

Well Name: Schmidt #1  
Company: ESP Development, Inc.  
Location: 12-15s-18w  
Ellis County Kansas  
Date: 11-23-98

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development, Inc  
 WELL NAME: Schmidt #1  
 LOCATION : 12-15s-18w Ellis co KS  
 INTERVAL : 3308.00 To 3329.00 m.

DATE 11-16-98  
 KB 2015.00 m. TICKET NO: 11691 DST #1  
 GR 2010.00 m. FORMATION: Kansas City  
 TD 3329.00 m. TEST TYPE: CONV

RECORDER DATA

| Mins  |            | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 | Rec.       | 10270  | 10270  | 11085  |     |     | PF Fr. 1910 to 1940 hr |
| SI 30 | Range(kPa) | 4150.0 | 4150.0 | 4300.0 | 0.0 | 0.0 | IS Fr. 1940 to 2010 hr |
| SF 30 | Clock(hrs) | 12 hr  | 12 hr  | 12 hr  |     |     | SF Fr. 2010 to 2040 hr |
| FS 30 | Depth(m.)  | 3326.0 | 3326.0 | 3323.0 | 0.0 | 0.0 | FS Fr. 2040 to 2110 hr |

|                | Field  | 1      | 2   | 3   | 4   |                   |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro  | 1603.0 | 1660.0 | 0.0 | 0.0 | 0.0 | T STARTED 1745 hr |
| B. First Flow  | 66.0   | 68.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1905 hr |
| B1. Final Flow | 66.0   | 68.0   | 0.0 | 0.0 | 0.0 | T OPEN 1910 hr    |
| C. In Shut-in  | 88.0   | 77.0   | 0.0 | 0.0 | 0.0 | T PULLED 2110 hr  |
| D. Init Flow   | 66.0   | 52.0   | 0.0 | 0.0 | 0.0 | T OUT 2220 hr     |
| E. Final Flow  | 66.0   | 52.0   | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 77.0   | 69.0   | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 1603.0 | 1609.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside | 0      | 0      | I   |     |     |                   |

TOOL DATA-----

|                  |              |
|------------------|--------------|
| Tool Wt.         | 2200.00 daN  |
| Wt Set On Packer | 20000.00 daN |
| Wt Pulled Loose  | 37000.00 daN |
| Initial Str Wt   | 35000.00 daN |
| Unseated Str Wt  | 35000.00 daN |
| Bot Choke        | 0.75 mm      |
| Hole Size        | 7.88 mm      |
| D Col. ID        | 0.00 mm      |
| D. Pipe ID       | 3.80 mm      |
| D.C. Length      | 0.00 m.      |
| D.P. Length      | 3288.00 m.   |

RECOVERY

Tot Fluid 10.00 m. of 10.00 m. in DC and 0.00 m. in DP  
 10.00 m. of Slight oil cut mud 1%oil 99%mud  
 0.00 m. of  
 0.00 m. of  
 0.00 m. of  
 0.00 m. of  
 0.00 m. of  
 0.00 m. of  
 0.00 m. of

