

**WELL NAME:** Erskin 1-28  
**COMPANY:** Cross Bar Petroleum Inc.  
**LOCATION:** Sec. 28 Twp. 17S Rge. 32W  
Scott County Kansas  
**DATE:** 2/14/97

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum Inc. DATE 2/6/97  
 WELL NAME: Erskin 1-28 KB 2988.00 ft TICKET NO: 9629 DST #1  
 LOCATION : 28-17-32 Scott KS GR 2983.00 ft FORMATION: Lansing KC "B"  
 INTERVAL : 4000.00 To 4016.00 ft TD 4016.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 11058  | 11058  | 11057  |     |     | PF Fr. 1835 to 1905 hr |
| SI 60 Range(Psi ) | 4475.0 | 4475.0 | 4500.0 | 0.0 | 0.0 | IS Fr. 1905 to 2005 hr |
| SF 8 Clock(hrs)   | 12 HR  | 12 HR  | 12 HR  |     |     | SF Fr. 2005 to 2013 hr |
| FS 0 Depth(ft )   | 4013.0 | 4013.0 | 4001.0 | 0.0 | 0.0 | FS Fr. to hr           |

|                | Field  | 1      | 2   | 3   | 4   |                      |
|----------------|--------|--------|-----|-----|-----|----------------------|
| A. Init Hydro  | 1952.0 | 1956.0 | 0.0 | 0.0 | 0.0 | T STARTED 1625 hr    |
| B. First Flow  | 77.0   | 71.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1830 hr    |
| B1. Final Flow | 66.0   | 65.0   | 0.0 | 0.0 | 0.0 | T OPEN 1835 hr       |
| C. In Shut-in  | 1042.0 | 1023.0 | 0.0 | 0.0 | 0.0 | T PULLED 2013 hr     |
| D. Init Flow   | 88.0   | 109.0  | 0.0 | 0.0 | 0.0 | T OUT 2200 hr        |
| E. Final Flow  | 100.0  | 108.0  | 0.0 | 0.0 | 0.0 |                      |
| F. Fl Shut-in  | 0.0    | 0.0    | 0.0 | 0.0 | 0.0 |                      |
| G. Final Hydro | 1929.0 | 1907.0 | 0.0 | 0.0 | 0.0 | TOOL DATA-----       |
| Inside/Outside | 0      | 0      | I   |     |     | Tool Wt. 4000.00 lbs |

RECOVERY

|  |   |            |            |            |            |            |            |            |            |                               |                              |                             |                              |                   |                   |                   |                    |                       |                        |
|--|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------------------------|------------------------------|-----------------------------|------------------------------|-------------------|-------------------|-------------------|--------------------|-----------------------|------------------------|
| Tot Fluid 110.00 ft of 110.00 ft in DC and 0.00 ft in DP | 0.00 ft of Watery Mud 30% water 70% mud | 0.00 ft of | Wt Set On Packer 26000.00 lbs | Wt Pulled Loose 63000.00 lbs | Initial Str Wt 55000.00 lbs | Unseated Str Wt 55000.00 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 248.00 ft | D.P. Length 3732.00 ft |
|--|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------------------------|------------------------------|-----------------------------|------------------------------|-------------------|-------------------|-------------------|--------------------|-----------------------|------------------------|

SALINITY 21500.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 1/4" blow, died in 27 mins

Initial Shut In:  
 No return

Final Flow:  
 Bubble to open tool, no blow, Flush tool, no blow, pull tool

Final Shut In:

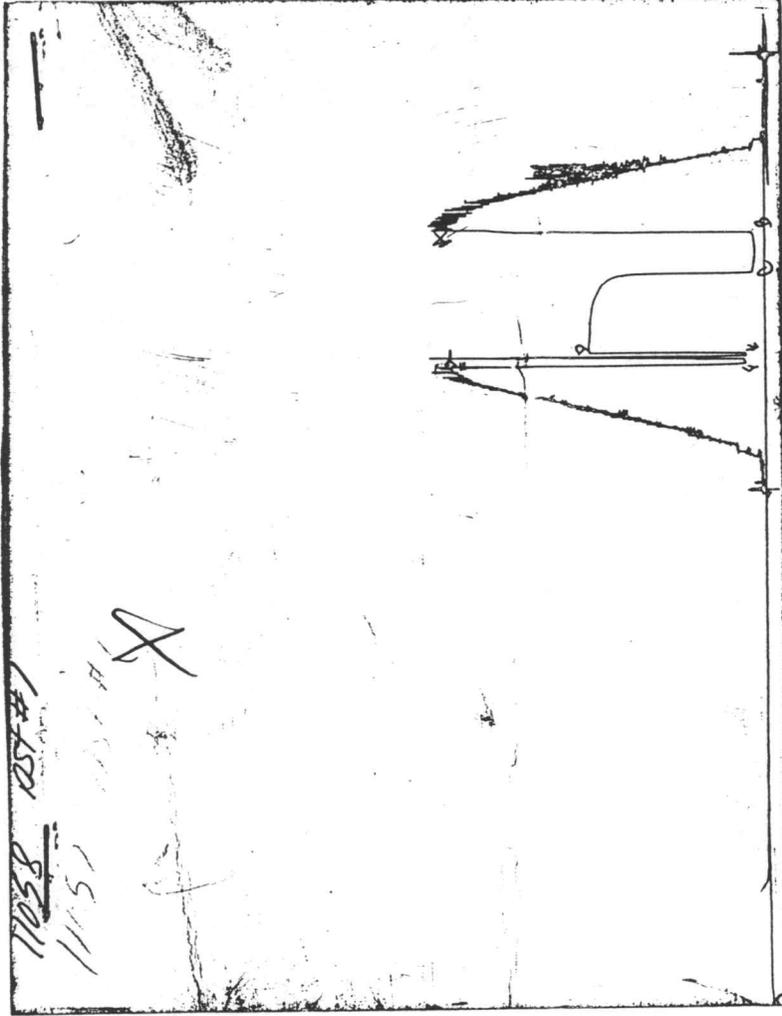
SAMPLES:  
 SENT TO:

MUD DATA-----

| Mud Type       | Chemical      |
|----------------|---------------|
| Weight         | 8.90 lb/cf    |
| Vis.           | 36.00 S/L     |
| W.L.           | 9.00 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         | Shane McBride |
| Co. Rep.       | Steve Davis   |
| Contr.         | Mallard       |
| Rig #          |               |
| Unit #         |               |
| Pump T.        |               |

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum Inc.  
 WELL NAME: Erskin 1-28  
 LOCATION : 28-17-32 Scott KS  
 INTERVAL : 4190.00 To 4210.00 ft

DATE 2/7/97

KB 2988.00 ft TICKET NO: 9630 DST #2  
 GR 2983.00 ft FORMATION: Lansing KC "I"  
 TD 4210.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins  |             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|-------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 | Rec.        | 11058  | 11058  | 11057  |     |     | PF Fr. 2238 to 2308 hr |
| SI 60 | Range(Psi ) | 4475.0 | 4475.0 | 4500.0 | 0.0 | 0.0 | IS Fr. 2308 to 0008 hr |
| SF 30 | Clock(hrs)  | 12 Hr  | 12 Hr  | 12 Hr  |     |     | SF Fr. 0008 to 0038 hr |
| FS 60 | Depth(ft )  | 4207.0 | 4207.0 | 4191.0 | 0.0 | 0.0 | FS Fr. 0038 to 0138 hr |

|                | Field  | 1      | 2   | 3   | 4   |                   |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro  | 2162.0 | 2064.0 | 0.0 | 0.0 | 0.0 | T STARTED 2030 hr |
| B. First Flow  | 123.0  | 95.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 2230 hr |
| B1. Final Flow | 459.0  | 425.0  | 0.0 | 0.0 | 0.0 | T OPEN 2238 hr    |
| C. In Shut-in  | 1074.0 | 1055.0 | 0.0 | 0.0 | 0.0 | T PULLED 0138 hr  |
| D. Init Flow   | 526.0  | 508.0  | 0.0 | 0.0 | 0.0 | T OUT 0445 hr     |
| E. Final Flow  | 694.0  | 662.0  | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 1074.0 | 1058.0 | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 2129.0 | 2028.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside | 0      | 0      | I   |     |     |                   |

TOOL DATA-----  
 Tool Wt. 4000.00 lbs  
 Wt Set On Packer 2600.00 lbs  
 Wt Pulled Loose 69000.00 lbs  
 Initial Str Wt 59000.00 lbs  
 Unseated Str Wt 65000.00 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 248.00 ft  
 D.P. Length 3919.00 ft

RECOVERY

Tot Fluid 1488.00 ft of 248.00 ft in DC and 1240.00 ft in DP  
 180.00 ft of Muddy Water 55% water 45% mud  
 0.00 ft of  
 1380.00 ft of Salt Water  
 0.00 ft of  
 SALINITY 44500.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 48.00 S/L  
 W.L. 8.00 in3  
 F.C. 0.00 in  
 Mud Drop

BLOW DESCRIPTION

Initial Flow:  
 Strong Blow, bottom of bucket in 3 min

Initial Shut In:

No return

Final Flow:

Strong blow, bottom of bucket in 4 min

Final Shut In:

No return

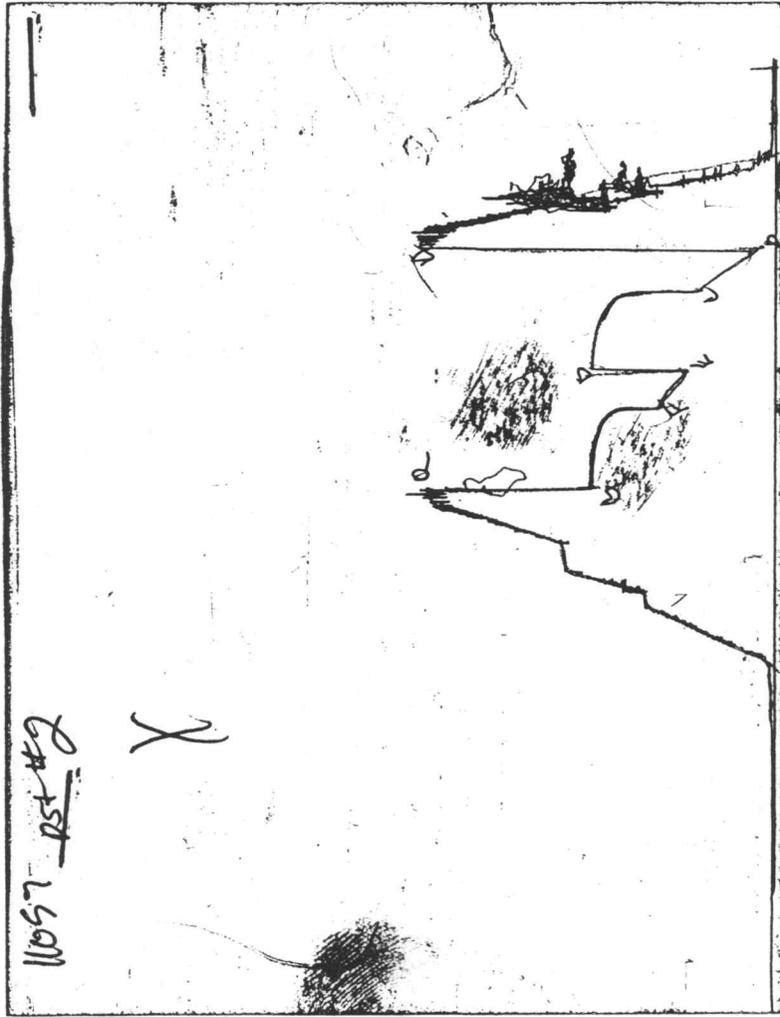
SAMPLES:

SENT TO:

Amt. of fill 0.00 ft  
 Btm. H. Temp. 127.00 F  
 Hole Condition  
 % Porosity 6.75  
 Packer Size 0.00 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Shane McBride  
 Co. Rep. Steve Davis  
 Contr. Mallard  
 Rig #  
 Unit #  
 Pump T.

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Cross Bar Petroleum Inc  
 WELL NAME: Erskin 1-28  
 LOCATION : 28-17-32 Scott KS  
 INTERVAL : 4222.00 To 4242.00 ft

DATE 2/8/97  
 KB 2988.00 ft  
 GR 2983.00 ft  
 TD 4242.00 ft

TICKET NO: 9637  
 FORMATION: Lansing KC "J"  
 DST #3  
 TEST TYPE: CONV

RECORDER DATA

| Mins  | Field       | 1      | 2      | 3      | 4   | TIME DATA-----         |                        |
|-------|-------------|--------|--------|--------|-----|------------------------|------------------------|
| PF 30 | Rec.        | 11057  | 11057  | 11058  |     | PF Fr. 1445 to 1515 hr |                        |
| SI 60 | Range(Psi ) | 4500.0 | 4500.0 | 4475.0 | 0.0 | 0.0                    | IS Fr. 1515 to 1615 hr |
| SF 30 | Clock(hrs)  | 12 HR  | 12 HR  | 12 HR  |     |                        | SF Fr. 1615 to 1645 hr |
| FS 60 | Depth(ft )  | 4223.0 | 4223.0 | 4239.0 | 0.0 | 0.0                    | FS Fr. 1645 to 1745 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 2162.0 | 2135.0 | 0.0 | 0.0 | 0.0 | T STARTED 1300 hr             |
| B. First Flow  | 89.0   | 87.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1440 hr             |
| B1. Final Flow | 213.0  | 213.0  | 0.0 | 0.0 | 0.0 | T OPEN 1445 hr                |
| C. In Shut-in  | 1107.0 | 1096.0 | 0.0 | 0.0 | 0.0 | T PULLED 1745 hr              |
| D. Init Flow   | 269.0  | 271.0  | 0.0 | 0.0 | 0.0 | T OUT 1945 hr                 |
| E. Final Flow  | 336.0  | 328.0  | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1107.0 | 1092.0 | 0.0 | 0.0 | 0.0 |                               |
| G. Final Hydro | 2140.0 | 2115.0 | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| Inside/Outside | 0      | 0      | I   |     |     | Tool Wt. 4000.00 lbs          |
|                |        |        |     |     |     | Wt Set On Packer 26000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 39000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 59000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 63000.00 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 248.00 ft         |
|                |        |        |     |     |     | D.P. Length 3950.00 ft        |

RECOVERY

Tot Fluid 588.00 ft of 248.00 ft in DC and 340.00 ft in DP  
 60.00 ft of Slightly Muddy Water  
 0.00 ft of 75% water 25% mud  
 0.00 ft of  
 528.00 ft of Salt Water  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 50500.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Fair blow, bottom of bucket in 15 mins

Initial Shut In:  
 No return

Final Flow:  
 Bottom of bucket in 28 mins

Final Shut In:  
 No return

SAMPLES:

