

15-171-20548

|                   |                               |
|-------------------|-------------------------------|
| <b>WELL NAME:</b> | Schowalter "4-12"             |
| <b>COMPANY:</b>   | Abercrombie Energy            |
| <b>LOCATION:</b>  | 12-18s-32w<br>Scott co Kansas |
| <b>DATE:</b>      | 6/27/00                       |

# TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Energy LLC  
WELL NAME: Schowalter 4-12  
LOCATION : 12-18-32 Scott co KS  
INTERVAL : 4570.00 To 4592.00 ft

DATE 6-19-00  
KB 2967.00 ft TICKET NO: 13380 DST #1  
GR 2962.00 ft FORMATION: Cherokee  
TD 4592.00 ft TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 11058  | 11058  | 2346   |     |     | PF Fr. 0800 to 0830 hr |
| SI 45 Range(Psi ) | 4475.0 | 4475.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0830 to 0915 hr |
| SF 30 Clock(hrs)  | 12     | 12     | alpin  |     |     | SF Fr. 0915 to 0945 hr |
| FS 45 Depth(ft )  | 4589.0 | 4589.0 | 4571.0 | 0.0 | 0.0 | FS Fr. 0945 to 1030 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2289.0 | 2308.0 | 2278.0 | 0.0 | 0.0 | T STARTED 0545 hr             |
| B. First Flow  | 66.0   | 85.0   | 15.0   | 0.0 | 0.0 | T ON BOTM 0757 hr             |
| B1. Final Flow | 66.0   | 82.0   | 19.0   | 0.0 | 0.0 | T OPEN 0800 hr                |
| C. In Shut-in  | 155.0  | 162.0  | 171.0  | 0.0 | 0.0 | T PULLED 1030 hr              |
| D. Init Flow   | 55.0   | 84.0   | 20.0   | 0.0 | 0.0 | T OUT 1255 hr                 |
| E. Final Flow  | 55.0   | 84.0   | 21.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 613.0  | 627.0  | 690.0  | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2278.0 | 2214.0 | 2217.0 | 0.0 | 0.0 | Tool Wt. 4000.00 lbs          |
| Inside/Outside | i      | i      | o      |     |     | Wt Set On Packer 26000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 75000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 63000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 63000.00 lbs  |

## RECOVERY

| Tot Fluid | 5.00 ft of                 | 5.00 ft in DC and | 0.00 ft in DP |                        |
|-----------|----------------------------|-------------------|---------------|------------------------|
| 1.00      | ft of Free oil             |                   |               | Bot Choke 0.75 in      |
| 0.00      | ft of 100% oil             |                   |               | Hole Size 7.88 in      |
| 4.00      | ft of Slightly oil cut mud |                   |               | D Col. ID 2.25 in      |
| 0.00      | ft of 10% oil 90% mud      |                   |               | D. Pipe ID 3.80 in     |
| 0.00      | ft of                      |                   |               | D.C. Length 171.00 ft  |
| 0.00      | ft of                      |                   |               | D.P. Length 4411.00 ft |
| 0.00      | ft of                      |                   |               |                        |
| 0.00      | ft of                      |                   |               |                        |
| SALINITY  | 2500.00 P.P.M.             | A.P.I. Gravity    | 0.00          |                        |

## BLOW DESCRIPTION

Initial Flow:  
1/4" @ open, blew throughout.  
Initial Shut-In:  
No return.  
Final Flow:  
Weak surface blow died in 6 minutes.  
Final Shut-In:  
No return.

SAMPLES:  
SENT TO:

MUD DATA-----

| Mud Type       | Chemical      |
|----------------|---------------|
| Weight         | 9.40 lb/c:    |
| Vis.           | 49.00 S/L     |
| W.L.           | 10.40 in3     |
| F.C.           | 0.00 in       |
| Mud Drop N     |               |
| Amt. of fill   | 0.00 ft       |
| Btm. H. Temp.  | 122.00 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.         | Pickrell      |
| Rig #          | 10            |
| Unit #         |               |
| Pump T.        |               |

Test Successful: Y



# TEST HISTORY

13380 DST #1 Schowalter 4-12 Abercrombie Energy LLC

Flag Points

t(Min.) P(PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2278.18 |
| B: | 0.00  | 15.59   |
| C: | 31.00 | 19.35   |
| D: | 44.00 | 171.16  |
| E: | 0.00  | 20.65   |
| F: | 30.00 | 21.99   |
| G: | 51.00 | 690.90  |
| Q: | 0.00  | 2217.82 |

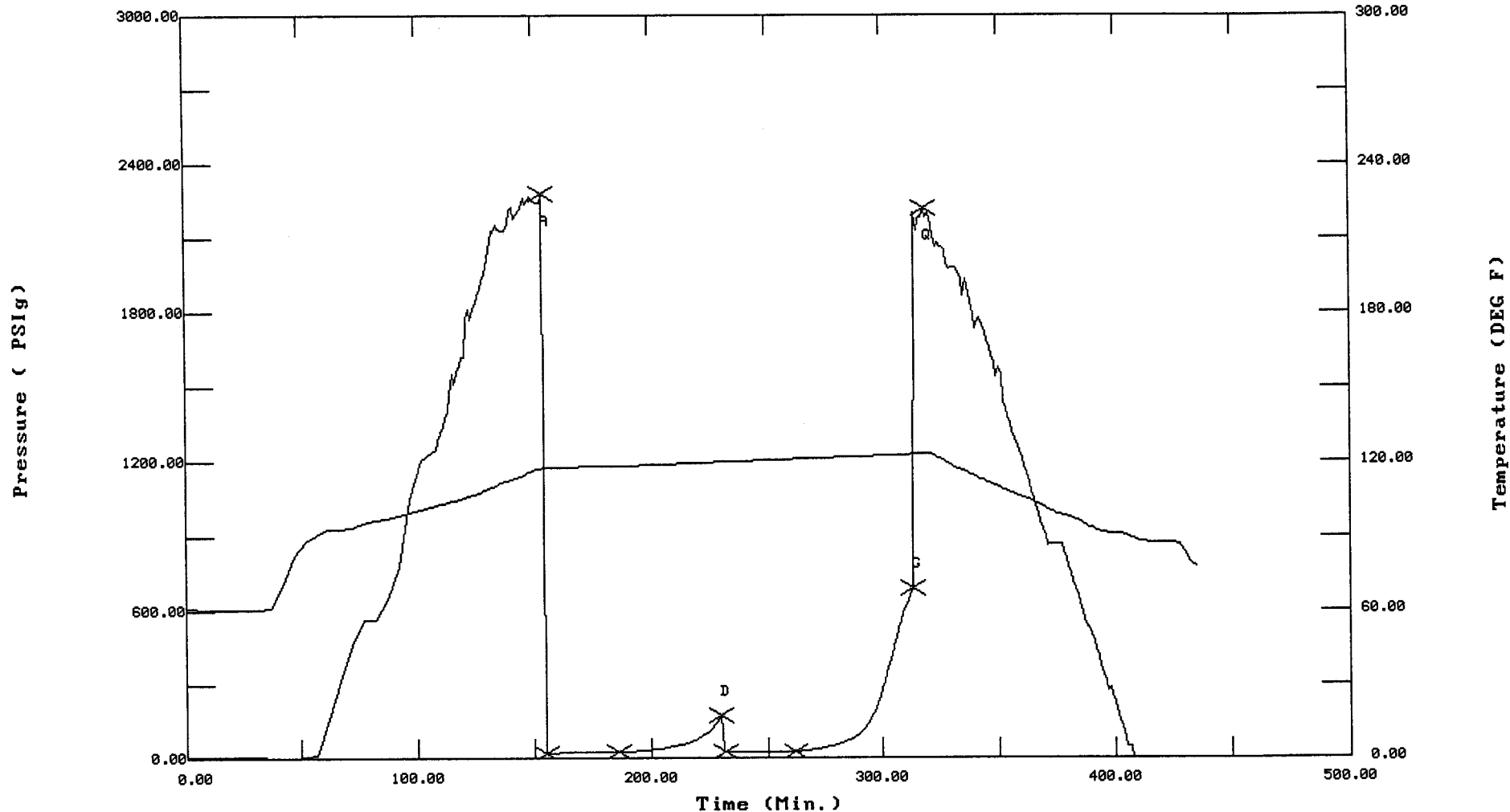
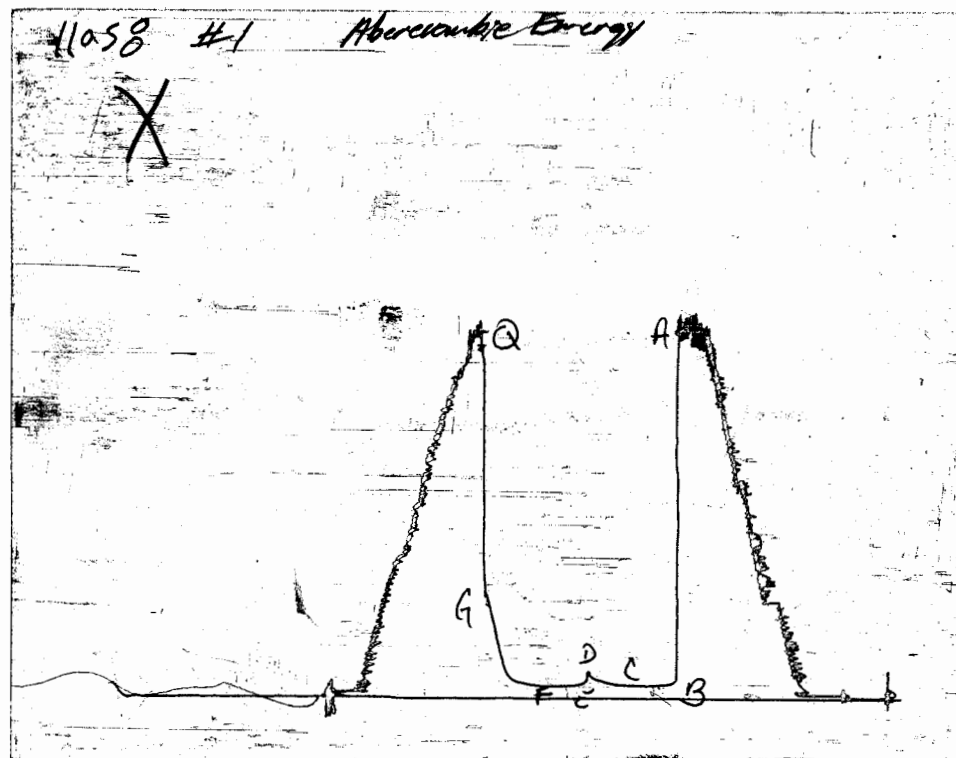


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13380

## Test Ticket

|                 |                                          |                           |              |                 |          |
|-----------------|------------------------------------------|---------------------------|--------------|-----------------|----------|
| Well Name & No. | Schwanter 4-12                           | Test No.                  | 1            | Date            | 6-19-00  |
| Company         | Abercrombie Energy LLC                   | Zone Tested               | Cherokee     |                 |          |
| Address         | 150 N. Main, Suite 801 Wichita, KS 67202 | Elevation                 | 2967'        | KB              | 2962' GL |
| Co. Rep / Geo.  | Steve Davis                              | Cont.                     | Pr Krell #10 | Est. Ft. of Pay | Por. %   |
| Location: Sec.  | 12                                       | Twp.                      | 18           | Rge.            | 32       |
|                 |                                          | Co.                       | Scott        | State           | KS       |
| No. of Copies   | Norm                                     | Distribution Sheet (Y, N) |              | Turnkey (Y, N)  |          |
|                 |                                          | Evaluation (Y, N)         |              |                 |          |

|                     |                                                                                                |         |                      |         |                       |          |
|---------------------|------------------------------------------------------------------------------------------------|---------|----------------------|---------|-----------------------|----------|
| Interval Tested     | 4570'                                                                                          | 4592'   | Initial Str Wt./Lbs. | 63000   | Unseated Str Wt./Lbs. | 63000    |
| Anchor Length       |                                                                                                | 22'     | Wt. Set Lbs.         | 26000   | Wt. Pulled Loose/Lbs. | 75000    |
| Top Packer Depth    |                                                                                                | 4565'   | Tool Weight          | 4000    |                       |          |
| Bottom Packer Depth |                                                                                                | 4570'   | Hole Size — 7 7/8"   | ✓       | Rubber Size — 6 3/4"  | ✓        |
| Total Depth         |                                                                                                | 4592'   | Wt. Pipe Run         | —       | Drill Collar Run      | 171' XH3 |
| Mud Wt.             | 9.4                                                                                            | LCM #1  | Vis.                 | 49      | WL                    | 10.4     |
| Drill Pipe Size     | 4 1/2" XH                                                                                      | Ft. Run | 4411'                | 70 1/2" |                       |          |
| Blow Description    | 14" in @ open, blew throughout<br>No return.<br>Weak surface blow died in 6 min.<br>No return. |         |                      |         |                       |          |

