

**Well Name:** MLP Muncy "B-1"  
**Company:** Oxy U.S.A. Inc.  
**Location:** 11-31s-39w  
Stevens County Kansas  
**Date:** 4-21-99

# TRILOBITE TESTING L.L.C.

OPERATOR : Oxy U.S.A. Inc.  
WELL NAME: MLP Muncy "B-1"  
LOCATION : 11-31S-39W Stevens co KS  
INTERVAL : 4804.00 To 4851.00 ft

DATE 4-16-99  
KB 3194.00 ft  
GR 3181.00 ft  
TD 4851.00 ft  
TICKET NO: 10250  
FORMATION: Marmaton Porosity  
TEST TYPE: CONVENTIONAL  
DST #1

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 13630  | 13630  | Alpine |     |     | PF Fr. 1330 to 1400 hr |
| SI 60 Range(Psi ) | 4625.0 | 4625.0 | 5000.0 | 0.0 | 0.0 | IS Fr. 1400 to 1500 hr |
| SF 60 Clock(hrs)  | 12 HR  | 12 HR  | 12 HR  |     |     | SF Fr. 1500 to 1600 hr |
| FS 60 Depth(ft )  | 4848.0 | 4848.0 | 4806.0 | 0.0 | 0.0 | FS Fr. 1600 to 1700 hr |

|                | Field  | 1      | 2      | 3   | 4   |
|----------------|--------|--------|--------|-----|-----|
| A. Init Hydro  | 2315.0 | 2329.0 | 2286.0 | 0.0 | 0.0 |
| B. First Flow  | 171.0  | 185.0  | 91.0   | 0.0 | 0.0 |
| B1. Final Flow | 312.0  | 326.0  | 325.0  | 0.0 | 0.0 |
| C. In Shut-in  | 1371.0 | 1364.0 | 1378.0 | 0.0 | 0.0 |
| D. Init Flow   | 434.0  | 443.0  | 340.0  | 0.0 | 0.0 |
| E. Final Flow  | 630.0  | 640.0  | 616.0  | 0.0 | 0.0 |
| F. Fl Shut-in  | 1357.0 | 1365.0 | 1367.0 | 0.0 | 0.0 |
| G. Final Hydro | 2281.0 | 2226.0 | 2242.0 | 0.0 | 0.0 |
| Inside/Outside | O      | O      | I      |     |     |

T STARTED 1145 hr  
T ON BOTM 1327 hr  
T OPEN 1330 hr  
T PULLED 1700 hr  
T OUT 2000 hr

## TOOL DATA-----

Tool Wt. 2300.00 lbs  
Wt Set On Packer 24000.00 lbs  
Wt Pulled Loose 12000.00 lbs  
Initial Str Wt 84000.00 lbs  
Unseated Str Wt 88000.00 lbs  
Bot Choke 0.75 in  
Hole Size 7.78 in  
D Col. ID 2.25 in  
D. Pipe ID 3.80 in  
D.C. Length 276.00 ft  
D.P. Length 4508.00 ft

## RECOVERY

Tot Fluid 1205.00 ft of 276.00 ft in DC and 929.00 ft in DP  
195.00 ft of Gas in pipe  
5.00 ft of Clean Oil  
175.00 ft of Mud cut Water with scum of Oil  
0.00 ft of 60% Water 40% Mud  
1025.00 ft of Gassy water 3% gas 97% Water  
0.00 ft of  
0.00 ft of  
0.00 ft of  
SALINITY 40500.00 P.P.M. A.P.I. Gravity 38.00

## MUD DATA-----

Mud Type Chemical  
Weight 9.00 lb/cf  
Vis. 58.00 S/L  
W.L. 9.60 in3  
F.C. 0.00 in  
Mud Drop Y 60.0 ft

## BLOW DESCRIPTION

Initial Flow:  
Weak 1" built to strong off bottom of  
bucket in 4 mins.  
Initial Shut-in:  
1/2" blow back  
Final Flow:  
Weak 2" built to strong off bottom  
of blow in 6 mins.  
Final Shut-in:  
Surface blow back  
Remark: Est. 33 ft. of pay.  
Hole was sticky when rotating  
for F.S.I.P.

Amt. of fill 0.00 ft  
Btm. H. Temp. 130.00 F  
Hole Condition Good  
% Porosity 16.00  
Packer Size 6.75 in  
No. of Packers 2  
Cushion Amt. 0.00  
Cushion Type  
Reversed Out N  
Tool Chased N  
Tester Lanny Saloga  
Co. Rep. John Slater  
Contr. Cheyenne  
Rig # 12  
Unit #  
Pump T.