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

BLOW DESCRIPTION

Initial Flow:  
 Very weak blow throughout - 1/4"  
 to surface blow

Final Flow:  
 No blow

MUD DATA-----

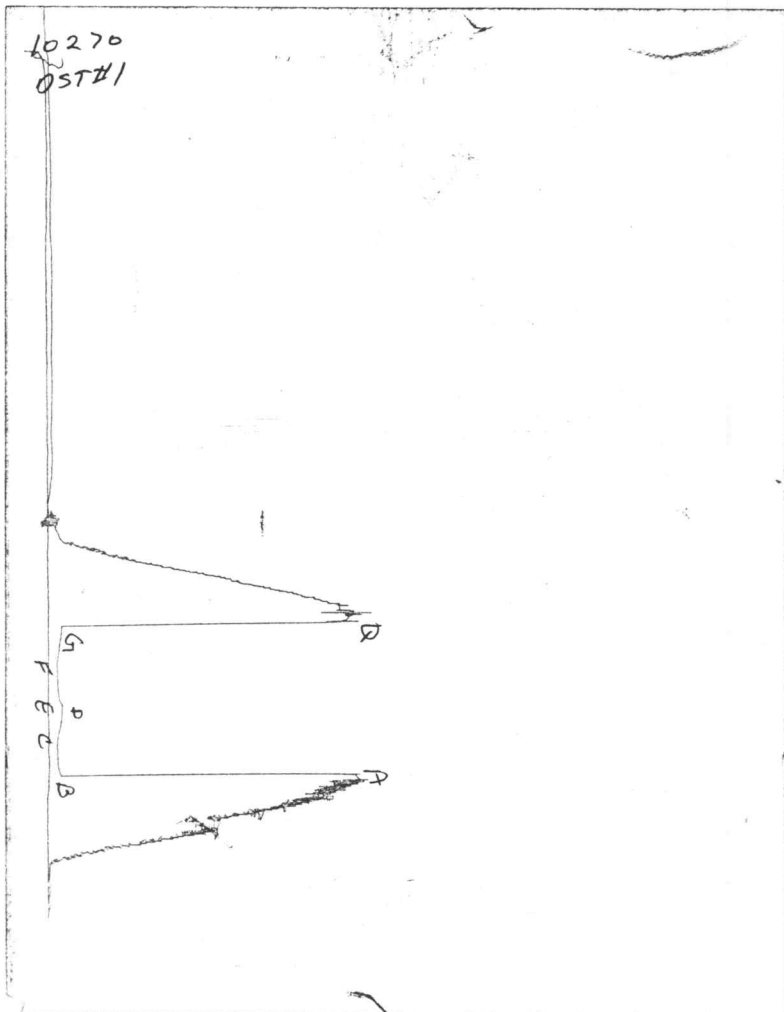
| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 9.30 kg/m |
| Vis.     | 45.00 S/L |
| W.L.     | 8.80 cm3  |
| F.C.     | 0.00 mm   |
| Mud Drop |           |

|                |              |
|----------------|--------------|
| Amt. of fill   | 0.00 m.      |
| Btm. H. Temp.  | 103.00 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         | Ray Schwager |
| Co. Rep.       | Ron Nelson   |
| Contr.         | VonFeldt     |
| Rig #          |              |
| Unit #         |              |
| Pump T.        |              |

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development Inc.

DATE 11-17-98

WELL NAME: Schmidt #1

KB 2015.00 ft

TICKET NO: 11692

DST #2

LOCATION : 12-15s-18w Ellis co. KS

GR 2010.00 ft

FORMATION: KC

INTERVAL : 3352.00 To 3382.00 ft

TD 3382.00 ft

TEST TYPE: CONV

RECORDER DATA

| Mins  |             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|-------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 | Rec.        | 11085  | 11085  | 10270  |     |     | PF Fr. 0900 to 0930 hr |
| SI 45 | Range(Psi ) | 4300.0 | 4300.0 | 4150.0 | 0.0 | 0.0 | IS Fr. 0930 to 1015 hr |
| SF 30 | Clock(hrs)  | 12     | 12     | 12     |     |     | SF Fr. 1015 to 1045 hr |
| FS 45 | Depth(ft )  | 3373.0 | 3373.0 | 3376.0 | 0.0 | 0.0 | FS Fr. 1045 to 1130 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 1668.0 | 1668.0 | 0.0 | 0.0 | 0.0 | T STARTED 0745 hr             |
| B. First Flow  | 154.0  | 178.0  | 0.0 | 0.0 | 0.0 | T ON BOTM 0855 hr             |
| Bl. Final Flow | 231.0  | 244.0  | 0.0 | 0.0 | 0.0 | T OPEN 0900 hr                |
| C. In Shut-in  | 286.0  | 295.0  | 0.0 | 0.0 | 0.0 | T PULLED 1130 hr              |
| D. Init Flow   | 253.0  | 258.0  | 0.0 | 0.0 | 0.0 | T OUT 1345 hr                 |
| E. Final Flow  | 286.0  | 291.0  | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 308.0  | 293.0  | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 1658.0 | 1668.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 2200.00 lbs          |
| Inside/Outside | o      | o      | I   |     |     | Wt Set On Packer 20000.00 lbs |

RECOVERY

Tot Fluid 474.00 ft of 0.00 ft in DC and 474.00 ft in DP  
 890.00 ft of Gas in pipe  
 40.00 ft of Slight oil & gas cut mud  
 0.00 ft of 10% gas 1% oil 89% mud  
 62.00 ft of Slight oil & gas cut muddy water  
 0.00 ft of 18% gas 1% oil 46% water 35% mud  
 124.00 ft of Slight oil & gas cut muddy water  
 0.00 ft of 15% gas 1% oil 54% water 30% mud  
 248.00 ft of Water  
 SALINITY 66000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical  
 Weight 9.30 lb/cf  
 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. 107.00 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 Ray Schwager  
 Co. Rep. Ron Nelson  
 Contr. Vonfeldt  
 Rig #  
 Unit #  
 Pump T.