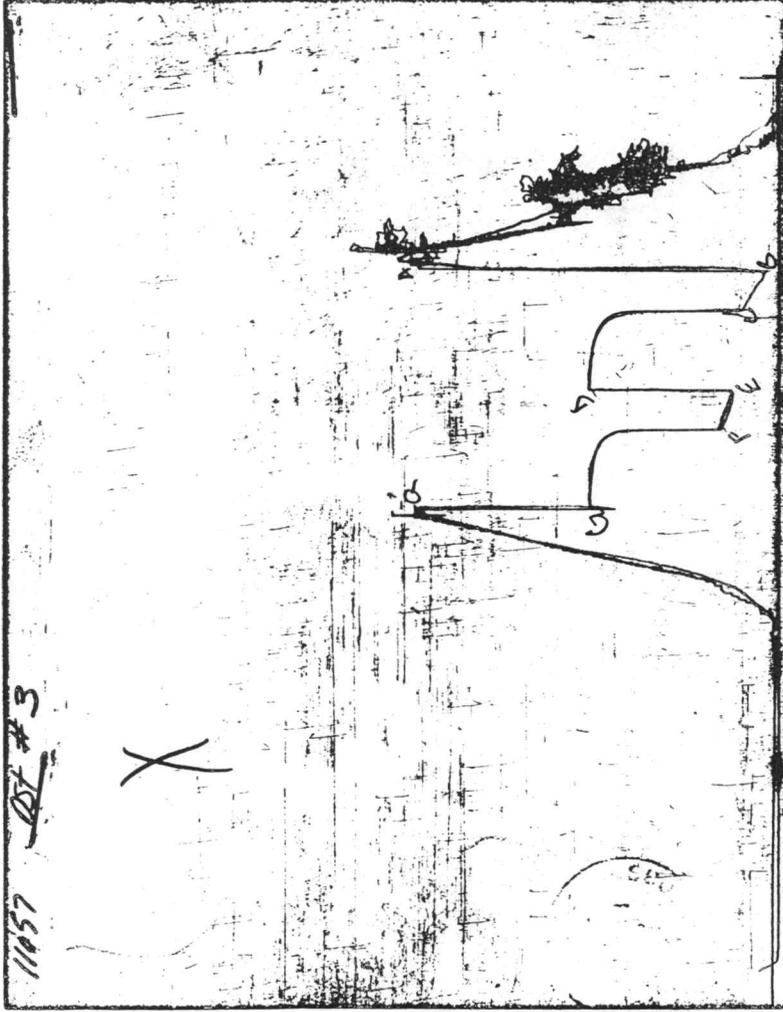
SENT TO:

MUD DATA-----

| Mud Type       | CHemical      |
|----------------|---------------|
| Weight         | 9.20 lb/c     |
| Vis.           | 51.00 S/L     |
| W.L.           | 8.00 in3      |
| F.C.           | 0.00 in       |
| Mud Drop       |               |
| Amt. of fill   | 0.00 ft       |
| Btm. H. Temp.  | 131.00 F      |
| Hole Condition |               |
| % Porosity     | 0.00          |
| Packer Size    | 6.75 in       |
| No. of Packers | 0             |
| Cushion Amt.   | 2.00          |
| Cushion Type   |               |
| Reversed Out   |               |
| Tool Chased    |               |
| Tester         | Shane McBride |
| Co. Rep.       | Steve Davis   |
| Contr.         | Mallard       |
| Rig #          | 2             |
| Unit #         |               |
| Pump T.        |               |

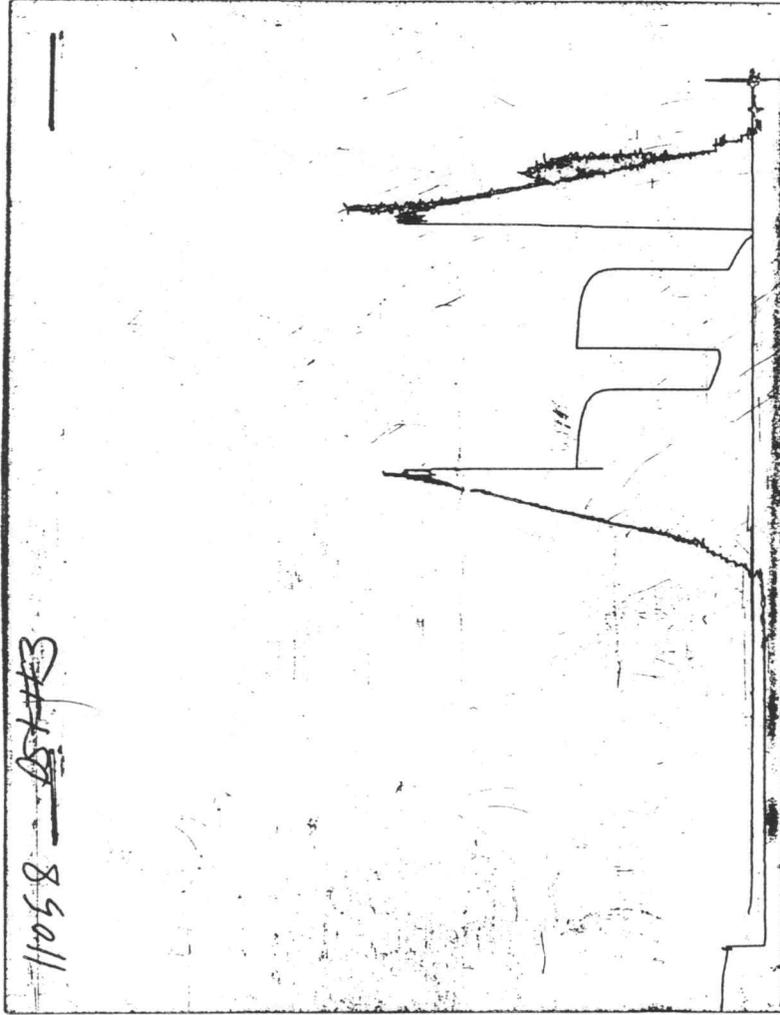
Test Successful: Y

CHART PAGE



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

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Cross Bar Petroleum Inc  
 WELL NAME: Erskin 1-28  
 LOCATION : 28-17-32 Scott KS  
 INTERVAL : 4315.00 To 4340.00 ft

DATE 2/9/97  
 KB 29880.00 ft TICKET NO: 9632 DST #4  
 GR 2983.00 ft FORMATION: Pleasanton  
 TD 4340.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 11057  | 11057  | 11058  |     |     | PF Fr. 1135 to 1205 hr |
| SI 60 Range(Psi ) | 4500.0 | 4500.0 | 4337.0 | 0.0 | 0.0 | IS Fr. 1205 to 1305 hr |
| SF 8 Clock(hrs)   | 12 HR  | 12 HR  | 12 HR  |     |     | SF Fr. 1305 to 1313 hr |
| FS 0 Depth(ft )   | 4316.0 | 4316.0 | 4337.0 | 0.0 | 0.0 | FS Fr. to hr           |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 2185.0 | 2154.0 | 0.0 | 0.0 | 0.0 | T STARTED 0945 hr             |
| B. First Flow  | 33.0   | 31.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 1130 hr             |
| B1. Final Flow | 22.0   | 28.0   | 0.0 | 0.0 | 0.0 | T OPEN 1135 hr                |
| C. In Shut-in  | 1107.0 | 1091.0 | 0.0 | 0.0 | 0.0 | T PULLED 1313 hr              |
| D. Init Flow   | 44.0   | 60.0   | 0.0 | 0.0 | 0.0 | T OUT 1500 hr                 |
| E. Final Flow  | 56.0   | 60.0   | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 0.0    | 0.0    | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2174.0 | 2128.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 4000.00 lbs          |
| Inside/Outside | 0      | 0      | I   |     |     | Wt Set On Packer 26000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 77000.00 lbs  |
|                |        |        |     |     |     | Initial Str Wt 60000.00 lbs   |
|                |        |        |     |     |     | Unseated Str Wt 60000.00 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 248.00 ft         |
|                |        |        |     |     |     | D.P. Length 4034.00 ft        |

RECOVERY

Tot Fluid 15.00 ft of 15.00 ft in DC and 0.00 ft in DP  
 15.00 ft of Drilling Mud  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 1/8" at open , died in 12 min

Initial Shut In:  
 No return

Final Flow:  
 Bubble to open tool, no blow, Flush  
 tool, good surge, no blow,

Pulled tool

Final Shut In:

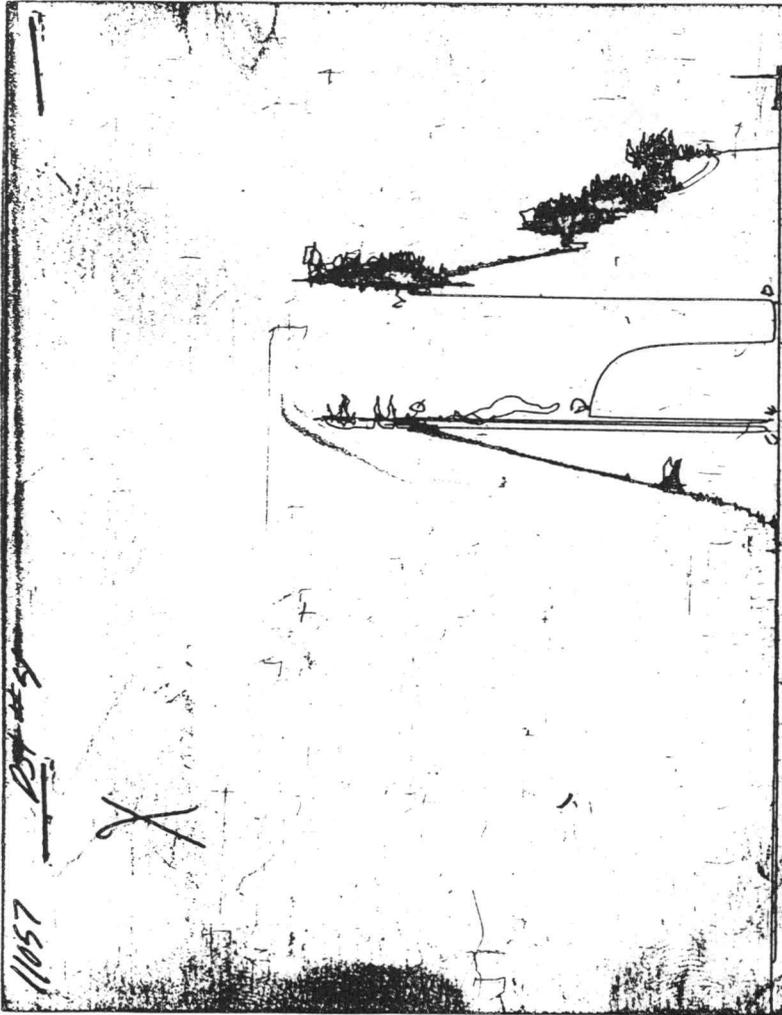
SAMPLES:

SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.30 lb/c  
 Vis. 51.00 S/L  
 W.L. 8.00 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 116.00 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 Shane McBride  
 Co. Rep. Steve Davis  
 Contr. Mallard  
 Rig # 2  
 Unit #  
 Pump T.

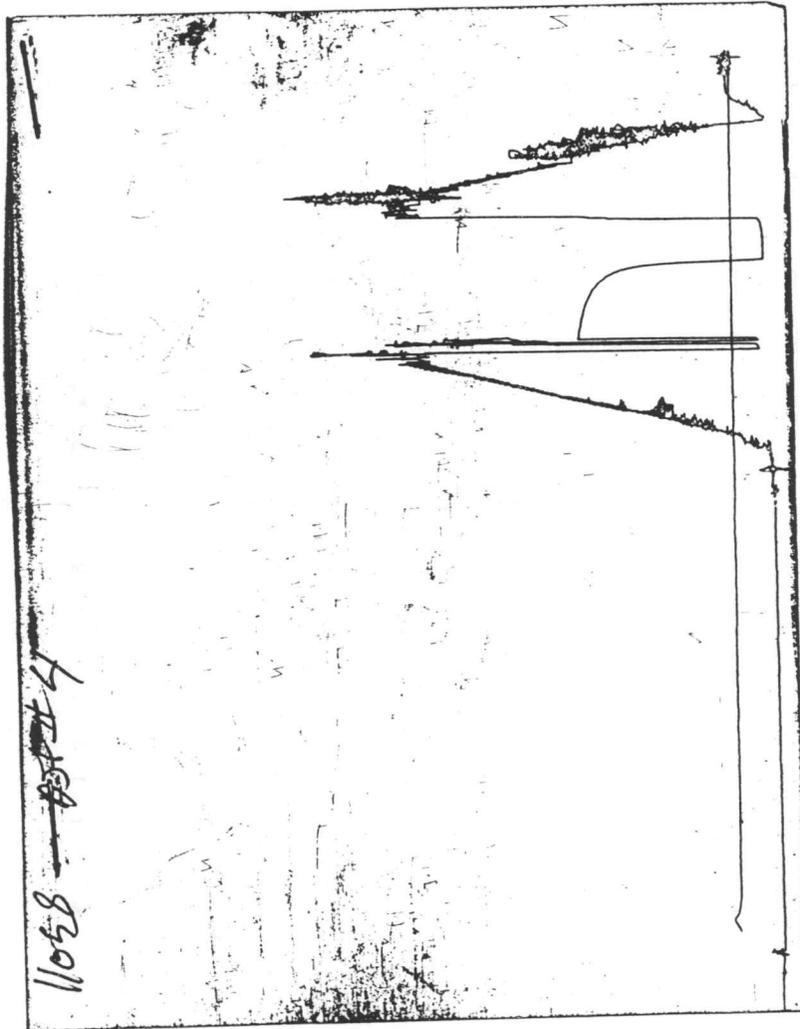
Test Successful: N

CHART PAGE



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

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Pet. Inc.  
 WELL NAME: Erskins 1-28  
 LOCATION : 28-17-32  
 INTERVAL : 4608.00 To 4658.00 ft

DATE 2-11-97  
 KB 2988.00 ft TICKET NO: 9633 DST #5  
 GR 2983.00 ft FORMATION: Morrow  
 TD 4658.00 ft TEST TYPE: CONV.

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 60 Rec.        | 11057  | 11057  | 2342   |     |     | PF Fr. 0545 to 0645 hr |
| SI 90 Range(Psi ) | 4500.0 | 4500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0645 to 0815 hr |
| SF 60 Clock(hrs)  | 12 HR  | 12 HR  | Elec   |     |     | SF Fr. 0815 to 0915 hr |
| FS 120 Depth(ft ) | 4653.0 | 4653.0 | 4621.0 | 0.0 | 0.0 | FS Fr. 0915 to 1115 hr |

|                | Field | 1      | 2      | 3   | 4   |                               |
|----------------|-------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 0.0   | 2363.0 | 2360.0 | 0.0 | 0.0 | T STARTED 0335 hr             |
| B. First Flow  | 0.0   | 152.0  | 137.0  | 0.0 | 0.0 | T ON BOTM 0540 hr             |
| B1. Final Flow | 0.0   | 260.0  | 285.0  | 0.0 | 0.0 | T OPEN 0545 hr                |
| C. In Shut-in  | 0.0   | 0.0    | 0.0    | 0.0 | 0.0 | T PULLED 1115 hr              |
| D. Init Flow   | 0.0   | 336.0  | 293.0  | 0.0 | 0.0 | T OUT 1340 hr                 |
| E. Final Flow  | 0.0   | 463.0  | 483.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 0.0   | 0.0    | 0.0    | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 0.0   | 2344.0 | 2326.0 | 0.0 | 0.0 | Tool Wt. 5000.00 lbs          |
| Inside/Outside | 0     | 0      | I      |     |     | Wt Set On Packer 26000.00 lbs |
|                |       |        |        |     |     | Wt Pulled Loose 73000.00 lbs  |
|                |       |        |        |     |     | Initial Str Wt 60000.00 lbs   |
|                |       |        |        |     |     | Unseated Str Wt 63000.00 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 248.00 ft         |
|                |       |        |        |     |     | D.P. Length 4386.00 ft        |

RECOVERY

Tot Fluid 836.00 ft of 248.00 ft in DC and 588.00 ft in DP  
 836.00 ft of Drilling Mud trace of Oil 1%oil 99%mud  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Mud dropped at open - pull tool loose,  
 reset, 1/4" at open built to bottom  
 of bucket in 45 mins

Initial Shut In:  
 Bled off blow no return

Final Flow:  
 Weak surface blow built to bottom of  
 in 52 mins

Final Shut In:  
 Bled off blow no return

SAMPLES:

SENT TO:

MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.30 lb/c |
| Vis.       | 48.00 S/L |
| W.L.       | 8.80 in3  |
| F.C.       | 0.00 in   |
| Mud Drop Y | 0.0 ft    |

