



02357964

**WELL NAME:** Sand Arroyo Ranch #22-1  
**COMPANY:** Caddo Corporation  
**LOCATION:** 22-33S-49W  
Baca County, Colorado  
**DATE:** 2/23/98

MAR 17 1998

COLO. OIL & GAS COM. COM.

P.O. Box 362 - Hays, Kansas 67601

2858

## FLUID SAMPLER DATA

Ticket No. 9869 Date 2-18-98  
Company Name Caddo Corporation  
Lease Sand Arroyo Ranch #22-1 Test No. 2st #1  
County Baca Sec. 22 Twp. 33S Rng. 49W

## SAMPLER RECOVERY

Gas	2.2 cubic Ft	ML
Oil		ML
Mud		ML
Water	2100	ML
Other		ML
Pressure	850	PSI
Total	4010	ML

## PIT MUD ANALYSIS

Chlorides 900 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 50  
Mud Weight 9.2  
Filtrate 8.0  
Other LCM 8<sup>#</sup>

## SAMPLER ANALYSIS

Resistivity 685 ohms @ 60 F

Chlorides 4,300 ppm.

Gravity \_\_\_\_\_ corrected @ 60 F

## PIPE RECOVERY

TOP  
Resistivity 705 ohms @ 58 F  
Chlorides 4100 ppm

MIDDLE  
Resistivity 692 ohms @ 60  
Chlorides 4200 ppm

BOTTOM  
Resistivity 685 ohms @ 60  
Chlorides 4,300 pp



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 9869

Well Name & No. Sand Arroyo Ranch #22 Test No. 71 Date 2-18-98  
 Company Caddo Corporation Zone Tested Morrow  
 Address Suite 215 Austin Texas 78759-6540 Elevation 4850 KB 4840 GL  
 Co. Rep / Geo. Wes Lilley Cont. Alan Ry #2 Est. Ft. of Pay ? Por. ? %  
 Location: Sec. 22 Twp. 33S Rge. 49W Co. BACA State Colo.  
 No. of Copies 10 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3455 - 3616  
 Anchor Length 161'  
 Top Packer Depth 3450  
 Bottom Packer Depth 3455  
 Total Depth 3616

Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 70,000  
 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000  
 Tool Weight 1,800  
 Hole Size — 7 7/8" x Rubber Size — 6 3/4" x  
 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 235  
 Drill Pipe Size 4 1/2 X-0 Ft. Run 3339

Mud Wt. 9.2 LCM 8 Vis. 50 WL 8.0  
 Blow Description Strong Blow B.O.B in 2 min.

ISI Bld OFF 2 in Had no Blow Back  
2nd opening Strong Blow B.O.B. soon as open Tool Bld Back 24" Blow  
FSI Bld OFF 2 in NO Blow Back

Recovery — Total Feet 2720 GIP 1500 Fluid Ft. in DC 235 Ft. in DP 2485  

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>360</u>	<u>GCM</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>320</u>	<u>WCCM</u>	<u>30</u>	<u>50</u>	<u>20</u>	<u>50</u>
<u>390</u>	<u>H<sup>2</sup>O</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>150</u>	<u>Mud</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>

BHT 106 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud 1700 PSI Recorder No. 5485 T-Started 3:15 AM  
 (B) First Initial Flow Pressure 1100 PSI (depth) 3457 T-Open 5:50 AM  
 (C) First Final Flow Pressure 1110 PSI Recorder No. 10993 T-Pulled 8:35 AM  
 (D) Initial Shut-in Pressure 1190 PSI (depth) 3612 T-Out 12:00 pm.  
 (E) Second Initial Flow Pressure 1500 PSI Recorder No. \_\_\_\_\_  
 (F) Second Final Flow Pressure 1800 PSI (depth) \_\_\_\_\_  
 (G) Final Shut-in Pressure 2000 PSI Initial Opening 15 min Test ✓ Conventional  
 (H) Final Hydrostatic Mud 1670 PSI Initial Shut-in 30 min Jars ✓  
 Final Flow 60 min Safety Joint ✓  
 Final Shut-in 60 min Straddle \_\_\_\_\_  
 Circ. Sub ✓ N/C  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elect. Rec. \_\_\_\_\_  
 Other \_\_\_\_\_

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 OR OPINION 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.

Approved By

Wes Lilley  
M. Colanton

Our Representative

TOTAL PRICE \$



TRILOBITE TESTING L.L.C.

OPERATOR : Caddo Corporation

DATE 2-18-98

WELL NAME: Sand Arroyo Ranch #22-1

KB 4850.00 m.

TICKET NO: 9869

DST #1

LOCATION : 22-33S-49W CO Baca CO

GR 4840.00 m.

FORMATION: Morrow

INTERVAL : 3455.00 To 3616.00 m.

TD 3616.00 m.