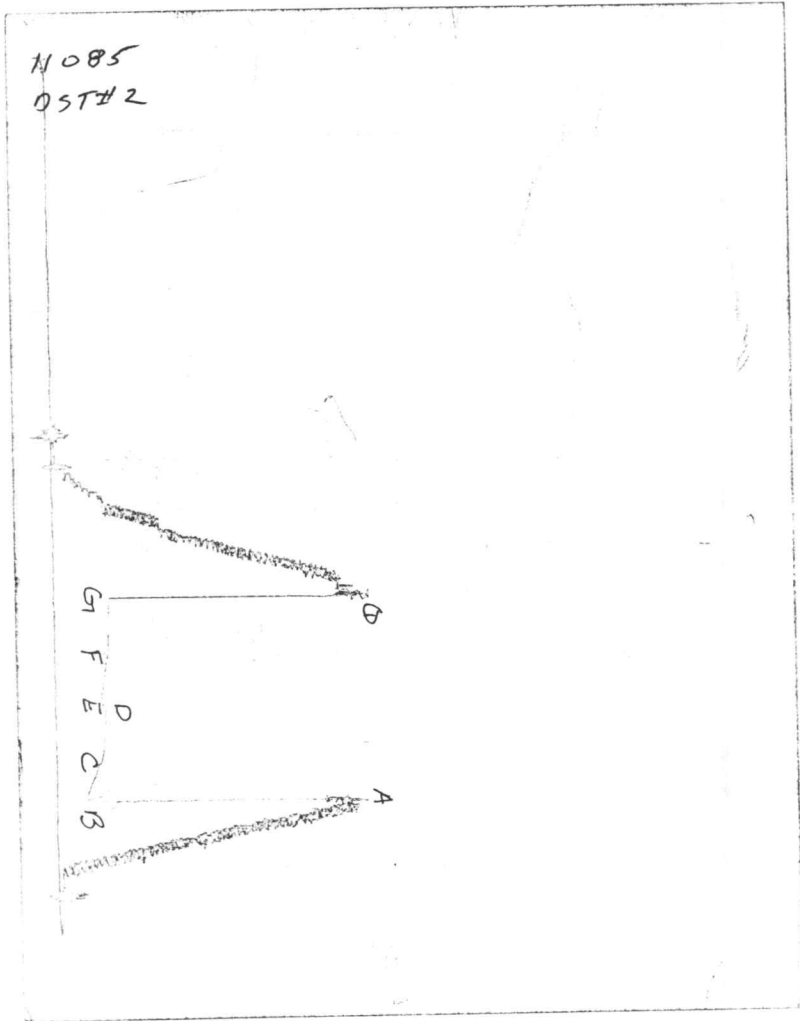
BLOW DESCRIPTION

Initial Flow:  
 Weak building to a strong blow in  
 3 mins.  
 Initial Shut-in:  
 Blow back  
 Final Flow:  
 Strong blow throughout  
 Final Shut-in:  
 Blow back

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development Inc.

DATE 11-17-98

WELL NAME: Schmidt #1

KB 2015.00 ft

TICKET NO: 11693

DST #3

LOCATION : 12-15w-18w Ellis co. KS

GR 2010.00 ft

FORMATION: KC

INTERVAL : 3381.00 To 3418.00 ft

TD 3418.00 ft

TEST TYPE: CONV

RECORDER DATA

| Mins  |             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|-------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 | Rec.        | 11085  | 11085  | 10270  |     |     | PF Fr. 2055 to 2125 hr |
| SI 45 | Range(Psi ) | 4300.0 | 4300.0 | 4150.0 | 0.0 | 0.0 | IS Fr. 2125 to 2210 hr |
| SF 30 | Clock(hrs)  | 12     | 12     | 12     |     |     | SF Fr. 2210 to 2240 hr |
| FS 45 | Depth(ft )  | 3409.0 | 3409.0 | 3412.0 | 0.0 | 0.0 | FS Fr. 2240 to 2325 hr |