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 132.00 F |
| Hole Condition | GOOD     |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00     |

Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Shane McBride  
 Co. Rep. Steve Davis  
 Contr. Mallard  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: Y



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

|                      | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 127.00 | 2359.9           | 0.0             | 118.76         |           |                                 |
| ***** Start Flow 1   | 0.00   | 137.4            | 0.0             | 118.92         |           |                                 |
|                      | 1.00   | 148.4            | 11.0            | 119.02         |           |                                 |
|                      | 2.00   | 149.3            | 11.9            | 119.03         |           |                                 |
|                      | 3.00   | 150.4            | 13.0            | 119.01         |           |                                 |
|                      | 4.00   | 151.0            | 13.6            | 118.99         |           |                                 |
|                      | 5.00   | 152.2            | 14.8            | 118.97         |           |                                 |
|                      | 6.00   | 153.1            | 15.7            | 118.97         |           |                                 |
|                      | 7.00   | 153.6            | 16.2            | 118.99         |           |                                 |
|                      | 8.00   | 154.2            | 16.8            | 119.02         |           |                                 |
|                      | 9.00   | 155.3            | 18.0            | 119.06         |           |                                 |
|                      | 10.00  | 156.5            | 19.1            | 119.12         |           |                                 |
|                      | 11.00  | 156.2            | 18.8            | 119.19         |           |                                 |
|                      | 12.00  | 157.1            | 19.7            | 119.26         |           |                                 |
|                      | 13.00  | 159.5            | 22.1            | 119.35         |           |                                 |
|                      | 14.00  | 160.2            | 22.8            | 119.43         |           |                                 |
|                      | 15.00  | 162.8            | 25.4            | 119.54         |           |                                 |
|                      | 16.00  | 164.2            | 26.8            | 119.63         |           |                                 |
|                      | 17.00  | 166.9            | 29.5            | 119.73         |           |                                 |
|                      | 18.00  | 168.9            | 31.5            | 119.84         |           |                                 |
|                      | 19.00  | 170.4            | 33.1            | 119.94         |           |                                 |
|                      | 20.00  | 172.2            | 34.8            | 120.05         |           |                                 |
|                      | 21.00  | 174.7            | 37.3            | 120.15         |           |                                 |
|                      | 22.00  | 176.4            | 39.0            | 120.26         |           |                                 |
|                      | 23.00  | 178.4            | 41.0            | 120.36         |           |                                 |
|                      | 24.00  | 181.3            | 43.9            | 120.47         |           |                                 |
|                      | 25.00  | 183.1            | 45.7            | 120.57         |           |                                 |
|                      | 26.00  | 185.1            | 47.7            | 120.68         |           |                                 |
|                      | 27.00  | 187.5            | 50.1            | 120.78         |           |                                 |
|                      | 28.00  | 190.1            | 52.7            | 120.89         |           |                                 |
|                      | 29.00  | 192.4            | 55.1            | 120.99         |           |                                 |
|                      | 30.00  | 195.5            | 58.2            | 121.09         |           |                                 |
|                      | 31.00  | 198.4            | 61.0            | 121.19         |           |                                 |
|                      | 32.00  | 201.0            | 63.6            | 121.30         |           |                                 |
|                      | 33.00  | 204.1            | 66.7            | 121.39         |           |                                 |
|                      | 34.00  | 207.3            | 69.9            | 121.49         |           |                                 |
|                      | 35.00  | 209.7            | 72.3            | 121.58         |           |                                 |
|                      | 36.00  | 212.9            | 75.5            | 121.69         |           |                                 |
|                      | 37.00  | 215.9            | 78.6            | 121.78         |           |                                 |
|                      | 38.00  | 219.0            | 81.7            | 121.87         |           |                                 |
|                      | 39.00  | 222.4            | 85.0            | 121.96         |           |                                 |
|                      | 40.00  | 224.3            | 86.9            | 122.06         |           |                                 |
|                      | 41.00  | 227.9            | 90.6            | 122.15         |           |                                 |
|                      | 42.00  | 231.0            | 93.6            | 122.24         |           |                                 |
|                      | 43.00  | 234.3            | 96.9            | 122.33         |           |                                 |
|                      | 44.00  | 236.8            | 99.5            | 122.41         |           |                                 |
|                      | 45.00  | 239.4            | 102.0           | 122.50         |           |                                 |
|                      | 46.00  | 242.5            | 105.2           | 122.59         |           |                                 |
|                      | 47.00  | 245.7            | 108.4           | 122.67         |           |                                 |
|                      | 48.00  | 249.1            | 111.7           | 122.75         |           |                                 |
|                      | 49.00  | 252.2            | 114.8           | 122.83         |           |                                 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

|                      | Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|-------|------------------|-----------------|----------------|-----------|---------------------------------|
|                      | 50.00 | 255.7            | 118.3           | 122.91         |           |                                 |
|                      | 51.00 | 259.0            | 121.6           | 123.00         |           |                                 |
|                      | 52.00 | 262.0            | 124.6           | 123.08         |           |                                 |
|                      | 53.00 | 265.8            | 128.4           | 123.15         |           |                                 |
|                      | 54.00 | 268.3            | 130.9           | 123.23         |           |                                 |
|                      | 55.00 | 271.2            | 133.9           | 123.30         |           |                                 |
|                      | 56.00 | 273.9            | 136.6           | 123.38         |           |                                 |
|                      | 57.00 | 277.9            | 140.5           | 123.46         |           |                                 |
|                      | 58.00 | 281.3            | 143.9           | 123.53         |           |                                 |
| ***** End Flow 1     | 59.00 | 284.9            | 147.5           | 123.61         |           |                                 |
| ***** Start Shutin 1 | 0.00  | 284.9            | 0.0             | 123.61         | 0.0000    | 0.081                           |
|                      | 1.00  | 2031.9           | 1747.0          | 123.75         | 60.0000   | 4.129                           |
|                      | 2.00  | 2027.3           | 1742.3          | 123.88         | 30.5000   | 4.110                           |
|                      | 3.00  | 1954.3           | 1669.3          | 124.00         | 20.6667   | 3.819                           |
|                      | 4.00  | 2135.0           | 1850.1          | 124.13         | 15.7500   | 4.558                           |
|                      | 5.00  | 2078.5           | 1793.5          | 124.26         | 12.8000   | 4.320                           |
|                      | 6.00  | 2034.2           | 1749.3          | 124.36         | 10.8333   | 4.138                           |
|                      | 7.00  | 1997.4           | 1712.5          | 124.47         | 9.4286    | 3.990                           |
|                      | 8.00  | 1965.8           | 1680.9          | 124.55         | 8.3750    | 3.864                           |
|                      | 9.00  | 1938.2           | 1653.3          | 124.61         | 7.5556    | 3.757                           |
|                      | 10.00 | 1912.9           | 1627.9          | 124.69         | 6.9000    | 3.659                           |
|                      | 11.00 | 1890.4           | 1605.5          | 124.76         | 6.3636    | 3.574                           |
|                      | 12.00 | 1873.9           | 1589.0          | 124.82         | 5.9167    | 3.512                           |
|                      | 13.00 | 1853.0           | 1568.1          | 124.86         | 5.5385    | 3.434                           |
|                      | 14.00 | 1834.0           | 1549.1          | 124.92         | 5.2143    | 3.363                           |
|                      | 15.00 | 1816.2           | 1531.3          | 124.99         | 4.9333    | 3.299                           |
|                      | 16.00 | 1799.5           | 1514.6          | 125.02         | 4.6875    | 3.238                           |
|                      | 17.00 | 1787.7           | 1502.8          | 125.06         | 4.4706    | 3.196                           |
|                      | 18.00 | 1772.5           | 1487.6          | 125.10         | 4.2778    | 3.142                           |
|                      | 19.00 | 1758.8           | 1473.9          | 125.14         | 4.1053    | 3.093                           |
|                      | 20.00 | 1745.4           | 1460.4          | 125.18         | 3.9500    | 3.046                           |
|                      | 21.00 | 1733.1           | 1448.2          | 125.22         | 3.8095    | 3.004                           |
|                      | 22.00 | 1720.9           | 1436.0          | 125.25         | 3.6818    | 2.962                           |
|                      | 23.00 | 1709.3           | 1424.4          | 125.29         | 3.5652    | 2.922                           |
|                      | 24.00 | 2155.4           | 1870.5          | 125.24         | 3.4583    | 4.646                           |
|                      | 25.00 | 2118.5           | 1833.6          | 125.40         | 3.3600    | 4.488                           |
|                      | 26.00 | 2089.7           | 1804.8          | 125.46         | 3.2692    | 4.367                           |
|                      | 27.00 | 2064.9           | 1779.9          | 125.51         | 3.1852    | 4.264                           |
|                      | 28.00 | 2042.7           | 1757.8          | 125.56         | 3.1071    | 4.173                           |
|                      | 29.00 | 2023.5           | 1738.6          | 125.59         | 3.0345    | 4.095                           |
|                      | 30.00 | 2005.0           | 1720.1          | 125.64         | 2.9667    | 4.020                           |
|                      | 31.00 | 1987.6           | 1702.6          | 125.67         | 2.9032    | 3.950                           |
|                      | 32.00 | 1972.0           | 1687.1          | 125.70         | 2.8438    | 3.889                           |
|                      | 33.00 | 1964.5           | 1679.6          | 125.75         | 2.7879    | 3.859                           |
|                      | 34.00 | 1949.0           | 1664.1          | 125.79         | 2.7353    | 3.799                           |
|                      | 35.00 | 1935.1           | 1650.2          | 125.81         | 2.6857    | 3.745                           |
|                      | 36.00 | 1921.9           | 1636.9          | 125.86         | 2.6389    | 3.694                           |
|                      | 37.00 | 1928.7           | 1643.8          | 125.89         | 2.5946    | 3.720                           |
|                      | 38.00 | 1913.8           | 1628.9          | 125.92         | 2.5526    | 3.663                           |
|                      | 39.00 | 1900.9           | 1615.9          | 125.95         | 2.5128    | 3.613                           |
|                      | 40.00 | 1888.5           | 1603.5          | 125.98         | 2.4750    | 3.566                           |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

| Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| 41.00 | 1879.6           | 1594.7          | 126.02         | 2.4390    | 3.533                           |
| 42.00 | 1875.1           | 1590.2          | 126.04         | 2.4048    | 3.516                           |
| 43.00 | 1863.4           | 1578.4          | 126.09         | 2.3721    | 3.472                           |
| 44.00 | 1854.6           | 1569.7          | 126.12         | 2.3409    | 3.440                           |
| 45.00 | 1979.8           | 1694.9          | 126.17         | 2.3111    | 3.920                           |
| 46.00 | 1959.9           | 1674.9          | 126.19         | 2.2826    | 3.841                           |
| 47.00 | 1943.6           | 1658.7          | 126.23         | 2.2553    | 3.778                           |
| 48.00 | 1928.8           | 1643.9          | 126.27         | 2.2292    | 3.720                           |
| 49.00 | 1915.1           | 1630.2          | 126.31         | 2.2041    | 3.668                           |
| 50.00 | 1902.3           | 1617.4          | 126.34         | 2.1800    | 3.619                           |
| 51.00 | 1890.1           | 1605.2          | 126.38         | 2.1569    | 3.573                           |
| 52.00 | 1878.5           | 1593.5          | 126.41         | 2.1346    | 3.529                           |
| 53.00 | 1867.3           | 1582.4          | 126.45         | 2.1132    | 3.487                           |
| 54.00 | 1856.6           | 1571.7          | 126.48         | 2.0926    | 3.447                           |
| 55.00 | 1846.3           | 1561.4          | 126.52         | 2.0727    | 3.409                           |
| 56.00 | 1837.3           | 1552.3          | 126.55         | 2.0536    | 3.376                           |
| 57.00 | 1827.7           | 1542.8          | 126.57         | 2.0351    | 3.340                           |
| 58.00 | 1818.5           | 1533.6          | 126.61         | 2.0172    | 3.307                           |
| 59.00 | 1882.4           | 1597.5          | 126.64         | 2.0000    | 3.543                           |
| 60.00 | 1867.8           | 1582.9          | 126.66         | 1.9833    | 3.489                           |
| 61.00 | 1855.7           | 1570.8          | 126.73         | 1.9672    | 3.444                           |
| 62.00 | 1844.8           | 1559.9          | 126.75         | 1.9516    | 3.403                           |
| 63.00 | 1834.4           | 1549.5          | 126.79         | 1.9365    | 3.365                           |
| 64.00 | 1824.4           | 1539.5          | 126.82         | 1.9219    | 3.328                           |
| 65.00 | 1815.1           | 1530.2          | 126.86         | 1.9077    | 3.295                           |
| 66.00 | 1806.1           | 1521.2          | 126.90         | 1.8939    | 3.262                           |
| 67.00 | 1797.9           | 1513.0          | 126.92         | 1.8806    | 3.232                           |
| 68.00 | 1789.7           | 1504.7          | 126.94         | 1.8676    | 3.203                           |
| 69.00 | 1781.5           | 1496.6          | 126.99         | 1.8551    | 3.174                           |
| 70.00 | 1774.0           | 1489.0          | 127.02         | 1.8429    | 3.147                           |
| 71.00 | 1766.3           | 1481.3          | 127.06         | 1.8310    | 3.120                           |
| 72.00 | 1759.0           | 1474.1          | 127.09         | 1.8194    | 3.094                           |
| 73.00 | 1754.1           | 1469.2          | 127.11         | 1.8082    | 3.077                           |
| 74.00 | 1937.4           | 1652.5          | 127.16         | 1.7973    | 3.753                           |
| 75.00 | 1926.1           | 1641.2          | 127.21         | 1.7867    | 3.710                           |
| 76.00 | 1910.9           | 1626.0          | 127.22         | 1.7763    | 3.652                           |
| 77.00 | 1897.3           | 1612.4          | 127.26         | 1.7662    | 3.600                           |
| 78.00 | 1885.0           | 1600.1          | 127.30         | 1.7564    | 3.553                           |
| 79.00 | 1873.3           | 1588.4          | 127.33         | 1.7468    | 3.509                           |
| 80.00 | 1862.5           | 1577.6          | 127.37         | 1.7375    | 3.469                           |
| 81.00 | 1852.0           | 1567.1          | 127.40         | 1.7284    | 3.430                           |
| 82.00 | 1842.1           | 1557.2          | 127.44         | 1.7195    | 3.393                           |
| 83.00 | 1832.6           | 1547.6          | 127.48         | 1.7108    | 3.358                           |
| 84.00 | 1823.3           | 1538.4          | 127.50         | 1.7024    | 3.325                           |
| 85.00 | 1814.3           | 1529.3          | 127.54         | 1.6941    | 3.292                           |
| 86.00 | 1805.4           | 1520.5          | 127.57         | 1.6860    | 3.260                           |
| 87.00 | 1797.1           | 1512.1          | 127.60         | 1.6782    | 3.229                           |
| 88.00 | 1788.8           | 1503.9          | 127.64         | 1.6705    | 3.200                           |
| 89.00 | 1781.0           | 1496.1          | 127.66         | 1.6629    | 3.172                           |
| 90.00 | 1773.5           | 1488.5          | 127.70         | 1.6556    | 3.145                           |
| 91.00 | 1956.4           | 1671.5          | 127.73         | 1.6484    | 3.828                           |

