

Computer Inventoried

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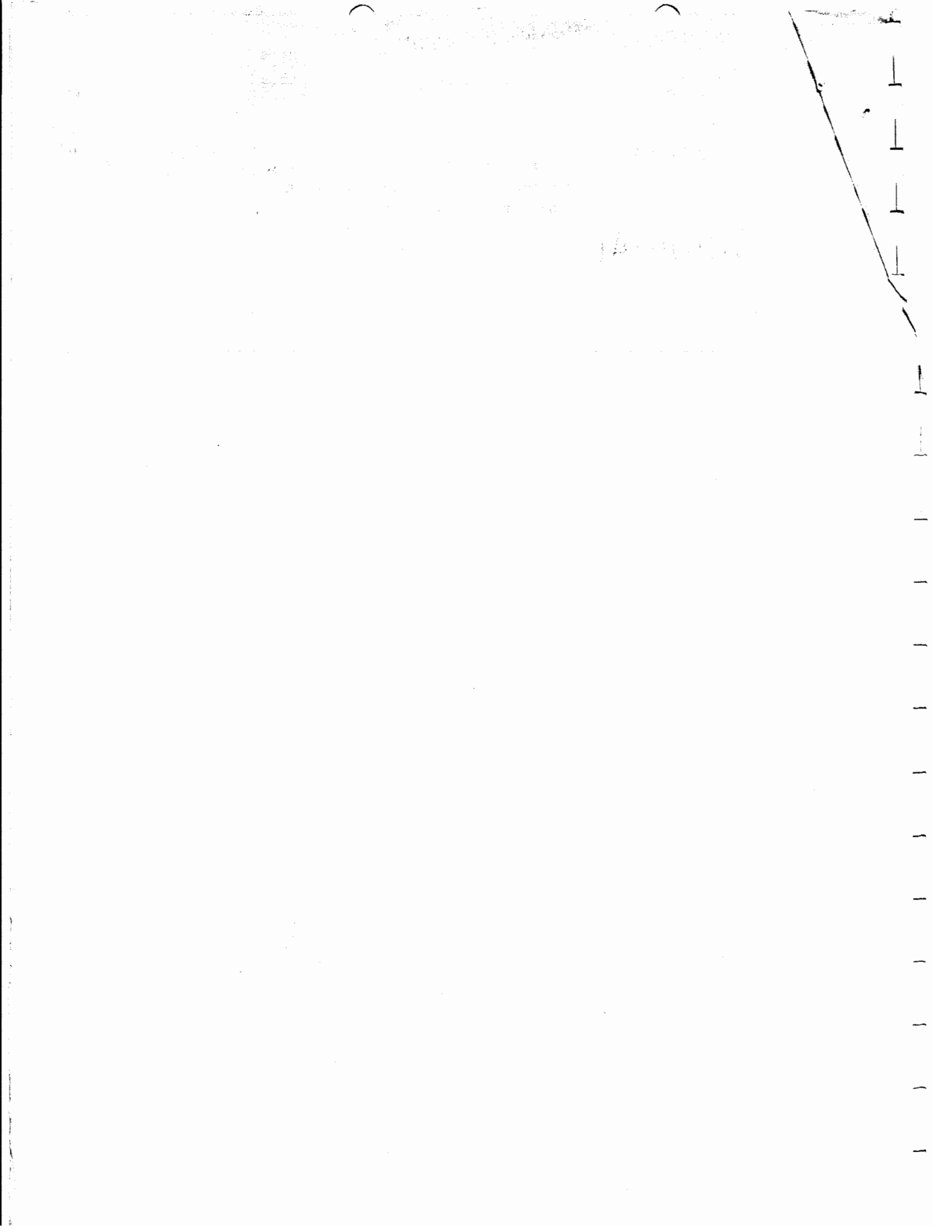
**Well Name:** Bulger #7-14  
**Company:** PetroSantander USA Inc.  
**Location:** 7-23s-30w  
Finney county Kansas  
**Date:** 11-3-99