|                | Field  | 1      | 2   | 3   | 4   |                      |
|----------------|--------|--------|-----|-----|-----|----------------------|
| A. Init Hydro  | 1636.0 | 1600.0 | 0.0 | 0.0 | 0.0 | T STARTED 1940 hr    |
| B. First Flow  | 77.0   | 103.0  | 0.0 | 0.0 | 0.0 | T ON BOTM 2050 hr    |
| B1. Final Flow | 110.0  | 132.0  | 0.0 | 0.0 | 0.0 | T OPEN 2055 hr       |
| C. In Shut-in  | 396.0  | 412.0  | 0.0 | 0.0 | 0.0 | T PULLED 2325 hr     |
| D. Init Flow   | 143.0  | 143.0  | 0.0 | 0.0 | 0.0 | T OUT 0110 hr        |
| E. Final Flow  | 154.0  | 152.0  | 0.0 | 0.0 | 0.0 |                      |
| F. Fl Shut-in  | 396.0  | 404.0  | 0.0 | 0.0 | 0.0 |                      |
| G. Final Hydro | 1614.0 | 1600.0 | 0.0 | 0.0 | 0.0 | TOOL DATA-----       |
| Inside/Outside | o      | o      | i   |     |     | Tool Wt. 2200.00 lbs |

RECOVERY

Tot Fluid 293.00 ft of 0.00 ft in DC and 293.00 ft in DP  
 2430.00 ft of Gas in pipe  
 45.00 ft of Heavy oil & gas cut mud  
 0.00 ft of 12% gas 38% Oil 50% mud  
 124.00 ft of Heavy oil & gas cut muddy water  
 0.00 ft of 35% gas 20% oil 35% water 10% mud  
 124.00 ft of Water  
 0.00 ft of  
 0.00 ft of  
 SALINITY 33000.00 P.P.M. A.P.I. Gravity 0.00

Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 60000.00 lbs  
 Initial Str Wt 36.00 lbs  
 Unseated Str Wt 38000.00 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 0.00 ft  
 D.P. Length 3361.00 ft

MUD DATA-----

Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 47.00 S/L  
 W.L. 8.00 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 Ray Schwager  
 Co. Rep. Ron Nelson  
 Contr. Vonfeldt  
 Rig #  
 Unit #  
 Pump T.