\*\*\*\*\* End Shut-in 1

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

|                    | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|--------------------|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Start Flow 2 | 0.00  | 293.2            | 0.0             | 127.66         |           |                                 |
|                    | 1.00  | 295.9            | 2.7             | 127.65         |           |                                 |
|                    | 2.00  | 298.3            | 5.0             | 127.65         |           |                                 |
|                    | 3.00  | 300.3            | 7.0             | 127.65         |           |                                 |
|                    | 4.00  | 303.0            | 9.7             | 127.66         |           |                                 |
|                    | 5.00  | 305.5            | 12.3            | 127.67         |           |                                 |
|                    | 6.00  | 308.6            | 15.4            | 127.69         |           |                                 |
|                    | 7.00  | 312.1            | 18.9            | 127.72         |           |                                 |
|                    | 8.00  | 315.0            | 21.7            | 127.74         |           |                                 |
|                    | 9.00  | 317.9            | 24.7            | 127.78         |           |                                 |
|                    | 10.00 | 320.8            | 27.6            | 127.82         |           |                                 |
|                    | 11.00 | 322.4            | 29.2            | 127.85         |           |                                 |
|                    | 12.00 | 326.0            | 32.7            | 127.90         |           |                                 |
|                    | 13.00 | 328.3            | 35.1            | 127.95         |           |                                 |
|                    | 14.00 | 330.2            | 36.9            | 127.98         |           |                                 |
|                    | 15.00 | 333.4            | 40.2            | 128.03         |           |                                 |
|                    | 16.00 | 337.5            | 44.2            | 128.07         |           |                                 |
|                    | 17.00 | 339.9            | 46.7            | 128.11         |           |                                 |
|                    | 18.00 | 343.5            | 50.3            | 128.16         |           |                                 |
|                    | 19.00 | 346.2            | 53.0            | 128.21         |           |                                 |
|                    | 20.00 | 349.4            | 56.1            | 128.26         |           |                                 |
|                    | 21.00 | 352.0            | 58.7            | 128.30         |           |                                 |
|                    | 22.00 | 355.4            | 62.2            | 128.35         |           |                                 |
|                    | 23.00 | 359.0            | 65.8            | 128.39         |           |                                 |
|                    | 24.00 | 361.7            | 68.5            | 128.45         |           |                                 |
|                    | 25.00 | 364.6            | 71.3            | 128.49         |           |                                 |
|                    | 26.00 | 369.0            | 75.8            | 128.54         |           |                                 |
|                    | 27.00 | 372.4            | 79.1            | 128.58         |           |                                 |
|                    | 28.00 | 376.2            | 82.9            | 128.62         |           |                                 |
|                    | 29.00 | 379.3            | 86.0            | 128.67         |           |                                 |
|                    | 30.00 | 383.0            | 89.8            | 128.72         |           |                                 |
|                    | 31.00 | 386.3            | 93.1            | 128.76         |           |                                 |
|                    | 32.00 | 389.6            | 96.3            | 128.80         |           |                                 |
|                    | 33.00 | 392.9            | 99.6            | 128.84         |           |                                 |
|                    | 34.00 | 394.5            | 101.3           | 128.89         |           |                                 |
|                    | 35.00 | 398.9            | 105.7           | 128.93         |           |                                 |
|                    | 36.00 | 401.6            | 108.4           | 128.98         |           |                                 |
|                    | 37.00 | 405.9            | 112.6           | 129.02         |           |                                 |
|                    | 38.00 | 409.5            | 116.2           | 129.06         |           |                                 |
|                    | 39.00 | 413.0            | 119.8           | 129.10         |           |                                 |
|                    | 40.00 | 416.5            | 123.3           | 129.15         |           |                                 |
|                    | 41.00 | 420.6            | 127.3           | 129.19         |           |                                 |
|                    | 42.00 | 424.1            | 130.8           | 129.23         |           |                                 |
|                    | 43.00 | 427.4            | 134.2           | 129.27         |           |                                 |
|                    | 44.00 | 431.2            | 138.0           | 129.31         |           |                                 |
|                    | 45.00 | 434.4            | 141.2           | 129.35         |           |                                 |
|                    | 46.00 | 437.8            | 144.5           | 129.39         |           |                                 |
|                    | 47.00 | 441.9            | 148.6           | 129.43         |           |                                 |
|                    | 48.00 | 445.9            | 152.7           | 129.47         |           |                                 |
|                    | 49.00 | 449.1            | 155.9           | 129.51         |           |                                 |
|                    | 50.00 | 452.8            | 159.5           | 129.55         |           |                                 |
|                    | 51.00 | 456.6            | 163.4           | 129.59         |           |                                 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

|                      | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                      | 52.00 | 460.6            | 167.4           | 129.64         |           |          |
|                      | 53.00 | 464.6            | 171.4           | 129.66         |           |          |
|                      | 54.00 | 468.1            | 174.8           | 129.70         |           |          |
|                      | 55.00 | 472.4            | 179.2           | 129.74         |           |          |
|                      | 56.00 | 475.9            | 182.7           | 129.79         |           |          |
|                      | 57.00 | 479.6            | 186.3           | 129.81         |           |          |
| ***** End Flow 2     | 58.00 | 483.4            | 190.2           | 129.85         |           |          |
| ***** Start Shutin 2 | 0.00  | 483.4            | 0.0             | 129.85         | 0.0000    | 0.234    |
|                      | 1.00  | 2239.9           | 1756.5          | 129.96         | 118.0000  | 5.017    |
|                      | 2.00  | 2281.1           | 1797.7          | 130.04         | 59.5000   | 5.203    |
|                      | 3.00  | 2285.3           | 1801.9          | 130.15         | 40.0000   | 5.223    |
|                      | 4.00  | 2244.8           | 1761.4          | 130.24         | 30.2500   | 5.039    |
|                      | 5.00  | 2246.7           | 1763.3          | 130.32         | 24.4000   | 5.048    |
|                      | 6.00  | 2199.5           | 1716.1          | 130.39         | 20.5000   | 4.838    |
|                      | 7.00  | 2160.0           | 1676.6          | 130.46         | 17.7143   | 4.666    |
|                      | 8.00  | 2126.6           | 1643.1          | 130.51         | 15.6250   | 4.522    |
|                      | 9.00  | 2094.8           | 1611.4          | 130.56         | 14.0000   | 4.388    |
|                      | 10.00 | 2066.6           | 1583.2          | 130.60         | 12.7000   | 4.271    |
|                      | 11.00 | 2040.4           | 1557.0          | 130.63         | 11.6364   | 4.163    |
|                      | 12.00 | 2016.3           | 1532.9          | 130.65         | 10.7500   | 4.065    |
|                      | 13.00 | 1993.8           | 1510.4          | 130.69         | 10.0000   | 3.975    |
|                      | 14.00 | 1972.6           | 1489.2          | 130.72         | 9.3571    | 3.891    |
|                      | 15.00 | 1952.4           | 1469.0          | 130.73         | 8.8000    | 3.812    |
|                      | 16.00 | 1934.7           | 1451.3          | 130.77         | 8.3125    | 3.743    |
|                      | 17.00 | 2276.8           | 1793.4          | 130.80         | 7.8824    | 5.184    |
|                      | 18.00 | 2258.1           | 1774.7          | 130.84         | 7.5000    | 5.099    |
|                      | 19.00 | 2223.5           | 1740.1          | 130.86         | 7.1579    | 4.944    |
|                      | 20.00 | 2195.0           | 1711.5          | 130.87         | 6.8500    | 4.818    |
|                      | 21.00 | 2169.4           | 1685.9          | 130.90         | 6.5714    | 4.706    |
|                      | 22.00 | 2145.5           | 1662.1          | 130.92         | 6.3182    | 4.603    |
|                      | 23.00 | 2122.9           | 1639.5          | 130.94         | 6.0870    | 4.507    |
|                      | 24.00 | 2101.9           | 1618.5          | 130.96         | 5.8750    | 4.418    |
|                      | 25.00 | 2082.2           | 1598.7          | 130.96         | 5.6800    | 4.335    |
|                      | 26.00 | 2063.4           | 1579.9          | 130.99         | 5.5000    | 4.257    |
|                      | 27.00 | 2045.6           | 1562.2          | 130.99         | 5.3333    | 4.185    |
|                      | 28.00 | 2028.8           | 1545.4          | 131.02         | 5.1786    | 4.116    |
|                      | 29.00 | 2013.3           | 1529.8          | 131.02         | 5.0345    | 4.053    |
|                      | 30.00 | 1997.7           | 1514.3          | 131.03         | 4.9000    | 3.991    |
|                      | 31.00 | 1982.7           | 1499.3          | 131.05         | 4.7742    | 3.931    |
|                      | 32.00 | 2112.5           | 1629.1          | 131.07         | 4.6562    | 4.463    |
|                      | 33.00 | 2209.5           | 1726.1          | 131.10         | 4.5455    | 4.882    |
|                      | 34.00 | 2181.7           | 1698.3          | 131.11         | 4.4412    | 4.760    |
|                      | 35.00 | 2157.9           | 1674.5          | 131.14         | 4.3429    | 4.657    |
|                      | 36.00 | 2155.3           | 1671.8          | 131.15         | 4.2500    | 4.645    |
|                      | 37.00 | 2133.9           | 1650.4          | 131.15         | 4.1622    | 4.553    |
|                      | 38.00 | 2114.4           | 1631.0          | 131.21         | 4.0789    | 4.471    |
|                      | 39.00 | 2134.9           | 1651.4          | 131.19         | 4.0000    | 4.558    |
|                      | 40.00 | 2114.6           | 1631.1          | 131.27         | 3.9250    | 4.471    |
|                      | 41.00 | 2096.7           | 1613.3          | 131.21         | 3.8537    | 4.396    |
|                      | 42.00 | 2080.0           | 1596.6          | 131.25         | 3.7857    | 4.326    |
|                      | 43.00 | 2064.1           | 1580.7          | 131.24         | 3.7209    | 4.261    |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26  
 -----

| Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|-------|------------------|-----------------|----------------|-----------|----------|
| 44.00 | 2048.9           | 1565.5          | 131.27         | 3.6591    | 4.198    |
| 45.00 | 2132.7           | 1649.3          | 131.26         | 3.6000    | 4.548    |
| 46.00 | 2112.2           | 1628.8          | 131.30         | 3.5435    | 4.461    |
| 47.00 | 2093.9           | 1610.5          | 131.29         | 3.4894    | 4.384    |
| 48.00 | 2077.0           | 1593.5          | 131.32         | 3.4375    | 4.314    |
| 49.00 | 2061.2           | 1577.8          | 131.33         | 3.3878    | 4.248    |
| 50.00 | 2046.2           | 1562.8          | 131.34         | 3.3400    | 4.187    |
| 51.00 | 2032.1           | 1548.6          | 131.38         | 3.2941    | 4.129    |
| 52.00 | 2018.5           | 1535.1          | 131.36         | 3.2500    | 4.075    |
| 53.00 | 2005.5           | 1522.1          | 131.41         | 3.2075    | 4.022    |
| 54.00 | 1993.7           | 1510.3          | 131.39         | 3.1667    | 3.975    |
| 55.00 | 1981.3           | 1497.9          | 131.41         | 3.1273    | 3.925    |
| 56.00 | 1969.6           | 1486.2          | 131.41         | 3.0893    | 3.879    |
| 57.00 | 1957.9           | 1474.5          | 131.43         | 3.0526    | 3.834    |
| 58.00 | 1947.0           | 1463.6          | 131.45         | 3.0172    | 3.791    |
| 59.00 | 1936.2           | 1452.8          | 131.45         | 2.9831    | 3.749    |
| 60.00 | 1926.6           | 1443.1          | 131.46         | 2.9500    | 3.712    |
| 61.00 | 1916.2           | 1432.8          | 131.48         | 2.9180    | 3.672    |
| 62.00 | 1907.5           | 1424.1          | 131.49         | 2.8871    | 3.639    |
| 63.00 | 2125.0           | 1641.6          | 131.52         | 2.8571    | 4.516    |
| 64.00 | 2103.1           | 1619.7          | 131.53         | 2.8281    | 4.423    |
| 65.00 | 2084.3           | 1600.8          | 131.54         | 2.8000    | 4.344    |
| 66.00 | 2067.2           | 1583.8          | 131.57         | 2.7727    | 4.273    |
| 67.00 | 2051.4           | 1568.0          | 131.58         | 2.7463    | 4.208    |
| 68.00 | 2036.7           | 1553.3          | 131.59         | 2.7206    | 4.148    |
| 69.00 | 2022.8           | 1539.4          | 131.60         | 2.6957    | 4.092    |
| 70.00 | 2009.5           | 1526.1          | 131.63         | 2.6714    | 4.038    |
| 71.00 | 1997.1           | 1513.7          | 131.62         | 2.6479    | 3.989    |
| 72.00 | 1984.9           | 1501.5          | 131.64         | 2.6250    | 3.940    |
| 73.00 | 1973.0           | 1489.6          | 131.65         | 2.6027    | 3.893    |
| 74.00 | 1962.4           | 1479.0          | 131.67         | 2.5811    | 3.851    |
| 75.00 | 1951.1           | 1467.6          | 131.69         | 2.5600    | 3.807    |
| 76.00 | 1940.4           | 1457.0          | 131.70         | 2.5395    | 3.765    |
| 77.00 | 1930.1           | 1446.7          | 131.71         | 2.5195    | 3.725    |
| 78.00 | 1920.3           | 1436.8          | 131.73         | 2.5000    | 3.687    |
| 79.00 | 1911.6           | 1428.2          | 131.75         | 2.4810    | 3.654    |
| 80.00 | 2257.7           | 1774.3          | 131.76         | 2.4625    | 5.097    |
| 81.00 | 2231.5           | 1748.1          | 131.79         | 2.4444    | 4.980    |
| 82.00 | 2206.2           | 1722.8          | 131.79         | 2.4268    | 4.867    |
| 83.00 | 2184.5           | 1701.1          | 131.82         | 2.4096    | 4.772    |
| 84.00 | 2168.2           | 1684.8          | 131.83         | 2.3929    | 4.701    |
| 85.00 | 2150.0           | 1666.6          | 131.86         | 2.3765    | 4.622    |
| 86.00 | 2133.2           | 1649.8          | 131.87         | 2.3605    | 4.550    |
| 87.00 | 2170.2           | 1686.8          | 131.89         | 2.3448    | 4.710    |
| 88.00 | 2151.5           | 1668.1          | 131.90         | 2.3295    | 4.629    |
| 89.00 | 2134.5           | 1651.1          | 131.92         | 2.3146    | 4.556    |
| 90.00 | 2118.9           | 1635.5          | 131.93         | 2.3000    | 4.490    |
| 91.00 | 2104.4           | 1621.0          | 131.95         | 2.2857    | 4.428    |
| 92.00 | 2090.5           | 1607.1          | 131.96         | 2.2717    | 4.370    |
| 93.00 | 2077.1           | 1593.7          | 131.96         | 2.2581    | 4.314    |
| 94.00 | 2064.4           | 1580.9          | 131.98         | 2.2447    | 4.262    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