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10993	10993	5495			PF Fr. 0550 to 0605 hr
SI 30 Range(kPa )	4250.0	4250.0	4200.0	0.0	0.0	IS Fr. 0605 to 0635 hr
SF 60 Clock(hrs)	12hr	12hr	12hr			SF Fr. 0635 to 0735 hr
FS 60 Depth(m. )	3612.0	3612.0	3457.0	0.0	0.0	FS Fr. 0735 to 0735 hr

	Field	1	2	3	4	
A. Init Hydro	1700.0	1768.0	0.0	0.0	0.0	T STARTED 0315 hr
B. First Flow	1100.0	1176.0	0.0	0.0	0.0	T ON BOTM 0545 hr
B1. Final Flow	1110.0	1185.0	0.0	0.0	0.0	T OPEN 0550 hr
C. In Shut-in	1190.0	1270.0	0.0	0.0	0.0	T PULLED 0835 hr
D. Init Flow	1500.0	1230.0	0.0	0.0	0.0	T OUT 1200 hr
E. Final Flow	1800.0	1270.0	0.0	0.0	0.0	
F. Fl Shut-in	2000.0	1278.0	0.0	0.0	0.0	
G. Final Hydro	1670.0	1720.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 2720.00 m. of 235.00 m. in DC and 2485.00 m. in DP

1500.00 m. of Gas in pipe

360.00 m. of Gas cut mud 50%gas 50%mud

320.00 m. of Water cut gassy mud 30%gas 50%water 20%mud

390.00 m. of Water

150.00 m. of Mud

0.00 m. of

0.00 m. of

0.00 m. of

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

TOOL DATA-----

Tool Wt. 1800.00 daN

Wt Set On Packer 25000.00 daN

Wt Pulled Loose 90000.00 daN

Initial Str Wt 58000.00 daN

Unseated Str Wt 70000.00 daN

Bot Choke 0.75 mm

Hole Size 7.88 mm

D Col. ID 2.50 mm

D. Pipe ID 3.80 mm

D.C. Length 235.00 m.

D.P. Length 3339.00 m.

BLOW DESCRIPTION

Initial Flow:

Strong blow bottom of bucket in 2 min

Initial Shut-in:

Bled off 2 min, had no blow back

Final Flow:

Strong blow bottom of bucekt as soon as tool opened, bled back, 24" blow

Final Shut-in:

Bled off 2", no blow back

MUD DATA-----

Mud Type Chemical

Weight 9.20 kg/m<sup>3</sup>

Vis. 50.00 S/L

W.L. 8.00 cm<sup>3</sup>

F.C. 0.00 mm

Mud Drop

Amt. of fill 0.00 m.

Btm. H. Temp. 106.00 C

Hole Condition

% Porosity 0.00

Packer Size 6.75 mm

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out

Tool Chased

Tester Mike Colantonio

Co. Rep. Wel Lilley

Contr. Alan

Rig # 2

Unit #

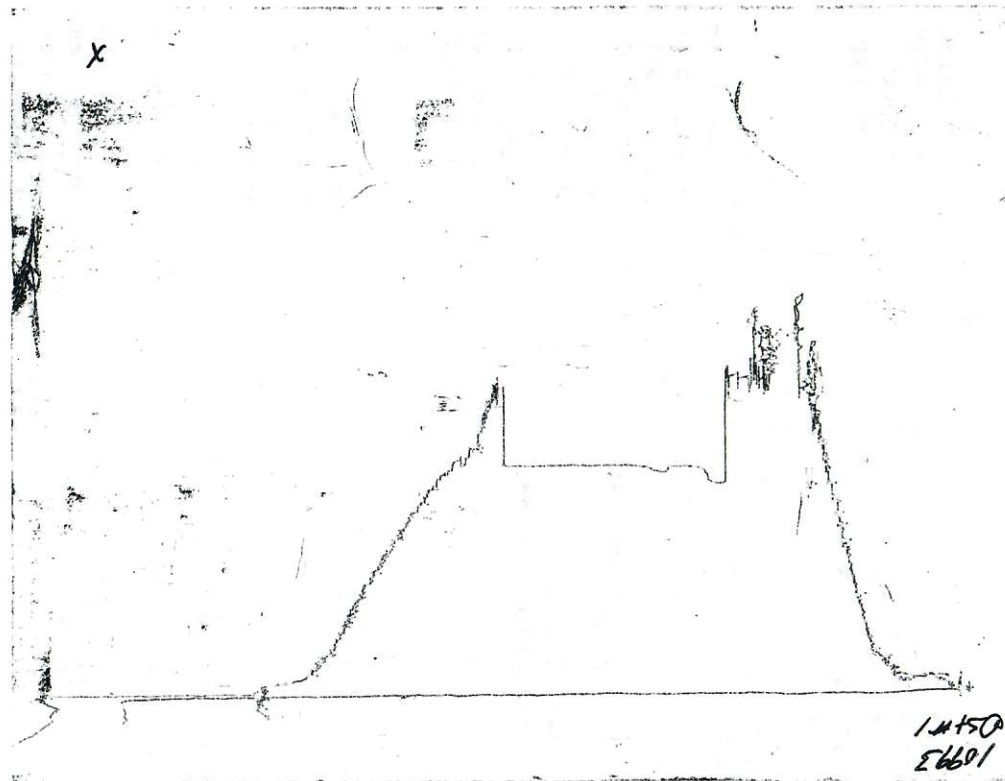
Pump T.

SAMPLES:

SENT TO:

Test Successful: Y

# CHART PAGE



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