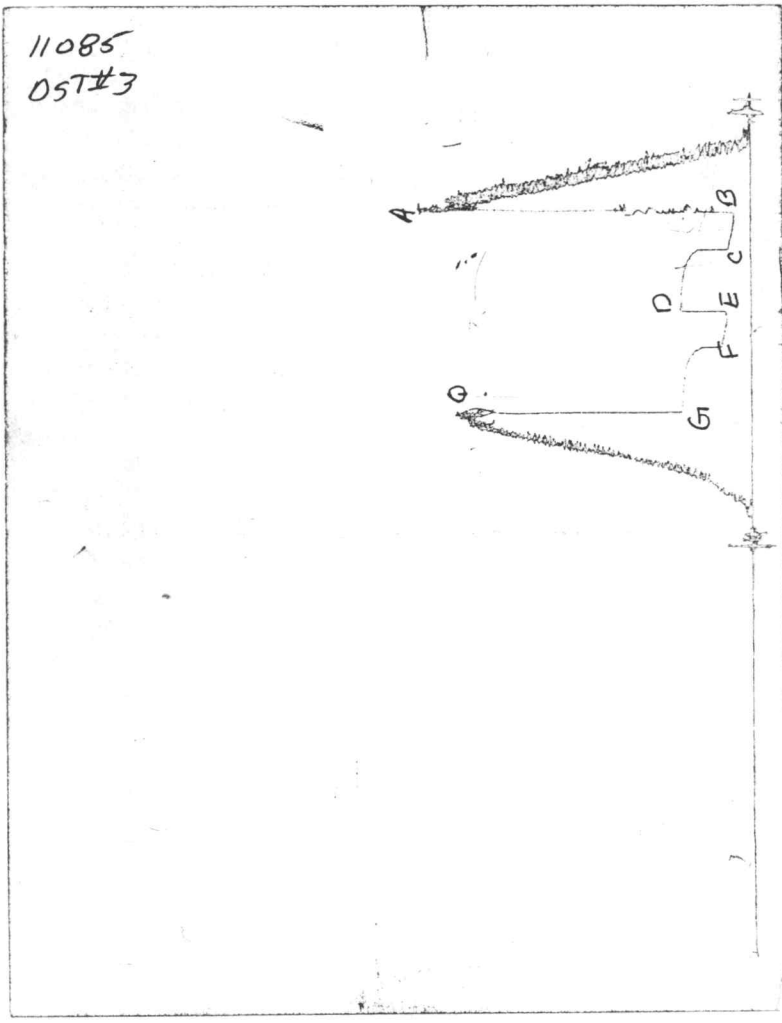
BLOW DESCRIPTION

Initial Flow:  
 Strong blow in 1 mins.  
 Initial Shut-in:  
 Blow back  
 Final Flow:  
 Strong blow in 7 mins.  
 Final Shut-in:  
 Blow back

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development Inc. DATE 11-18-98  
 WELL NAME: Schmidt #1 KB 2015.00 ft TICKET NO: 11694 DST #4  
 LOCATION : 12-15s-18w Ellis co. KS GR 2010.00 ft FORMATION: Arbuckle  
 INTERVAL : 3570.00 To 3582.00 ft TD 3582.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 11085  | 11085  | 10270  |     |     | PF Fr. 2130 to 2200 hr |
| SI 30 Range(Psi ) | 4300.0 | 4300.0 | 4150.0 | 0.0 | 0.0 | IS Fr. 2200 to 2230 hr |
| SF 30 Clock(hrs)  | 12     | 12     | 12     |     |     | SF Fr. 2230 to 2300 hr |
| FS 30 Depth(ft )  | 3573.0 | 3573.0 | 3576.0 | 0.0 | 0.0 | FS Fr. 2300 to 2330 hr |

|                | Field | 1   | 2   | 3   | 4   |                   |
|----------------|-------|-----|-----|-----|-----|-------------------|
| A. Init Hydro  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T STARTED 2020 hr |
| B. First Flow  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T ON BOTM 2125 hr |
| B1. Final Flow | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T OPEN 2130 hr    |
| C. In Shut-in  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T PULLED 2330 hr  |
| D. Init Flow   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T OUT 0100 hr     |
| E. Final Flow  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside | 0     | 0   | I   |     |     |                   |

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP  
 5.00 ft of 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

TOOL DATA-----  
 Tool Wt. 2200.00 lbs  
 Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 60000.00 lbs  
 Initial Str Wt 36000.00 lbs  
 Unseated Str Wt 36000.00 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 0.00 ft  
 D.P. Length 3350.00 ft

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

BLOW DESCRIPTION

Initial Flow:  
 Very weak blow throughout 1/4" to  
 a surface blow  
 Final Flow:  
 No blow