DATE: 02/11/97

TIME: 04:36:26

|                     | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|---------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
|                     | 95.00  | 2051.9           | 1568.5          | 132.00         | 2.2316    | 4.210                           |
|                     | 96.00  | 2114.6           | 1631.2          | 132.01         | 2.2188    | 4.472                           |
|                     | 97.00  | 2097.4           | 1614.0          | 132.02         | 2.2062    | 4.399                           |
|                     | 98.00  | 2082.5           | 1599.1          | 132.03         | 2.1939    | 4.337                           |
|                     | 99.00  | 2068.5           | 1585.1          | 132.04         | 2.1818    | 4.279                           |
|                     | 100.00 | 2055.4           | 1572.0          | 132.06         | 2.1700    | 4.225                           |
|                     | 101.00 | 2043.0           | 1559.6          | 132.08         | 2.1584    | 4.174                           |
|                     | 102.00 | 2093.7           | 1610.2          | 132.10         | 2.1471    | 4.383                           |
|                     | 103.00 | 2125.2           | 1641.8          | 132.12         | 2.1359    | 4.517                           |
|                     | 104.00 | 2108.1           | 1624.7          | 132.30         | 2.1250    | 4.444                           |
|                     | 105.00 | 2093.1           | 1609.7          | 132.13         | 2.1143    | 4.381                           |
|                     | 106.00 | 2078.9           | 1595.5          | 132.15         | 2.1038    | 4.322                           |
|                     | 107.00 | 2065.6           | 1582.2          | 132.16         | 2.0935    | 4.267                           |
|                     | 108.00 | 2052.9           | 1569.5          | 132.17         | 2.0833    | 4.215                           |
|                     | 109.00 | 2040.8           | 1557.4          | 132.19         | 2.0734    | 4.165                           |
|                     | 110.00 | 2029.2           | 1545.8          | 132.20         | 2.0636    | 4.118                           |
|                     | 111.00 | 2018.0           | 1534.5          | 132.21         | 2.0541    | 4.072                           |
|                     | 112.00 | 2007.8           | 1524.4          | 132.22         | 2.0446    | 4.031                           |
|                     | 113.00 | 1997.2           | 1513.8          | 132.23         | 2.0354    | 3.989                           |
|                     | 114.00 | 1987.2           | 1503.7          | 132.25         | 2.0263    | 3.949                           |
|                     | 115.00 | 1977.1           | 1493.7          | 132.25         | 2.0174    | 3.909                           |
|                     | 116.00 | 1983.0           | 1499.5          | 132.27         | 2.0086    | 3.932                           |
|                     | 117.00 | 1972.0           | 1488.5          | 132.29         | 2.0000    | 3.889                           |
|                     | 118.00 | 1962.1           | 1478.6          | 132.30         | 1.9915    | 3.850                           |
|                     | 119.00 | 1952.5           | 1469.1          | 132.31         | 1.9832    | 3.812                           |
|                     | 120.00 | 1943.4           | 1460.0          | 132.32         | 1.9750    | 3.777                           |
|                     | 121.00 | 1934.4           | 1451.0          | 132.34         | 1.9669    | 3.742                           |
|                     | 122.00 | 2237.8           | 1754.4          | 132.36         | 1.9590    | 5.008                           |
|                     | 123.00 | 2328.2           | 1844.8          | 132.33         | 1.9512    | 5.421                           |
| ***** End Shut-in 2 | 124.00 | 2326.3           | 1842.9          | 132.18         | 1.9435    | 5.412                           |
| ***** Final Hydro.  | 462.00 | 2326.3           | 0.0             | 132.18         |           |                                 |

# TEST HISTORY

9633 DST #5 Erskins 1-28 Crossbar Pet. Inc.

## Flag Points

| t (Min.) | P (PSig) |
|----------|----------|
| A: 0.00  | 2359.87  |
| B: 0.00  | 137.38   |
| C: 59.00 | 284.93   |
| D: 91.00 | 1956.43  |
| E: 0.00  | 293.24   |
| F: 58.00 | 483.42   |
| Q: 0.00  | 2326.30  |

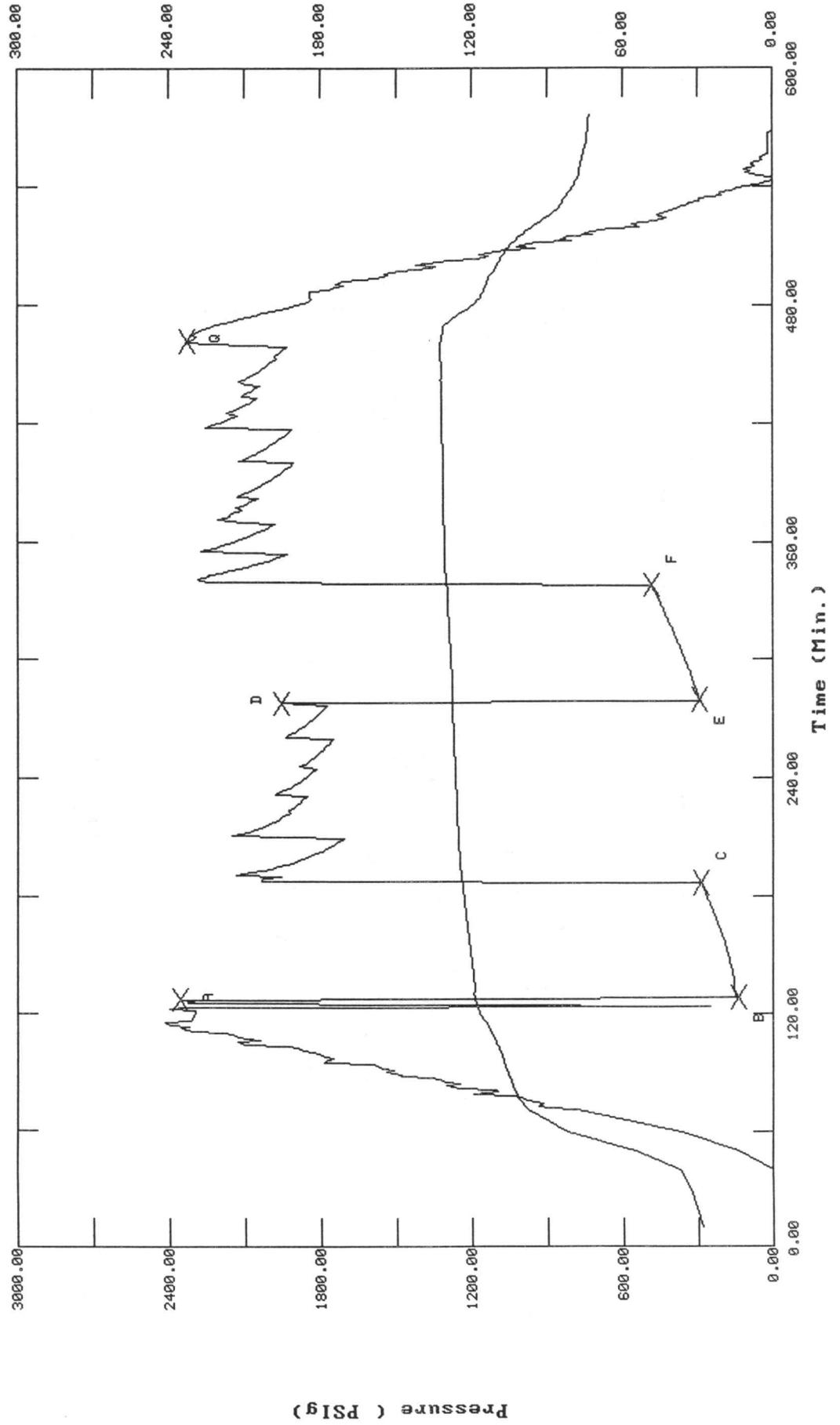
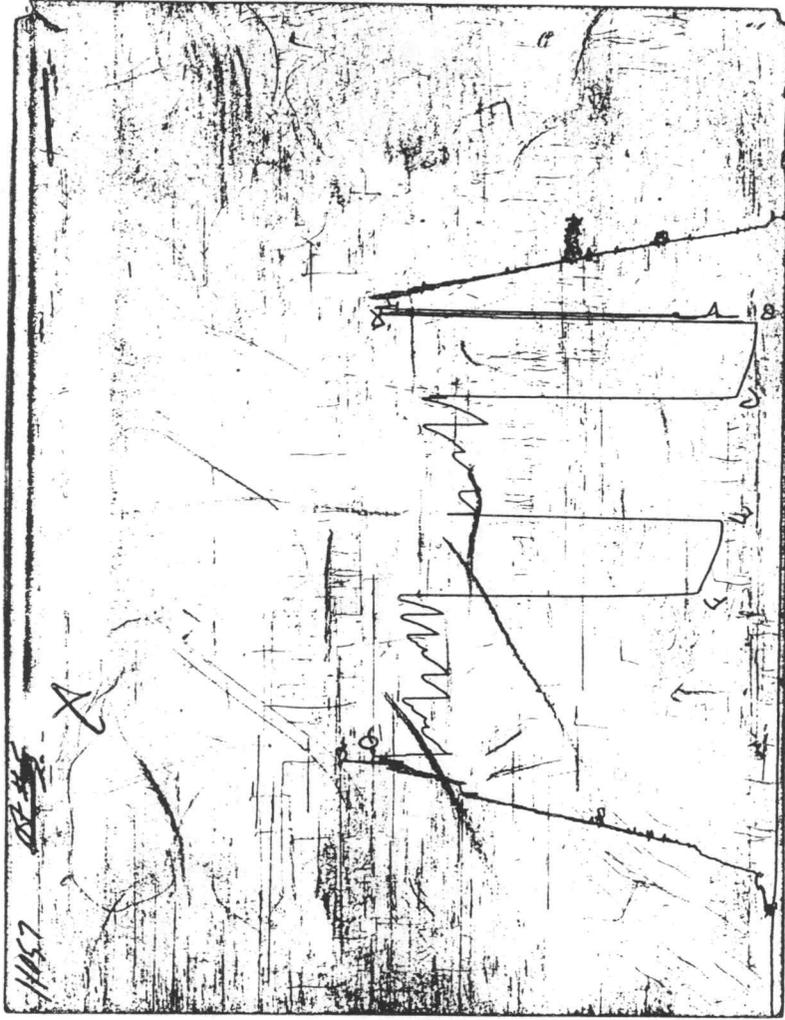


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum Inc. DATE 2-11-97  
 WELL NAME: Erskin 1-28 KB 2988.00 ft TICKET NO: 9634 DST #6  
 LOCATION : 28-17-32 GR 2983.00 ft FORMATION: Morrow  
 INTERVAL : 4584.00 To 4658.00 ft TD 4658.00 ft TEST TYPE: CONV.

RECORDER DATA

| Mins  |             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|-------------|--------|--------|--------|-----|-----|------------------------|
| PF 27 | Rec.        | 11057  | 11057  | 2342   |     |     | PF Fr. 1633 to 1700 hr |
| SI 0  | Range(Psi ) | 4500.0 | 4500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. to hr           |
| SF 0  | Clock(hrs)  | 12 HR  | 12 HR  | Elec   |     |     | SF Fr. to hr           |
| FS 0  | Depth(ft )  | 4585.0 | 4585.0 | 4621.0 | 0.0 | 0.0 | FS Fr. to hr           |

|                | Field | 1   | 2      | 3   | 4   |                               |
|----------------|-------|-----|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 0.0   | 0.0 | 2351.0 | 0.0 | 0.0 | T STARTED 1435 hr             |
| B. First Flow  | 0.0   | 0.0 | 21.0   | 0.0 | 0.0 | T ON BOTM 1630 hr             |
| B1. Final Flow | 0.0   | 0.0 | 198.0  | 0.0 | 0.0 | T OPEN 1633 hr                |
| C. In Shut-in  | 0.0   | 0.0 | 0.0    | 0.0 | 0.0 | T PULLED 1700 hr              |
| D. Init Flow   | 0.0   | 0.0 | 0.0    | 0.0 | 0.0 | T OUT 1925 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 | TOOL DATA-----                |
| G. Final Hydro | 0.0   | 0.0 | 2318.0 | 0.0 | 0.0 | Tool Wt. 5000.00 lbs          |
| Inside/Outside | 0     | 0   | I      |     |     | Wt Set On Packer 26000.00 lbs |

RECOVERY

Tot Fluid 340.00 ft of 248.00 ft in DC and 92.00 ft in DP  
 340.00 ft of Drilling Mud  
 0.00 ft of  
 0.00 ft of

Unseated Str Wt 61500.00 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 248.00 ft  
 D.P. Length 4386.00 ft

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

BLOW DESCRIPTION

Initial Flow:  
 1/4" blow building to 9", mud dropped  
 2' per min  
 Pulled Tool

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.30 lb/c  
 Vis. 48.00 S/L  
 W.L. 8.80 in3  
 F.C. 0.00 in  
 Mud Drop Y 55.0 ft

Amt. of fill 0.00 ft  
 Btm. H. Temp. 127.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00

SAMPLES:  
 SENT TO:

Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Shane McBride  
 Co. Rep. Steve Davis  
 Contr. Mallard  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: Y

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

WELL NAME: Erskin 1-28

LOCATION : 28-17-32

TICKET No. 9634 D.S.T. No. 6 DATE 2-11-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 43

TOTAL TOOL ..... 71

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 102

TOTAL ASSEMBLY ..... 173

D.C. ABOVE TOOLS.Stands4 Single Total 248

D.P. ABOVE TOOLS.Stands70 Single Total 4257

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4678

TOTAL DEPTH ..... 4658

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

REMARKS:

|                        |      |
|------------------------|------|
| P.O. SUB               |      |
| C.O. SUB 1'            | 4557 |
| S.I. TOOL 5'           | 4563 |
| HMV 5'                 | 4568 |
| JARS 5'                | 4573 |
| SAFETY JOINT 2'        | 4575 |
| PACKER Top 4'          | 4579 |
| PACKER Bottom 5'       | 4584 |
| DEPTH 4584             |      |
| STUBB 1'               | 4585 |
| ANCHOR Ak-1 rec @ 4585 |      |
| 35' perf               | 4620 |
| 1' c.o.                | 4621 |
| T.C.<br>DEPTH          |      |
| Alpine rec @ 4621      |      |
| 31' drillpipe          | 4652 |
| 1' c.o.                | 4653 |
| BULLNOSE 5' bullplug   | 4658 |
| T.D.                   | 4658 |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9634 DST# 6 Erskin 1-28 Crossbar Pet. Inc.