**RECEIVED**  
KANSAS CORPORATION COMMISSION

DEC 17 1999

CONSERVATION DIVISION  
WICHITA, KS

ORIGINAL



## TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Petro Santander U.S.A.

DATE 11-1-99

WELL NAME: Bulger 7-14

KB 2860.00 ft

TICKET NO: 12005

DST #1

LOCATION : 7-23s-30w Finney co KS

GR 2855.00 ft

FORMATION: morrow

INTERVAL : 4740.00 To 4790.00 ft

TD 4910.00 ft

TEST TYPE: CONV. STRADDLE

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 11057  | 11057  | 2346   |     |     | PF Fr. 1640 to 1710 hr |
| SI 60 Range(Psi ) | 4500.0 | 4500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1710 to 1810 hr |
| SF 30 Clock(hrs)  | 12     | 12     | alpin  |     |     | SF Fr. 1810 to 1840 hr |
| FS 60 Depth(ft )  | 4750.0 | 4750.0 | 4741.0 | 0.0 | 0.0 | FS Fr. 1840 to 1940 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2411.0 | 2414.0 | 2370.0 | 0.0 | 0.0 | T STARTED 1435 hr             |
| B. First Flow  | 157.0  | 172.0  | 136.0  | 0.0 | 0.0 | T ON BOTM 1632 hr             |
| Bl. Final Flow | 157.0  | 172.0  | 146.0  | 0.0 | 0.0 | T OPEN 1640 hr                |
| C. In Shut-in  | 1488.0 | 1495.0 | 1484.0 | 0.0 | 0.0 | T PULLED 1940 hr              |
| D. Init Flow   | 168.0  | 184.0  | 146.0  | 0.0 | 0.0 | T OUT 2230 hr                 |
| E. Final Flow  | 168.0  | 184.0  | 152.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1432.0 | 1442.0 | 1426.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2400.0 | 2400.0 | 2293.0 | 0.0 | 0.0 | Tool Wt. 6000.00 lbs          |
| Inside/Outside | i      | i      | o      |     |     | Wt Set On Packer 43000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 96000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 73000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 74000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.50 in            |
|                |        |        |        |     |     | D.C. Length 240.00 ft         |
|                |        |        |        |     |     | D.P. Length 4660.00 ft        |

## RECOVERY

Tot Fluid 280.00 ft of 240.00 ft in DC and 40.00 ft in DP  
 280.00 ft of drilg mud 100% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

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

## BLOW DESCRIPTION

Initial Flow:  
 Pcker Failure at open pulled and  
 reset, tried to fail again set more  
 weight on tool, packer held. 1 1/2"  
 blow died back to 1 1/4"

Initial Shut-in:

No return

Final Flow:

No blow

Final Shut-in:

No return

SAMPLES:

SENT TO:

## MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.30 lb/c |
| Vis.       | 43.00 S/L |
| W.L.       | 9.60 in3  |
| F.C.       | 0.00 in   |
| Mud Drop Y | 150.0 ft  |

|                |          |
|----------------|----------|
| Amt. of fill   | 4.00 ft  |
| Btm. H. Temp.  | 119.00 F |
| Hole Condition | good     |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 3        |
| Cushion Amt.   | 0.00     |

Cushion Type  
 Reversed Out N

Tool Chased N

Tester Shane McBride

Co. Rep. Wes Hansen

Contr. Abercrombie

Rig # 4

Unit #

Pump T.

Test Successful: N

\*\*\* TOOL DIAGRAM \*\*\* CONV. STRADDLE

WELL NAME: Bulger 7-14

LOCATION : 7-23s-30w Finney co KS

TICKET No. 12005 D.S.T. No. 1 DATE 11-1-99

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

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 46

TOTAL TOOL ..... 76

DRILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 2 Single Total 124

TOTAL ASSEMBLY ..... 200

.C. ABOVE TOOLS.Stands4 Single Total 240

.P. ABOVE TOOLS.Stands73 Single 1 Total 4490

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4930

TOTAL DEPTH ..... 4910

TOTAL DRILL PIPE ABOVE K.B. .... 20

REMARKS:

WAS;

WIL;

WATER;

MUD; 4,000 ml.

Total 4,000 ml.

Pressure 40 psi.