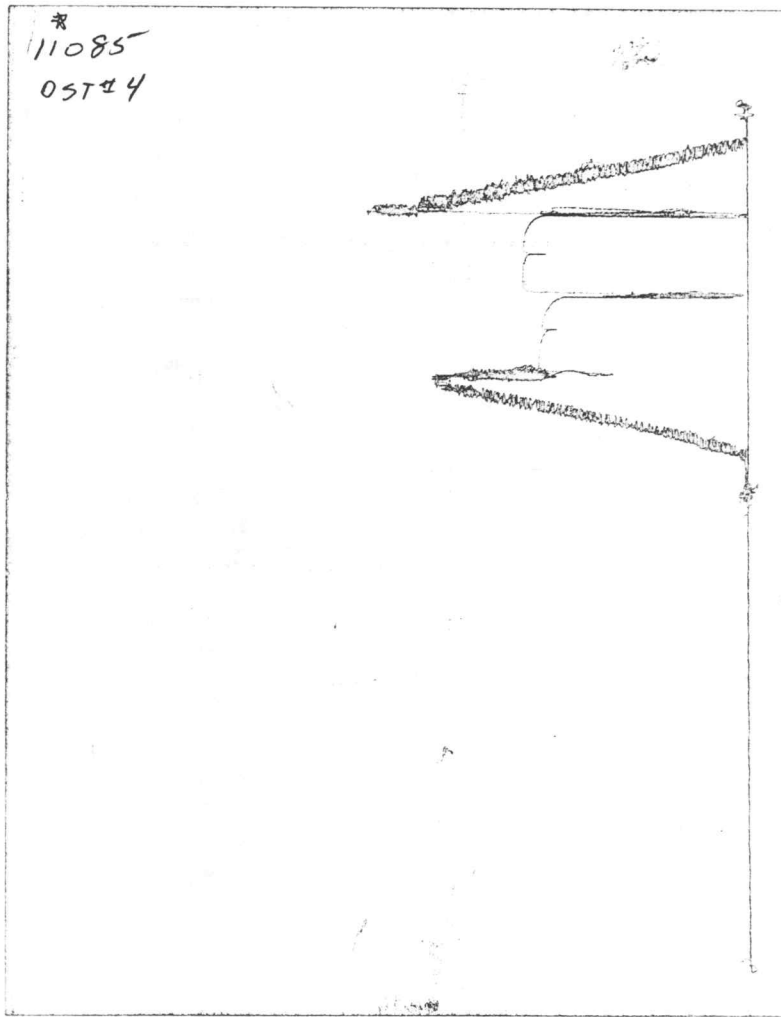
Plugged tool had approx. 6' to 7' of  
 fill on bottom of holw where tool  
 was set

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.20 lb/cf  
 Vis. 41.00 S/L  
 W.L. 13.00 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 0.00 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 Ray Schwager  
 Co. Rep. Ron Nelson  
 Contr. Vonfeldt  
 Rig #  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

Test Successful: N

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development Inc. DATE 11-19-98  
 WELL NAME: Schmidt #1 KB 2015.00 ft TICKET NO: 11695 DST #5  
 LOCATION : 12-15s-18w Ellis co. KS GR 2010.00 ft FORMATION: Arbuckle  
 INTERVAL : 3570.00 To 3582.00 ft TD 3582.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 45 Rec.        | 11085  | 11085  | 10270  |     |     | PF Fr. 0800 to 0845 hr |
| SI 45 Range(Psi ) | 4300.0 | 4300.0 | 4150.0 | 0.0 | 0.0 | IS Fr. 0842 to 0930 hr |
| SF 45 Clock(hrs)  | 12     | 12     | 12     |     |     | SF Fr. 0930 to 1015 hr |
| FS 45 Depth(ft )  | 3573.0 | 3573.0 | 3576.0 | 0.0 | 0.0 | FS Fr. 1015 to 1100 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 1798.0 | 1771.0 | 0.0 | 0.0 | 0.0 | T STARTED 0645 hr             |
| B. First Flow  | 55.0   | 47.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 0755 hr             |
| B1. Final Flow | 55.0   | 52.0   | 0.0 | 0.0 | 0.0 | T OPEN 0800 hr                |
| C. In Shut-in  | 626.0  | 627.0  | 0.0 | 0.0 | 0.0 | T PULLED 1100 hr              |
| D. Init Flow   | 55.0   | 52.0   | 0.0 | 0.0 | 0.0 | T OUT 1210 hr                 |
| E. Final Flow  | 55.0   | 52.0   | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 462.0  | 458.0  | 0.0 | 0.0 | 0.0 |                               |
| G. Final Hydro | 1766.0 | 1746.0 | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| Inside/Outside | 0      | 0      | I   |     |     | Tool Wt. 2200.00 lbs          |
|                |        |        |     |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 60000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 36000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 36000.00 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 0.00 ft           |
|                |        |        |     |     |     | D.P. Length 3550.00 ft        |

RECOVERY

Tot Fluid 40.00 ft of 0.00 ft in DC and 40.00 ft in DP  
 40.00 ft of Very slight oil cut mud  
 0.00 ft of 1/2% oil 99 1/2% 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

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

BLOW DESCRIPTION

Initial Flow:  
 Weak blow throughout 1" to 2" blow  
 Final Flow:  
 Weak blow throughout 1/2" to 1" blow

