 199.55           | 1.613                | 199.6                        | 41           |
|   | 6                | 807.38           | 1.322                | 607.8                        | 21           |
|   | 9                | 873.37           | 1.156                | 66.0                         | 14           |
|   | 12               | 882.04           | 1.041                | 8.7                          | 11           |
|   | 15               | 887.45           | 0.954                | 5.4                          | 9            |
|   | 18               | 888.53           | 0.885                | 1.1                          | 8            |
|   | 21               | 892.87           | 0.827                | 4.3                          | 7            |
|   | 24               | 896.11           | 0.778                | 3.2                          | 6            |
|   | 27               | 896.11           | 0.736                | 0.0                          | 5            |
|   | 30               | 896.11           | 0.699                | 0.0                          | 5            |
| Q | 33               | 897.20           | 0.666                | 1.1                          | 5            |
|   | 36               | 899.36           | 0.637                | 2.2                          | 4            |
|   | 39               | 899.36           | 0.610                | 0.0                          | 4            |
|   | 42               | 899.36           | 0.586                | 0.0                          | 4            |
|   | 45               | 900.44           | 0.564                | 1.1                          | 4            |
|   | 48               | 900.44           | 0.544                | 0.0                          | 4            |
|   | 51               | 900.44           | 0.525                | 0.0                          | 3            |
|   | 54               | 900.44           | 0.508                | -0.0                         | 3            |
|   | 57               | 900.44           | 0.492                | 0.0                          | 3            |
|   | 60               | 901.53           | 0.477                | 1.1                          | 3            |
| X | 63               | 901.53           | 0.463                | 0.0                          | 3            |

# DELTA T DELTA P DECHANT B #2 / DST#2



# HORNER PLOT



# TRILOBITE TESTING L.L.C.

OR : AFG Energy Inc  
 NAME: Dechant B #2  
 ION : 23-16S-18W, Rush Cty KS  
 VAL : 3348.00 To 3360.00 ft

DATE 10/16/95  
 KB 2084.00 ft  
 GR 2076.00 ft  
 TD 3360.00 ft

TICKET NO: 8755  
 FORMATION: LKC "C"  
 TEST TYPE: CONVENTIONAL

DST #3

## DER DATA

|                | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|----------------|--------|--------|--------|-----|-----|------------------------|
| 50 Rec.        | 13252  | 13252  | 11084  |     |     | PF Fr. 2215 to 2315 hr |
| 50 Range(Psi ) | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 | IS Fr. 2315 to 0015 hr |
| 50 Clock(hrs)  | AK-1   | AK-1   | AK-1   |     |     | SF Fr. 0015 to 0115 hr |
| 50 Depth(ft )  | 3352.0 | 3352.0 | 3356.0 | 0.0 | 0.0 | FS Fr. 0115 to 0215 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| 50 Bit Hydro   | 1646.0 | 1642.0 | 0.0 | 0.0 | 0.0 | T STARTED 2115 hr             |
| 50 First Flow  | 46.0   | 45.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 2213 hr             |
| 50 Final Flow  | 46.0   | 51.0   | 0.0 | 0.0 | 0.0 | T OPEN 2215 hr                |
| 50 Shut-in     | 745.0  | 740.0  | 0.0 | 0.0 | 0.0 | T PULLED 0215 hr              |
| 50 Bit Flow    | 46.0   | 47.0   | 0.0 | 0.0 | 0.0 | T OUT 0315 hr                 |
| 50 Final Flow  | 46.0   | 41.0   | 0.0 | 0.0 | 0.0 |                               |
| 50 Shut-in     | 722.0  | 735.0  | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| 50 Final Hydro | 1600.0 | 1619.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs             |
| 50 /Outside    | I      | I      | O   |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 45000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 37000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 37000.00 lbs  |
|                |        |        |     |     |     | Bot Choke 0.75 in             |
|                |        |        |     |     |     | Hole Size 7.88 in             |
|                |        |        |     |     |     | D Col. ID 2.25 in             |
|                |        |        |     |     |     | D. Pipe ID 3.80 in            |
|                |        |        |     |     |     | D.C. Length 30.00 ft          |
|                |        |        |     |     |     | D.P. Length 3297.00 ft        |