|                       |      |            |          |              |      |                      |                           |
|-----------------------|------|------------|----------|--------------|------|----------------------|---------------------------|
| Recovery — Total Feet | 5'   | GIP        | —        | Ft. in DC    | 5'   | Ft. in DP            | —                         |
| Rec.                  | 1'   | Feet Of    | Free oil | %gas         | 100% | %oil                 | %water %mud               |
| Rec.                  | 4'   | Feet Of    | 50 CM    | %gas         | 10%  | %oil                 | %water 90% mud            |
| Rec.                  |      | Feet Of    |          | %gas         | %oil | %water               | %mud                      |
| Rec.                  |      | Feet Of    |          | %gas         | %oil | %water               | %mud                      |
| Rec.                  |      | Feet Of    |          | %gas         | %oil | %water               | %mud                      |
| BHT                   | 122° | °F Gravity | —        | °API D@      | —    | °F Corrected Gravity | —                         |
| RW                    | —    | @          | —        | °F Chlorides | —    | ppm Recovery         | Chlorides 2500 ppm System |

|                                  |           |             |                     |       |                |            |
|----------------------------------|-----------|-------------|---------------------|-------|----------------|------------|
| (A) Initial Hydrostatic Mud      | AK-1 2289 | Alpine 2278 | PSI Recorder No.    | 2346  | T-On Location  | 05:00 A.M. |
| (B) First Initial Flow Pressure  | 66        | 15          | PSI (depth)         | 4571' | T-Started      | 05:45 A.M. |
| (C) First Final Flow Pressure    | 66        | 19          | PSI Recorder No.    | 11058 | T-Open         | 08:00 A.M. |
| (D) Initial Shut-In Pressure     | 155       | 171         | PSI (depth)         | 4589' | T-Pulled       | 10:30 A.M. |
| (E) Second Initial Flow Pressure | 55        | 20          | PSI Recorder No.    |       | T-Out          | 12:55 P.M. |
| (F) Second Final Flow Pressure   | 55        | 21          | PSI (depth)         |       | T-Off Location | 13:40 P.M. |
| (G) Final Shut-in Pressure       | 613       | 690         | PSI Initial Opening | 30    | Test           | X 700      |
| (Q) Final Hydrostatic Mud        | 2278      | 2217        | PSI Initial Shut-in | 45    | Jars           |            |
|                                  |           |             | Final Flow          | 30    | Safety Joint   |            |
|                                  |           |             | Final Shut-in       | 45    | Straddle       |            |

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

Approved By Steve Davis  
Our Representative Shane M. Breda

Circ. Sub X N/C  
Sampler  
Extra Packer  
Elec. Rec. X 150  
Mileage 9 miles  
Other  
TOTAL PRICE \$ 950

# TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Energy LLC  
WELL NAME: Schowalter "4-12"  
LOCATION : 12-18S-32W Scott co KS  
INTERVAL : 4337.00 To 4405.00 ft

DATE 6-20-00  
KB 2971.00 ft TICKET NO: 12627 DST #2  
GR 2966.00 ft FORMATION: Marmaton  
TD 4658.00 ft TEST TYPE: CONV-STRADDLE

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3      | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|--------|-----|------------------------|
| PF 30 Rec.        | 10242  | 10242  | 3017   | 13630  |     | PF Fr. 1555 to 1625 hr |
| SI 60 Range(Psi ) | 4175.0 | 4175.0 | 5000.0 | 4625.0 | 0.0 | IS Fr. 1625 to 1725 hr |
| SF 60 Clock(hrs)  | 12 HR  | 12 HR  | Elect  | 12 HR  |     | SF Fr. 1725 to 1825 hr |
| FS 60 Depth(ft )  | 4399.0 | 4399.0 | 4349.0 | 4410.0 | 0.0 | FS Fr. 1825 to 1925 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2193.0 | 2243.0 | 2133.0 | 0.0 | 0.0 | T STARTED 1420 hr             |
| B. First Flow  | 133.0  | 171.0  | 77.0   | 0.0 | 0.0 | T ON BOTM 1550 hr             |
| B1. Final Flow | 133.0  | 160.0  | 131.0  | 0.0 | 0.0 | T OPEN 1555 hr                |
| C. In Shut-in  | 1092.0 | 1108.0 | 1101.0 | 0.0 | 0.0 | T PULLED 1925 hr              |
| D. Init Flow   | 191.0  | 228.0  | 137.0  | 0.0 | 0.0 | T OUT 2300 hr                 |
| E. Final Flow  | 212.0  | 234.0  | 199.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 998.0  | 1012.0 | 994.0  | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2175.0 | 2146.0 | 2119.0 | 0.0 | 0.0 | Tool Wt. 15000.00 lbs         |
| Inside/Outside | I      | I      | I      | S   |     | Wt Set On Packer 45000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 13000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 65000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 67000.00 lbs  |

## RECOVERY

Tot Fluid 415.00 ft of 0.00 ft in DC and 415.00 ft in DP  
205.00 ft of Gas in pipe  
100.00 ft of Clean gassy oil  
0.00 ft of 10% gas 90% oil  
125.00 ft of Gassy mud cut oil  
0.00 ft of 8% gas 62% oil 30% mud  
190.00 ft of Mud cut gassy oil  
0.00 ft of 28% gas 38% oil 34% mud  
0.00 ft of

Bot Choke 0.75 in  
Hole Size 7.78 in  
D Col. ID 2.25 in  
D. Pipe ID 3.80 in  
D.C. Length 0.00 ft  
D.P. Length 4342.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 26.00

## BLOW DESCRIPTION

Initial Flow:  
Weak 2" built to strong bottom of  
bucket in 25 minutes.  
Initial Shut-In:  
No blow back.  
Final Flow:  
Surface blow built to strong bottom  
of bucket in 27 minutes.  
Final Shut-In:  
1" blow-back.

MUD DATA-----  
Mud Type Chemical  
Weight 9.40 lb/c  
Vis. 53.00 S/L  
W.L. 11.20 in3  
F.C. 0.00 in  
Mud Drop Y 20.0 ft

Amt. of fill 0.00 ft  
Btm. H. Temp. 124.00 F  
Hole Condition Good  
% Porosity 15.00  
Packer Size 6.75 in  
No. of Packers 3  
Cushion Amt. 0.00  
Cushion Type  
Reversed Out N  
Tool Chased N  
Tester Lanny Saloga  
Co. Rep. Steve Davis  
Contr. Pickrell  
Rig # 10  
Unit #  
Pump T.

SAMPLES: None  
SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV-STRADDLE

WELL NAME: Schowalter "4-12"

LOCATION : 12-18S-32W Scott co KS

TICKET No. 12627 D.S.T. No. 2 DATE 6-20-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20

INTERVAL TOOL ..... 13

BOTTOM PACKERS AND ANCHOR ..... 38

TOTAL TOOL ..... 71

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands 3 Single Total 178

D.P. ANCHOR STND.Stands 1 Single 1 Total 92

TOTAL ASSEMBLY ..... 341

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 69 Single 1 Total 4342

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4683

TOTAL DEPTH ..... 4658

TOTAL DRILL PIPE ABOVE K.B. .... 25

REMARKS:

Opened tool lost 10 ft. of mud. Pulled loose  
& re-set tool. Packers held.  
Bottom packer did not hold.

Est. 4' of pay.

|                         |      |
|-------------------------|------|
| P.O. SUB Cir. sub       | 4257 |
| C.O. SUB Top of tool    | 4317 |
| Co. sub                 | 4318 |
| S.I. TOOL Sterling      | 4323 |
| HMV Sterling            | 4328 |
| JARS                    |      |
| SAFETY JOINT            |      |
| PACKER Sparton          | 4333 |
| PACKER Sparton          | 4337 |
| DEPTH                   |      |
| 1 ft.                   | 4338 |
| ANCHOR 10 ft. perfs     | 4348 |
| Co. sub                 | 4349 |
| Alpine                  | 4349 |
| 1 jt. DP 30 ft.         | 4379 |
| Co. sub                 | 4380 |
| Pu. sub                 | 4385 |
| AK-1                    | 4399 |
| 17 ft. perfs            | 4402 |
| Blank                   | 4402 |
| 3 ft. of packer         | 4405 |
| PACKER Sparton "Center" | 4405 |
| 2 ft. of packer         | 4407 |
| AK-1                    | 4410 |
| 6 ft. perfs             | 4413 |
| Rec. sub                | 4414 |
| Co. sub                 | 4415 |
| 1 std DP 62 ft.         | 4477 |
| 3 stds DC 178 ft.       | 4655 |
| Co. sub                 | 4656 |
| BULLNOSE 2 ft. perf     |      |
| T.D.                    | 4658 |

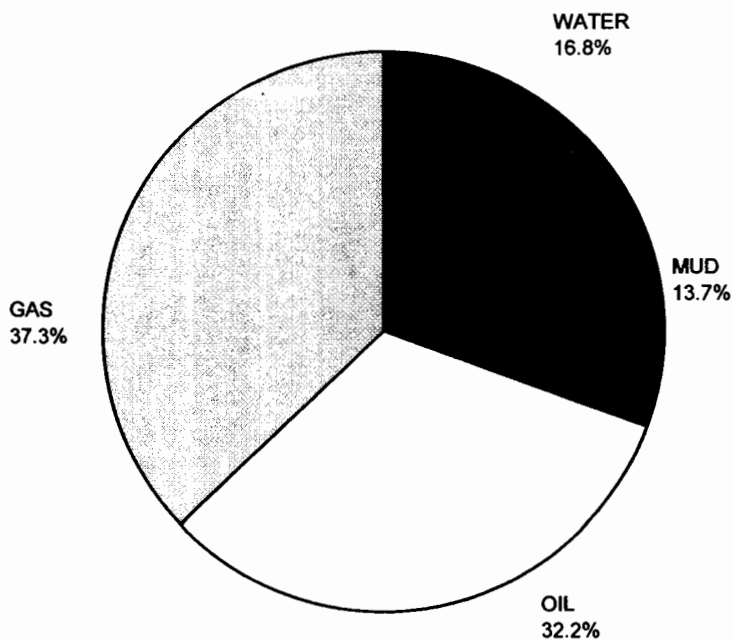
# CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 12627

| SAMPLE # |   | TOTAL FEET | GAS % | FEET  | OIL % | FEET  | WATER % | FEET | MUD % | FEET  |
|----------|---|------------|-------|-------|-------|-------|---------|------|-------|-------|
| DRILL    | 1 | 205        | 100   | 205   | 0     | 0     | 0       | 0    | 0     | 0     |
| PIPE     | 2 | 100        | 10    | 10    | 90    | 90    | 10      | 0    | 0     | 0     |
|          | 3 | 125        | 8     | 10    | 62    | 77.5  | 100     | 125  | 30    | 37.5  |
|          | 4 | 190        | 28    | 53.2  | 38    | 72.2  | 0       | 0    | 34    | 64.6  |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 6 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| WEIGHT   | 1 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| PIPE     | 2 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| DRILL    | 1 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| COLLARS  | 2 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| TOTAL    |   | 620        | 0     | 278.2 | 0     | 239.7 | 0       | 125  | 0     | 102.1 |

BBL OIL= 3.408534 \* HRS OPEN 1.5 = BBL/DAY 54.536544  
 BBL WATER= 1.7775 \* = 28.44  
 BBL MUD= 1.451862  
 BBL GAS = 3.956004



# TEST HISTORY

12627 D.S.T.#2 Schowalter "4-12" Abercrombie Energy LLC

Flag Points

t(Min.) P( PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2133.23 |
| B: | 0.00  | 77.59   |
| C: | 30.00 | 131.36  |
| D: | 60.75 | 1101.44 |
| E: | 0.00  | 137.25  |
| F: | 60.00 | 199.48  |
| G: | 60.75 | 994.10  |
| Q: | 0.00  | 2119.61 |