DATE: 02/11/97 TIME: 15:38:01  
 -----

|                      | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 113.00 | 2351.4           | 0.0             | 121.55         |           |                                 |
| ***** Start Flow 1   | 0.00   | 21.9             | 0.0             | 121.99         |           |                                 |
|                      | 1.00   | 34.7             | 12.8            | 122.41         |           |                                 |
|                      | 2.00   | 47.0             | 25.1            | 122.75         |           |                                 |
|                      | 3.00   | 58.0             | 36.1            | 123.02         |           |                                 |
|                      | 4.00   | 67.9             | 46.0            | 123.24         |           |                                 |
|                      | 5.00   | 77.6             | 55.7            | 123.45         |           |                                 |
|                      | 6.00   | 87.3             | 65.4            | 123.64         |           |                                 |
|                      | 7.00   | 96.7             | 74.8            | 123.80         |           |                                 |
|                      | 8.00   | 107.3            | 85.4            | 123.95         |           |                                 |
|                      | 9.00   | 117.4            | 95.5            | 124.09         |           |                                 |
|                      | 10.00  | 127.4            | 105.5           | 124.22         |           |                                 |
|                      | 11.00  | 138.3            | 116.4           | 124.34         |           |                                 |
|                      | 12.00  | 148.1            | 126.2           | 124.45         |           |                                 |
|                      | 13.00  | 151.4            | 129.5           | 124.57         |           |                                 |
|                      | 14.00  | 155.1            | 133.2           | 124.68         |           |                                 |
|                      | 15.00  | 158.9            | 137.0           | 124.79         |           |                                 |
|                      | 16.00  | 162.1            | 140.2           | 124.91         |           |                                 |
|                      | 17.00  | 166.7            | 144.8           | 125.01         |           |                                 |
|                      | 18.00  | 170.1            | 148.2           | 125.12         |           |                                 |
|                      | 19.00  | 174.3            | 152.4           | 125.22         |           |                                 |
|                      | 20.00  | 177.6            | 155.7           | 125.33         |           |                                 |
|                      | 21.00  | 181.9            | 160.1           | 125.43         |           |                                 |
|                      | 22.00  | 186.1            | 164.2           | 125.54         |           |                                 |
|                      | 23.00  | 190.0            | 168.1           | 125.63         |           |                                 |
|                      | 24.00  | 194.4            | 172.5           | 125.74         |           |                                 |
| ***** End Flow 1     | 25.00  | 198.1            | 176.2           | 125.83         |           |                                 |
| ***** Start Shutin 1 | 0.00   | 198.1            | 0.0             | 125.83         | 0.0000    | 0.039                           |
|                      | 1.00   | 2261.6           | 2063.4          | 126.02         | 26.0000   | 5.115                           |
| ***** End Shut-in 1  | 2.00   | 2318.3           | 2120.2          | 126.20         | 13.5000   | 5.375                           |
| ***** Final Hydro.   | 141.00 | 2318.3           | 0.0             | 126.20         |           |                                 |

# TEST HISTORY

9634 DST# 6 Erskin 1-28 Crossbar Pet. Inc.

## Flag Points

t (Min.) P (PSIg)

A: 0.00 2351.40

B: 0.00 21.90

C: 25.00 198.15

Q: 0.00 2318.33

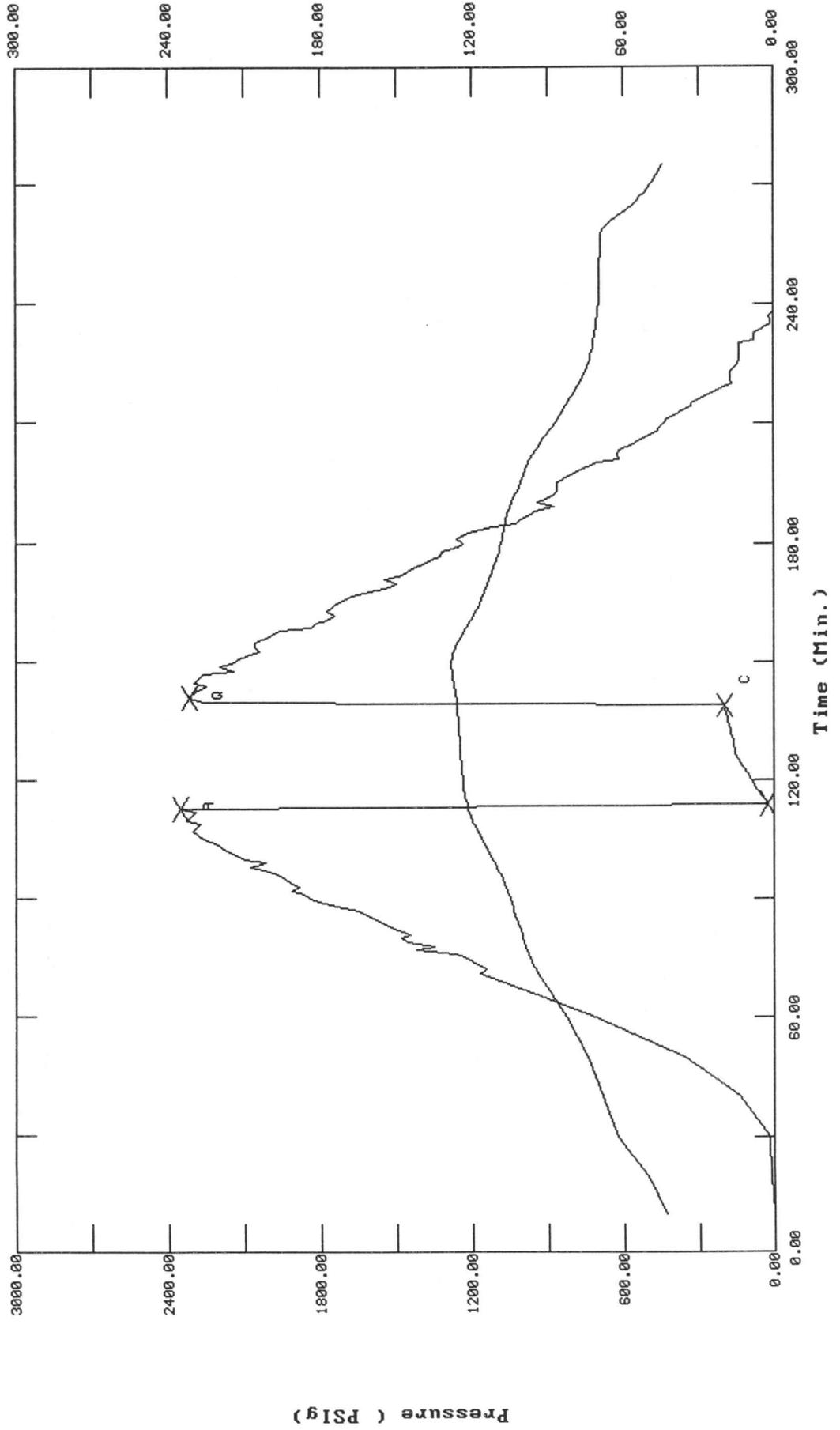
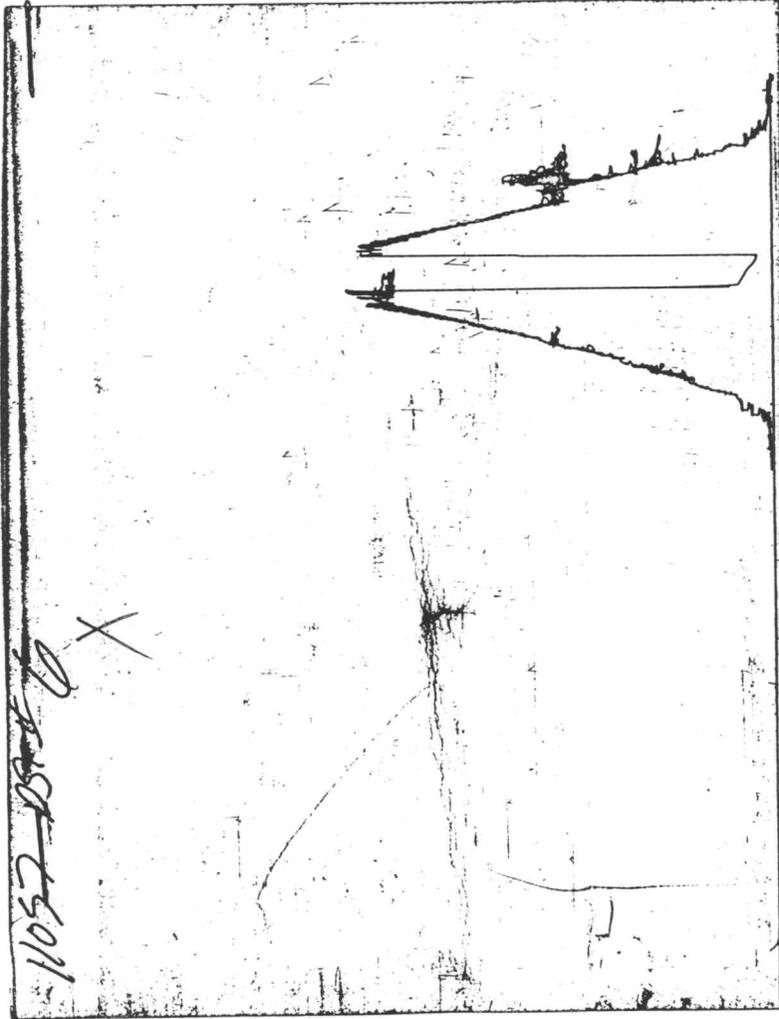


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum Inc. DATE 2-13-97  
 WELL NAME: Erskin 1-28 KB 2988.00 ft TICKET NO: 9635 DST #7  
 LOCATION : 28-17-34 GR 2983.00 ft FORMATION: Morrow  
 INTERVAL : 4484.00 To 4655.00 ft TD 4790.00 ft TEST TYPE: CONV/STRADDLE

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 60 Rec.        | 11058  | 11058  | 2342   |     |     | PF Fr. 0500 to 0600 hr |
| SI 90 Range(Psi ) | 4500.0 | 4500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0600 to 0730 hr |
| SF 20 Clock(hrs)  | 12 HR  | 12 HR  | Elec   |     |     | SF Fr. 0730 to 0750 hr |
| FS 90 Depth(ft )  | 4585.0 | 4585.0 | 4485.0 | 0.0 | 0.0 | FS Fr. 0750 to 0920 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2524.0 | 2530.0 | 2344.0 | 0.0 | 0.0 | T STARTED 0245 hr             |
| B. First Flow  | 133.0  | 150.0  | 36.0   | 0.0 | 0.0 | T ON BOTM 0456 hr             |
| B1. Final Flow | 155.0  | 166.0  | 84.0   | 0.0 | 0.0 | T OPEN 0500 hr                |
| C. In Shut-in  | 1086.0 | 1087.0 | 1025.0 | 0.0 | 0.0 | T PULLED 0920 hr              |
| D. Init Flow   | 188.0  | 205.0  | 92.0   | 0.0 | 0.0 | T OUT 1145 hr                 |
| E. Final Flow  | 177.0  | 200.0  | 103.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1053.0 | 1044.0 | 988.0  | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2502.0 | 2443.0 | 2322.0 | 0.0 | 0.0 | Tool Wt. 7000.00 lbs          |
| Inside/Outside | 0      | 0      | I      |     |     | Wt Set On Packer 28000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 71000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 62000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 62000.00 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 248.00 ft         |
|                |        |        |        |     |     | D.P. Length 4513.00 ft        |

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP  
 130.00 ft of Drilling Mud with spec's of Oil  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 1/8" blow built to 1 1/4" in 40 mins,  
 died back to 3/4"

Intital Shut In:

No return

Final Flow:

Bubble to open tool, no blow

Final Shut In:

No return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical  
 Weight 9.50 lb/c  
 Vis. 51.00 S/L  
 W.L. 7.00 in3  
 F.C. 0.00 in  
 Mud Drop N

Amt. of fill 0.00 ft  
 Btm. H. Temp. 126.00 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. Steve Davis  
 Contr. Mallard  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: N

\*\*\* TOOL DIAGRAM \*\*\* CONV/STRADDLE

WELL NAME: Erskin 1-28

LOCATION : 28-17-34

TICKET No. 9635 D.S.T. No. 7 DATE 2-13-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 23

TOTAL TOOL ..... 51

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 4 Single 1 Total 283

TOTAL ASSEMBLY ..... 334

D.C. ABOVE TOOLS.Stands4 Single Total 248

D.P. ABOVE TOOLS.Stands74 Single 1 Total 4230

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4812

TOTAL DEPTH ..... 4790

TOTAL DRILL PIPE ABOVE K.B. .... 22

REMARKS:

|                          |      |
|--------------------------|------|
| P.O. SUB                 |      |
| C.O. SUB 1'              | 4457 |
| S.I. TOOL 5'             | 4463 |
| HMV 5'                   | 4468 |
| JARS 5'                  | 4473 |
| SAFETY JOINT 2'          | 4475 |
| PACKER Top 4'            | 4479 |
| PACKER Bottom 5'         | 4484 |
| DEPTH 4484               |      |
| STUBB 1'                 | 4485 |
| ANCHOR Alpine rec @ 4485 |      |
| 36' perf                 | 4521 |
| 1' c.o.                  | 4522 |
| 63' drillpipe            | 4585 |
| Ak-1 rec @ 4585          |      |
| 63' drillpipe            | 4648 |
| 1' c.o.                  | 4649 |
| 2' perf                  | 4651 |
| 1' blank off             | 4652 |
| 3' top of packer         | 4655 |
| T.C.                     |      |
| DEPTH 4655               |      |
| PACKER straddle          | 4655 |
| 1' stubb                 | 4656 |
| 1'perf                   | 4657 |
| 1' c.o.                  | 4658 |
| 126' drillpipe           | 4784 |
| 1' c.o.                  | 4785 |
| Ak-1 rec @ 4785          |      |
| BULLNOSE 5' bullplug     | 4790 |
| T.D.                     |      |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97 TIME: 03:48:36  
 -----

|                      | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 131.00 | 2344.4           | 0.0             | 118.08         |           |                                 |
| ***** Start Flow 1   | 0.00   | 35.7             | 0.0             | 118.38         |           |                                 |
|                      | 1.00   | 37.9             | 2.2             | 118.54         |           |                                 |
|                      | 2.00   | 39.7             | 3.9             | 118.66         |           |                                 |
|                      | 3.00   | 41.3             | 5.5             | 118.78         |           |                                 |
|                      | 4.00   | 42.6             | 6.9             | 118.91         |           |                                 |
|                      | 5.00   | 43.8             | 8.1             | 119.02         |           |                                 |
|                      | 6.00   | 45.1             | 9.4             | 119.13         |           |                                 |
|                      | 7.00   | 46.6             | 10.8            | 119.25         |           |                                 |
|                      | 8.00   | 47.6             | 11.8            | 119.36         |           |                                 |
|                      | 9.00   | 48.4             | 12.7            | 119.47         |           |                                 |
|                      | 10.00  | 49.5             | 13.8            | 119.57         |           |                                 |
|                      | 11.00  | 50.6             | 14.9            | 119.66         |           |                                 |
|                      | 12.00  | 51.7             | 15.9            | 119.76         |           |                                 |
|                      | 13.00  | 52.7             | 17.0            | 119.85         |           |                                 |
|                      | 14.00  | 53.6             | 17.9            | 119.94         |           |                                 |
|                      | 15.00  | 54.5             | 18.8            | 120.02         |           |                                 |
|                      | 16.00  | 55.5             | 19.7            | 120.10         |           |                                 |
|                      | 17.00  | 56.4             | 20.6            | 120.18         |           |                                 |
|                      | 18.00  | 57.3             | 21.6            | 120.26         |           |                                 |
|                      | 19.00  | 58.1             | 22.3            | 120.33         |           |                                 |
|                      | 20.00  | 58.9             | 23.2            | 120.40         |           |                                 |
|                      | 21.00  | 59.8             | 24.1            | 120.48         |           |                                 |
|                      | 22.00  | 60.6             | 24.8            | 120.54         |           |                                 |
|                      | 23.00  | 61.3             | 25.6            | 120.62         |           |                                 |
|                      | 24.00  | 62.0             | 26.3            | 120.68         |           |                                 |
|                      | 25.00  | 62.8             | 27.0            | 120.75         |           |                                 |
|                      | 26.00  | 63.5             | 27.8            | 120.82         |           |                                 |
|                      | 27.00  | 64.3             | 28.5            | 120.88         |           |                                 |
|                      | 28.00  | 64.7             | 29.0            | 120.95         |           |                                 |
|                      | 29.00  | 65.4             | 29.6            | 121.01         |           |                                 |
|                      | 30.00  | 66.1             | 30.4            | 121.08         |           |                                 |
|                      | 31.00  | 66.8             | 31.1            | 121.13         |           |                                 |
|                      | 32.00  | 67.5             | 31.7            | 121.19         |           |                                 |
|                      | 33.00  | 68.1             | 32.4            | 121.26         |           |                                 |
|                      | 34.00  | 68.9             | 33.2            | 121.32         |           |                                 |
|                      | 35.00  | 69.5             | 33.7            | 121.37         |           |                                 |
|                      | 36.00  | 70.2             | 34.5            | 121.42         |           |                                 |
|                      | 37.00  | 70.9             | 35.2            | 121.48         |           |                                 |
|                      | 38.00  | 71.5             | 35.8            | 121.53         |           |                                 |
|                      | 39.00  | 72.2             | 36.4            | 121.60         |           |                                 |
|                      | 40.00  | 72.8             | 37.1            | 121.65         |           |                                 |
|                      | 41.00  | 73.5             | 37.8            | 121.70         |           |                                 |
|                      | 42.00  | 74.0             | 38.3            | 121.76         |           |                                 |
|                      | 43.00  | 74.7             | 38.9            | 121.81         |           |                                 |
|                      | 44.00  | 75.3             | 39.5            | 121.86         |           |                                 |
|                      | 45.00  | 75.9             | 40.2            | 121.90         |           |                                 |
|                      | 46.00  | 76.5             | 40.8            | 121.96         |           |                                 |
|                      | 47.00  | 77.1             | 41.4            | 122.00         |           |                                 |
|                      | 48.00  | 77.8             | 42.0            | 122.05         |           |                                 |
|                      | 49.00  | 78.3             | 42.6            | 122.09         |           |                                 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97 TIME: 03:48:36