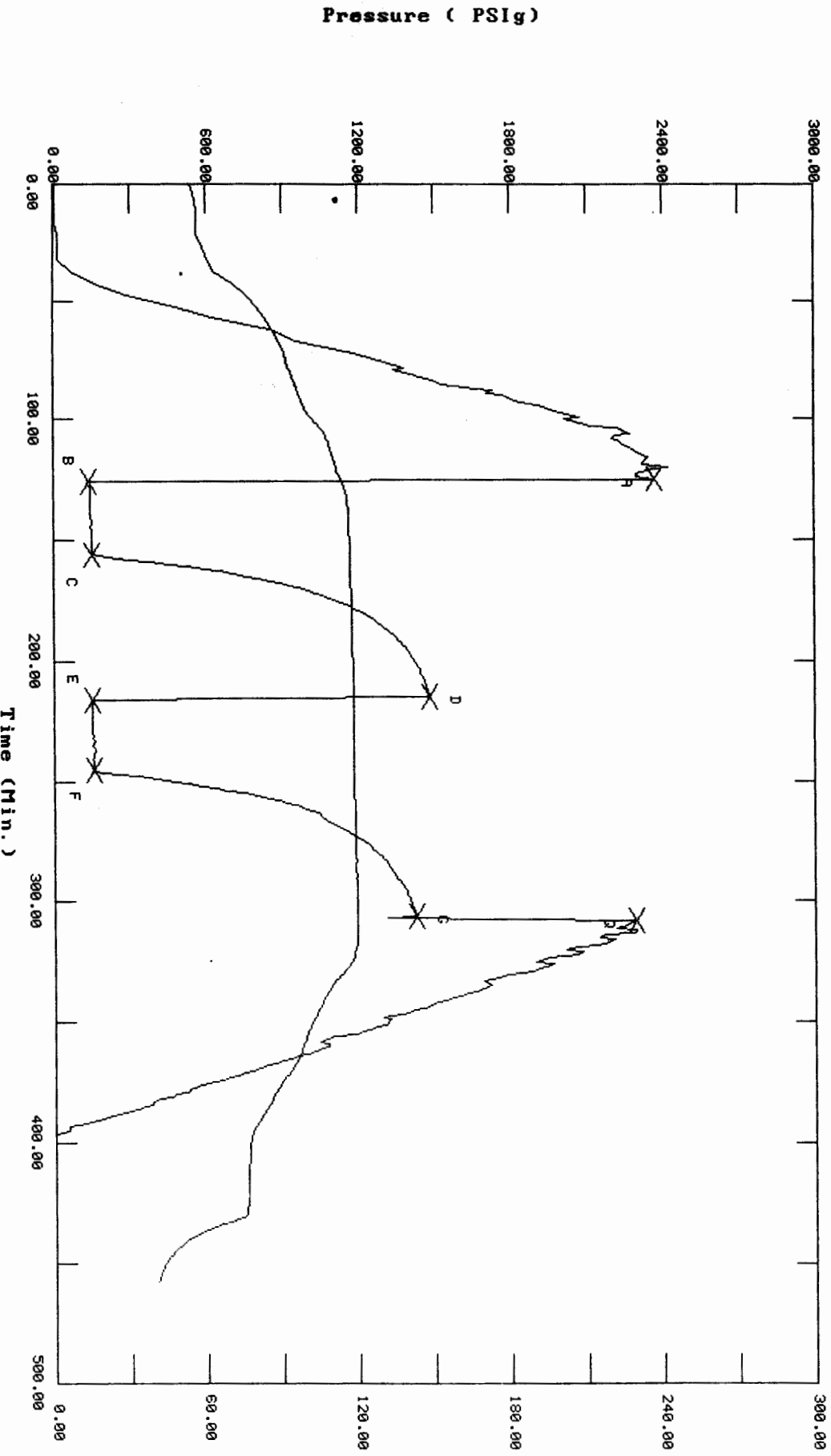
|                        |      |
|------------------------|------|
| P.O. SUB               |      |
| C.O. SUB 1'            | 4709 |
| S.I. TOOL 5'           | 4715 |
| sampler 3'             | 4718 |
| HMV 5'                 | 4723 |
| JARS 5'                | 4728 |
| SAFETY JOINT 2'        | 4730 |
| PACKER top             | 4735 |
| PACKER bottom          | 4740 |
| DEPTH 4740             |      |
| STUBB 1'               | 4741 |
| ANCHOR alpine recorder | 4741 |
| 8' perf                | 4749 |
| 1' c.o.                | 4750 |
| ak-1 recorder          | 4750 |
| 31' drillpipe          | 4781 |
| 1' c.o.                | 4782 |
| 4' perf                | 4786 |
| 1' blank off           | 4787 |
| T.C.                   |      |
| DEPTH                  |      |
| 3' top of packer       | 4790 |
| PACKER straddle packer | 4790 |
| 1' stubb               | 4791 |
| 19' perf               | 4810 |
| 1' c.o.                | 4811 |
| 93' drillpipe          | 4904 |
| 1' c.o.                | 4905 |
| ak-1 recorder          | 4907 |
| BULLNOSE 5' bullplug   | 4910 |
| T.D.                   | 4910 |