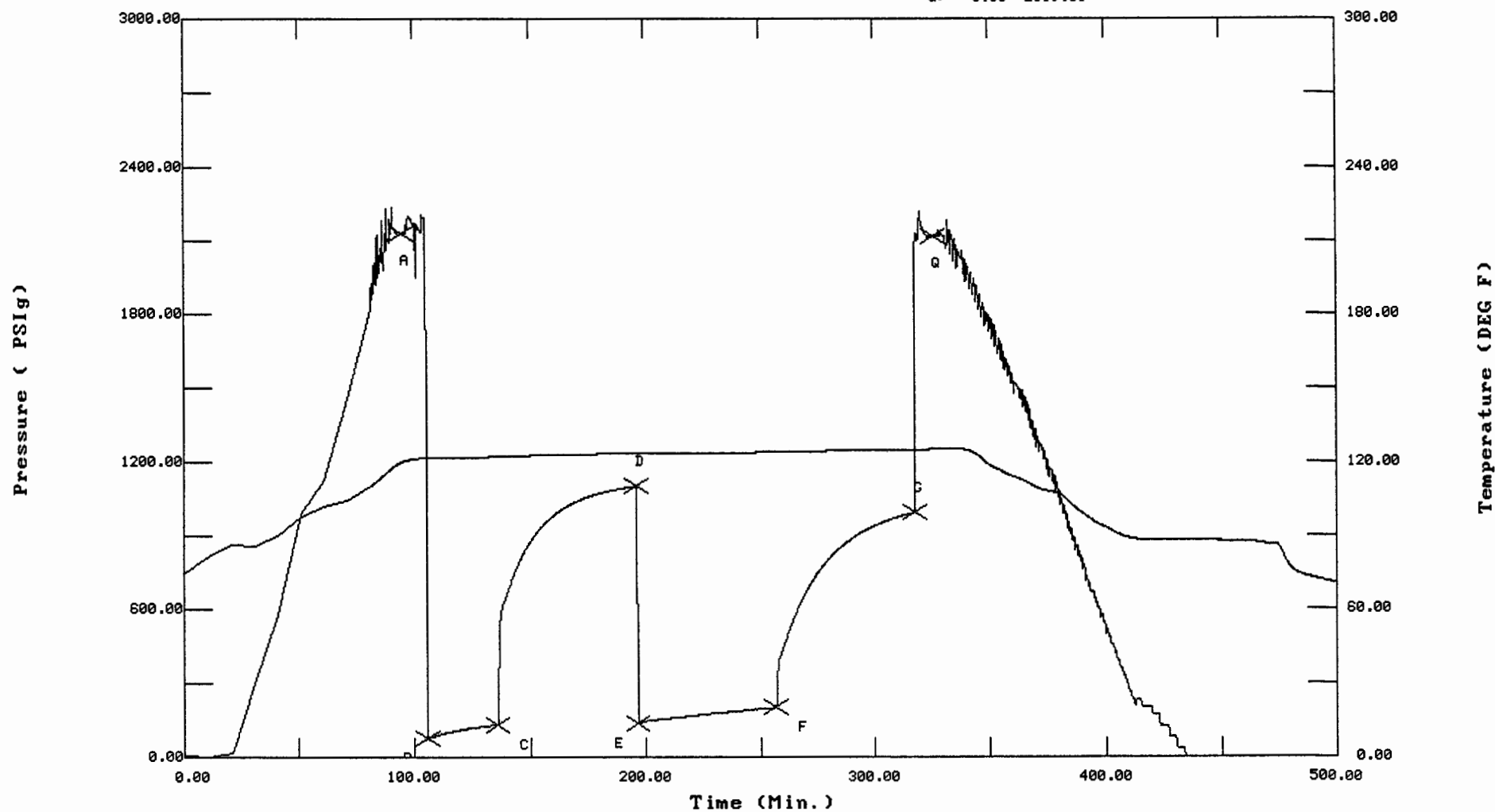
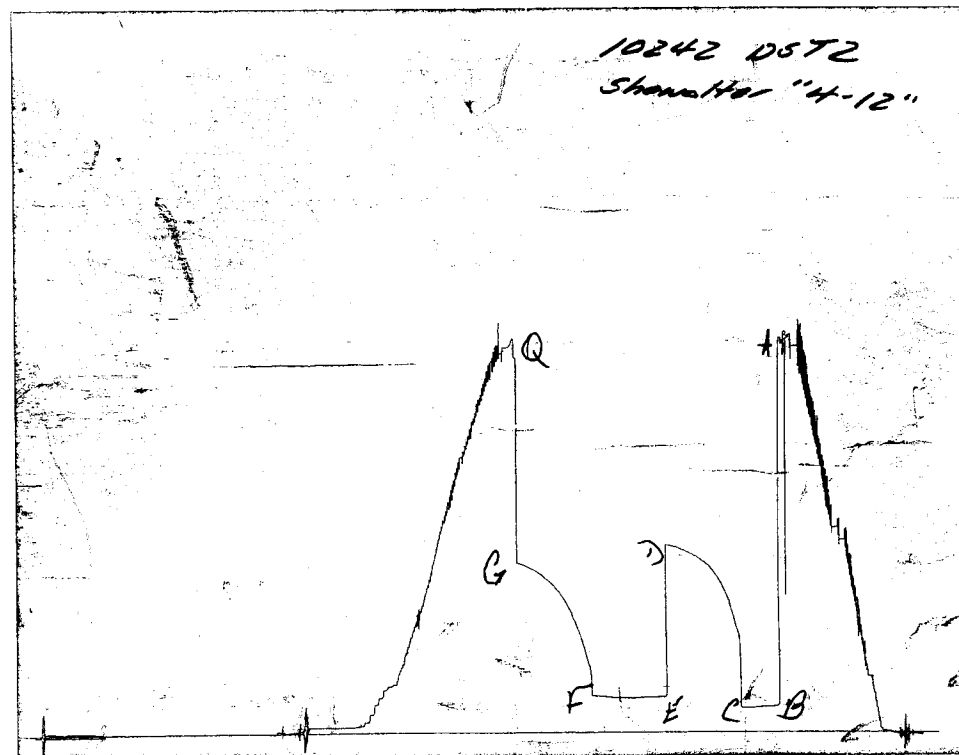
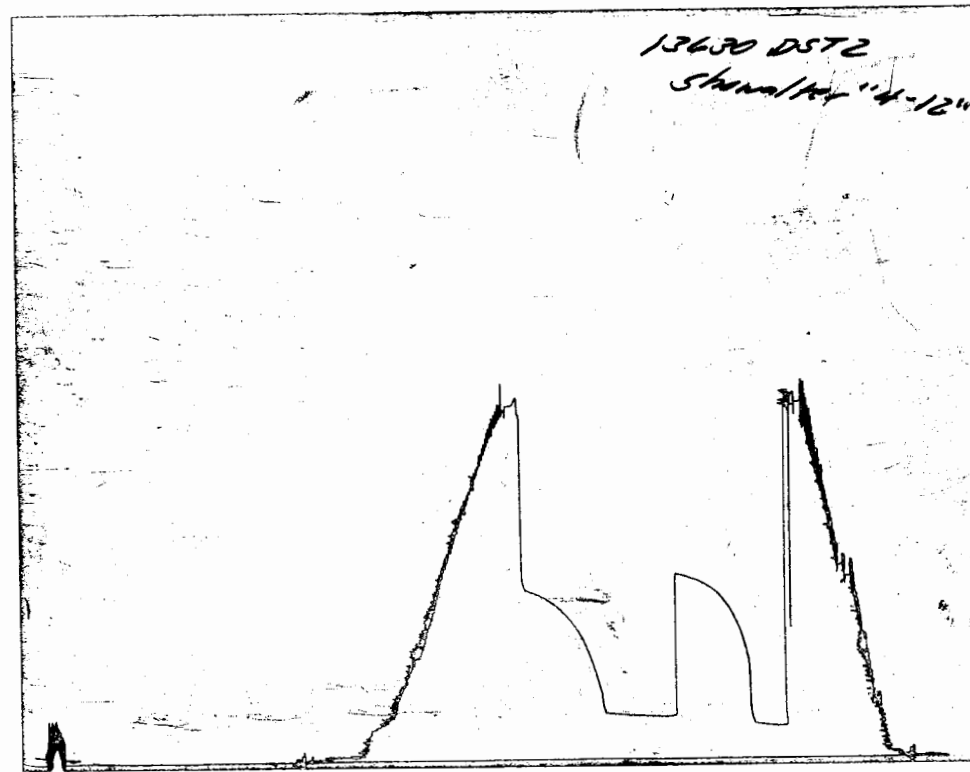


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CHART PAGE



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# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 12627

|                 |                                                             |                |                         |                   |                                             |
|-----------------|-------------------------------------------------------------|----------------|-------------------------|-------------------|---------------------------------------------|
| Well Name & No. | <u>Schwanter "4-12"</u>                                     | Test No.       | <u>2</u>                | Date              | <u>6-20-00</u>                              |
| Company         | <u>Adacrambie Energy L.L.C.</u>                             | Zone Tested    | <u>Macmahan</u>         |                   |                                             |
| Address         | <u>Wichita KS 67202</u>                                     | Elevation      | <u>2971</u>             | KB                | <u>2966</u> GL                              |
| Co. Rep / Geo.  | <u>Steve Davis</u>                                          | Cont.          | <u>Pickrell Bldg 10</u> | Est. Ft. of Pay   | <u>4</u> Por. <u>15</u> %                   |
| Location: Sec.  | <u>12</u>                                                   | Twp.           | <u>18S</u>              | Rge.              | <u>22W</u> Co. <u>South</u> State <u>KS</u> |
| No. of Copies   | <u>See</u> Distribution Sheet (Y, N) <u>Y</u> <u>Shanes</u> | Turnkey (Y, N) |                         | Evaluation (Y, N) |                                             |

Interval Tested 4327-4405 Initial Str Wt./Lbs. 65000 Unseated Str Wt./Lbs. 67000  
Anchor Length 68' Tail=253 Tail=20 Wt. Set Lbs. 45000 Wt. Pulled Loose/Lbs. 13000  
Top Packer Depth 4322 Tool Weight 15000  
Bottom Packer Depth 4327 S-PK=4405 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 4658 Wt. Pipe Run — Drill Collar Run — 0  
Mud Wt. 9.4 LCM 3# Vis. 553 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 4342 25' up  
Blow Description Work 2" built to string OBB in 25 min. I.F.P.  
No blow-back. I.S.T.P.  
Surface blow built to string OBB in 27 min. F.F.P.  
1" blow-back. F.S.T.P.

|                       |            |            |            |                |                      |                       |                |
|-----------------------|------------|------------|------------|----------------|----------------------|-----------------------|----------------|
| Recovery — Total Feet | <u>415</u> | GIP        | <u>205</u> | Ft. in DC      | <u>0</u>             | Ft. in DP             | <u>415</u>     |
| Rec. <u>100</u>       | Feet Of    | <u>Gas</u> | <u>Oil</u> | <u>10</u> %gas | <u>90</u> %oil       | %water                | %mud           |
| Rec. <u>125</u>       | Feet Of    | <u>Gas</u> | <u>Oil</u> | <u>8</u> %gas  | <u>62</u> %oil       | %water                | <u>30</u> %mud |
| Rec. <u>170</u>       | Feet Of    | <u>Gas</u> | <u>Oil</u> | <u>28</u> %gas | <u>38</u> %oil       | %water                | <u>34</u> %mud |
| Rec. _____            | Feet Of    |            |            | %gas           | %oil                 | %water                | %mud           |
| Rec. _____            | Feet Of    |            |            | %gas           | %oil                 | %water                | %mud           |
| BHT <u>124</u>        | °F Gravity | <u>27</u>  | °API D@    | <u>70</u>      | °F Corrected Gravity | <u>26</u>             | °API           |
| RW _____              | @ _____    | °F         | Chlorides  | _____          | ppm Recovery         | Chlorides <u>2500</u> | ppm System     |

|                                  | AK-1        | Alpine      |     |                                  |                 |                   |
|----------------------------------|-------------|-------------|-----|----------------------------------|-----------------|-------------------|
| (A) Initial Hydrostatic Mud      | <u>2183</u> | <u>2183</u> | PSI | Recorder No. <u>3017 "14:08"</u> | T-On Location   | <u>1:00 P.M.</u>  |
| (B) First Initial Flow Pressure  | <u>133</u>  | <u>77</u>   | PSI | (depth) <u>4349</u>              | T-Started       | <u>2:20 P.M.</u>  |
| (C) First Final Flow Pressure    | <u>133</u>  | <u>131</u>  | PSI | Recorder No. <u>10242</u>        | T-Open          | <u>3:55 P.M.</u>  |
| (D) Initial Shut-In Pressure     | <u>1092</u> | <u>1101</u> | PSI | (depth) <u>4399</u>              | T-Pulled        | <u>7:25 P.M.</u>  |
| (E) Second Initial Flow Pressure | <u>191</u>  | <u>137</u>  | PSI | Recorder No. <u>13630</u>        | T-Out           | <u>11:00 P.M.</u> |
| (F) Second Final Flow Pressure   | <u>212</u>  | <u>199</u>  | PSI | (depth) <u>4355-4410</u>         | T-Off Location  |                   |
| (G) Final Shut-in Pressure       | <u>998</u>  | <u>994</u>  | PSI | Initial Opening <u>30</u>        | Test <u>1.1</u> | <u>700</u>        |
| (Q) Final Hydrostatic Mud        | <u>2175</u> | <u>2119</u> | PSI | Initial Shut-in <u>60</u>        | Jars <u>N</u>   |                   |