|                      | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                      | 50.00 | 79.0             | 43.2            | 122.12         |           |          |
|                      | 51.00 | 79.6             | 43.8            | 122.17         |           |          |
|                      | 52.00 | 80.1             | 44.3            | 122.20         |           |          |
|                      | 53.00 | 80.6             | 44.9            | 122.24         |           |          |
|                      | 54.00 | 81.2             | 45.5            | 122.27         |           |          |
|                      | 55.00 | 81.4             | 45.7            | 122.31         |           |          |
|                      | 56.00 | 82.0             | 46.2            | 122.35         |           |          |
|                      | 57.00 | 82.6             | 46.8            | 122.38         |           |          |
|                      | 58.00 | 83.2             | 47.4            | 122.42         |           |          |
|                      | 59.00 | 83.7             | 47.9            | 122.46         |           |          |
| ***** End Flow 1     | 60.00 | 84.3             | 48.5            | 122.50         |           |          |
| ***** Start Shutin 1 | 0.00  | 84.3             | 0.0             | 122.50         | 0.0000    | 0.007    |
|                      | 1.00  | 94.4             | 10.2            | 122.53         | 61.0000   | 0.009    |
|                      | 2.00  | 104.6            | 20.3            | 122.57         | 31.0000   | 0.011    |
|                      | 3.00  | 115.4            | 31.1            | 122.61         | 21.0000   | 0.013    |
|                      | 4.00  | 127.5            | 43.2            | 122.64         | 16.0000   | 0.016    |
|                      | 5.00  | 140.6            | 56.3            | 122.67         | 13.0000   | 0.020    |
|                      | 6.00  | 155.0            | 70.8            | 122.70         | 11.0000   | 0.024    |
|                      | 7.00  | 170.9            | 86.6            | 122.74         | 9.5714    | 0.029    |
|                      | 8.00  | 188.0            | 103.7           | 122.76         | 8.5000    | 0.035    |
|                      | 9.00  | 206.5            | 122.2           | 122.80         | 7.6667    | 0.043    |
|                      | 10.00 | 225.9            | 141.7           | 122.82         | 7.0000    | 0.051    |
|                      | 11.00 | 245.9            | 161.6           | 122.86         | 6.4545    | 0.060    |
|                      | 12.00 | 266.4            | 182.1           | 122.89         | 6.0000    | 0.071    |
|                      | 13.00 | 286.8            | 202.5           | 122.92         | 5.6154    | 0.082    |
|                      | 14.00 | 306.7            | 222.4           | 122.95         | 5.2857    | 0.094    |
|                      | 15.00 | 326.1            | 241.9           | 122.97         | 5.0000    | 0.106    |
|                      | 16.00 | 345.3            | 261.0           | 123.01         | 4.7500    | 0.119    |
|                      | 17.00 | 363.7            | 279.4           | 123.04         | 4.5294    | 0.132    |
|                      | 18.00 | 382.4            | 298.1           | 123.08         | 4.3333    | 0.146    |
|                      | 19.00 | 401.3            | 317.1           | 123.10         | 4.1579    | 0.161    |
|                      | 20.00 | 420.2            | 336.0           | 123.14         | 4.0000    | 0.177    |
|                      | 21.00 | 439.0            | 354.8           | 123.17         | 3.8571    | 0.193    |
|                      | 22.00 | 457.5            | 373.2           | 123.20         | 3.7273    | 0.209    |
|                      | 23.00 | 475.6            | 391.4           | 123.23         | 3.6087    | 0.226    |
|                      | 24.00 | 493.2            | 409.0           | 123.26         | 3.5000    | 0.243    |
|                      | 25.00 | 510.4            | 426.1           | 123.30         | 3.4000    | 0.260    |
|                      | 26.00 | 527.1            | 442.8           | 123.34         | 3.3077    | 0.278    |
|                      | 27.00 | 543.4            | 459.2           | 123.36         | 3.2222    | 0.295    |
|                      | 28.00 | 559.1            | 474.9           | 123.38         | 3.1429    | 0.313    |
|                      | 29.00 | 574.4            | 490.1           | 123.42         | 3.0690    | 0.330    |
|                      | 30.00 | 589.2            | 505.0           | 123.45         | 3.0000    | 0.347    |
|                      | 31.00 | 603.8            | 519.5           | 123.47         | 2.9355    | 0.365    |
|                      | 32.00 | 617.8            | 533.5           | 123.51         | 2.8750    | 0.382    |
|                      | 33.00 | 631.4            | 547.1           | 123.54         | 2.8182    | 0.399    |
|                      | 34.00 | 644.6            | 560.3           | 123.57         | 2.7647    | 0.415    |
|                      | 35.00 | 657.3            | 573.1           | 123.59         | 2.7143    | 0.432    |
|                      | 36.00 | 669.8            | 585.6           | 123.62         | 2.6667    | 0.449    |
|                      | 37.00 | 681.7            | 597.5           | 123.65         | 2.6216    | 0.465    |
|                      | 38.00 | 693.4            | 609.1           | 123.68         | 2.5789    | 0.481    |
|                      | 39.00 | 704.6            | 620.4           | 123.71         | 2.5385    | 0.497    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97

TIME: 03:48:36

| Time  | Pressure<br>PSIG | delta P<br>PSIG | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| 40.00 | 715.6            | 631.3           | 123.73         | 2.5000    | 0.512                           |
| 41.00 | 726.1            | 641.9           | 123.76         | 2.4634    | 0.527                           |
| 42.00 | 736.6            | 652.4           | 123.78         | 2.4286    | 0.543                           |
| 43.00 | 746.7            | 662.4           | 123.81         | 2.3953    | 0.558                           |
| 44.00 | 756.5            | 672.3           | 123.84         | 2.3636    | 0.572                           |
| 45.00 | 765.9            | 681.7           | 123.86         | 2.3333    | 0.587                           |
| 46.00 | 775.1            | 690.9           | 123.88         | 2.3043    | 0.601                           |
| 47.00 | 784.2            | 700.0           | 123.92         | 2.2766    | 0.615                           |
| 48.00 | 792.9            | 708.7           | 123.94         | 2.2500    | 0.629                           |
| 49.00 | 801.3            | 717.1           | 123.96         | 2.2245    | 0.642                           |
| 50.00 | 809.6            | 725.3           | 123.99         | 2.2000    | 0.655                           |
| 51.00 | 817.5            | 733.3           | 124.01         | 2.1765    | 0.668                           |
| 52.00 | 825.4            | 741.2           | 123.93         | 2.1538    | 0.681                           |
| 53.00 | 833.0            | 748.7           | 124.06         | 2.1321    | 0.694                           |
| 54.00 | 840.4            | 756.1           | 124.08         | 2.1111    | 0.706                           |
| 55.00 | 847.6            | 763.3           | 124.11         | 2.0909    | 0.718                           |
| 56.00 | 854.5            | 770.3           | 124.12         | 2.0714    | 0.730                           |
| 57.00 | 861.3            | 777.1           | 124.14         | 2.0526    | 0.742                           |
| 58.00 | 868.1            | 783.8           | 124.18         | 2.0345    | 0.754                           |
| 59.00 | 874.6            | 790.3           | 124.19         | 2.0169    | 0.765                           |
| 60.00 | 880.9            | 796.6           | 124.21         | 2.0000    | 0.776                           |
| 61.00 | 887.0            | 802.8           | 124.24         | 1.9836    | 0.787                           |
| 62.00 | 893.1            | 808.8           | 124.26         | 1.9677    | 0.798                           |
| 63.00 | 898.9            | 814.6           | 124.27         | 1.9524    | 0.808                           |
| 64.00 | 904.5            | 820.2           | 124.30         | 1.9375    | 0.818                           |
| 65.00 | 910.1            | 825.8           | 124.32         | 1.9231    | 0.828                           |
| 66.00 | 915.6            | 831.3           | 124.34         | 1.9091    | 0.838                           |
| 67.00 | 920.8            | 836.6           | 124.36         | 1.8955    | 0.848                           |
| 68.00 | 926.1            | 841.8           | 124.38         | 1.8824    | 0.858                           |
| 69.00 | 931.2            | 846.9           | 124.40         | 1.8696    | 0.867                           |
| 70.00 | 936.1            | 851.9           | 124.42         | 1.8571    | 0.876                           |
| 71.00 | 941.1            | 856.8           | 124.44         | 1.8451    | 0.886                           |
| 72.00 | 945.8            | 861.5           | 124.46         | 1.8333    | 0.894                           |
| 73.00 | 950.4            | 866.1           | 124.48         | 1.8219    | 0.903                           |
| 74.00 | 954.9            | 870.7           | 124.49         | 1.8108    | 0.912                           |
| 75.00 | 959.5            | 875.2           | 124.52         | 1.8000    | 0.921                           |
| 76.00 | 963.9            | 879.6           | 124.53         | 1.7895    | 0.929                           |
| 77.00 | 968.2            | 883.9           | 124.55         | 1.7792    | 0.937                           |
| 78.00 | 972.4            | 888.1           | 124.57         | 1.7692    | 0.946                           |
| 79.00 | 976.4            | 892.2           | 124.59         | 1.7595    | 0.953                           |
| 80.00 | 980.4            | 896.1           | 124.61         | 1.7500    | 0.961                           |
| 81.00 | 984.2            | 900.0           | 124.62         | 1.7407    | 0.969                           |
| 82.00 | 988.1            | 903.8           | 124.65         | 1.7317    | 0.976                           |
| 83.00 | 991.7            | 907.4           | 124.66         | 1.7229    | 0.983                           |
| 84.00 | 995.5            | 911.2           | 124.68         | 1.7143    | 0.991                           |
| 85.00 | 999.0            | 914.7           | 124.70         | 1.7059    | 0.998                           |
| 86.00 | 1002.5           | 918.3           | 124.71         | 1.6977    | 1.005                           |
| 87.00 | 1006.0           | 921.7           | 124.74         | 1.6897    | 1.012                           |
| 88.00 | 1009.3           | 925.1           | 124.76         | 1.6818    | 1.019                           |
| 89.00 | 1012.6           | 928.3           | 124.76         | 1.6742    | 1.025                           |
| 90.00 | 1015.9           | 931.6           | 124.77         | 1.6667    | 1.032                           |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97 TIME: 03:48:36  
 -----

|                      | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|-------|------------------|-----------------|----------------|-----------|---------------------------------|
|                      | 91.00 | 1019.0           | 934.7           | 124.78         | 1.6593    | 1.038                           |
|                      | 92.00 | 1022.1           | 937.9           | 124.81         | 1.6522    | 1.045                           |
| ***** End Shut-in 1  | 93.00 | 1025.1           | 940.8           | 124.83         | 1.6452    | 1.051                           |
| ***** Start Flow 2   | 0.00  | 92.0             | 0.0             | 124.81         |           |                                 |
|                      | 1.00  | 93.6             | 1.6             | 124.79         |           |                                 |
|                      | 2.00  | 94.3             | 2.3             | 124.78         |           |                                 |
|                      | 3.00  | 95.2             | 3.2             | 124.75         |           |                                 |
|                      | 4.00  | 95.6             | 3.6             | 124.74         |           |                                 |
|                      | 5.00  | 96.3             | 4.3             | 124.73         |           |                                 |
|                      | 6.00  | 97.0             | 5.0             | 124.73         |           |                                 |
|                      | 7.00  | 97.7             | 5.7             | 124.72         |           |                                 |
|                      | 8.00  | 98.3             | 6.3             | 124.74         |           |                                 |
|                      | 9.00  | 98.9             | 7.0             | 124.73         |           |                                 |
|                      | 10.00 | 99.5             | 7.6             | 124.74         |           |                                 |
|                      | 11.00 | 100.3            | 8.3             | 124.74         |           |                                 |
|                      | 12.00 | 101.0            | 9.1             | 124.75         |           |                                 |
|                      | 13.00 | 101.7            | 9.7             | 124.76         |           |                                 |
|                      | 14.00 | 102.5            | 10.5            | 124.77         |           |                                 |
|                      | 15.00 | 103.0            | 11.0            | 124.78         |           |                                 |
| ***** End Flow 2     | 16.00 | 103.6            | 11.7            | 124.78         |           |                                 |
| ***** Start Shutin 2 | 0.00  | 103.6            | 0.0             | 124.78         | 0.0000    | 0.011                           |
|                      | 1.00  | 107.1            | 3.4             | 124.80         | 77.0000   | 0.011                           |
|                      | 2.00  | 121.8            | 18.1            | 124.80         | 39.0000   | 0.015                           |
|                      | 3.00  | 138.0            | 34.3            | 124.81         | 26.3333   | 0.019                           |
|                      | 4.00  | 155.7            | 52.0            | 124.83         | 20.0000   | 0.024                           |
|                      | 5.00  | 174.8            | 71.2            | 124.84         | 16.2000   | 0.031                           |
|                      | 6.00  | 195.2            | 91.6            | 124.86         | 13.6667   | 0.038                           |
|                      | 7.00  | 216.6            | 113.0           | 124.87         | 11.8571   | 0.047                           |
|                      | 8.00  | 238.9            | 135.2           | 124.89         | 10.5000   | 0.057                           |
|                      | 9.00  | 261.3            | 157.7           | 124.90         | 9.4444    | 0.068                           |
|                      | 10.00 | 283.8            | 180.1           | 124.92         | 8.6000    | 0.081                           |
|                      | 11.00 | 305.5            | 201.8           | 124.94         | 7.9091    | 0.093                           |
|                      | 12.00 | 326.5            | 222.8           | 124.96         | 7.3333    | 0.107                           |
|                      | 13.00 | 346.8            | 243.1           | 124.97         | 6.8462    | 0.120                           |
|                      | 14.00 | 366.1            | 262.4           | 124.99         | 6.4286    | 0.134                           |
|                      | 15.00 | 385.4            | 281.7           | 125.01         | 6.0667    | 0.149                           |
|                      | 16.00 | 404.9            | 301.2           | 125.03         | 5.7500    | 0.164                           |
|                      | 17.00 | 423.7            | 320.0           | 125.05         | 5.4706    | 0.179                           |
|                      | 18.00 | 442.2            | 338.6           | 125.07         | 5.2222    | 0.196                           |
|                      | 19.00 | 460.2            | 356.5           | 125.09         | 5.0000    | 0.212                           |
|                      | 20.00 | 477.8            | 374.2           | 125.11         | 4.8000    | 0.228                           |
|                      | 21.00 | 494.8            | 391.2           | 125.13         | 4.6190    | 0.245                           |
|                      | 22.00 | 511.4            | 407.8           | 125.15         | 4.4545    | 0.262                           |
|                      | 23.00 | 527.6            | 423.9           | 125.17         | 4.3043    | 0.278                           |
|                      | 24.00 | 543.0            | 439.4           | 125.19         | 4.1667    | 0.295                           |
|                      | 25.00 | 558.3            | 454.6           | 125.21         | 4.0400    | 0.312                           |
|                      | 26.00 | 572.5            | 468.8           | 125.23         | 3.9231    | 0.328                           |
|                      | 27.00 | 586.3            | 482.7           | 125.25         | 3.8148    | 0.344                           |
|                      | 28.00 | 599.8            | 496.2           | 125.26         | 3.7143    | 0.360                           |
|                      | 29.00 | 613.0            | 509.4           | 125.28         | 3.6207    | 0.376                           |
|                      | 30.00 | 625.6            | 521.9           | 125.30         | 3.5333    | 0.391                           |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97 TIME: 03:48:36  
 -----

| Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| 31.00 | 637.8            | 534.1           | 125.33         | 3.4516    | 0.407                           |
| 32.00 | 649.3            | 545.7           | 125.34         | 3.3750    | 0.422                           |
| 33.00 | 660.8            | 557.2           | 125.36         | 3.3030    | 0.437                           |
| 34.00 | 671.7            | 568.0           | 125.37         | 3.2353    | 0.451                           |
| 35.00 | 682.8            | 579.2           | 125.39         | 3.1714    | 0.466                           |
| 36.00 | 693.2            | 589.5           | 125.41         | 3.1111    | 0.480                           |
| 37.00 | 703.4            | 599.7           | 125.44         | 3.0541    | 0.495                           |
| 38.00 | 713.6            | 610.0           | 125.44         | 3.0000    | 0.509                           |
| 39.00 | 723.2            | 619.6           | 125.46         | 2.9487    | 0.523                           |
| 40.00 | 732.5            | 628.9           | 125.48         | 2.9000    | 0.537                           |
| 41.00 | 741.3            | 637.7           | 125.49         | 2.8537    | 0.550                           |
| 42.00 | 749.9            | 646.2           | 125.51         | 2.8095    | 0.562                           |
| 43.00 | 758.4            | 654.8           | 125.52         | 2.7674    | 0.575                           |
| 44.00 | 766.5            | 662.9           | 125.54         | 2.7273    | 0.588                           |
| 45.00 | 774.4            | 670.8           | 125.55         | 2.6889    | 0.600                           |
| 46.00 | 782.1            | 678.5           | 125.58         | 2.6522    | 0.612                           |
| 47.00 | 789.6            | 685.9           | 125.58         | 2.6170    | 0.623                           |
| 48.00 | 796.7            | 693.1           | 125.60         | 2.5833    | 0.635                           |
| 49.00 | 803.7            | 700.0           | 125.62         | 2.5510    | 0.646                           |
| 50.00 | 810.5            | 706.8           | 125.63         | 2.5200    | 0.657                           |
| 51.00 | 817.1            | 713.5           | 125.64         | 2.4902    | 0.668                           |
| 52.00 | 823.4            | 719.8           | 125.66         | 2.4615    | 0.678                           |
| 53.00 | 829.7            | 726.1           | 125.67         | 2.4340    | 0.688                           |
| 54.00 | 836.1            | 732.4           | 125.69         | 2.4074    | 0.699                           |
| 55.00 | 842.0            | 738.4           | 125.69         | 2.3818    | 0.709                           |
| 56.00 | 847.9            | 744.3           | 125.71         | 2.3571    | 0.719                           |
| 57.00 | 853.7            | 750.1           | 125.73         | 2.3333    | 0.729                           |
| 58.00 | 859.4            | 755.8           | 125.74         | 2.3103    | 0.739                           |
| 59.00 | 865.0            | 761.4           | 125.75         | 2.2881    | 0.748                           |
| 60.00 | 870.4            | 766.8           | 125.76         | 2.2667    | 0.758                           |
| 61.00 | 875.6            | 772.0           | 125.78         | 2.2459    | 0.767                           |
| 62.00 | 880.7            | 777.1           | 125.79         | 2.2258    | 0.776                           |
| 63.00 | 885.7            | 782.0           | 125.81         | 2.2063    | 0.784                           |
| 64.00 | 890.5            | 786.9           | 125.82         | 2.1875    | 0.793                           |
| 65.00 | 895.2            | 791.6           | 125.84         | 2.1692    | 0.801                           |
| 66.00 | 899.7            | 796.1           | 125.84         | 2.1515    | 0.809                           |
| 67.00 | 904.4            | 800.8           | 125.87         | 2.1343    | 0.818                           |
| 68.00 | 908.8            | 805.1           | 125.86         | 2.1176    | 0.826                           |
| 69.00 | 913.1            | 809.5           | 125.89         | 2.1014    | 0.834                           |
| 70.00 | 917.3            | 813.7           | 125.90         | 2.0857    | 0.841                           |
| 71.00 | 921.4            | 817.8           | 125.91         | 2.0704    | 0.849                           |
| 72.00 | 925.5            | 821.8           | 125.92         | 2.0556    | 0.856                           |
| 73.00 | 929.4            | 825.8           | 125.94         | 2.0411    | 0.864                           |
| 74.00 | 933.2            | 829.5           | 125.94         | 2.0270    | 0.871                           |
| 75.00 | 937.0            | 833.4           | 125.95         | 2.0133    | 0.878                           |
| 76.00 | 940.7            | 837.1           | 125.97         | 2.0000    | 0.885                           |
| 77.00 | 944.5            | 840.9           | 125.98         | 1.9870    | 0.892                           |
| 78.00 | 947.9            | 844.2           | 125.98         | 1.9744    | 0.898                           |
| 79.00 | 951.3            | 847.7           | 125.99         | 1.9620    | 0.905                           |
| 80.00 | 954.8            | 851.1           | 126.01         | 1.9500    | 0.912                           |
| 81.00 | 958.2            | 854.6           | 126.02         | 1.9383    | 0.918                           |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

DATE: 02/13/97 TIME: 03:48:36  
 -----

|                     | Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|---------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
|                     | 82.00  | 961.6            | 857.9           | 126.04         | 1.9268    | 0.925                           |
|                     | 83.00  | 964.7            | 861.0           | 126.05         | 1.9157    | 0.931                           |
|                     | 84.00  | 967.8            | 864.1           | 126.04         | 1.9048    | 0.937                           |
|                     | 85.00  | 971.0            | 867.3           | 126.06         | 1.8941    | 0.943                           |
|                     | 86.00  | 973.8            | 870.2           | 126.08         | 1.8837    | 0.948                           |
|                     | 87.00  | 976.7            | 873.0           | 126.10         | 1.8736    | 0.954                           |
|                     | 88.00  | 979.6            | 876.0           | 126.10         | 1.8636    | 0.960                           |
|                     | 89.00  | 982.5            | 878.8           | 126.11         | 1.8539    | 0.965                           |
|                     | 90.00  | 985.3            | 881.7           | 126.12         | 1.8444    | 0.971                           |
| ***** End Shut-in 2 | 91.00  | 988.2            | 884.5           | 126.13         | 1.8352    | 0.976                           |
| ***** Final Hydro.  | 395.00 | 2322.0           | 0.0             | 126.21         |           |                                 |

# TEST HISTORY

9635 DST#7 Erskin 1-28 Crossbar Petroleum Inc.

## Flag Points

t (Min.) PK PSig

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2344.43 |
| B: | 0.00  | 35.74   |
| C: | 60.00 | 84.25   |
| D: | 93.00 | 1025.09 |
| E: | 0.00  | 91.98   |
| F: | 16.00 | 103.64  |
| G: | 91.00 | 988.16  |
| Q: | 0.00  | 2322.02 |

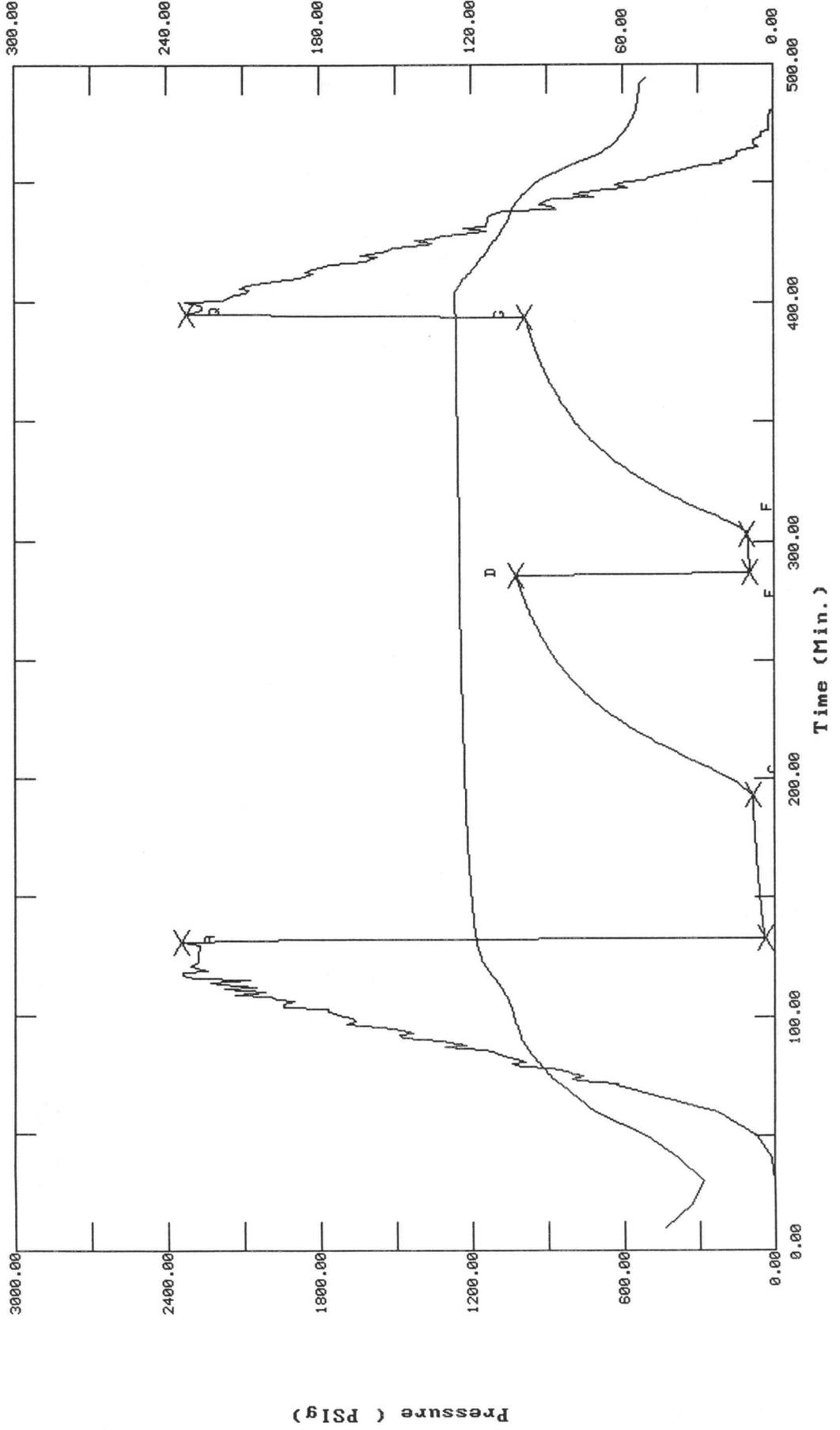
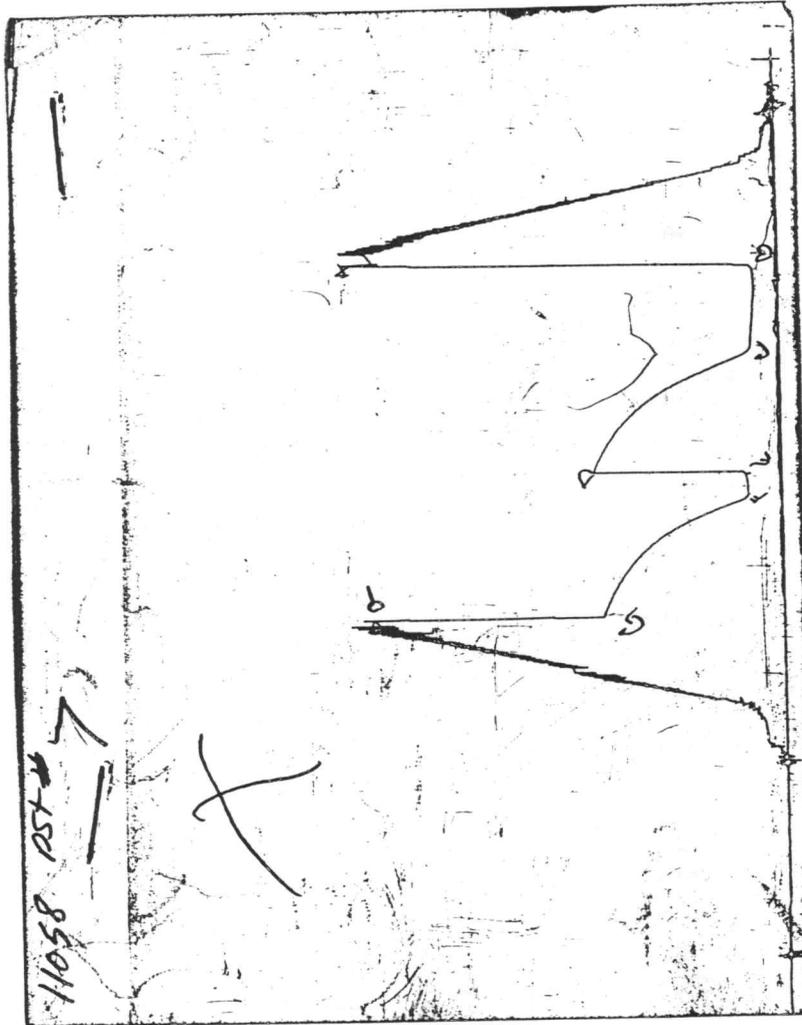
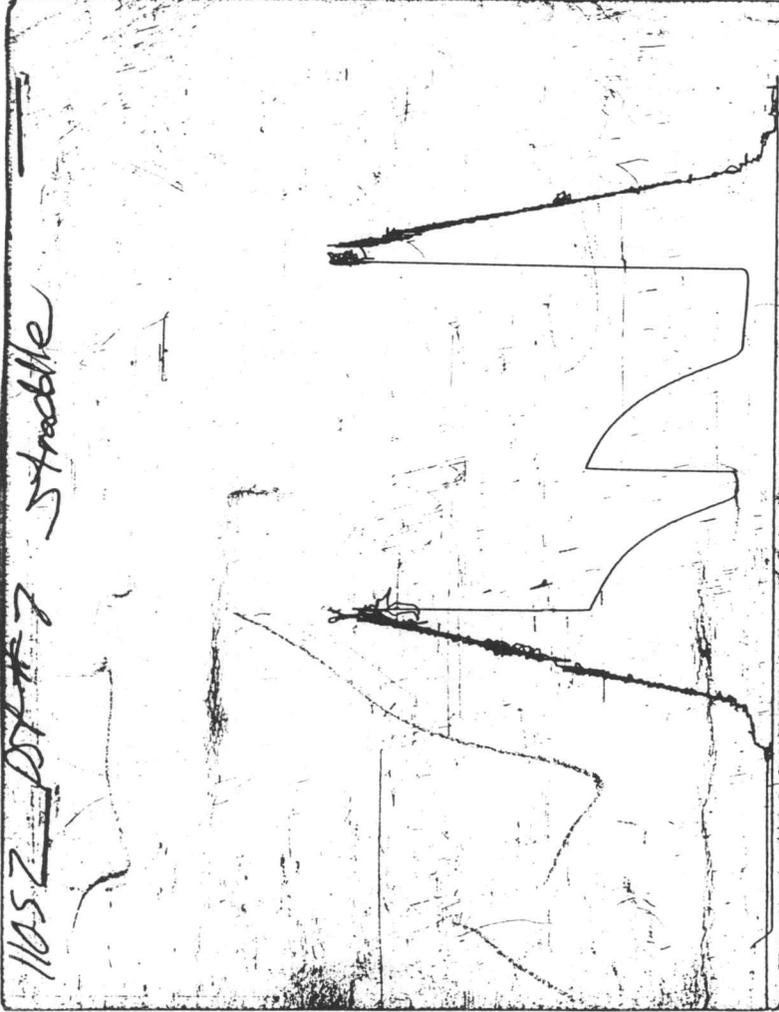


CHART PAGE



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

CHART PAGE



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