50 RY  
 50 uid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 50 ft of Gassy mud - 20% gas, 80% mud

50 ft of pay (est)  
 50 FY 0.00 P.P.M. A.P.I. Gravity 0.00

## DESCRIPTION

50 Blow -  
 50 ng, bottom of bucket in 30 sec;  
 50 to surface in 5 min

50 Blow -  
 50 ng, bottom of bucket as soon as  
 50 opened

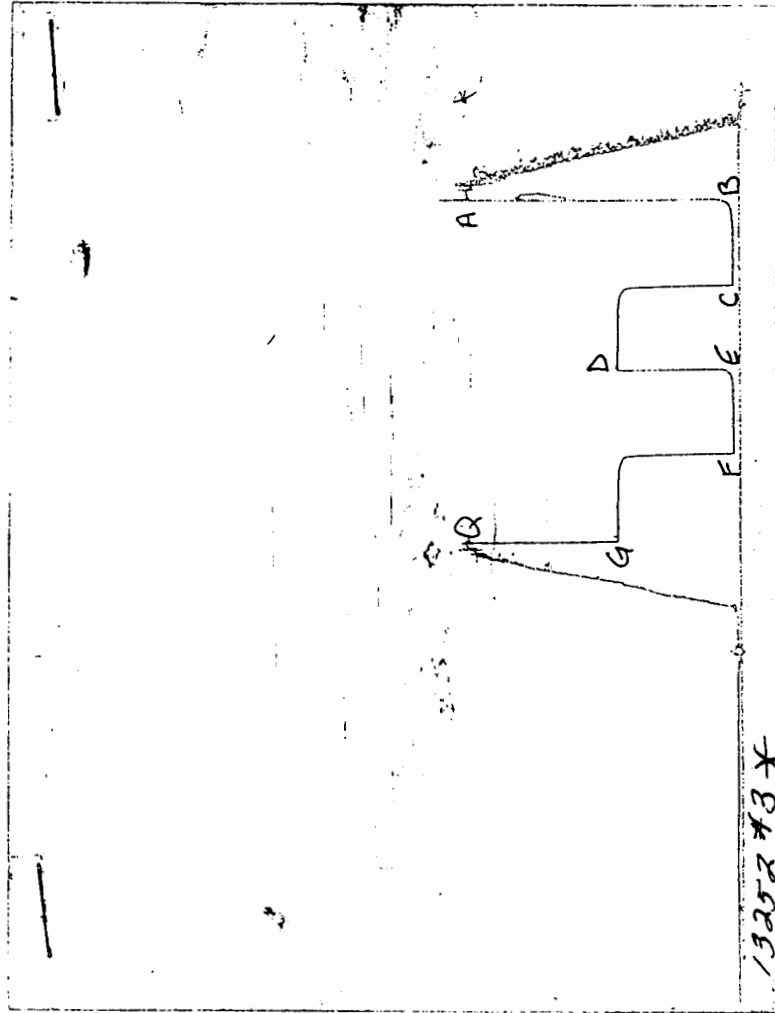
MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/cf  
 Vis. 52.00 S/L  
 W.L. 8.00 in3  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 107.00 F  
 Hole Condition  
 % Porosity 15.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00

Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Dan Bangle  
 Co. Rep. Ed Glassman  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

# CALCULATED RECOVERY ANALYSIS DRILL COLLARS

ST # 3

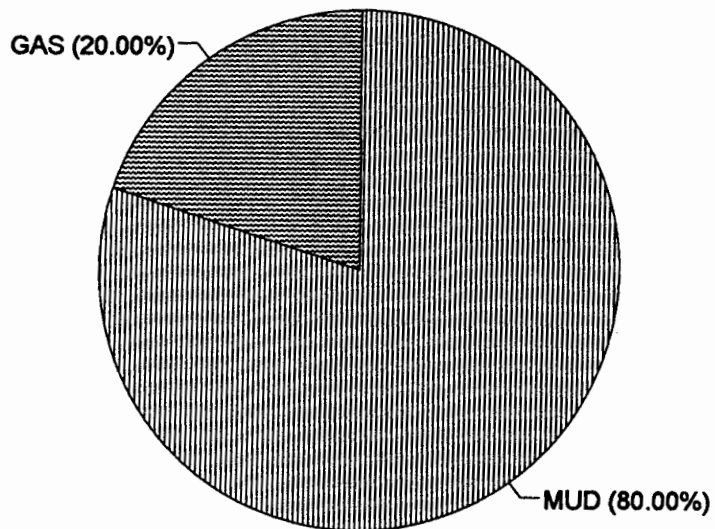
TICKET # 8755

\*\*\*\*\*

| WELL  | TOTAL | GAS   |      | OIL  |      | WATER |      | MUD |      |
|-------|-------|-------|------|------|------|-------|------|-----|------|
|       | FEET  | %     | FEET | %    | FEET | %     | FEET | %   | FEET |
|       | 5     | 20    | 1    |      | 0    |       | 0    | 80  | 4    |
|       |       |       | 0    |      | 0    |       | 0    |     | 0    |
| 3     |       |       | 0    |      | 0    |       | 0    |     | 0    |
| 4     |       |       | 0    |      | 0    |       | 0    |     | 0    |
| 5     |       |       | 0    |      | 0    |       | 0    |     | 0    |
| TOTAL | 5     | 20.00 | 1    | 0.00 | 0    | 0.00  | 0    | 80  | 4    |

HRS OPEN BBL/DAY

3L OIL= 0 \* 2.00 0  
 3L WATER 0 \* 0  
 3L MUD= 0.01956  
 3L GAS= 0.00489



# GAS RECOVERY -----

COMPANY: AFG Energy Inc

DATE: 10/16/95

WELL NAME: Dechant B #2

KB Elev: 2084.00 ft TICKET #8755 DST #3

WELL LOCATION: 23-16S-18W, Rush Cty KS

GR Elev: 2076.00 ft FORMATION: LKC "C"

INTERVAL Fr.: 3348.00 To 3360.00 T.D.: 3360.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

## \*\*\*\* GAS RATES FOR FLOW #1

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 5             | 1.00            | 0                 | 26          | 132000.0       |
| 10            | 1.00            | 0                 | 28          | 137000.0       |
| 15            | 1.00            | 0                 | 28          | 137000.0       |
| 20            | 1.00            | 0                 | 28          | 137000.0       |
| 25            | 1.00            | 0                 | 28          | 137000.0       |
| 30            | 1.00            | 0                 | 30          | 141000.0       |
| 35            | 1.00            | 0                 | 30          | 141000.0       |
| 40            | 1.00            | 0                 | 30          | 141000.0       |
| 45            | 1.00            | 0                 | 30          | 141000.0       |
| 50            | 1.00            | 0                 | 30          | 141000.0       |
| 55            | 1.00            | 0                 | 30          | 141000.0       |
| 60            | 1.00            | 0                 | 30          | 141000.0       |

## \*\*\*\* GAS RATES FOR FLOW #2

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 5             | 1.00            | 0                 | 30          | 141000.0       |
| 10            | 1.00            | 0                 | 30          | 141000.0       |
| 15            | 1.00            | 0                 | 30          | 141000.0       |
| 20            | 1.00            | 0                 | 30          | 141000.0       |
| 25            | 1.00            | 0                 | 30          | 141000.0       |
| 30            | 1.00            | 0                 | 30          | 141000.0       |
| 35            | 1.00            | 0                 | 30          | 141000.0       |
| 40            | 1.00            | 0                 | 30          | 141000.0       |
| 45            | 1.00            | 0                 | 30          | 141000.0       |
| 50            | 1.00            | 0                 | 30          | 141000.0       |
| 55            | 1.00            | 0                 | 30          | 141000.0       |
| 60            | 1.00            | 0                 | 30          | 141000.0       |