6200 1408.017  
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Approved By Steve Davis

Our Representative Shanes

Final Flow 60 Safety Joint N  
Final Shut-in 60 Straddle 1 250  
Circ. Sub 1  
Sampler \_\_\_\_\_  
Extra Packer 1 150  
Elec. Rec. 1 150  
Mileage \_\_\_\_\_  
Other 1 2 Hrs 100  
TOTAL PRICE \$ 1310.00

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Energy  
WELL NAME: Schowalter "4-12"  
LOCATION : 12-18S-32W Scott co KS  
INTERVAL : 4335.00 To 4420.00 ft

DATE 6-21-00  
KB 2971.00 ft  
GR 2966.00 ft  
TD 4658.00 ft

TICKET NO: 12628  
FORMATION: Marmaton  
TEST TYPE: CONV-STRADDLE

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3      | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|--------|-----|------------------------|
| PF 30 Rec.        | 10242  | 10242  | 3017   | 13630  |     | PF Fr. 0435 to 0505 hr |
| SI 60 Range(Psi ) | 4175.0 | 4175.0 | 5000.0 | 4625.0 | 0.0 | IS Fr. 0505 to 0605 hr |
| SF 60 Clock(hrs)  | 12 HR  | 12 HR  | Elect  | 12 HR  |     | SF Fr. 0605 to 0705 hr |
| FS 90 Depth(ft )  | 4414.0 | 4414.0 | 4347.0 | 4655.0 | 0.0 | FS Fr. 0705 to 0835 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2201.0 | 2208.0 | 2113.0 | 0.0 | 0.0 | T STARTED 0240 hr             |
| B. First Flow  | 123.0  | 142.0  | 53.0   | 0.0 | 0.0 | T ON BOTM 0433 hr             |
| B1. Final Flow | 151.0  | 165.0  | 132.0  | 0.0 | 0.0 | T OPEN 0435 hr                |
| C. In Shut-in  | 1074.0 | 1087.0 | 1071.0 | 0.0 | 0.0 | T PULLED 0835 hr              |
| D. Init Flow   | 221.0  | 240.0  | 148.0  | 0.0 | 0.0 | T OUT 1145 hr                 |
| E. Final Flow  | 240.0  | 248.0  | 203.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1060.0 | 1066.0 | 1046.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2177.0 | 2140.0 | 2095.0 | 0.0 | 0.0 | Tool Wt. 6300.00 lbs          |
| Inside/Outside | I      | I      | I      | S   |     | Wt Set On Packer 40000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 32000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 66000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 68000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.78 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 178.00 ft         |
|                |        |        |        |     |     | D.P. Length 4151.00 ft        |

RECOVERY

Tot Fluid 430.00 ft of 178.00 ft in DC and 252.00 ft in DP  
555.00 ft of Gas in pipe  
160.00 ft of Clean gassy oil  
0.00 ft of 10% gas 90% oil  
120.00 ft of Oil & gas cut mud  
0.00 ft of 16% gas 16% oil 68% mud  
150.00 ft of Gassy mud cut oil  
0.00 ft of 6% gas 68% oil 26% mud  
0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 26.00

BLOW DESCRIPTION

Initial Flow:  
Weak 2" built to strong bottom of bucket in 16 minutes.  
Initial Shut-In:  
2" blow-back.  
Final Flow:  
Weak 1 1/2" built to strong bottom of bucket in 21 minutes.  
Final Shut-In:  
2" blow back.  
Remarks: 4 Ft. of Pay.

SAMPLES: None  
SENT TO:

MUD DATA-----

| Mud Type       | Chemical     |
|----------------|--------------|
| Weight         | 9.40 lb/c    |
| Vis.           | 53.00 S/L    |
| W.L.           | 11.20 in3    |
| F.C.           | 0.00 in      |
| Mud Drop Y     | 10.0 ft      |
| Amt. of fill   | 0.00 ft      |
| Btm. H. Temp.  | 127.00 F     |
| Hole Condition | Good         |
| % Porosity     | 15.00        |
| Packer Size    | 6.75 in      |
| No. of Packers | 3            |
| Cushion Amt.   | 0.00         |
| Cushion Type   |              |
| Reversed Out N |              |
| Tool Chased N  |              |
| Tester         | Lanny Saloga |
| Co. Rep.       | Steve Davis  |
| Contr.         | Pickrell     |
| Rig #          | 10           |
| Unit #         |              |
| Pump T.        |              |

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV-STRADDLE

|                                                |                         |      |
|------------------------------------------------|-------------------------|------|
| WELL NAME: Schowalter "4-12"                   | P.O. SUB Cir. sub       | 4255 |
| LOCATION : 12-18S-32W Scott co KS              | C.O. SUB Top of tool    | 4315 |
| TICKET No. 12628 D.S.T. No. 3 DATE 6-21-00     | Double pin              | 4316 |
| TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20   | S.I. TOOL Sterling      | 4321 |
| INTERVAL TOOL ..... 18                         | HMV Sterling            | 4326 |
| BOTTOM PACKERS AND ANCHOR ..... 22             | JARS                    |      |
| TOTAL TOOL ..... 60                            |                         |      |
| DRILL COLLAR ANCHOR IN INTERVAL .....          |                         |      |
| D.C. ANCHOR STND.Stands Single Total           | SAFETY JOINT            |      |
| D.P. ANCHOR STND.Stands 4 Single 1 Total 283   | PACKER Sparton          | 4331 |
| TOTAL ASSEMBLY ..... 343                       | PACKER Sparton          | 4335 |
| D.C. ABOVE TOOLS.Stands 3 Single Total 178     | DEPTH                   |      |
| D.P. ABOVE TOOLS.Stands 66 Single 1 Total 4151 | 1 ft.                   | 4336 |
| TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4672 | ANCHOR 10 ft. perfs     | 4346 |
|                                                | Co. sub                 | 4347 |
|                                                | Alpine                  | 4347 |
|                                                | 1 std DP 63 ft.         | 4410 |
| TOTAL DEPTH ..... 4658                         | Co. sub                 | 4411 |
| TOTAL DRILL PIPE ABOVE K.B. .... 14            | AK-1                    | 4414 |
| REMARKS:                                       | Pu. sub                 | 4416 |
| Bottom packer did not hold.                    | 1 ft. perf              | 4417 |
|                                                | Blank                   | 4417 |
|                                                | 3 ft. of packer         | 4420 |
|                                                | PACKER Sparton "Center" | 4420 |
|                                                | 2 ft. of packer         | 4422 |
|                                                | 12 ft. perfs            | 4434 |
|                                                | Co. sub                 | 4435 |
|                                                | 3 stds 1 single DP      | 4655 |
|                                                | AK-1                    | 4655 |
|                                                | Co. sub                 | 4656 |
|                                                | BULLNOSE 2 ft. perf     |      |
|                                                | T.D.                    | 4658 |

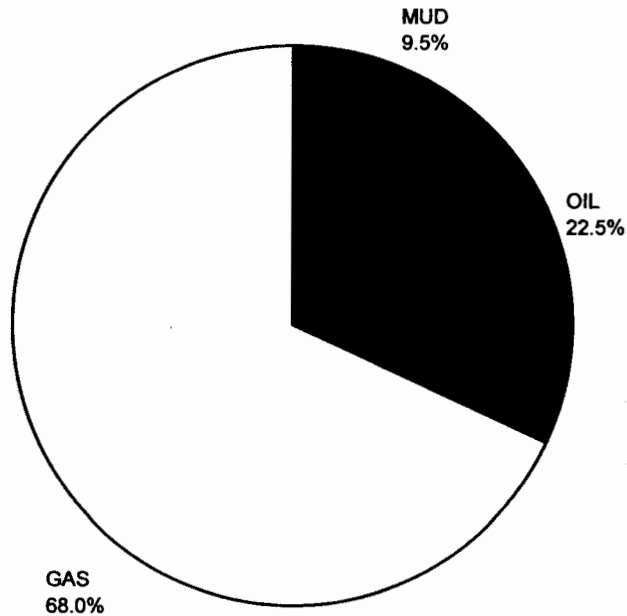
# CALCULATED RECOVERY ANALYSIS

DST 3

TICKET 12628

| SAMPLE # |   | TOTAL FEET | GAS % | FEET  | OIL % | FEET  | WATER % | FEET | MUD % | FEET  |
|----------|---|------------|-------|-------|-------|-------|---------|------|-------|-------|
| DRILL    | 1 | 555        | 100   | 555   | 0     | 0     | 0       | 0    | 0     | 0     |
| PIPE     | 2 | 160        | 10    | 16    | 90    | 144   | 0       | 0    | 0     | 0     |
|          | 3 | 92         | 16    | 14.72 | 16    | 14.72 | 0       | 0    | 68    | 62.56 |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 6 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| WEIGHT   | 1 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| PIPE     | 2 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| DRILL    | 1 | 28         | 16    | 4.48  | 16    | 4.48  | 0       | 0    | 68    | 19.04 |
| COLLARS  | 2 | 150        | 6     | 9     | 68    | 102   | 0       | 0    | 26    | 39    |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0     |
| TOTAL    |   | 985        | 0     | 599.2 | 0     | 265.2 | 0       | 0    | 0     | 120.6 |

|            |           |   |          |     |   |         |          |
|------------|-----------|---|----------|-----|---|---------|----------|
| BBL OIL=   | 2.7776856 | * | HRS OPEN | 1.5 | = | BBL/DAY | 44.44297 |
| BBL WATER= | 0         | * |          |     | = |         | 0        |
| BBL MUD=   | 1.1734188 |   |          |     |   |         |          |
| BBL GAS =  | 8.3948556 |   |          |     |   |         |          |



# TEST HISTORY

12628 D.S.T.#3 Schowalter "4-12" Abercrombie Energy LLC

Flag Points  
t(Min.) P( PSig)

A: 0.00 2113.58  
B: 0.00 53.34  
C: 29.50 132.76  
D: 60.00 1071.74  
E: 0.00 148.21  
F: 59.75 203.86  
G: 93.00 1046.03  
Q: 0.00 2095.45