12005 DST #1 Petro Santander Bulger # 7-14

# TEST HISTORY

Flag Points  
t(Min.) P(PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2370.59 |
| B: | 0.00  | 136.13  |
| C: | 30.00 | 146.80  |
| D: | 59.00 | 1484.02 |
| E: | 0.00  | 146.24  |
| F: | 29.00 | 152.05  |
| G: | 61.00 | 1426.26 |
| H: | 0.00  | 2293.08 |



11057 #1

X

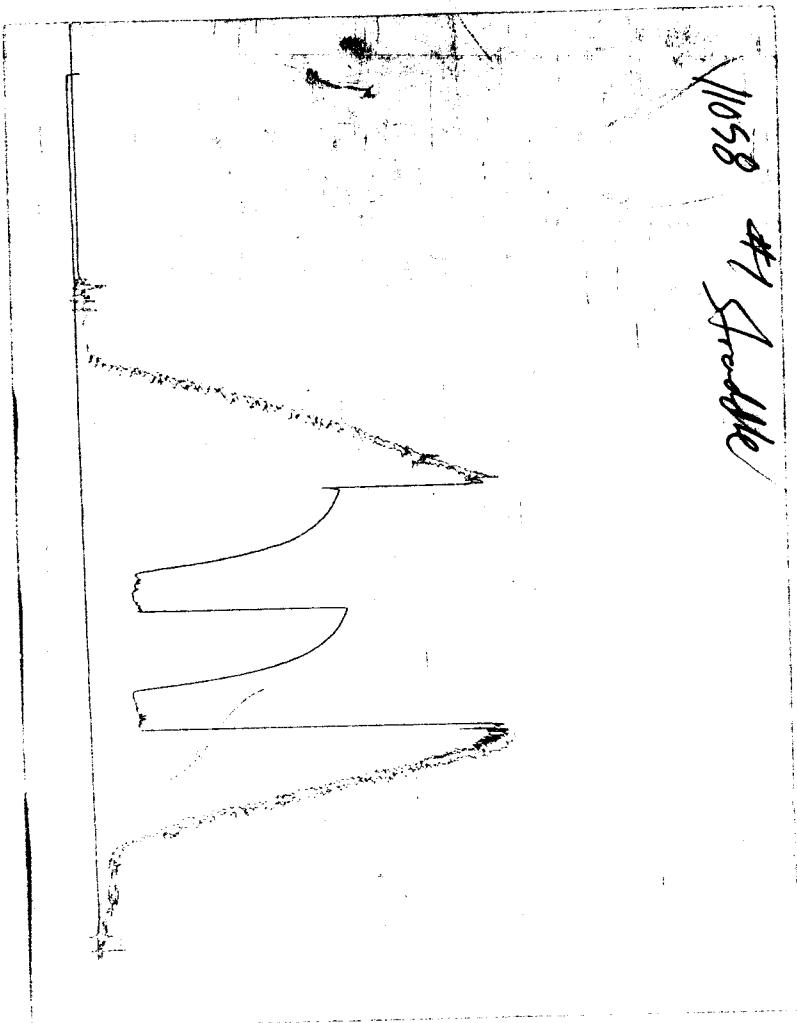
A hand-drawn diagram of a mechanical linkage system. The diagram features several points labeled with letters: A, B, C, D, E, F, and G. Point A is at the top right, connected by a long line to point B at the bottom left. From point B, a vertical line segment goes up to point C, which is connected to point E. From point E, a horizontal line segment goes left to point F. From point F, a curved line segment goes up and right to point D. From point D, another curved line segment goes up and right to point G. From point G, a long line segment goes up and right to point A. A large 'X' is drawn over the diagram, and the number '11057 #1' is written in the upper left corner.

11057 #1

X

A hand-drawn diagram of a mechanical linkage system. The diagram features several points labeled with letters: A, B, C, D, E, F, and G. Point A is at the top right, connected by a long line to point B at the bottom left. From point B, a vertical line segment goes up to point C, which is connected to point E. From point E, a horizontal line segment goes left to point F. From point F, a curved line segment goes up and right to point D. From point D, another curved line segment goes up and right to point G. From point G, a long line segment goes up and right to point A. A large 'X' is drawn over the diagram, and the number '11057 #1' is written in the upper left corner.