ORIGINAL

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number: 950563  
Sample From: Dechant B #2 DST 3  
Producer: AFG Energy  
Date:  
Time:  
Sampler:  
Source:

Analyzed: 10/18/95  
Pressure:  
Temperature:  
Location: 23-16-18  
County: Rush  
State: Kansas  
Formation: KC

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 2.216  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 25.732 | 0.000 |
| Carbon Dioxide | CO2: 0.167 | 0.000 |
| Methane        | C1: 65.879 | 0.000 |
| Ethane         | C2: 2.984  | 0.798 |
| Propane        | C3: 1.268  | 0.349 |
| Iso Butane     | iC4: 0.343 | 0.112 |
| Normal Butane  | nC4: 0.472 | 0.149 |
| Iso Pentane    | iC5: 0.160 | 0.059 |
| Normal Pentane | nC5: 0.164 | 0.059 |
| Hexanes Plus   | C6+: 0.615 | 0.268 |

TOTAL: 100.000 1.795  
Z Fact: 0.9983  
SP.GR.: 0.7151  
BTU (SAT): 810.1 @ 14.73 psia  
BTU (DRY): 824.5 @ 14.73 psia  
OCTANE RATING: 91.0

COMMENTS:

0.000

**COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.****AFG ENERGY INC****DECHANT B #2**  
**23 16S 18W****DST # 3**  
**RUSH COUNTY**

\*\*\*\*\*

|                   |           |    |                 |             |
|-------------------|-----------|----|-----------------|-------------|
| ELEVATION:        | 2084      | KB | EST. PAY:       | 3 FT.       |
| DATUM:            | -1269     |    | ZONE TESTED:    | LKC         |
| TEST INTERVAL:    | 3348-3360 |    | TIME INTERVALS: | 60-60-60-60 |
| RECORDER DEPTH:   | 3352      |    | VISCOSITY:      | 0.0124 CP   |
| BOTTOM HOLE TEMP: | 107       |    | HOLE SIZE:      | 7.875 IN    |
| COMPRESSIBILITY:  | 0.9983    |    | GAS GRAVITY:    | 0.7151      |

\*\*\*\*\*

|                                 |          |        |
|---------------------------------|----------|--------|
| TEMPERATURE RANKINE:            | 567.00   | &      |
| TRANSMISSIBILITY:               | 15365.43 | Kh/%   |
| THEORITICAL FLOW CAPICITY:      | 190.53   | Kh     |
| AVERAGE EFFECTIVE PERMEABILITY: | 63.51    | K(md.) |
| RADIUS OF INVESTIGATION:        | 87.30    | FT.    |
| DAMAGE RATIO:                   | 6.68     |        |
| ABSOLUTE OPEN FLOW(MAX)         | 141.00   | MCFD   |
| ABSOLUTE OPEN FLOW(MIN)         | 141.00   | MCFD   |
| THEORITICAL OPEN FLOW(MAX)      | 942.06   | MCFD   |
| THEORITICAL OPEN FLOW(MIN)      | 942.06   | MCFD   |
| POTENTIOMETRIC SURFACE          | 376.35   | (FT.)  |

\*\*\*\*\*

INITIAL SHUT-IN VALUES:

|                             |         |
|-----------------------------|---------|
| SLOPE                       | 4029.50 |
| THEORETICAL STATIC PRESSURE | 742.53  |

FINAL SHUT-IN VALUES:

|                             |         |
|-----------------------------|---------|
| SLOPE                       | 8502.90 |
| THEORETICAL STATIC PRESSURE | 741.03  |

DRAWDOWN FACTOR: 0.20 (%)

# INITIAL FLOW

DST # 3

RECORDER 13252

| <>               |                 |                 |
|------------------|-----------------|-----------------|
| <u>TIME(MIN)</u> | <u>PRESSURE</u> | <u>PRESSURE</u> |
| 0                | 44.93           | 44.9            |
| 3                | 44.93           | 0.0             |
| 6                | 44.93           | 0.0             |
| 9                | 44.93           | 0.0             |
| 12               | 44.93           | 0.0             |
| 15               | 44.93           | 0.0             |
| 18               | 44.93           | 0.0             |
| 21               | 44.93           | 0.0             |
| 24               | 44.93           | 0.0             |
| 27               | 44.93           | 0.0             |
| 30               | 44.93           | 0.0             |
| 33               | 44.93           | 0.0             |
| 36               | 44.93           | 0.0             |
| 39               | 44.93           | 0.0             |
| 42               | 44.93           | 0.0             |
| 45               | 44.93           | 0.0             |
| 48               | 46.08           | 1.2             |
| 51               | 46.08           | 0.0             |
| 54               | 47.23           | 1.2             |
| 57               | 48.38           | 1.2             |
| 60               | 49.54           | 1.2             |
| 63               | 50.69           | 1.2             |
| 66               | 50.69           | 0.0             |

# FINAL FLOW

DST # 3

RECORDER 13252

| TIME(MIN) | PRESSURE | <>       |
|-----------|----------|----------|
|           |          | PRESSURE |
| 0         | 47.23    | 47.2     |
| 3         | 47.23    | 0.0      |
| 6         | 47.23    | 0.0      |
| 9         | 47.23    | 0.0      |
| 12        | 46.08    | -1.2     |
| 15        | 46.08    | 0.0      |
| 18        | 46.08    | 0.0      |
| 21        | 44.93    | -1.2     |
| 24        | 44.93    | 0.0      |
| 27        | 43.78    | -1.2     |
| 30        | 42.62    | -1.2     |
| 33        | 41.47    | -1.2     |
| 36        | 40.32    | -1.2     |
| 39        | 40.32    | 0.0      |
| 42        | 41.47    | 1.2      |
| 45        | 41.47    | 0.0      |
| 48        | 41.47    | 0.0      |
| 51        | 41.47    | 0.0      |
| 54        | 41.47    | 0.0      |
| 57        | 41.47    | 0.0      |
| 60        | 41.47    | 0.0      |
| 63        | 41.47    | 0.0      |