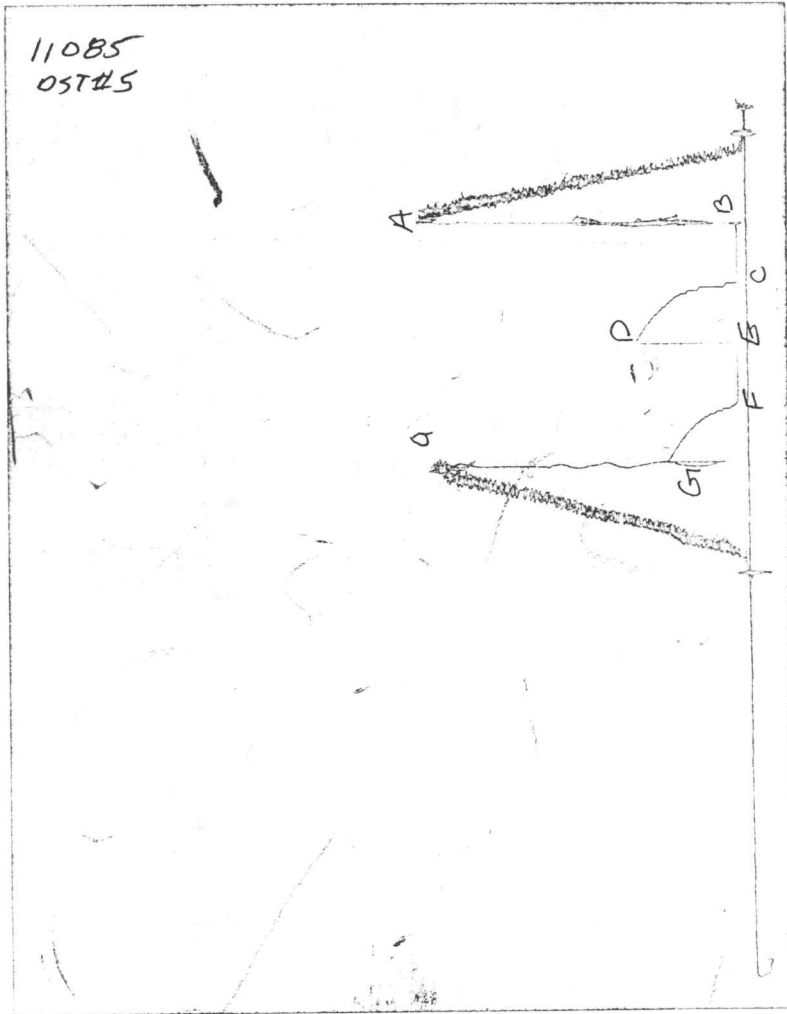
MUD DATA-----

| Mud Type       | Chemical     |
|----------------|--------------|
| Weight         | 9.30 lb/cf   |
| Vis.           | 51.00 S/L    |
| W.L.           | 11.00 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         | Ray Schwager |
| Co. Rep.       | Ron Nelson   |
| Contr.         | Vonfeldt     |
| Rig #          |              |
| Unit #         |              |
| Pump T.        |              |

SAMPLES:  
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : ESP Development Inc. DATE 11-19-98  
 WELL NAME: Schmidt #1 KB 2015.00 ft TICKET NO: 11696 DST #6  
 LOCATION : 12-15s-18w Ellis co. KS GR 2010.00 ft FORMATION: Arbuckle  
 INTERVAL : 3570.00 To 3586.00 ft TD 3586.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins               | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|--------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.         | 11085  | 11085  | 10270  |     |     | PF Fr. 2020 to 2050 hr |
| SI 30 Range (Psi ) | 4300.0 | 4300.0 | 4150.0 | 0.0 | 0.0 | IS Fr. 2050 to 2120 hr |
| SF 30 Clock (hrs)  | 12     | 12     | 12     |     |     | SF Fr. 2120 to 2150 hr |
| FS 30 Depth(ft )   | 3577.0 | 3577.0 | 3580.0 | 0.0 | 0.0 | FS Fr. 2150 to 2020 hr |

|                | Field  | 1      | 2   | 3   | 4   |                   |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro  | 1777.0 | 1791.0 | 0.0 | 0.0 | 0.0 | T STARTED 1915 hr |
| B. First Flow  | 88.0   | 112.0  | 0.0 | 0.0 | 0.0 | T ON BOTM 2015 hr |
| B1. Final Flow | 88.0   | 112.0  | 0.0 | 0.0 | 0.0 | T OPEN 2020 hr    |
| C. In Shut-in  | 550.0  | 550.0  | 0.0 | 0.0 | 0.0 | T PULLED 2220 hr  |
| D. Init Flow   | 110.0  | 125.0  | 0.0 | 0.0 | 0.0 | T OUT 2345 hr     |
| E. Final Flow  | 110.0  | 125.0  | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 374.0  | 396.0  | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 1777.0 | 1791.0 | 0.0 | 0.0 | 0.0 |                   |