SAMPLES: None  
SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

ELL NAME: MLP Muncy "B-1"

LOCATION : 11-31S-39W

TICKET No. 10250 D.S.T. No. 1 DATE 4-16-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 16

TOTAL TOOL ..... 46

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY ..... 77

C. ABOVE TOOLS.Stands 3 Single Total 276

P. ABOVE TOOLS.Stands 48 Single 1 Total 4508

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4861

TOTAL DEPTH ..... 4851

TOTAL DRILL PIPE ABOVE K.B. .... 10

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.

Total Vol. Rec. 4950 ML.

Oil 0 ML.

Mud 0 ML.

Wtr. 4950 ML.

Gas 4.5 CF.

Psi. 310

Bht. 130 F.

Pit RW. 3.7 Ohms at 67 F. 1,600 PPM.

Rec RW. 0.27 Ohms at 47 F. 40,500 PPM.

Gravity 38 at 60 F.

Gravity f/top sample in DP.

|                      |      |
|----------------------|------|
| P.O. SUB Cir. sub    | 4684 |
| C.O. SUB Top of tool | 4774 |
| Double pin           | 4775 |
| S.I. TOOL H&T        | 4780 |
| Sampler              | 4783 |
| HMV Sterling         | 4788 |
| JARS Bowen           | 4793 |
| SAFETY JOINT Bowen   | 4795 |
| PACKER Sparton       | 4800 |
| PACKER Sparton       | 4804 |
| DEPTH                |      |
| STUBB 1 ft.          | 4805 |
| ANCHOR Rec. sub      | 4806 |
| Alpine               | 4806 |
| Pu. sub              | 4811 |
| 5 ft. perfs          | 4816 |
| Co. sub              | 4817 |
| 1 jt. DP             | 4848 |
| AK-1                 | 4848 |
| Co. sub              | 4849 |
| BULLNOSE 2 ft. perf  |      |
| T.D.                 | 4851 |

# TEST HISTORY

10250 D.S.T.#1 MLP Muncy "B-1" Oxy U.S.A.

Flag Points

t(Min.) P(PSIg)

A: 0.00 2286.93  
B: 0.00 91.29  
C: 29.00 325.63  
D: 60.50 1378.00  
E: 0.00 340.47  
F: 59.50 616.66  
G: 61.00 1367.34  
Q: 0.00 2242.45