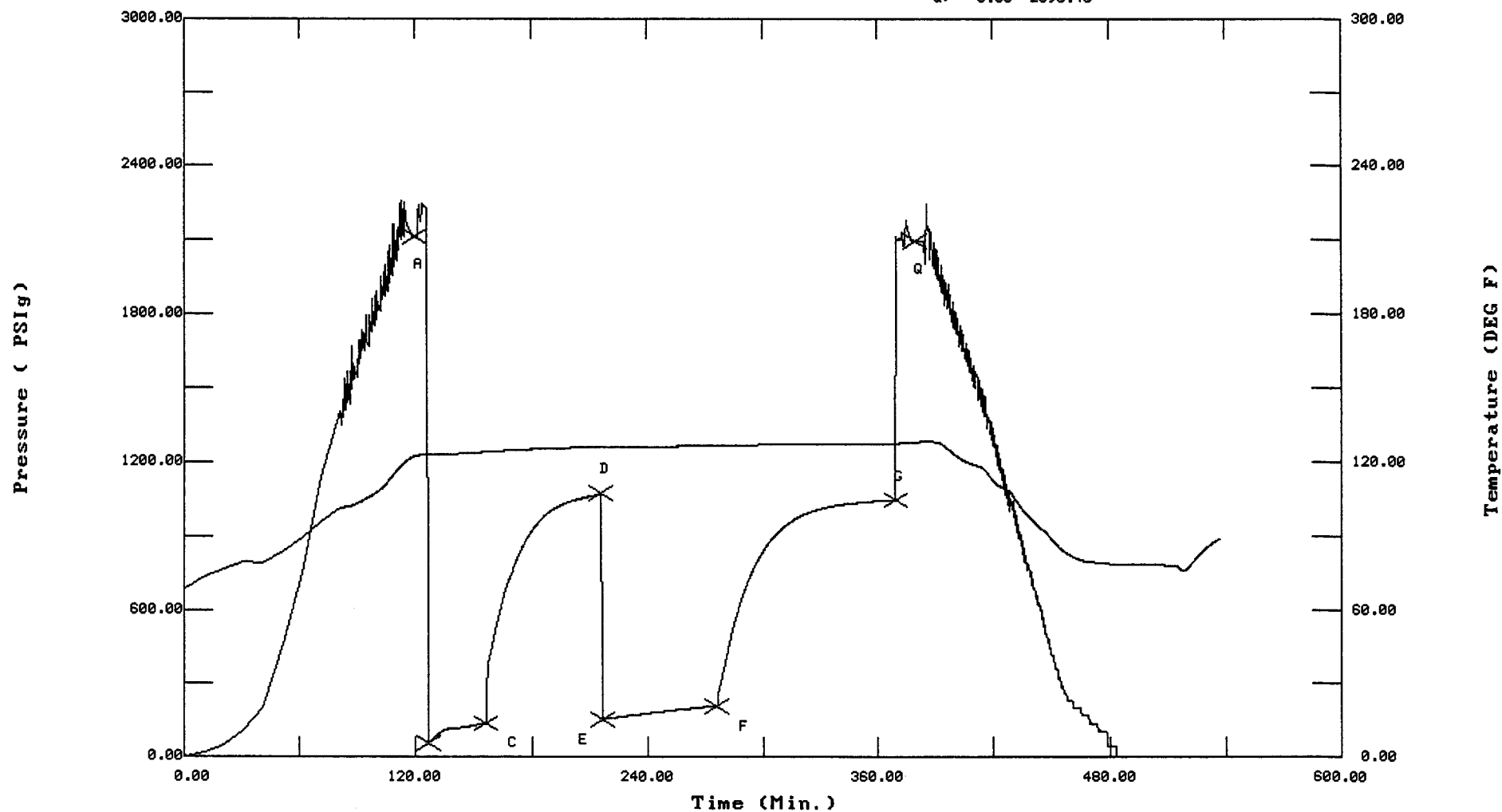
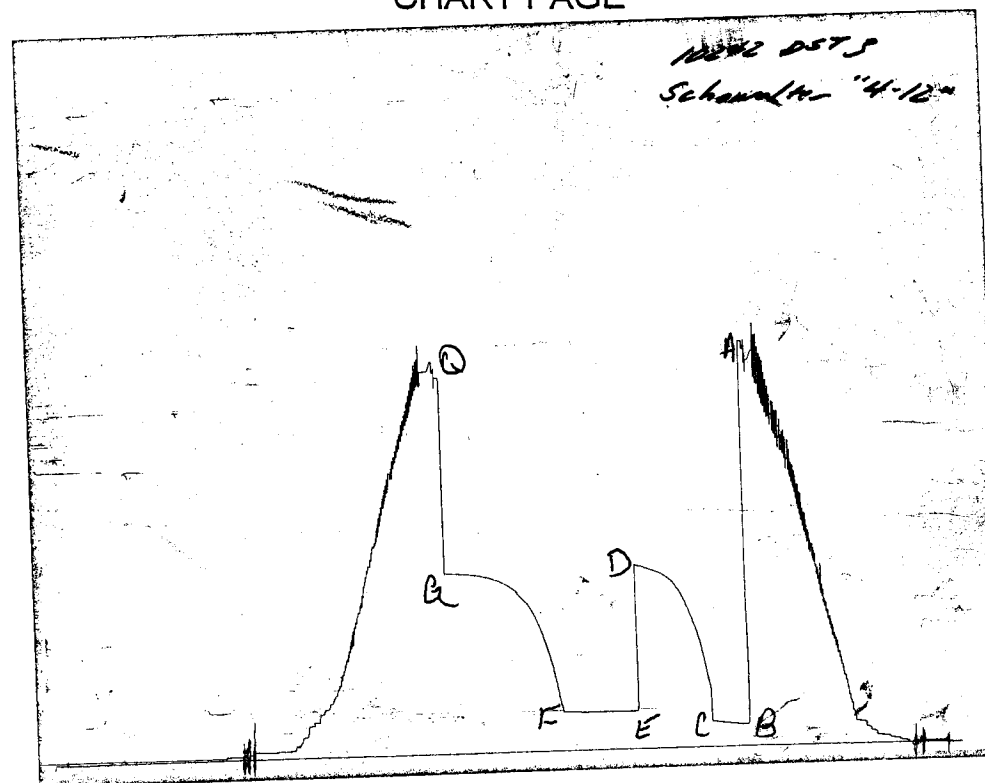
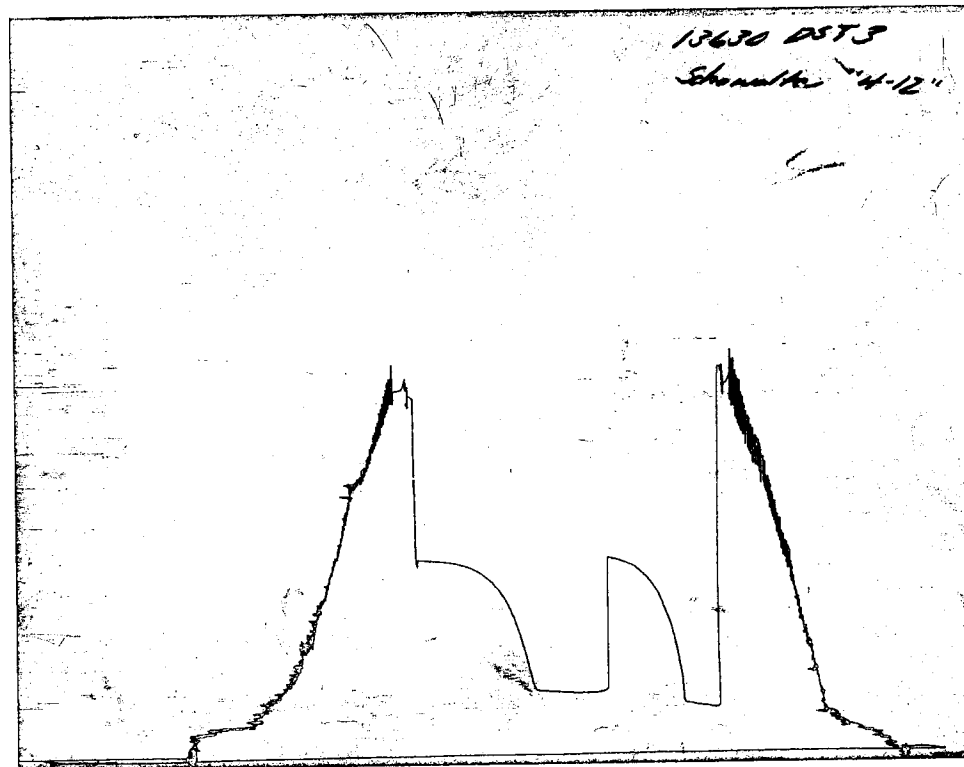


CHART PAGE



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.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

N<sup>o</sup> 12628

|                                                                                           |                                         |                                              |
|-------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|
| Well Name & No. <u>Schoonover "4-12"</u>                                                  | Test No. <u>3</u>                       | Date <u>6-21-00</u>                          |
| Company <u>Abercrombie Energy</u>                                                         | Zone Tested <u>Marathon</u>             |                                              |
| Address <u>Wichita KS 67202</u>                                                           | Elevation <u>2771</u> KB <u>2766</u> GL |                                              |
| Co. Rep / Geo. <u>Steve Davis</u>                                                         | Cont. _____                             | Est. Ft. of Pay <u>4</u> Por. <u>15</u> %    |
| Location: Sec. <u>12</u> Twp. <u>18S</u> Rge. <u>32W</u> Co. <u>Scott</u> State <u>KS</u> |                                         |                                              |
| No. of Copies _____                                                                       | Distribution Sheet (Y, N) _____         | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

Interval Tested 4335-4420 Initial Str Wt/Lbs. 66000 Unseated Str Wt/Lbs. 68000  
Anchor Length 85' Tail = 238 Tail = 20 Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 32,000  
Top Packer Depth 4330 Tool Weight 6,300  
Bottom Packer Depth 4335 St. Pk. = 4420 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 4658 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 178  
Mud Wt. 9.4 LCM 3# Vis. 5.3 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 4151 14 1/4"

Blow Description Work 2" built to string OBB in 16 min. F.F.P.  
2" blow-back. I.S.T.P.  
Work 1 1/2" built to string OBB in 21 min. F.F.P.  
2" blow-back. F.S.T.P.

| Recovery — Total Feet                                                                     | GIP                           | Ft. in DC                     | Ft. in DP                       |
|-------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|---------------------------------|
| <u>430</u>                                                                                | <u>555</u>                    | <u>178</u>                    | <u>252</u>                      |
| Rec. <u>160</u> Feet Of <u>cln Gassy Oil</u>                                              | <u>10</u> %gas <u>90</u> %oil | <u>10</u> %gas <u>90</u> %oil | <u>10</u> %water <u>10</u> %mud |
| Rec. <u>120</u> Feet Of <u>Oil &amp; Gas out mud</u>                                      | <u>16</u> %gas <u>16</u> %oil | <u>16</u> %gas <u>16</u> %oil | <u>16</u> %water <u>68</u> %mud |
| Rec. <u>150</u> Feet Of <u>Gassy mud out oil</u>                                          | <u>6</u> %gas <u>68</u> %oil  | <u>6</u> %gas <u>68</u> %oil  | <u>26</u> %water <u>26</u> %mud |
| Rec. _____ Feet Of _____                                                                  | _____ %gas _____ %oil         | _____ %gas _____ %oil         | _____ %water _____ %mud         |
| Rec. _____ Feet Of _____                                                                  | _____ %gas _____ %oil         | _____ %gas _____ %oil         | _____ %water _____ %mud         |
| BHT <u>127</u> °F Gravity <u>28</u> °API D@ <u>80</u> °F Corrected Gravity <u>26</u> °API |                               |                               |                                 |
| RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>3,500</u> ppm System        |                               |                               |                                 |

|                                  | AK-1        | Alpine      |                                      |                                 |
|----------------------------------|-------------|-------------|--------------------------------------|---------------------------------|
| (A) Initial Hydrostatic Mud      | <u>2201</u> | <u>2113</u> | PSI Recorder No. <u>3017</u> "02:30" | T-On Location <u>12:00 A.M.</u> |
| (B) First Initial Flow Pressure  | <u>123</u>  | <u>53</u>   | PSI (depth) <u>4347</u>              | T-Started <u>2:40 A.M.</u>      |
| (C) First Final Flow Pressure    | <u>151</u>  | <u>132</u>  | PSI Recorder No. <u>10242</u>        | T-Open <u>4:35 A.M.</u>         |
| (D) Initial Shut-In Pressure     | <u>1074</u> | <u>1071</u> | PSI (depth) <u>4414</u>              | T-Pulled <u>8:35 A.M.</u>       |
| (E) Second Initial Flow Pressure | <u>221</u>  | <u>148</u>  | PSI Recorder No. <u>13630</u>        | T-Out <u>11:45 A.M.</u>         |
| (F) Second Final Flow Pressure   | <u>240</u>  | <u>203</u>  | PSI (depth) <u>4655</u>              | T-Off Location _____            |
| (G) Final Shut-in Pressure       | <u>1060</u> | <u>1046</u> | PSI Initial Opening <u>30</u>        | Test <u>1</u> <u>700</u>        |
| (Q) Final Hydrostatic Mud        | <u>2177</u> | <u>2085</u> | PSI Initial Shut-in <u>60</u>        | Jars _____                      |

62100230.017  
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Approved By St. Os

Our Representative George L. Salazar

Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-in 90 Straddle 1 250  
Circ. Sub 1  
Sampler \_\_\_\_\_  
Extra Packer 1 150  
Elec. Rec. 1 150  
Mileage \_\_\_\_\_  
Other 1.3 Hrs. 90  
TOTAL PRICE \$ 1,340

TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Energy LLC  
WELL NAME: Schowalter "4-12"  
LOCATION : 12-18S-32W Scott co KS  
INTERVAL : 4333.00 To 4458.00 ft

DATE 6-21-00  
KB 2971.00 ft TICKET NO: 12629 DST #4  
GR 2966.00 ft FORMATION: Marmaton  
TD 4658.00 ft TEST TYPE: CONV-STRADDLE

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3      | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|--------|-----|------------------------|
| PF 30 Rec.        | 10242  | 10242  | 3017   | 13630  |     | PF Fr. 2240 to 2310 hr |
| SI 60 Range(Psi ) | 4175.0 | 4175.0 | 5000.0 | 4625.0 | 0.0 | IS Fr. 2310 to 0010 hr |
| SF 30 Clock(hrs)  | 12 HR  | 12 HR  | Elect  | 12 HR  |     | SF Fr. 0010 to 0040 hr |
| FS 90 Depth(ft )  | 4452.0 | 4452.0 | 4345.0 | 4655.0 | 0.0 | FS Fr. 0040 to 0210 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2237.0 | 2291.0 | 2137.0 | 0.0 | 0.0 | T STARTED 2120 hr             |
| B. First Flow  | 126.0  | 153.0  | 47.0   | 0.0 | 0.0 | T ON BOTM 2237 hr             |
| B1. Final Flow | 130.0  | 148.0  | 68.0   | 0.0 | 0.0 | T OPEN 2240 hr                |
| C. In Shut-in  | 974.0  | 998.0  | 967.0  | 0.0 | 0.0 | T PULLED 0210 hr              |
| D. Init Flow   | 140.0  | 168.0  | 72.0   | 0.0 | 0.0 | T OUT 0530 hr                 |
| E. Final Flow  | 142.0  | 168.0  | 88.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1045.0 | 1071.0 | 1034.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2216.0 | 2271.0 | 2119.0 | 0.0 | 0.0 | Tool Wt. 6300.00 lbs          |
| Inside/Outside | I      | I      | I      | S   |     | Wt Set On Packer 41000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 6000.00 lbs   |
|                |        |        |        |     |     | Initial Str Wt 66000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 66000.00 lbs  |

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP  
130.00 ft of Slightly oil & gas cut mud  
0.00 ft of 3% gas 2% oil 95% mud  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of

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

MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.20 lb/c |
| Vis.       | 56.00 S/L |
| W.L.       | 8.80 in3  |
| F.C.       | 0.00 in   |
| Mud Drop Y | 10.0 ft   |

BLOW DESCRIPTION

Initial Flow:

Weak 2" built to 3 3/4" in 16 minutes  
Stabilized.