TOOL DATA-----  
 Inside/Outside 0 0 I  
 Tool Wt. 2200.00 lbs  
 Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 63000.00 lbs

RECOVERY

Tot Fluid 140.00 ft of 0.00 ft in DC and 140.00 ft in DP  
 140.00 ft of 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  
 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 0.00 ft  
 D.P. Length 3550.00 ft

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

BLOW DESCRIPTION

Initial Flow:  
 Weak blow throughout 1" to 1/4" blow  
 Final Flow:  
 Very weak surface blow throughout

MUD DATA-----

Mud Type Chemical  
 Weight 9.30 lb/c  
 Vis. 51.00 S/L  
 W.L. 11.00 in3  
 F.C. 0.00 in  
 Mud Drop

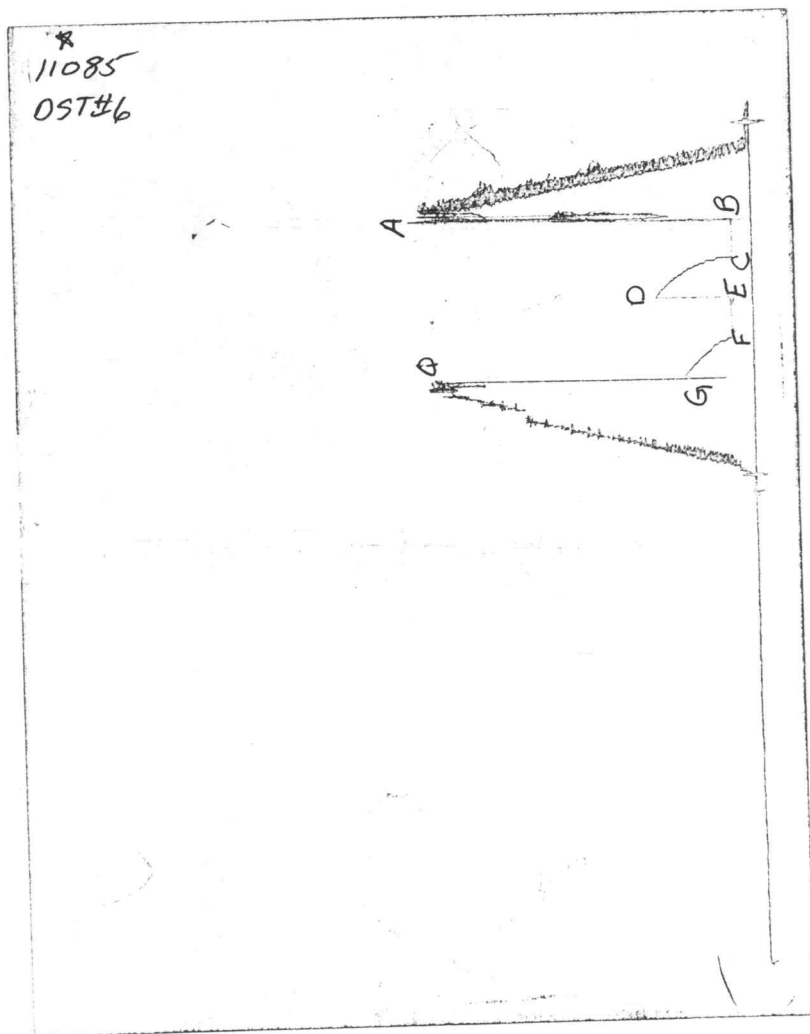
Amt. of fill 0.00 ft  
 Btm. H. Temp. 109.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type

SAMPLES:  
 SENT TO:

Reversed Out  
 Tool Chased  
 Tester Ray Schwager  
 Co. Rep. Ron Nelson  
 Contr. Vonfeldt  
 Rig #  
 Unit #  
 Pump T.

Test Successful: Y

CHART PAGE



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