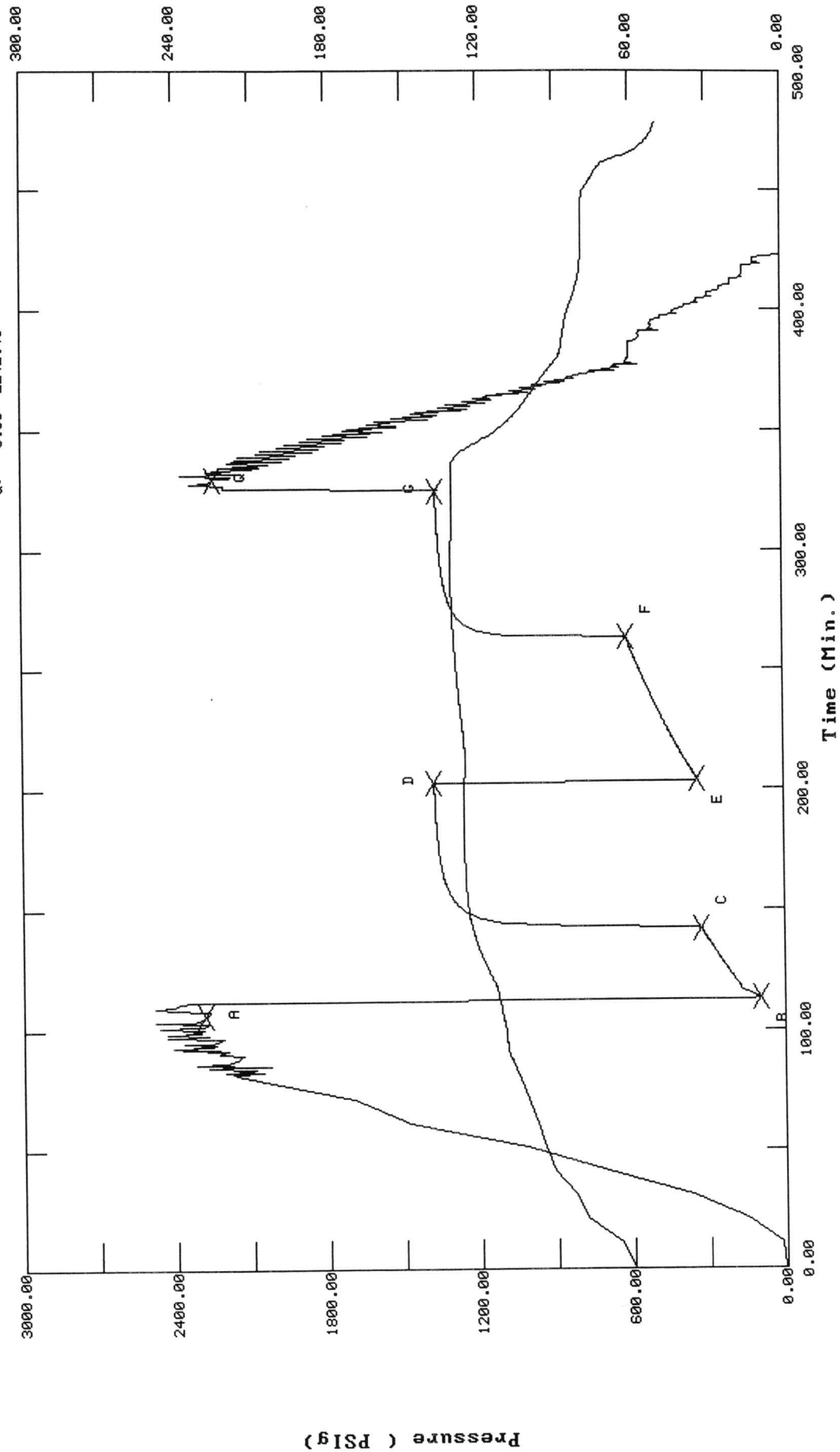
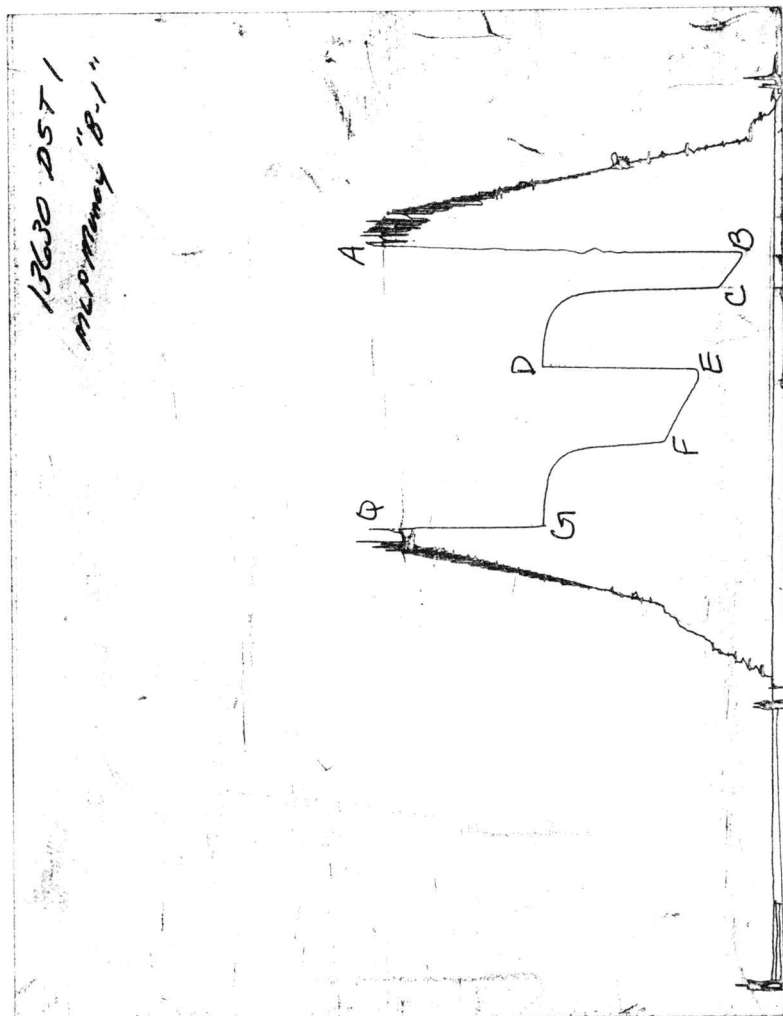


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 10250 Date 4-16-99  
Company Name Oxy USA  
Lease MLP Muncy "B-1" Test No. 1  
County Stevens KS Sec. 11 Twp. 31S Rng. 39W

### SAMPLER RECOVERY

Gas 4.5 G.E. ~~ME~~  
Oil 0 ML  
Mud 0 ML  
Water 4950 ML  
Other 0 ML  
Pressure 310 PSI  
Total Vol. Rec. = 4950 ML  
Total Vol. of chamber = 5000 ML

### SAMPLER ANALYSIS

Resistivity 0.27 ohms @ 47 F  
Chlorides 40,500 ppm.  
F/Top sample in pipe.  
Gravity 38 corrected @ 60 F

### PIT MUD ANALYSIS

Chlorides 1,600 ppm.  
Resistivity 3.7 ohms @ 67 F  
Viscosity 58  
Mud Weight 9.0  
Filtrate 9.6  
Other 7# L.C.M.