Initial Shut-In:

No blow back.

Final Flow:

Weak surface blow.

Final Shut-In:

No blow back.

Remarks: 4 Ft. of Pay.

|                |              |
|----------------|--------------|
| Amt. of fill   | 0.00 ft      |
| Btm. H. Temp.  | 119.00 F     |
| Hole Condition | Good         |
| % Porosity     | 15.00        |
| Packer Size    | 6.75 in      |
| No. of Packers | 4            |
| Cushion Amt.   | 0.00         |
| Cushion Type   |              |
| Reversed Out N |              |
| Tool Chased N  |              |
| Tester         | Lanny Saloga |
| Co. Rep.       | Steve Davis  |
| Contr.         | Pickrell     |
| Rig #          | 10           |
| Unit #         |              |
| Pump T.        |              |

SAMPLES: None

SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV-STRADDLE

|                                                |   |                         |      |
|------------------------------------------------|---|-------------------------|------|
| WELL NAME: Schowalter "4-12"                   | H | P.O. SUB Cir. sub       | 4253 |
|                                                | H | C.O. SUB Top of tool    | 4313 |
|                                                |   | Double pin              | 4314 |
| LOCATION : 12-18S-32W Scott co KS              | H | S.I. TOOL Sterling      | 4319 |
| TICKET No. 12629 D.S.T. No. 4 DATE 6-21-00     | H |                         |      |
| TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 20   | H |                         |      |
| INTERVAL TOOL ..... 11                         |   | HMV Sterling            | 4324 |
| BOTTOM PACKERS AND ANCHOR ..... 32             | H | JARS                    |      |
| TOTAL TOOL ..... 63                            | H |                         |      |
| DRILL COLLAR ANCHOR IN INTERVAL .....          | H |                         |      |
| D.C. ANCHOR STND.Stands Single Total           | H |                         |      |
| D.P. ANCHOR STND.Stands 4 Single 1 Total 282   | H | SAFETY JOINT            |      |
| TOTAL ASSEMBLY ..... 345                       | ■ | PACKER Sparton          | 4329 |
| D.C. ABOVE TOOLS.Stands 3 Single Total 178     | ■ | PACKER Sparton          | 4333 |
| D.P. ABOVE TOOLS.Stands 66 Single 1 Total 4152 | H | DEPTH                   |      |
| TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4675 |   | 1 ft.                   | 4334 |
|                                                | H | ANCHOR 10 ft. perfs     | 4344 |
|                                                |   | Co. sub                 | 4345 |
|                                                |   | Alpine                  | 4345 |
|                                                | H | 1 std 1 jt 93 ft.       | 4438 |
| TOTAL DEPTH ..... 4658                         | H | Co. sub                 | 4439 |
| TOTAL DRILL PIPE ABOVE K.B. .... 17            |   | Pu. sub                 | 4444 |
| REMARKS:                                       | H | AK-1                    | 4452 |
| Bottom packer held.                            | H | 11 ft.perfs             | 4455 |
|                                                |   | Blank                   | 4455 |
|                                                | H | 3 ft. of packer         | 4458 |
|                                                | H |                         |      |
|                                                | ■ | PACKER Shale "Center"   | 4458 |
|                                                |   | 2 ft. of packer         | 4460 |
|                                                | H | 3 ft. of packer         | 4463 |
|                                                | ■ | PACKER Sparton "Center" | 4463 |
|                                                |   | 2 ft. of packer         | 4465 |
|                                                | H | Co. sub                 | 4466 |
|                                                | H | 3 stds DP 189 ft.       | 4655 |
|                                                |   | AK-1                    | 4655 |
|                                                | H | Co. sub                 | 4656 |
|                                                | H | BULLNOSE 2 ft. perf     |      |
|                                                | □ | T.D.                    | 4658 |

# TEST HISTORY

12629 D.S.T.#4 Schowalter "4-12" Abercrombie Energy LLC

## Flag Points

t(Min.) P( PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2137.33 |
| B: | 0.00  | 47.95   |
| C: | 29.00 | 68.74   |
| D: | 60.50 | 967.98  |
| E: | 0.00  | 72.38   |
| F: | 27.75 | 88.30   |
| G: | 92.75 | 1034.31 |
| Q: | 0.00  | 2119.65 |

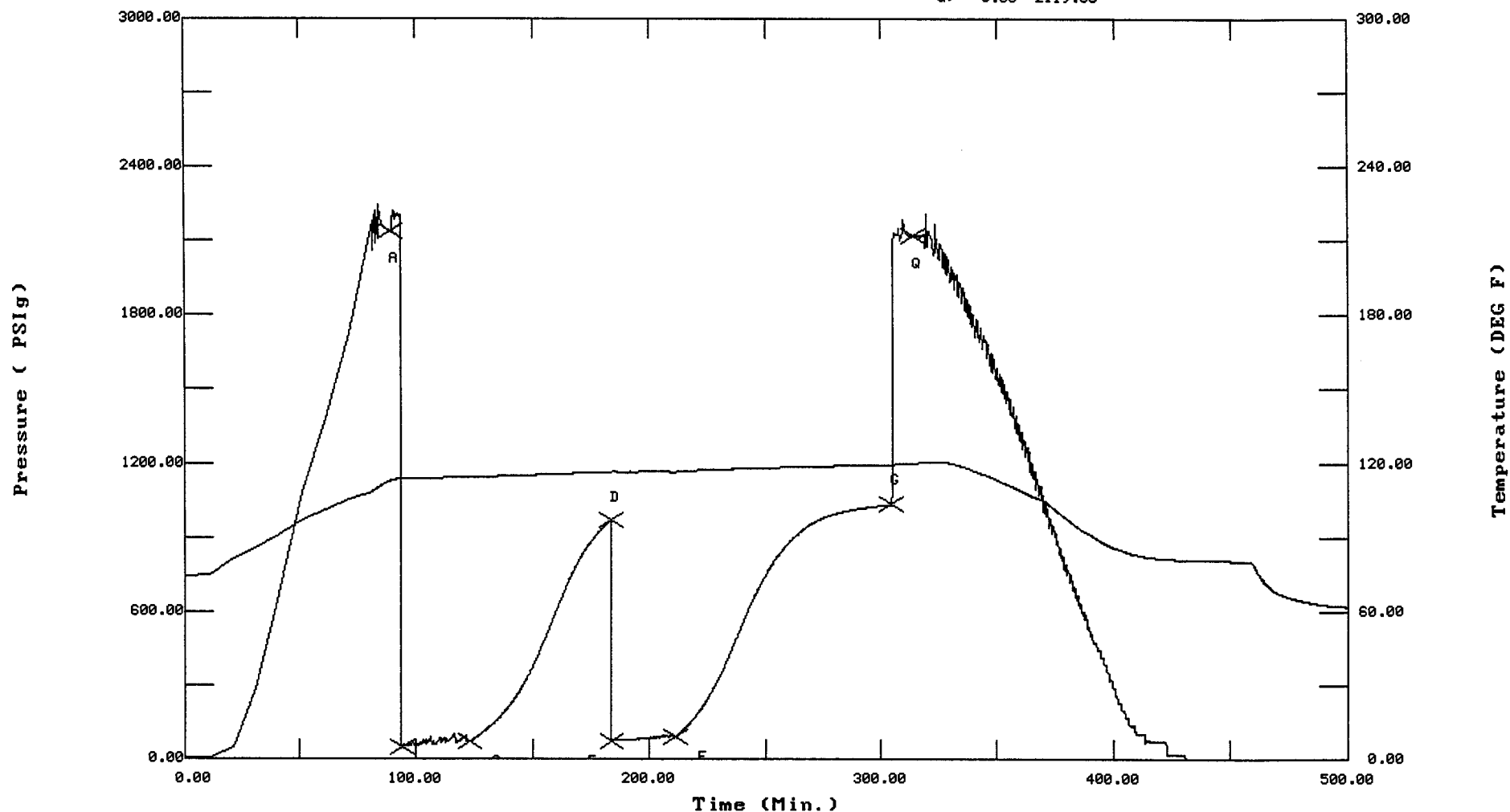
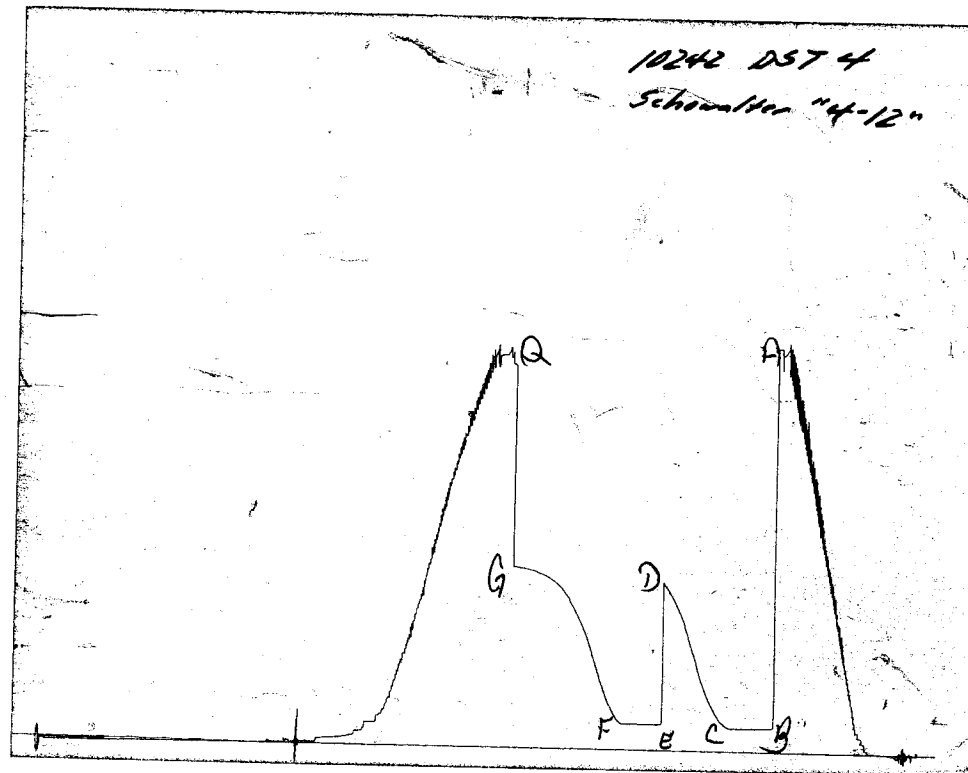
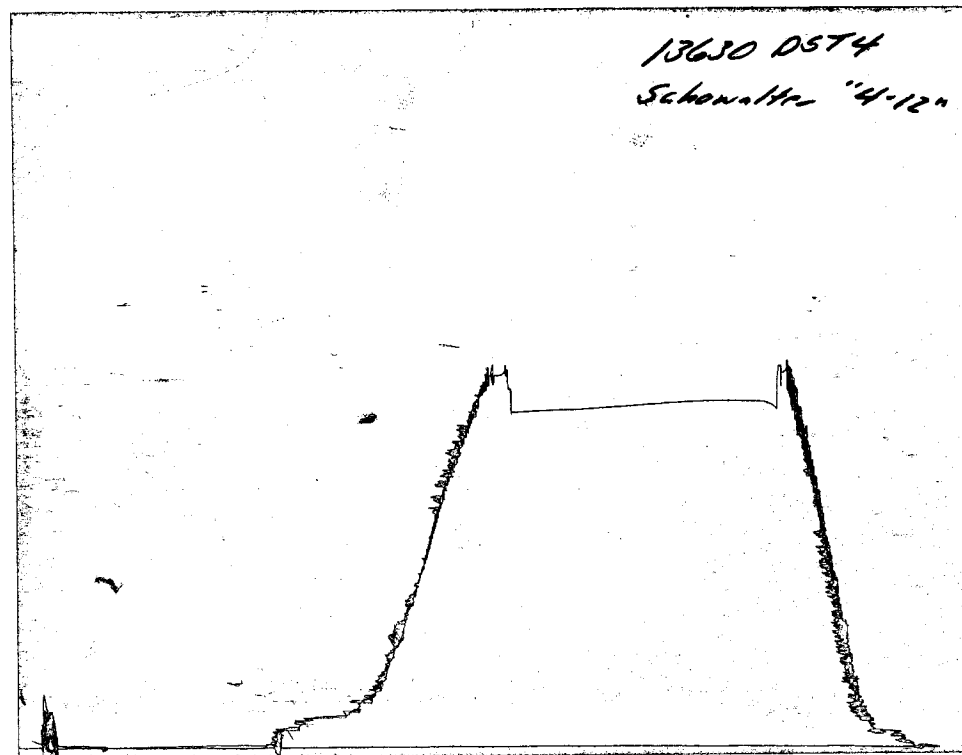