# INITIAL SHUT-IN

DECHANT B #2

DST # 3

INITIAL FLOW TIME 60

SLOPE

P\*

4029.5

742.53

PSI/CYCLE

PSI

|   | <u>TIME(MIN)</u> | <u>Pws (psi)</u> | <u>Log</u><br><u>Hom T</u> | <u>&lt;&gt;</u><br><u>PRESSURE</u> | <u>Hom T</u> |
|---|------------------|------------------|----------------------------|------------------------------------|--------------|
|   | KK               | 702.29           | ERR                        | 702.3                              | ERR          |
|   | 6                | 713.67           | 1.041                      | 11.4                               | 11           |
|   | 9                | 727.31           | 0.885                      | 13.6                               | 8            |
|   | 12               | 734.13           | 0.778                      | 6.8                                | 6            |
|   | 15               | 737.54           | 0.699                      | 3.4                                | 5            |
|   | 18               | 738.68           | 0.637                      | 1.1                                | 4            |
|   | 21               | 738.68           | 0.586                      | 0.0                                | 4            |
|   | 24               | 738.68           | 0.544                      | 0.0                                | 4            |
|   | 27               | 738.68           | 0.508                      | 0.0                                | 3            |
|   | 30               | 738.68           | 0.477                      | 0.0                                | 3            |
|   | 33               | 738.68           | 0.450                      | 0.0                                | 3            |
|   | 36               | 738.68           | 0.426                      | 0.0                                | 3            |
|   | 39               | 738.68           | 0.405                      | 0.0                                | 3            |
| Q | 42               | 738.68           | 0.385                      | 0.0                                | 2            |
|   | 45               | 739.81           | 0.368                      | 1.1                                | 2            |
|   | 48               | 739.81           | 0.352                      | 0.0                                | 2            |
|   | 51               | 739.81           | 0.338                      | 0.0                                | 2            |
|   | 54               | 739.81           | 0.325                      | 0.0                                | 2            |
|   | 57               | 739.81           | 0.312                      | 0.0                                | 2            |
|   | 60               | 739.81           | 0.301                      | 0.0                                | 2            |
|   | 63               | 739.81           | 0.291                      | 0.0                                | 2            |
|   | 66               | 739.81           | 0.281                      | 0.0                                | 2            |
| X | 69               | 739.81           | 0.272                      | 0.0                                | 2            |