### PIPE RECOVERY

TOP  
Resistivity                      ohms @                      F  
Chlorides                      ppm.  
MIDDLE  
Resistivity                      ohms @                      F  
Chlorides                      ppm.  
BOTTOM  
Resistivity 0.27 ohms @ 47 F  
Chlorides 40,500 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 10250

Well Name & No. MLP Muncy "B-1" Test No. 1 Date 4-16-99  
 Company Oxy U.S.A. Inc. Zone Tested Maximaton Locality  
 Address Houston Tx. Liberal Ks. Elevation 3194 KB 3181 GL 16  
 Co. Rep / Geo. John Slatter Cont. Chayenne Rig 12 Est. Ft. of Pay 33 Por. 22 %  
 Location: Sec. 11 Twp. 31 S. Rge. 39 W. Co. Stevens State Ks.  
 No. of Copies See Distribution Sheet (Y, N) same as Turnkey (Y, N) No Evaluation (Y, N) No

Interval Tested 4804-4851 Initial Str Wt./Lbs. 84,000 Unseated Str Wt./Lbs. 88,000  
 Anchor Length 47' Tool = 30' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 12,000  
 Top Packer Depth 4799 Tool Weight 2,300  
 Bottom Packer Depth 4804 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 4851 Wt. Pipe Run 48+1 Drill Collar Run 276  
 Mud Wt. 9.0 LCM 7# Vis. 58 WL 9.6 Drill Pipe Size 4 1/2 X.H. Ft. Run 4508 10' up

Blow Description Weak 1", built to strong OBB in 4 min. F.F.P.  
1/2" blow-back. T.S. T.P.  
Weak 2", built to strong OBB in 6 min. F.F.P.  
Surface blow-back. F.S. T.P. "Was slightly sticky rotating for F.S. T.P."

Recovery — Total Feet 4205 GIP 195 Ft. in DC 276 Ft. in DP 929  
 Rec. 5 Feet Of cln oil %gas 100 %oil %water %mud  
 Rec. 175 Feet Of Mud Wt. w/ seum oil %gas %oil 60 %water 40 %mud  
 Rec. 4025 Feet Of Gassy Wt. 3 %gas %oil 97 %water %mud  
 Rec. Feet Of %gas %oil %water %mud  
 Rec. Feet Of %gas %oil %water %mud

BHT 130 °F Gravity 38 °API D@ 60 °F Corrected Gravity 38 °API  
 RW 0.27 @ 47 °F Chlorides 40,500 ppm Recovery Chlorides 1,600 ppm System

(A) Initial Hydrostatic Mud 2315 2286 PSI Recorder No. 3017 "11:37" T-Started 11:45 A.M.  
 (B) First Initial Flow Pressure 171 91 PSI (depth) 4806 T-Open 1:30 P.M.  
 (C) First Final Flow Pressure 312 325 PSI Recorder No. 13630 T-Pulled 5:00 P.M.  
 (D) Initial Shut-in Pressure 1371 1378 PSI (depth) 4848 T-Out 8:00 P.M.  
 (E) Second Initial Flow Pressure 434 340 PSI Recorder No. —  
 (F) Second Final Flow Pressure 630 616 PSI (depth) —  
 (G) Final Shut-in Pressure 1357 1367 PSI Initial Opening 30 Test 700 ✓  
 (H) Final Hydrostatic Mud 2281 2242 PSI Initial Shut-in 60 Jars 800 ✓  
AK-1 Alpine Final Flow 60 Safety Joint 50 ✓  
 Final Shut-in 60 Straddle —

41691137.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND  
 THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS  
 MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR  
 INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS  
 CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR  
 DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR  
 WHOM THE TEST IS MADE.

Contract E. Gony (Geo for Gony)  
 Representative Timothy S. Schubert

Circ. Sub —  
 Sampler 200 ✓  
 Extra Packer —  
 Elect. Rec. 150 ✓  
 Other —  
 TOTAL PRICE \$ 4,300.00

Well Name MLP Munev B-1  
DST Number 1  
Recorder Number 13630

A: 2.038 ~~2.4~~ 2329

B: .1164 185

C: .289 326

D: 1.207 1364

E: .392 443

F: .565 640

G: 1.199 1365

Q:  2226