CHART PAGE



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.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 12629

|                 |                           |                           |                        |                 |                                             |
|-----------------|---------------------------|---------------------------|------------------------|-----------------|---------------------------------------------|
| Well Name & No. | <u>Schwaner "4-12"</u>    | Test No.                  | <u>4</u>               | Date            | <u>6-21-00</u>                              |
| Company         | <u>Abercrombie Energy</u> | Zone Tested               | <u>Marmaton</u>        |                 |                                             |
| Address         | <u>Wichita KS 67202</u>   | Elevation                 | <u>2971</u>            | KB              | <u>2966</u> GL                              |
| Co. Rep / Geo.  | <u>Steve Davis</u>        | Cont.                     | <u>Pickrell Rig 10</u> | Est. Ft. of Pay | <u>4</u> Por. <u>15</u> %                   |
| Location: Sec.  | <u>12</u>                 | Twp.                      | <u>18S</u>             | Rge.            | <u>32W</u> Co. <u>Smith</u> State <u>KS</u> |
| No. of Copies   |                           | Distribution Sheet (Y, N) |                        | Turnkey (Y, N)  |                                             |
|                 |                           | Evaluation (Y, N)         |                        |                 |                                             |

|                     |                                                       |                      |                  |                       |                           |
|---------------------|-------------------------------------------------------|----------------------|------------------|-----------------------|---------------------------|
| Interval Tested     | <u>4323-4458</u>                                      | Initial Str Wt./Lbs. | <u>66,000</u>    | Unseated Str Wt./Lbs. | <u>66,000</u>             |
| Anchor Length       | <u>125'</u> <u>Tool=200</u> <u>Tool=20</u>            | Wt. Set Lbs.         | <u>44,000</u>    | Wt. Pulled Loose/Lbs. | <u>6,000</u>              |
| Top Packer Depth    | <u>4328</u> <u>St. pk.=4458</u>                       | Tool Weight          | <u>6,300</u>     |                       |                           |
| Bottom Packer Depth | <u>4323</u> <u>St. pk.=4463</u>                       | Hole Size — 7 7/8"   |                  | Rubber Size — 6 3/4"  |                           |
| Total Depth         | <u>4658</u>                                           | Wt. Pipe Run         |                  | Drill Collar Run      | <u>178</u>                |
| Mud Wt.             | <u>9.2</u> LCM <u>3#</u> Vis. <u>56</u> WL <u>8.8</u> | Drill Pipe Size      | <u>4 1/2 x H</u> | Ft. Run               | <u>4152</u> <u>17' up</u> |

Blow Description Work 2" bit to 3 3/4" in 16 min. Stabilized. T.F.P.  
No blow-back. T.S.I.P.  
Work surface blow. F.F.P.  
No blow-back. F.S.I.P.

|                       |            |         |                        |           |            |           |          |
|-----------------------|------------|---------|------------------------|-----------|------------|-----------|----------|
| Recovery — Total Feet | <u>130</u> | GIP     | <u>0</u>               | Ft. in DC | <u>130</u> | Ft. in DP | <u>0</u> |
| Rec.                  | <u>130</u> | Feet Of | <u>5 1/2" x 6" mud</u> | %gas      | <u>2</u>   | %oil      |          |
| Rec.                  |            | Feet Of |                        | %gas      |            | %oil      |          |
| Rec.                  |            | Feet Of |                        | %gas      |            | %oil      |          |
| Rec.                  |            | Feet Of |                        | %gas      |            | %oil      |          |
| Rec.                  |            | Feet Of |                        | %gas      |            | %oil      |          |

BHT 119 °F Gravity — °API D@ — °F Corrected Gravity — °API  
RW — @ — °F Chlorides — ppm Recovery Chlorides 3,000 ppm System

|                                  |             |             |                     |                                                    |
|----------------------------------|-------------|-------------|---------------------|----------------------------------------------------|
|                                  | AK-1        | Alpine      |                     |                                                    |
| (A) Initial Hydrostatic Mud      | <u>2237</u> | <u>2137</u> | PSI Recorder No.    | <u>3017 "21:07"</u> T-On Location <u>8:00 P.M.</u> |
| (B) First Initial Flow Pressure  | <u>126</u>  | <u>47</u>   | PSI (depth)         | <u>4345</u> T-Started <u>9:20 P.M.</u>             |
| (C) First Final Flow Pressure    | <u>130</u>  | <u>68</u>   | PSI Recorder No.    | <u>10242</u> T-Open <u>10:40 P.M.</u>              |
| (D) Initial Shut-In Pressure     | <u>974</u>  | <u>967</u>  | PSI (depth)         | <u>4452</u> T-Pulled <u>2:10 P.M.</u>              |
| (E) Second Initial Flow Pressure | <u>140</u>  | <u>72</u>   | PSI Recorder No.    | <u>13630</u> T-Out <u>5:30 A.M.</u>                |
| (F) Second Final Flow Pressure   | <u>142</u>  | <u>88</u>   | PSI (depth)         | <u>4655</u> T-Off Location <u>—</u>                |
| (G) Final Shut-in Pressure       | <u>1045</u> | <u>1034</u> | PSI Initial Opening | <u>30</u> Test <u>1</u> <u>700</u> ✓               |
| (Q) Final Hydrostatic Mud        | <u>2216</u> | <u>2119</u> | PSI Initial Shut-in | <u>60</u> Jars <u>—</u>                            |

62102107.017  
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Steve Davis

Our Representative Yunus S. Sahgal

Final Flow 30 Safety Joint —  
Final Shut-in 90 Straddle 1259 ✓  
Circ. Sub 1  
Sampler —

2 = Extra Packers 300 ✓

Elec. Rec. 1 150 ✓

Shalepak Chicago 1 150 ✓

Other 1 H.C. 30 ✓

TOTAL PRICE \$ 4,580.00

# TRILOBITE TESTING L.L.C.

OPERATOR : Abercrombie Energy LLC  
WELL NAME: Schowalter "4-12"  
LOCATION : 12-18S-32W Scott co KS  
INTERVAL : 4458.00 To 4658.00 ft

DATE 6-22-00  
KB 2971.00 ft TICKET NO: 12630 DST #5  
GR 2966.00 ft FORMATION: Marm/Cher/Miss  
TD 4658.00 ft TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 10242  | 10242  | 3017   |     |     | PF Fr. 1325 to 1355 hr |
| SI 60 Range(Psi ) | 4175.0 | 4175.0 | 5000.0 | 0.0 | 0.0 | IS Fr. 1355 to 1455 hr |
| SF 60 Clock(hrs)  | 12 HR  | 12 HR  | Elect  |     |     | SF Fr. 1455 to 1555 hr |
| FS 90 Depth(ft )  | 4655.0 | 4655.0 | 4466.0 | 0.0 | 0.0 | FS Fr. 1555 to 1725 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2352.0 | 2318.0 | 2185.0 | 0.0 | 0.0 | T STARTED 1150 hr             |
| B. First Flow  | 257.0  | 296.0  | 142.0  | 0.0 | 0.0 | T ON BOTM 1322 hr             |
| B1. Final Flow | 278.0  | 308.0  | 189.0  | 0.0 | 0.0 | T OPEN 1325 hr                |
| C. In Shut-in  | 1214.0 | 1241.0 | 1161.0 | 0.0 | 0.0 | T PULLED 1725 hr              |
| D. Init Flow   | 336.0  | 354.0  | 193.0  | 0.0 | 0.0 | T OUT 2030 hr                 |
| E. Final Flow  | 355.0  | 375.0  | 253.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1196.0 | 1213.0 | 1131.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2258.0 | 2286.0 | 2122.0 | 0.0 | 0.0 | Tool Wt. 4800.00 lbs          |
| Inside/Outside | I      | I      | I      |     |     | Wt Set On Packer 25000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 7000.00 lbs   |
|                |        |        |        |     |     | Initial Str Wt 66000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 68000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.78 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 178.00 ft         |
|                |        |        |        |     |     | D.P. Length 4277.00 ft        |

## RECOVERY

Tot Fluid 555.00 ft of 178.00 ft in DC and 377.00 ft in DP  
370.00 ft of Gas in pipe.  
260.00 ft of Clean gassy oil  
0.00 ft of 15% gas 85% oil  
295.00 ft of Slightly mud cut gassy oil  
0.00 ft of 5% gas 90% oil 5% mud  
0.00 ft of  
0.00 ft of  
0.00 ft of  
SALINITY 0.00 P.P.M. A.P.I. Gravity 26.00

## BLOW DESCRIPTION

Initial Flow:  
Fair 6" built to strong bottom of  
bucket in 3 minutes.  
Initial Shut-In:  
3" blow back.  
Final Flow:  
Weak 1" built to strong bottom of  
bucket in 18 minutes.  
Final Shut-In:  
1" blow-back.

SAMPLES: None  
SENT TO:

Test Successful: Y

MUD DATA-----  
Mud Type Chemical  
Weight 9.30 lb/c  
Vis. 51.00 S/L  
W.L. 9.60 in3  
F.C. 0.00 in  
Mud Drop Y 15.0 ft  
  
Amt. of fill 0.00 ft  
Btm. H. Temp. 130.00 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 Lanny Saloga  
Co. Rep. Steve Davis  
Contr. Pickrell  
Rig # 10  
Unit #  
Pump T.