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. 12009 Date 11-1-99  
Company Name Petro Seward  
Lease Budger 7-14 Test No. 1  
County Finnway KS Sec. 7 Twp. 23 Rng. 30

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
Oil \_\_\_\_\_ ML  
Mud 4,000 ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 40 PSI  
Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides 2,000 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 43  
Mud Weight 9.3  
Filtrate 9.6  
Other LCM #3

### SAMPLER ANALYSIS

Resistivity Drilgma D ohms @ \_\_\_\_\_ F  
Chlorides 2,000 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity Drilgma D ohms @ \_\_\_\_\_ F  
Chlorides 2,000 ppm.

MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12005

## Test Ticket

|                                                        |                                           |                                                          |
|--------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>Bulgar #7-14</u>                    | Test No. <u>1</u>                         | Date <u>11-1-99</u>                                      |
| Company <u>Petro-Santander (Co. S.A) Inc.</u>          | Zone Tested <u>110000</u>                 |                                                          |
| Address <u>6363 Woodway, Ste. 350 Houston TX 77057</u> | Elevation <u>2860'</u> KB <u>2855'</u> GL |                                                          |
| Co. Rep / Geo. <u>Wes Hansen</u>                       | Cont. <u>Pharmacie #4</u>                 | Est. Ft. of Pay <u>    </u> Por. <u>    </u> %           |
| Location: Sec. <u>7</u> Twp. <u>23</u> Rge. <u>30</u>  | Co. <u>Finney</u> State <u>KS</u>         |                                                          |
| No. of Copies <u>11/11</u>                             | Distribution Sheet (Y, N) <u>N</u>        | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

Interval Tested 4740' 4790' Initial Str Wt./Lbs. 3000 Unseated Str Wt./Lbs. 74,000  
 Anchor Length 50' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 96,000  
 Top Packer Depth 4735 4740' Tool Weight 6,000  
 Bottom Packer Depth 4790' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒  
 Total Depth 4910' Wt. Pipe Run      Drill Collar Run 240'  
 Mud Wt. 9.3 LCM #3 Vis. 43 WL 9.6 Drill Pipe Size 4 1/2 x 4 Ft. Run 4660'  
 Blow Description Packer Failure @ open pull's reset - tried to bail again set more weight  
on tool - Packers held. 1 1/2" in blow died back to 1 1/4" d. I.S.I: No return  
E.F.I: No blow  
E.S.I: No return

Recovery — Total Feet 280' GIP      Ft. in DC 240' Ft. in DP 40'  
 Rec. 280' Feet Of Dr. lg. Mud %gas %oil %water 100% mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 BHT 119' °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 2000 ppm System

|                                  | AK-1        | Alpine      | PSI | Recorder No. | T-On Location     |
|----------------------------------|-------------|-------------|-----|--------------|-------------------|
| (A) Initial Hydrostatic Mud      | <u>2411</u> | <u>2370</u> |     | <u>2346</u>  | <u>13:45 p.m.</u> |
| (B) First Initial Flow Pressure  | <u>157</u>  | <u>136</u>  |     | <u>4741</u>  | <u>14:35 p.m.</u> |
| (C) First Final Flow Pressure    | <u>157</u>  | <u>146</u>  |     | <u>11058</u> | <u>16:40 p.m.</u> |
| (D) Initial Shut-In Pressure     | <u>1488</u> | <u>1484</u> |     | <u>4750'</u> | <u>19:40 p.m.</u> |
| (E) Second Initial Flow Pressure | <u>168</u>  | <u>146</u>  |     | <u>11057</u> | <u>22:30 p.m.</u> |
| (F) Second Final Flow Pressure   | <u>168</u>  | <u>152</u>  |     |              | <u>23:45 p.m.</u> |
| (G) Final Shut-in Pressure       | <u>1432</u> | <u>1426</u> |     |              |                   |
| (Q) Final Hydrostatic Mud        | <u>2400</u> | <u>2293</u> |     |              |                   |

Initial Opening 30 Test X  
 Initial Shut-in 60 Jars X  
 Final Flow 30 Safety Joint X  
 Final Shut-in 60 Straddle X  
 Circ. Sub X N/C  
 Sampler X  
 Extra Packer X  
 Elec. Rec. X  
 Mileage       
 Other       
 TOTAL PRICE \$     

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Approved By Wes Hansen

Our Representative Steve Burt

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