**FINAL SHUT-IN**

DECHANT B #2

DST # 3

TOTAL FLOW TIME 120

SLOPE

8502.9

PSI/CYCLE

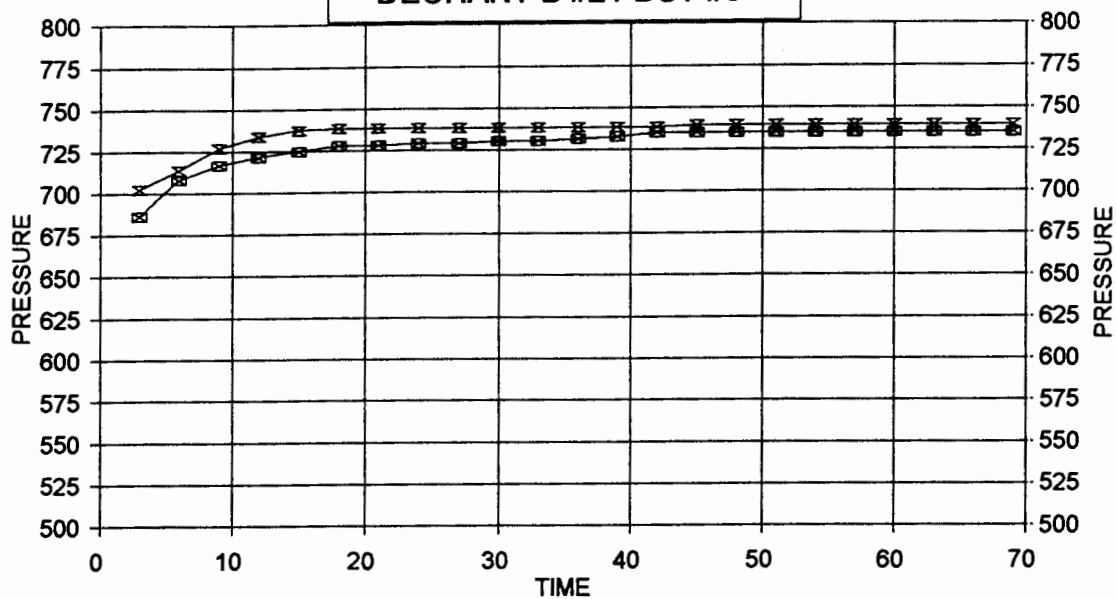
P\*

741.03

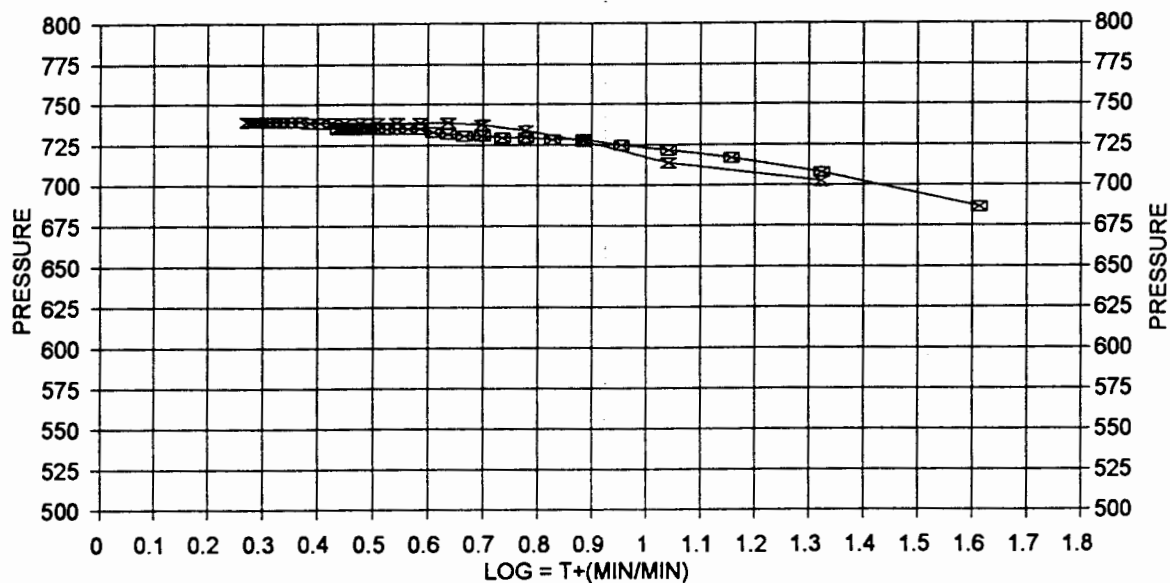
PSI

|   | <u>TIME(MIN)</u> | <u>Pws (psi)</u> | Log<br><u>Hom T</u> | <><br><u>PRESSURE</u> | <u>Hom T</u> |
|---|------------------|------------------|---------------------|-----------------------|--------------|
|   | 3                | 686.37           | 1.613               | 686.4                 | 41           |
|   | 6                | 707.98           | 1.322               | 21.6                  | 21           |
|   | 9                | 717.08           | 1.156               | 9.1                   | 14           |
|   | 12               | 721.63           | 1.041               | 4.5                   | 11           |
|   | 15               | 725.04           | 0.954               | 3.4                   | 9            |
|   | 18               | 728.45           | 0.885               | 3.4                   | 8            |
|   | 21               | 728.45           | 0.827               | 0.0                   | 7            |
|   | 24               | 729.58           | 0.778               | 1.1                   | 6            |
|   | 27               | 729.58           | 0.736               | 0.0                   | 5            |
|   | 30               | 730.72           | 0.699               | 1.1                   | 5            |
|   | 33               | 730.72           | 0.666               | 0.0                   | 5            |
|   | 36               | 731.86           | 0.637               | 1.1                   | 4            |
| Q | 39               | 732.99           | 0.610               | 1.1                   | 4            |
|   | 42               | 735.27           | 0.586               | 2.3                   | 4            |
|   | 45               | 735.27           | 0.564               | 0.0                   | 4            |
|   | 48               | 735.27           | 0.544               | 0.0                   | 4            |
|   | 51               | 735.27           | 0.525               | 0.0                   | 3            |
|   | 54               | 735.27           | 0.508               | 0.0                   | 3            |
|   | 57               | 735.27           | 0.492               | 0.0                   | 3            |
|   | 60               | 735.27           | 0.477               | 0.0                   | 3            |
|   | 63               | 735.27           | 0.463               | 0.0                   | 3            |
|   | 66               | 735.27           | 0.450               | 0.0                   | 3            |
| X | 69               | 735.27           | 0.438               | 0.0                   | 3            |

# DELTA T DELTA P DECHANT B #2 / DST #3



# HORNER PLOT



—x— INITIAL —o— FINAL

# TRILOBITE TESTING L.L.C.

OPERATOR : AFG Energy Inc

DATE 10/17/95

WELL NAME: Dechant B #2

KB 2084.00 ft

TICKET NO: 8756

DST #4

LOCATION : 23-16S-18W, Rush Cty KS

GR 2076.00 ft

FORMATION: LKC

INTERVAL : 3396.00 To 3442.00 ft

TD 3442.00 ft

TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec.        | 13252  | 13252  | 11084  |     |     | PF Fr. 1417 to 1432 hr |
| SI 15 Range(Psi ) | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 | IS Fr. 1432 to 1447 hr |
| SF 15 Clock(hrs)  | AK-1   | AK-1   | AK-1   |     |     | SF Fr. 1447 to 1502 hr |
| FS 15 Depth(ft )  | 3432.0 | 3432.0 | 3438.0 | 0.0 | 0.0 | FS Fr. 1502 to 1517 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 1704.0 | 1693.0 | 0.0 | 0.0 | 0.0 | T STARTED 1330 hr             |
| B. First Flow  | 57.0   | 54.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1415 hr             |
| Bl. Final Flow | 57.0   | 54.0   | 0.0 | 0.0 | 0.0 | T OPEN 1417 hr                |
| C. In Shut-in  | 126.0  | 127.0  | 0.0 | 0.0 | 0.0 | T PULLED 1517 hr              |
| D. Init Flow   | 57.0   | 63.0   | 0.0 | 0.0 | 0.0 | T OUT hr                      |
| E. Final Flow  | 57.0   | 63.0   | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 92.0   | 88.0   | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 1669.0 | 1674.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs             |
| Inside/Outside | I      | I      | O   |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 40000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 37000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 37000.00 lbs  |
|                |        |        |     |     |     | Bot Choke 0.75 in             |
|                |        |        |     |     |     | Hole Size 7.88 in             |
|                |        |        |     |     |     | D Col. ID 2.25 in             |
|                |        |        |     |     |     | D. Pipe ID 3.80 in            |
|                |        |        |     |     |     | D.C. Length 30.00 ft          |
|                |        |        |     |     |     | D.P. Length 3345.00 ft        |

## RECOVERY

Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP  
20.00 ft of Drilling mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Blow -  
Weak, steady surface blow

Final Blow -  
Weak, steady surface blow, flushed  
tool

SAMPLES:

SENT TO:

## MUD DATA-----

| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 9.00 lb/  |
| Vis.     | 46.00 S/L |
| W.L.     | 8.80 in3  |
| F.C.     | 0.00 in   |
| Mud Drop |           |