[illegible]

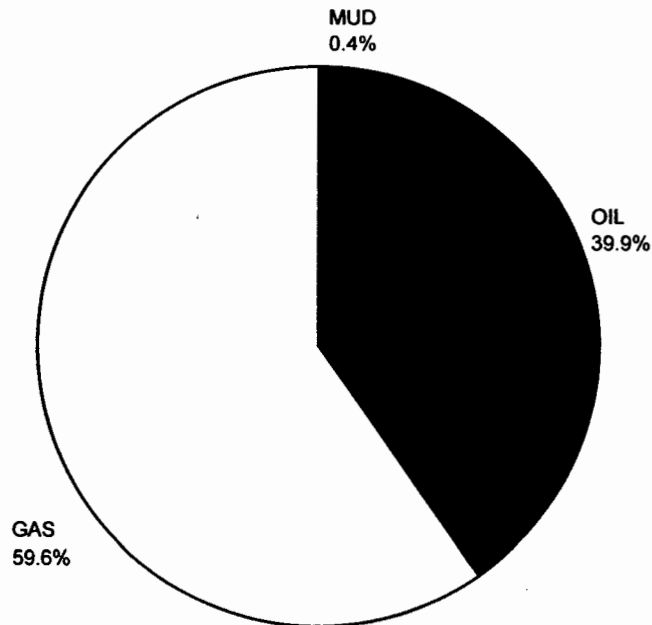
# CALCULATED RECOVERY ANALYSIS

DST 5

TICKET 12630

| SAMPLE # |   | TOTAL FEET | GAS % | FEET  | OIL % | FEET  | WATER % | FEET | MUD % | FEET |
|----------|---|------------|-------|-------|-------|-------|---------|------|-------|------|
| DRILL    | 1 | 370        | 100   | 370   | 0     | 0     | 0       | 0    | 0     | 0    |
| PIPE     | 2 | 260        | 15    | 39    | 85    | 221   | 0       | 0    | 0     | 0    |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 6 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
| WEIGHT   | 1 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
| PIPE     | 2 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
| DRILL    | 1 | 178        | 5     | 8.9   | 90    | 160.2 | 0       | 0    | 5     | 8.9  |
| COLLARS  | 2 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 3 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 4 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
|          | 5 | 0          | 0     | 0     | 0     | 0     | 0       | 0    | 0     | 0    |
| TOTAL    |   | 808        | 0     | 417.9 | 0     | 381.2 | 0       | 0    | 0     | 8.9  |

|            |          |   |          |     |   |         |           |
|------------|----------|---|----------|-----|---|---------|-----------|
| BBL OIL=   | 3.925998 | * | HRS OPEN | 1.5 | = | BBL/DAY | 62.815968 |
| BBL WATER= | 0        | * |          |     | = |         | 0         |
| BBL MUD=   | 0.043521 |   |          |     |   |         |           |
| BBL GAS =  | 5.859501 |   |          |     |   |         |           |



# TEST HISTORY

12630 D.S.T.#5 Schowalter "4-12" Abercrombie Energy LLC

Flag Points

t(Min.) P( PSig)

A: 0.00 2185.64  
B: 0.00 142.90  
C: 30.50 189.26  
D: 59.50 1161.32  
E: 0.00 193.71  
F: 60.00 253.49  
G: 91.50 1131.34  
Q: 0.00 2122.67

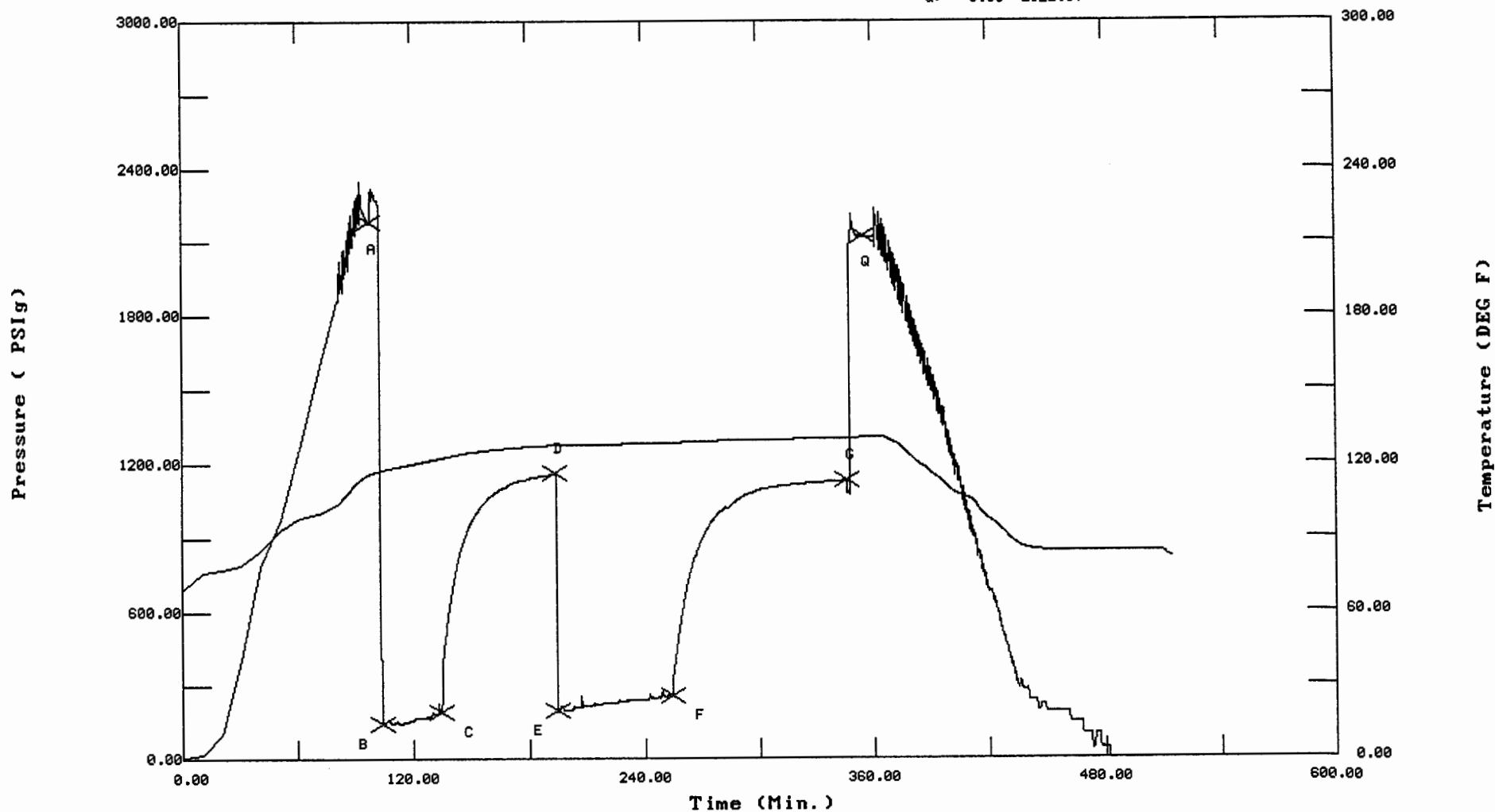
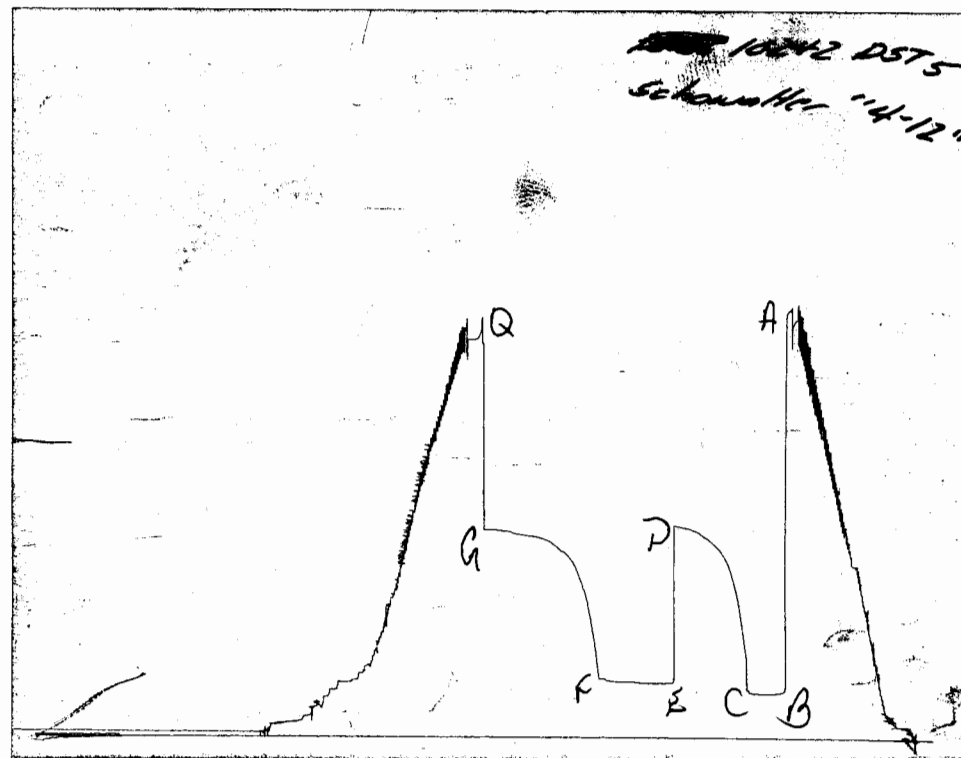


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

N<sup>o</sup> 12630

Well Name & No. Schwarze "4-12" Test No. 5 Date 6-22-00  
Company Abercrombie Energy Zone Tested Prum-Cher-Miss  
Address Wichita KS 67202 Elevation 2971 KB 2966 GL  
Co. Rep / Geo. Steve Davis Cont. Pickrell Rig 10 Est. Ft. of Pay ? Por. ? %  
Location: Sec. 12 Twp. 18S Rge. 32W Co. Scott State Ks.  
No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4458-4658

Initial Str Wt/Lbs 66000 Unseated Str Wt/Lbs. 68000

Anchor Length 200' Tool = 20'

Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 2000

Top Packer Depth 4453

Tool Weight 4800

~~NAI~~ Bottom Packer Depth 4458

Hole Size — 7 7/8" Rubber Size — 6 3/4"

Total Depth 4658

Wt. Pipe Run — Drill Collar Run 178

Mud Wt. 9.3 LCM 3# Vis. 51 WL 9.6

Drill Pipe Size 4 1/2 x 14 Ft. Run 4277 17' up

Blow Description Fail 6" built to strength ORB in 3 min. I.F.P.

3" blow-back. I.S.T.P.

Work 1" built to strength ORB in 18 min.

1" blow-back. I.S.T.P.

Recovery — Total Feet 555 GIP 370 Ft. in DC 178 Ft. in DP 377

Rec. 260 Feet Of cls. Gassy Oil 15 %gas 85 %oil %water %mud

Rec. 295 Feet Of slt. mud cut Gassy Oil 5 %gas 90 %oil %water 5 %mud

Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas %oil %water %mud

Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas %oil %water %mud

Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas %oil %water %mud

BHT 130 °F Gravity 26 °API D@ 60 °F Corrected Gravity 26 °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3000 ppm System

AK-1 Alpine

(A) Initial Hydrostatic Mud 2352 2185 PSI Recorder No. 3017 "11:40" T-On Location 11:00 A.M.

(B) First Initial Flow Pressure 257 142 PSI (depth) 4466 T-Started 11:50 A.M.

(C) First Final Flow Pressure 278 189 PSI Recorder No. 10242 T-Open 1:25 P.M.

(D) Initial Shut-In Pressure 1214 1161 PSI (depth) 4655 T-Pulled 5:25 P.M.

(E) Second Initial Flow Pressure 336 193 PSI Recorder No. \_\_\_\_\_ T-Out 8:30 P.M.

(F) Second Final Flow Pressure 255 253 PSI (depth) \_\_\_\_\_ T-Off Location \_\_\_\_\_

(G) Final Shut-in Pressure 1196 1131 PSI Initial Opening 30 Test ✓ 760

(Q) Final Hydrostatic Mud 2258 2122 PSI Initial Shut-in 60 Jars \_\_\_\_\_

Final Flow 60 Safety Joint \_\_\_\_\_

Final Shut-in 90 Straddle \_\_\_\_\_

Circ. Sub ✓

Sampler \_\_\_\_\_

~~SHALE~~ Extra Packer ✓ 150

Elec. Rec. ✓ 150

Mileage \_\_\_\_\_

Other 1 Hg. ✓ 30

TOTAL PRICE \$ 4030<sup>00</sup>

Approved By St. O's

Our Representative Jimmy L. Salge

62201140.017  
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Well Name Schowalter  
DST Number 1  
Recorder Number 11058

A: 1968 2208  
B: .077 85  
C: .024 82  
D: .146 162  
E: .076 84  
F: .076 84  
G: .363 1627  
Q: 1.973 2214

Well Name Schowalter  
DST Number 2  
Recorder Number 10242

A: 2.133 2251  
B: .147 171  
C: .137 160  
D: 1.015 1108  
E: .196 228  
F: .201 234  
G: .921 1012  
Q: 2.128 2246

Well Name Schowalter  
DST Number 3  
Recorder Number 10242

A: 2189 2308  
B: .122 142  
C: .142 165  
D: .996 187  
E: .206 240  
F: .213 248  
G: .975 1066  
Q: 2.121 2240

ame Schowalter  
umber 4  
er Number 10242

.171 2291  
.131 153  
.127 148  
.908 998  
.144 168  
.144 168  
.981 1071  
2.152 2271

Well Name

Schwartz

DST Number

5

Recorder Number

10242

|    |                        |      |
|----|------------------------|------|
| A: | 2.296                  | 2418 |
| B: | 254                    | 296  |
| C: | 264                    | 308  |
| D: | <del>1.017</del> 1.146 | 1241 |
| E: | 303                    | 354  |
| F: | 321                    | 375  |
| G: | 1.117                  | 1213 |
| Q: | 2.264                  | 2386 |