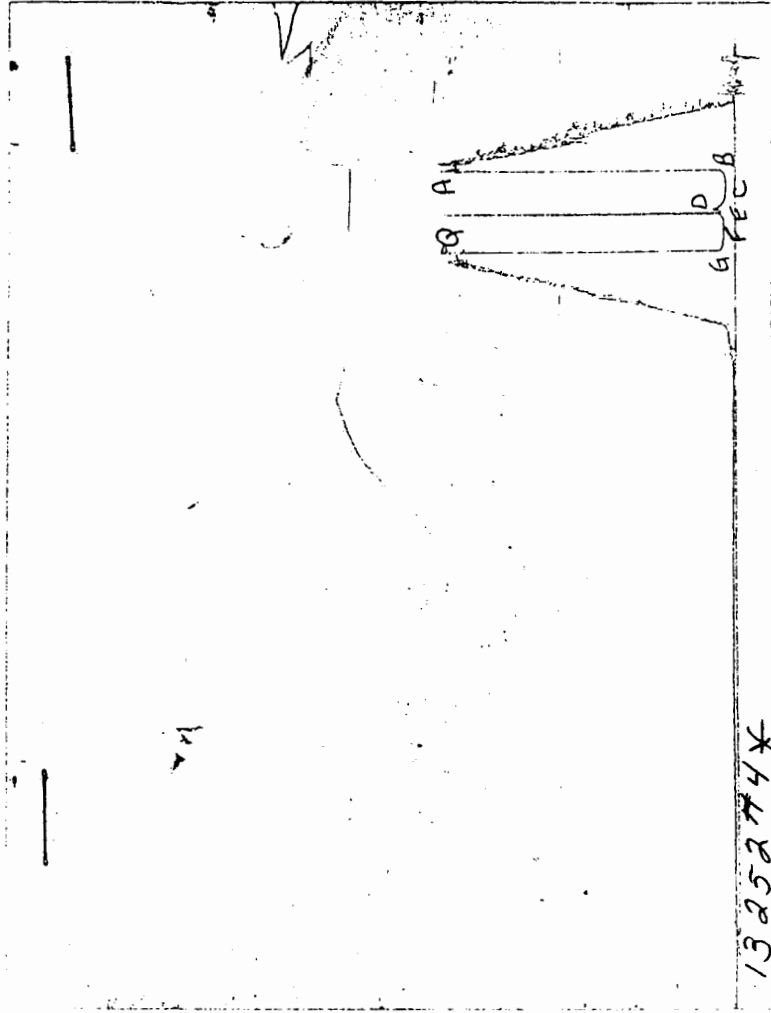
|               |          |
|---------------|----------|
| Amt. of fill  | 0.00 ft  |
| Btm. H. Temp. | 108.00 F |

|                |         |
|----------------|---------|
| Hole Condition |         |
| % Porosity     | 0.00    |
| Packer Size    | 6.75 in |
| No. of Packers | 2       |
| Cushion Amt.   | 0.00    |

|              |             |
|--------------|-------------|
| Cushion Type |             |
| Reversed Out |             |
| Tool Chased  |             |
| Tester       | Dan Bangle  |
| Co. Rep.     | Ed Glassman |
| Contr.       | Discovery   |
| Rig #        | 1           |
| Unit #       |             |
| Pump T.      |             |

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : AFG Energy Inc

DATE 10/18/95

WELL NAME: Dechant B #2

KB 2084.00 ft

TICKET NO: 8757

DST #5

LOCATION : 23-16S-18W, Rush Cty KS

GR 2076.00 ft

FORMATION: LKC

INTERVAL : 3478.00 To 3500.00 ft

TD 3500.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 13252  | 13252  | 11084  |     |     | PF Fr. 0255 to 0325 hr |
| SI 30 Range(Psi ) | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 | IS Fr. 0325 to 0355 hr |
| SF 30 Clock(hrs)  | AK-1   | AK-1   | AK-1   |     |     | SF Fr. 0355 to 0425 hr |
| FS 30 Depth(ft )  | 3491.0 | 3491.0 | 3496.0 | 0.0 | 0.0 | FS Fr. 0425 to 0455 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 1784.0 | 1792.0 | 0.0 | 0.0 | 0.0 | T STARTED 0155 hr             |
| B. First Flow  | 57.0   | 47.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 0253 hr             |
| B1. Final Flow | 57.0   | 47.0   | 0.0 | 0.0 | 0.0 | T OPEN 0255 hr                |
| C. In Shut-in  | 802.0  | 789.0  | 0.0 | 0.0 | 0.0 | T PULLED 0455 hr              |
| D. Init Flow   | 57.0   | 59.0   | 0.0 | 0.0 | 0.0 | T OUT 0615 hr                 |
| E. Final Flow  | 57.0   | 59.0   | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 745.0  | 743.0  | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 1761.0 | 1750.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs             |
| Inside/Outside | I      | I      | O   |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 0.00 lbs      |
|                |        |        |     |     |     | Initial Str Wt 40000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 0.00 lbs      |
|                |        |        |     |     |     | Bot Choke 0.75 in             |
|                |        |        |     |     |     | Hole Size 7.88 in             |
|                |        |        |     |     |     | D Col. ID 2.25 in             |
|                |        |        |     |     |     | D. Pipe ID 3.80 in            |
|                |        |        |     |     |     | D.C. Length 30.00 ft          |
|                |        |        |     |     |     | D.P. Length 3427.00 ft        |

RECOVERY

Tot Fluid 80.00 ft of 30.00 ft in DC and 50.00 ft in DP  
 5.00 ft of Clean oil - 100% oil  
 75.00 ft of Oil cut mud - 5% oil, 95% mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -  
 Weak, building to 6" fair blow

Final Blow -  
 Weak, building to 3" fair blow

SAMPLES:

SENT TO:

MUD DATA-----

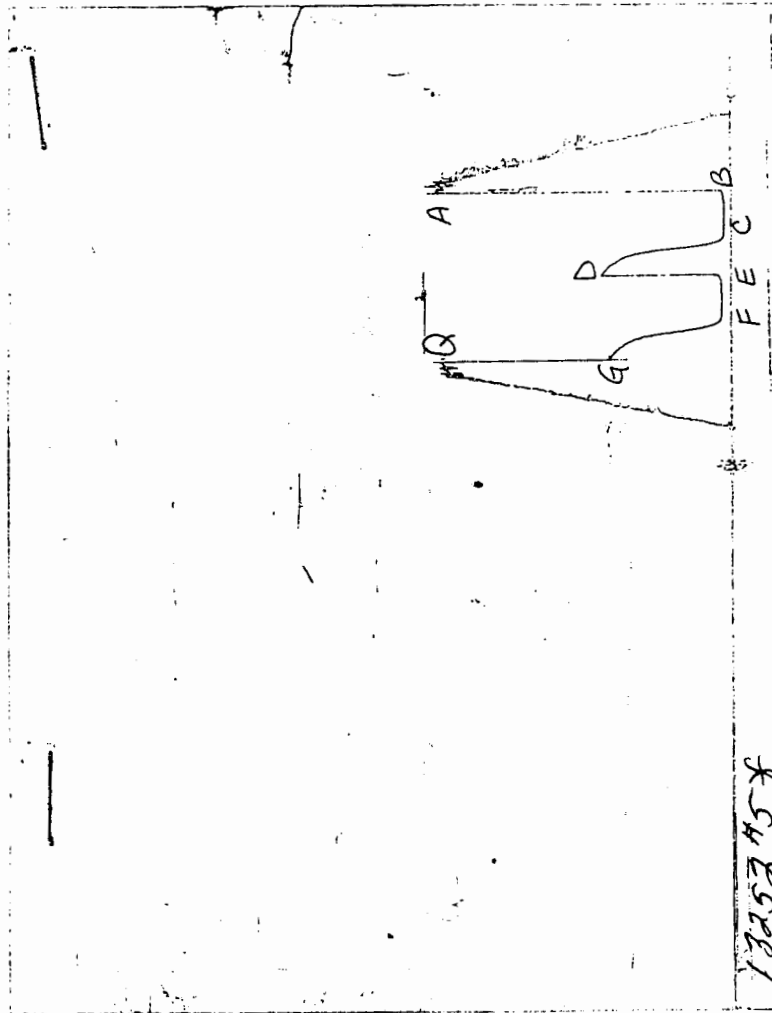
| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 9.00 lb/c |
| Vis.     | 46.00 S/L |
| W.L.     | 8.80 in3  |
| F.C.     | 0.00 in   |
| Mud Drop |           |

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 110.00 F |
| Hole Condition |          |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00     |
| Cushion Type   |          |
| Reversed Out   |          |
| Tool Chased    |          |

|          |             |
|----------|-------------|
| Tester   | Dan Bangle  |
| Co. Rep. | Ed Glassman |
| Contr.   | Discovery   |
| Rig #    | 1           |
| Unit #   |             |
| Pump T.  |             |

Test Successful: Y

CHART PAGE



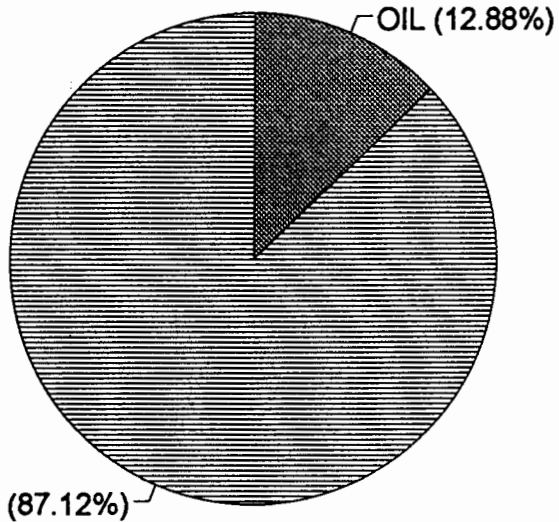
This is an actual photograph of recorder chart

# CALCULATED RECOVERY ANALYSIS

DST # 5

TICKET # 8757

| SAMPLE #        | TOTAL FEET | GAS % | FEET | OIL %   | FEET    | WATER % | FEET | MUD %   | FEET  |
|-----------------|------------|-------|------|---------|---------|---------|------|---------|-------|
| DRILL PIPE      | 1 5        |       | 0    | 100     | 5       |         | 0    |         | 0     |
|                 | 2 45       |       | 0    | 5       | 2.25    |         | 0    | 95      | 42.75 |
|                 | 3          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 4          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 5          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 6          |       | 0    |         | 0       |         | 0    |         | 0     |
| WEIGHT PIPE     | 1          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 2          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 3          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 4          |       | 0    |         | 0       |         | 0    |         | 0     |
| DRL COLLAR      | 1 30       |       | 0    | 5       | 1.5     |         | 0    | 95      | 28.5  |
|                 | 2          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 3          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 4          |       | 0    |         | 0       |         | 0    |         | 0     |
|                 | 5          |       | 0    |         | 0       |         | 0    |         | 0     |
| TOTAL           | 80         | 0     | 0    | 10.9375 | 8.75    | 0       | 0    | 89.0625 | 71.25 |
| HRS OPE BBL/DAY |            |       |      |         |         |         |      |         |       |
| BBL OIL=        | 0.11043    | *     |      | 1.00    | 2.65032 |         |      |         |       |
| BBL WATER=      | 0          | *     |      |         | 0       |         |      |         |       |
| BBL MUD=        | 0.74727    |       |      |         |         |         |      |         |       |
| BBL GAS =       | 0          |       |      |         |         |         |      |         |       |



# TRILOBITE TESTING L.L.C.

OPERATOR : AFG Energy Inc

DATE 10/18/95+

WELL NAME: Dechant B #2

KB 2084.00 ft

TICKET NO: 8758

DST #6

LOCATION : 23-16S-18W, Rush Cty KS

GR 2076.00 ft

FORMATION: LKC J

INTERVAL : 3507.00 To 3518.00 ft

TD 3518.00 ft

TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 60 Rec.        | 13252  | 13252  | 11084  |     |     | PF Fr. 1407 to 1507 hr |
| SI 45 Range(Psi ) | 0.0    | 0.0    | 0.0    | 0.0 | 0.0 | IS Fr. 1507 to 1552 hr |
| SF 30 Clock(hrs)  | AK-1   | AK-1   | AK-1   |     |     | SF Fr. 1552 to 1622 hr |
| FS 45 Depth(ft )  | 3510.0 | 3510.0 | 3514.0 | 0.0 | 0.0 | FS Fr. 1622 to 1707 hr |

|                | Field  | 1      | 2   | 3   | 4   |                   |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro  | 1830.0 | 1823.0 | 0.0 | 0.0 | 0.0 | T STARTED 1315 hr |
| B. First Flow  | 34.0   | 35.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1405 hr |
| Bl. Final Flow | 57.0   | 53.0   | 0.0 | 0.0 | 0.0 | T OPEN 1407 hr    |
| C. In Shut-in  | 950.0  | 925.0  | 0.0 | 0.0 | 0.0 | T PULLED 1707 hr  |
| D. Init Flow   | 115.0  | 83.0   | 0.0 | 0.0 | 0.0 | T OUT 1815 hr     |
| E. Final Flow  | 115.0  | 83.0   | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 950.0  | 905.0  | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 1761.0 | 1727.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside | I      | I      | O   |     |     |                   |

## RECOVERY

Tot Fluid 150.00 ft of 30.00 ft in DC and 120.00 ft in DP  
150.00 ft of Water - 100% water

TOOL DATA-----

|                  |              |
|------------------|--------------|
| Tool Wt.         | 0.00 lbs     |
| Wt Set On Packer | 20000.00 lbs |
| Wt Pulled Loose  | 45000.00 lbs |
| Initial Str Wt   | 40000.00 lbs |
| Unseated Str Wt  | 40000.00 lbs |
| Bot Choke        | 0.75 in      |
| Hole Size        | 7.88 in      |
| D Col. ID        | 2.25 in      |
| D. Pipe ID       | 3.80 in      |
| D.C. Length      | 30.00 ft     |
| D.P. Length      | 3456.00 ft   |

RW .31 @ 80 F

SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Blow -  
Weak, building to 8" fair blow

Final Blow -  
Weak, building to 1"

## MUD DATA-----

| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 9.10 lb/c |
| Vis.     | 57.00 S/L |
| W.L.     | 8.40 in3  |
| F.C.     | 0.00 in   |
| Mud Drop |           |

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 112.00 F |
| Hole Condition |          |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00     |
| Cushion Type   |          |
| Reversed Out   |          |
| Tool Chased    |          |

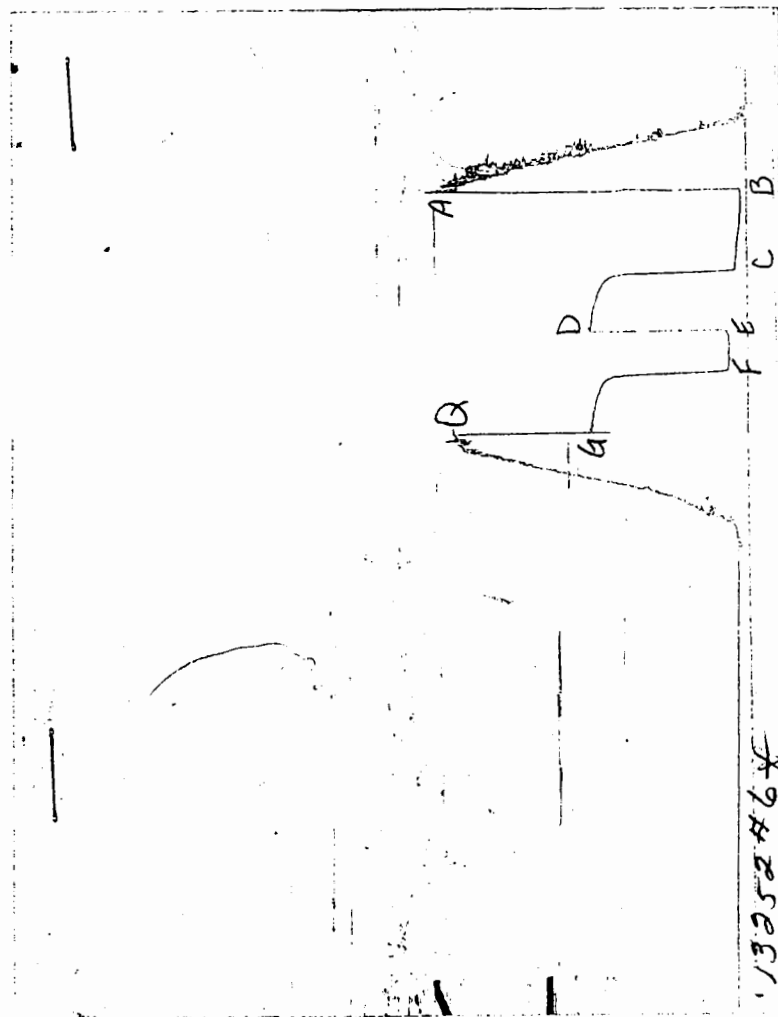
SAMPLES:

SENT TO:

|          |             |
|----------|-------------|
| Tester   | Dan Bangle  |
| Co. Rep. | Ed Glassman |
| Contr.   | Discovery   |
| Rig #    | 1           |
| Unit #   |             |
| Pump T.  |             |

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart