

15-119-21027

18-34S-28W

## TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corp.

DATE 9-13-00

WELL NAME: Feldman "2-18"

KB 2511.00 ft

TICKET NO: 13078

DST #1

LOCATION : 18-34S-28W Meade co KS

GR 2501.00 ft

FORMATION: Morrow

INTERVAL : 5840.00 To 5871.00 ft

TD 5871.00 ft

TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 45 Rec.        | 13630  | 13630  | 3017   |     |     | PF Fr. 0905 to 0950 hr |
| SI 75 Range(Psi ) | 4325.0 | 4325.0 | 5000.0 | 0.0 | 0.0 | IS Fr. 0950 to 1105 hr |
| SF 90 Clock(hrs)  | 12 HR  | 12 HR  | Elect  |     |     | SF Fr. 1105 to 1235 hr |
| FS 120 Depth(ft ) | 5868.0 | 5868.0 | 5844.0 | 0.0 | 0.0 | FS Fr. 1235 to 1435 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2792.0 | 2784.0 | 2783.0 | 0.0 | 0.0 | T STARTED 0700 hr             |
| B. First Flow  | 83.0   | 109.0  | 63.0   | 0.0 | 0.0 | T ON BOTM 0902 hr             |
| B1. Final Flow | 110.0  | 121.0  | 84.0   | 0.0 | 0.0 | T OPEN 0905 hr                |
| C. In Shut-in  | 1981.0 | 2009.0 | 1981.0 | 0.0 | 0.0 | T PULLED 1435 hr              |
| D. Init Flow   | 119.0  | 137.0  | 65.0   | 0.0 | 0.0 | T OUT 1730 hr                 |
| E. Final Flow  | 185.0  | 193.0  | 142.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 2013.0 | 2029.0 | 1984.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2733.0 | 2795.0 | 2703.0 | 0.0 | 0.0 | Tool Wt. 1800.00 lbs          |
| Inside/Outside | I      | I      | I      |     |     | Wt Set On Packer 22000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 21000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 87000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 89000.00 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 351.00 ft         |
|                |        |        |        |     |     | D.P. Length 5490.00 ft        |

## RECOVERY

Tot Fluid 415.00 ft of 351.00 ft in DC and 64.00 ft in DP  
 5426.00 ft of Gas in pipe  
 160.00 ft of Clean Gassy Oil 20% Gas 80% oil  
 80.00 ft of Gassy Mud cut Oil  
 0.00 ft of 25% gas 67% oil 8% mud  
 145.00 ft of Gassy mud cut oil  
 0.00 ft of 20% gas 65% oil 5% water 10% mud  
 30.00 ft of Oil & Gas cut muddy Water  
 0.00 ft of 5% gas 5% oil 45% water 45% mud  
 SALINITY 19000.00 P.P.M. A.P.I. Gravity 35.00

## BLOW DESCRIPTION

## Initial Flow:

Strong bottom of bucket in 1 minute.  
 Gas to surface in 33 minutes. Gauged  
 34,700 decreasing to 28,300 CFPD in  
 45 minutes.

## Initial Shut-In:

No blow back.

## Final Flow:

Gauged 56,800 decreasing to 27,300  
 CFPD in 90 Minutes.

## Final Shut-In:

8" blow back.

Gas burned.

SAMPLES: One

SENT TO: Caraway

## MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.00 lb/c |
| Vis.       | 54.00 S/L |
| W.L.       | 8.20 in3  |
| F.C.       | 0.00 in   |
| Mud Drop Y | 10.0 ft   |

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 130.00 F |
| Hole Condition | Good     |
| % Porosity     | 14.00    |
| 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. Dave Calleweart  
 Contr. Big A  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

# GAS RECOVERY

-----

COMPANY: Eagle Creek Corp.

DATE: 9-13-00

WELL NAME: Feldman "2-18"

KB Elev: 2511.00 ft TICKET #13078 DST #1

WELL LOCATION: 18-34S-28W Meade co KS

GR Elev: 2501.00 ft FORMATION: Morrow

INTERVAL Fr.: 5840.00 To 5871.00 T.D.: 5871.00 ft TEST TYPE: CONVENTIONAL

## GAS RECOVERY MEASURED WITH Merla Orifice

### \*\*\*\*\* GAS RATES FOR FLOW #1

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 35            | 0.75            | 0                 | 6           | 34700.0        |
| 40            | 0.75            | 0                 | 5           | 31600.0        |
| 45            | 0.75            | 0                 | 4           | 28300.0        |

### \*\*\*\*\* GAS RATES FOR FLOW #2

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 10            | 0.75            | 0                 | 16          | 56800.0        |
| 20            | 0.75            | 0                 | 6           | 34700.0        |
| 30            | 0.50            | 0                 | 22          | 29400.0        |
| 40            | 0.50            | 0                 | 22          | 29400.0        |
| 50            | 0.50            | 0                 | 20          | 28000.0        |
| 60            | 0.50            | 0                 | 20          | 28000.0        |
| 70            | 0.50            | 0                 | 19          | 27300.0        |
| 80            | 0.50            | 0                 | 19          | 27300.0        |

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Feldman "2-18"

LOCATION : 18-34S-28W Meade co KS

TICKET No. 13078      D.S.T. No. 1      DATE 9-13-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 31

TOTAL TOOL . . . . . 58

DRILL COLLAR ANCHOR IN INTERVAL .....

| D.C. ANCHOR STND. | Stands | Single | Total |
|-------------------|--------|--------|-------|
| 1                 | 1      | 1      | 1     |
| 2                 | 1      | 1      | 1     |
| 3                 | 1      | 1      | 1     |
| 4                 | 1      | 1      | 1     |
| 5                 | 1      | 1      | 1     |
| 6                 | 1      | 1      | 1     |
| 7                 | 1      | 1      | 1     |
| 8                 | 1      | 1      | 1     |
| 9                 | 1      | 1      | 1     |
| 10                | 1      | 1      | 1     |
| 11                | 1      | 1      | 1     |
| 12                | 1      | 1      | 1     |
| 13                | 1      | 1      | 1     |
| 14                | 1      | 1      | 1     |
| 15                | 1      | 1      | 1     |
| 16                | 1      | 1      | 1     |
| 17                | 1      | 1      | 1     |
| 18                | 1      | 1      | 1     |
| 19                | 1      | 1      | 1     |
| 20                | 1      | 1      | 1     |
| 21                | 1      | 1      | 1     |
| 22                | 1      | 1      | 1     |
| 23                | 1      | 1      | 1     |
| 24                | 1      | 1      | 1     |
| 25                | 1      | 1      | 1     |
| 26                | 1      | 1      | 1     |
| 27                | 1      | 1      | 1     |
| 28                | 1      | 1      | 1     |
| 29                | 1      | 1      | 1     |
| 30                | 1      | 1      | 1     |
| 31                | 1      | 1      | 1     |
| 32                | 1      | 1      | 1     |
| 33                | 1      | 1      | 1     |
| 34                | 1      | 1      | 1     |
| 35                | 1      | 1      | 1     |
| 36                | 1      | 1      | 1     |
| 37                | 1      | 1      | 1     |
| 38                | 1      | 1      | 1     |
| 39                | 1      | 1      | 1     |
| 40                | 1      | 1      | 1     |
| 41                | 1      | 1      | 1     |
| 42                | 1      | 1      | 1     |
| 43                | 1      | 1      | 1     |
| 44                | 1      | 1      | 1     |
| 45                | 1      | 1      | 1     |
| 46                | 1      | 1      | 1     |
| 47                | 1      | 1      | 1     |
| 48                | 1      | 1      | 1     |
| 49                | 1      | 1      | 1     |
| 50                | 1      | 1      | 1     |
| 51                | 1      | 1      | 1     |
| 52                | 1      | 1      | 1     |
| 53                | 1      | 1      | 1     |
| 54                | 1      | 1      | 1     |
| 55                | 1      | 1      | 1     |
| 56                | 1      | 1      | 1     |
| 57                | 1      | 1      | 1     |
| 58                | 1      | 1      | 1     |
| 59                | 1      | 1      | 1     |
| 60                | 1      | 1      | 1     |
| 61                | 1      | 1      | 1     |
| 62                | 1      | 1      | 1     |
| 63                | 1      | 1      | 1     |
| 64                | 1      | 1      | 1     |
| 65                | 1      | 1      | 1     |
| 66                | 1      | 1      | 1     |
| 67                | 1      | 1      | 1     |
| 68                | 1      | 1      | 1     |
| 69                | 1      | 1      | 1     |
| 70                | 1      | 1      | 1     |
| 71                | 1      | 1      | 1     |
| 72                | 1      | 1      | 1     |
| 73                | 1      | 1      | 1     |
| 74                | 1      | 1      | 1     |
| 75                | 1      | 1      | 1     |
| 76                | 1      | 1      | 1     |
| 77                | 1      | 1      | 1     |
| 78                | 1      | 1      | 1     |
| 79                | 1      | 1      | 1     |
| 80                | 1      | 1      | 1     |
| 81                | 1      | 1      | 1     |
| 82                | 1      | 1      | 1     |
| 83                | 1      | 1      | 1     |
| 84                | 1      | 1      | 1     |
| 85                | 1      | 1      | 1     |
| 86                | 1      | 1      | 1     |
| 87                | 1      | 1      | 1     |
| 88                | 1      | 1      | 1     |
| 89                | 1      | 1      | 1     |
| 90                | 1      | 1      | 1     |
| 91                | 1      | 1      | 1     |
| 92                | 1      | 1      | 1     |
| 93                | 1      | 1      | 1     |
| 94                | 1      | 1      | 1     |
| 95                | 1      | 1      | 1     |
| 96                | 1      | 1      | 1     |
| 97                | 1      | 1      | 1     |
| 98                | 1      | 1      | 1     |
| 99                | 1      | 1      | 1     |
| 100               | 1      | 1      | 1     |

|                         |        |       |
|-------------------------|--------|-------|
| D.P. ANCHOR STND.Stands | Single | Total |
|-------------------------|--------|-------|

TOTAL ASSEMBLY . . . . .

|                         |          |           |
|-------------------------|----------|-----------|
| D.C. ABOVE TOOLS.Stands | 6 Single | Total 351 |
|-------------------------|----------|-----------|

D.P. ABOVE TOOLS.Stands 88 Single 1 Total 5490

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5899

TOTAL DEPTH ..... 5871

TOTAL DRILL PIPE ABOVE K.B. .... 28

## REMARKS :

Final 10 min. of F.F.P. Shut 2" to pressure  
up gas bottle.

Pit chlorides 2,400 PPM.

Rec chlorides 19,000 PPM.

|   |                      |      |
|---|----------------------|------|
| H | P.O. SUB Cir. sub    | 5693 |
| H | C.O. SUB Top of tool | 5813 |
|   | Double pin           | 5814 |
| H | S.I. TOOL Sterling   | 5819 |

|              |      |
|--------------|------|
| HMV Sterling | 5824 |
|--------------|------|

HJARS Bowen 5829

SAFETY JOINT Bowen 5831

PACKER Sparton 5836

PACKER Sparton 5840

|       |      |
|-------|------|
| DEPTH |      |
| 1 ft. | 5841 |

|                   |      |
|-------------------|------|
| ANCHOR 3 ft. perf | 5844 |
|-------------------|------|

|        |      |
|--------|------|
| Alpine | 5844 |
|--------|------|

|    |         |      |
|----|---------|------|
| 11 | Pu. sub | 5849 |
|----|---------|------|

|      |      |
|------|------|
| AK-1 | 5868 |
|------|------|

|              |      |
|--------------|------|
| 20 ft. perfs | 5869 |
|--------------|------|

BULLNOSE 2 ft. perf

T.D. 5871

## NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

Sample From: Feldman 2-18 DST 1  
Producer: Eagle Creek

Pressure:  
Temperature:

Time:  
Sampler: Lanny Saloga  
Source:

County: Meade  
State: Kansas  
Formation: Morrow

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.101  | 0.000 |
| Hydrogen       | H2: 0.001  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 6.422  | 0.000 |
| Carbon Dioxide | CO2: 0.069 | 0.000 |
| Methane        | C1: 65.283 | 0.000 |
| Ethane         | C2: 8.050  | 2.153 |
| Propane        | C3: 9.008  | 2.482 |
| Iso Butane     | iC4: 1.684 | 0.551 |
| Normal Butane  | nC4: 3.680 | 1.160 |
| Iso Pentane    | iC5: 1.129 | 0.413 |
| Normal Pentane | nC5: 1.358 | 0.492 |
| Hexanes Plus   | C6+: 3.215 | 1.403 |

TOTAL: 100.000 8.654

Z Fact: 0.9946

SP.GR.: 0.9241

BTU (SAT): 1453.4 @ 14.73 psia

BTU (DRY): 1479.2 @ 14.73 psia

**OCTANE RATING: 109.1**

COMMENTS:

0.000

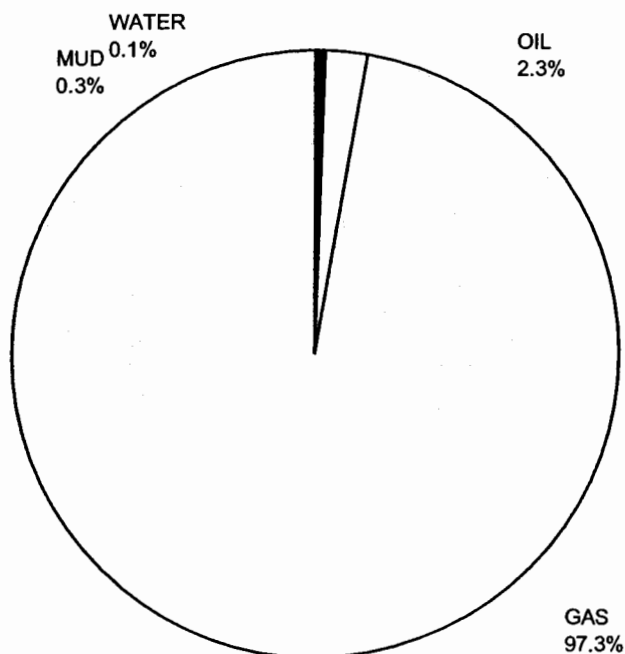
# CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13078

| SAMPLE # |   | TOTAL FEET | GAS % | FEET   | OIL % | FEET   | WATER % | FEET  | MUD % | FEET |
|----------|---|------------|-------|--------|-------|--------|---------|-------|-------|------|
| DRILL    | 1 | 5426       | 100   | 5426   | 0     | 0      | 0       | 0     | 0     | 0    |
| PIPE     | 2 | 64         | 20    | 12.8   | 80    | 51.2   | 0       | 0     | 10    | 6.4  |
|          | 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 | 96         | 20    | 19.2   | 80    | 76.8   | 0       | 0     | 0     | 0    |
| COLLARS  | 2 | 80         | 25    | 20     | 67    | 53.6   | 0       | 0     | 8     | 6.4  |
|          | 3 | 145        | 20    | 29     | 65    | 94.25  | 5       | 7.25  | 10    | 14.5 |
|          | 4 | 30         | 5     | 1.5    | 5     | 1.5    | 45      | 13.5  | 45    | 13.5 |
|          | 5 | 0          | 0     | 0      | 0     | 0      | 0       | 0     | 0     | 0    |
| TOTAL    |   | 5841       | 0     | 5508.5 | 0     | 277.35 | 0       | 20.75 | 0     | 40.8 |

BBL OIL= 1.8339375 \* HRS OPEN 1.75 = BBL/DAY 25.151143  
 BBL WATER= 0.1014675 \* = 1.3915543  
 BBL MUD= 0.259224  
 BBL GAS = 77.680569



13078 D.S.T. #1 Feldman "2-18" Eagle Creek Corp.

# TEST HISTORY

Flag Points

t(Min.) P(PSig)

|    |        |         |
|----|--------|---------|
| R: | 0.00   | 2783.19 |
| B: | 0.00   | 63.45   |
| C: | 43.50  | 84.60   |
| D: | 75.00  | 1981.48 |
| E: | 0.00   | 65.71   |
| F: | 89.75  | 142.86  |
| G: | 120.25 | 1984.58 |
| Q: | 0.00   | 2703.60 |

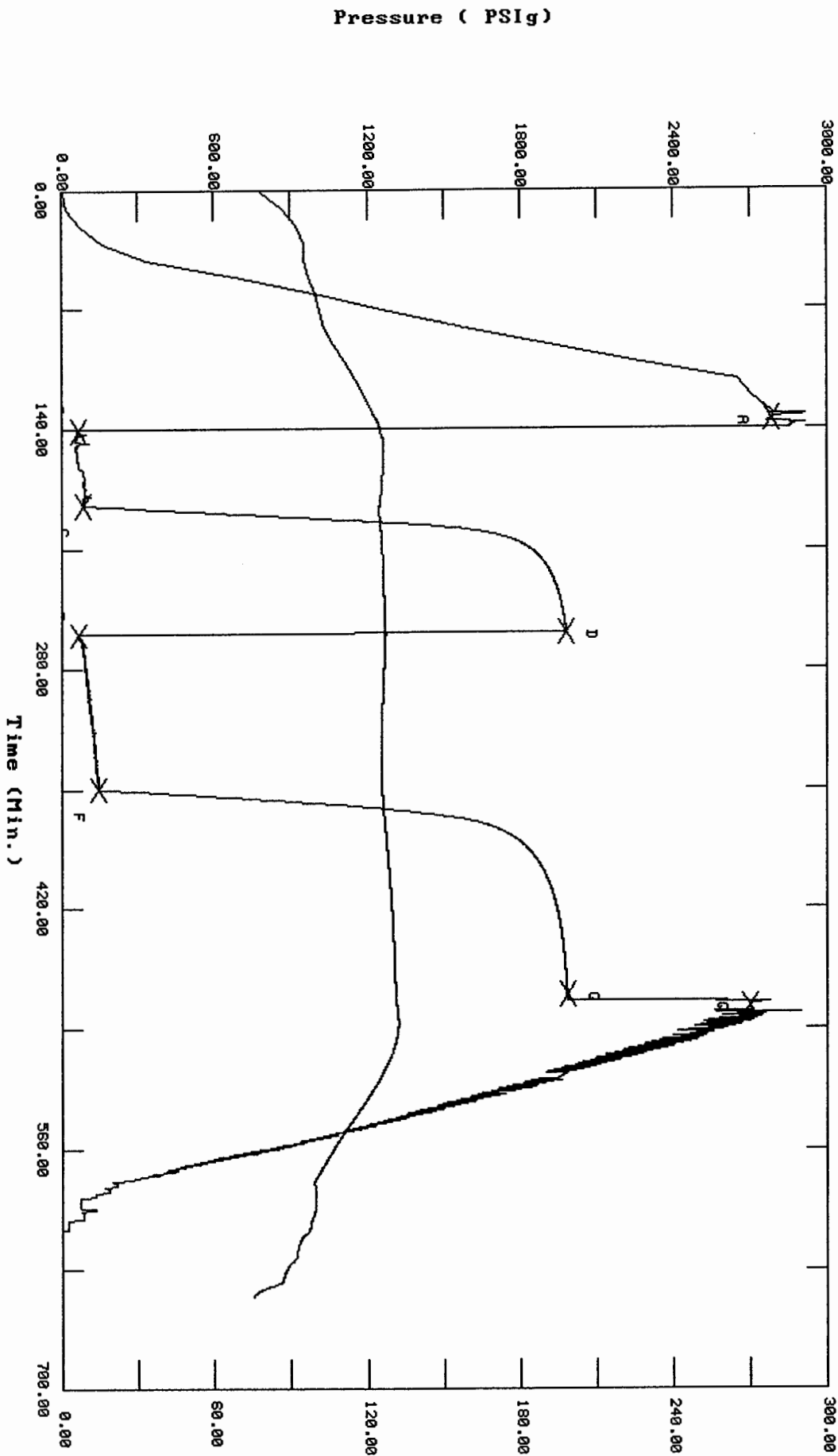
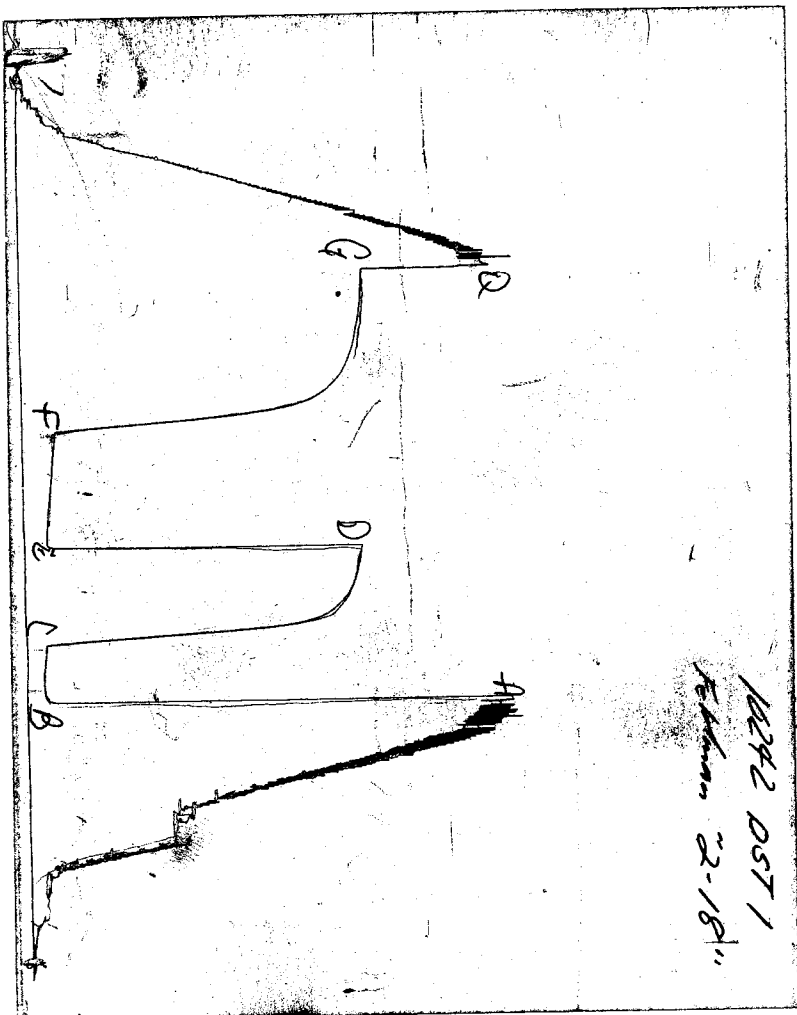


CHART PAGE



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



## GAS VOLUME REPORT

**OPERATOR**

WELL NAME AND NO.

DST NO

*I.F.P.*

F.F.P.

Remarks: *Gas burned.*

1 sample to : Caraway

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13078

## Test Ticket

|                 |                                                   |                           |                    |                 |                                              |
|-----------------|---------------------------------------------------|---------------------------|--------------------|-----------------|----------------------------------------------|
| Well Name & No. | <u>Feldman #2-18</u>                              | Test No.                  | <u>1</u>           | Date            | <u>9-13-00</u>                               |
| Company         | <u>Eagle Creek Corp.</u>                          | Zone Tested               | <u>Marrow</u>      |                 |                                              |
| Address         | <u>107 N. Market, Suite 509 Wichita Ks. 67202</u> |                           |                    |                 |                                              |
| Elevation       | <u>2511</u>                                       | KB                        | <u>2501</u>        | GL              |                                              |
| Co. Rep / Geo.  | <u>Dave Callenheart</u>                           | Cont.                     | <u>Big A Rig 1</u> | Est. Ft. of Pay | <u>10</u> Por. <u>14</u> %                   |
| Location: Sec.  | <u>18</u>                                         | Twp.                      | <u>34S</u>         | Rge.            | <u>28W</u> Co. <u>Marion</u> State <u>Ks</u> |
| No. of Copies   |                                                   | Distribution Sheet (Y, N) |                    | Turnkey (Y, N)  |                                              |
|                 |                                                   | Evaluation (Y, N)         |                    |                 |                                              |

|                     |                                                                   |                      |                 |                       |                    |
|---------------------|-------------------------------------------------------------------|----------------------|-----------------|-----------------------|--------------------|
| Interval Tested     | <u>5840-5871</u>                                                  | Initial Str Wt./Lbs. | <u>87,000</u>   | Unseated Str Wt./Lbs. | <u>89,000</u>      |
| Anchor Length       | <u>31'</u> Tool = <u>27'</u>                                      | Wt. Set Lbs.         | <u>22,000</u>   | Wt. Pulled Loose/Lbs. | <u>21,000</u>      |
| Top Packer Depth    | <u>5835</u>                                                       | Tool Weight          | <u>1,800</u>    |                       |                    |
| Bottom Packer Depth | <u>5840</u>                                                       | Hole Size — 7 7/8"   |                 | Rubber Size — 6 3/4"  |                    |
| Total Depth         | <u>5871</u>                                                       | Wt. Pipe Run         | <u>—</u>        | Drill Collar Run      | <u>351</u>         |
| Mud Wt.             | <u>9.0</u> LCM <u>2.4</u> Vis. <u>54</u> WL <u>8.2</u>            | Drill Pipe Size      | <u>4 1/2 XH</u> | Ft. Run               | <u>5490 28' up</u> |
| Blow Description    | <u>Strong OBB in Loria. GTS in 33 min. See Flow Chart. T.F.P.</u> |                      |                 |                       |                    |
|                     | <u>No blow-back T.S. T.P.</u>                                     |                      |                 |                       |                    |
|                     | <u>See Flow Chart F.E.P.</u>                                      |                      |                 |                       |                    |
|                     | <u>8" blow-back F.S. T.P.</u>                                     |                      |                 |                       |                    |

|                       |             |            |                             |                |                |                      |                                   |
|-----------------------|-------------|------------|-----------------------------|----------------|----------------|----------------------|-----------------------------------|
| Recovery — Total Feet | <u>415</u>  | GIP        | <u>5426</u>                 | Ft. in DC      | <u>351</u>     | Ft. in DP            | <u>64</u>                         |
| Rec.                  | <u>160</u>  | Feet Of    | <u>Cln Gassy Oil</u>        | <u>20</u> %gas | <u>80</u> %oil | %water               | %mud                              |
| Rec.                  | <u>80</u>   | Feet Of    | <u>Gassy mud cut oil</u>    | <u>25</u> %gas | <u>67</u> %oil | %water               | <u>8</u> %mud                     |
| Rec.                  | <u>145</u>  | Feet Of    | <u>Gassy mud cut oil</u>    | <u>20</u> %gas | <u>65</u> %oil | <u>5</u> %water      | <u>10</u> %mud                    |
| Rec.                  | <u>30</u>   | Feet Of    | <u>O.G. cut muddy water</u> | <u>5</u> %gas  | <u>5</u> %oil  | <u>45</u> %water     | <u>45</u> %mud                    |
| Rec.                  |             | Feet Of    |                             | %gas           | %oil           | %water               | %mud                              |
| BHT                   | <u>130</u>  | °F Gravity | <u>39</u>                   | °API D@        | <u>100</u>     | °F Corrected Gravity | <u>35</u> °API                    |
| RW                    | <u>0.27</u> | @          | <u>93</u>                   | °F Chlorides   | <u>19,000</u>  | ppm Recovery         | Chlorides <u>2,400</u> ppm System |

|                                  | AK-1        | Alpine      |     |                 |                     |                               |
|----------------------------------|-------------|-------------|-----|-----------------|---------------------|-------------------------------|
| (A) Initial Hydrostatic Mud      | <u>2792</u> | <u>2783</u> | PSI | Recorder No.    | <u>3017 "06=46"</u> | T-On Location <u>4:20 AM.</u> |
| (B) First Initial Flow Pressure  | <u>83</u>   | <u>63</u>   | PSI | (depth)         | <u>5844</u>         | T-Started <u>7:00 AM.</u>     |
| (C) First Final Flow Pressure    | <u>110</u>  | <u>84</u>   | PSI | Recorder No.    | <u>13630</u>        | T-Open <u>9:05 AM.</u>        |
| (D) Initial Shut-In Pressure     | <u>1981</u> | <u>1981</u> | PSI | (depth)         | <u>5868</u>         | T-Pulled <u>2:35 PM.</u>      |
| (E) Second Initial Flow Pressure | <u>119</u>  | <u>65</u>   | PSI | Recorder No.    | <u>—</u>            | T-Out <u>5:30 AM.</u>         |
| (F) Second Final Flow Pressure   | <u>185</u>  | <u>142</u>  | PSI | (depth)         | <u>—</u>            | T-Off Location <u>—</u>       |
| (G) Final Shut-in Pressure       | <u>2013</u> | <u>1984</u> | PSI | Initial Opening | <u>45</u>           | Test <u>1850</u> ✓            |
| (Q) Final Hydrostatic Mud        | <u>2733</u> | <u>2703</u> | PSI | Initial Shut-in | <u>75</u>           | Jars <u>200</u> ✓             |
|                                  |             |             |     | Final Flow      | <u>90</u>           | Safety Joint <u>50</u> ✓      |
|                                  |             |             |     | Final Shut-in   | <u>130</u>          | Straddle <u>—</u>             |

91300646.017  
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 [Signature]

Our Representative [Signature]

Circ. Sub 1  
Sampler —  
Extra Packer —  
Elec. Rec. 150 ✓  
Mileage 70 ✓ 70  
Other 3 Hrs ✓ 90  
TOTAL PRICE \$ 1410.00

TRILOBITE TESTING L.L.C.

OPERATOR : Eagle Creek Corp.

DATE 9-14-00

WELL NAME: Feldman "2-18"

KB 2511.00 ft

TICKET NO: 13079

DST #2

LOCATION : 18-34S-28W Meade co KS

GR 2501.00 ft

FORMATION: Morrow

INTERVAL : 5872.00 To 5881.00 ft

TD 5881.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins              | Field | 1   | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|-------|-----|--------|-----|-----|------------------------|
| PF 45 Rec.        |       |     | Alpine |     |     | PF Fr. 0620 to 0705 hr |
| SI 45 Range(Psi ) | 0.0   | 0.0 | 5000.0 | 0.0 | 0.0 | IS Fr. 0705 to 0750 hr |
| SF 45 Clock(hrs)  |       |     | Elect  |     |     | SF Fr. 0750 to 0835 hr |
| FS 45 Depth(ft )  | 0.0   | 0.0 | 5874.0 | 0.0 | 0.0 | FS Fr. 0835 to 0920 hr |

|                | Field | 1   | 2      | 3   | 4   |                   |
|----------------|-------|-----|--------|-----|-----|-------------------|
| A. Init Hydro  | 0.0   | 0.0 | 2793.0 | 0.0 | 0.0 | T STARTED 0335 hr |
| B. First Flow  | 0.0   | 0.0 | 21.0   | 0.0 | 0.0 | T ON BOTM 0617 hr |
| B1. Final Flow | 0.0   | 0.0 | 67.0   | 0.0 | 0.0 | T OPEN 0620 hr    |
| C. In Shut-in  | 0.0   | 0.0 | 1925.0 | 0.0 | 0.0 | T PULLED 0920 hr  |
| D. Init Flow   | 0.0   | 0.0 | 70.0   | 0.0 | 0.0 | T OUT 1200 hr     |
| E. Final Flow  | 0.0   | 0.0 | 99.0   | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 0.0   | 0.0 | 1911.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 0.0   | 0.0 | 2710.0 | 0.0 | 0.0 |                   |
| Inside/Outside |       |     | I      |     |     |                   |

RECOVERY

Tot Fluid 140.00 ft of 140.00 ft in DC and 0.00 ft in DP

25.00 ft of Mud

0.00 ft of 5% water 95% mud

115.00 ft of Water

0.00 ft of 100% water

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 50000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----

Tool Wt. 1800.00 lbs

Wt Set On Packer 22000.00 lbs

Wt Pulled Loose 13000.00 lbs

Initial Str Wt 87000.00 lbs

Unseated Str Wt 87000.00 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 351.00 ft

D.P. Length 5520.00 ft

MUD DATA-----

| Mud Type   | Chemical   |
|------------|------------|
| Weight     | 8.90 lb/c: |
| Vis.       | 58.00 S/L  |
| W.L.       | 8.20 in3   |
| F.C.       | 0.00 in    |
| Mud Drop Y | 10.0 ft    |

BLOW DESCRIPTION

Initial Flow:

Surface blow built to 2 1/2" in bucket in 45 minutes.

Final Flow:

Surface blow throughout.

Remarks: Est. 9 Ft. of Pay.

SAMPLES: None

SENT TO:

Amt. of fill 0.00 ft

Btm. H. Temp. 135.00 F

Hole Condition Good

% Porosity 15.00

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. Dave Callewaert

Contr. Big A

Rig # 1

Unit #

Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Feldman "2-18"

LOCATION : 18-34S-28W Meade co KS

TICKET No. 13079      D.S.T. No. 2      DATE 9-14-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 9

TOTAL TOOL ..... 36

DRILL COLLAR ANCHOR IN INTERVAL .....

| D.C. ANCHOR STND. | Stands | Single | Total |
|-------------------|--------|--------|-------|
| 1                 | 1      | 1      | 1     |
| 2                 | 1      | 1      | 1     |
| 3                 | 1      | 1      | 1     |
| 4                 | 1      | 1      | 1     |
| 5                 | 1      | 1      | 1     |
| 6                 | 1      | 1      | 1     |
| 7                 | 1      | 1      | 1     |
| 8                 | 1      | 1      | 1     |
| 9                 | 1      | 1      | 1     |
| 10                | 1      | 1      | 1     |
| 11                | 1      | 1      | 1     |
| 12                | 1      | 1      | 1     |
| 13                | 1      | 1      | 1     |
| 14                | 1      | 1      | 1     |
| 15                | 1      | 1      | 1     |
| 16                | 1      | 1      | 1     |
| 17                | 1      | 1      | 1     |
| 18                | 1      | 1      | 1     |
| 19                | 1      | 1      | 1     |
| 20                | 1      | 1      | 1     |
| 21                | 1      | 1      | 1     |
| 22                | 1      | 1      | 1     |
| 23                | 1      | 1      | 1     |
| 24                | 1      | 1      | 1     |
| 25                | 1      | 1      | 1     |
| 26                | 1      | 1      | 1     |
| 27                | 1      | 1      | 1     |
| 28                | 1      | 1      | 1     |
| 29                | 1      | 1      | 1     |
| 30                | 1      | 1      | 1     |
| 31                | 1      | 1      | 1     |
| 32                | 1      | 1      | 1     |
| 33                | 1      | 1      | 1     |
| 34                | 1      | 1      | 1     |
| 35                | 1      | 1      | 1     |
| 36                | 1      | 1      | 1     |
| 37                | 1      | 1      | 1     |
| 38                | 1      | 1      | 1     |
| 39                | 1      | 1      | 1     |
| 40                | 1      | 1      | 1     |
| 41                | 1      | 1      | 1     |
| 42                | 1      | 1      | 1     |
| 43                | 1      | 1      | 1     |
| 44                | 1      | 1      | 1     |
| 45                | 1      | 1      | 1     |
| 46                | 1      | 1      | 1     |
| 47                | 1      | 1      | 1     |
| 48                | 1      | 1      | 1     |
| 49                | 1      | 1      | 1     |
| 50                | 1      | 1      | 1     |
| 51                | 1      | 1      | 1     |
| 52                | 1      | 1      | 1     |
| 53                | 1      | 1      | 1     |
| 54                | 1      | 1      | 1     |
| 55                | 1      | 1      | 1     |
| 56                | 1      | 1      | 1     |
| 57                | 1      | 1      | 1     |
| 58                | 1      | 1      | 1     |
| 59                | 1      | 1      | 1     |
| 60                | 1      | 1      | 1     |
| 61                | 1      | 1      | 1     |
| 62                | 1      | 1      | 1     |
| 63                | 1      | 1      | 1     |
| 64                | 1      | 1      | 1     |
| 65                | 1      | 1      | 1     |
| 66                | 1      | 1      | 1     |
| 67                | 1      | 1      | 1     |
| 68                | 1      | 1      | 1     |
| 69                | 1      | 1      | 1     |
| 70                | 1      | 1      | 1     |
| 71                | 1      | 1      | 1     |
| 72                | 1      | 1      | 1     |
| 73                | 1      | 1      | 1     |
| 74                | 1      | 1      | 1     |
| 75                | 1      | 1      | 1     |
| 76                | 1      | 1      | 1     |
| 77                | 1      | 1      | 1     |
| 78                | 1      | 1      | 1     |
| 79                | 1      | 1      | 1     |
| 80                | 1      | 1      | 1     |
| 81                | 1      | 1      | 1     |
| 82                | 1      | 1      | 1     |
| 83                | 1      | 1      | 1     |
| 84                | 1      | 1      | 1     |
| 85                | 1      | 1      | 1     |
| 86                | 1      | 1      | 1     |
| 87                | 1      | 1      | 1     |
| 88                | 1      | 1      | 1     |
| 89                | 1      | 1      | 1     |
| 90                | 1      | 1      | 1     |
| 91                | 1      | 1      | 1     |
| 92                | 1      | 1      | 1     |
| 93                | 1      | 1      | 1     |
| 94                | 1      | 1      | 1     |
| 95                | 1      | 1      | 1     |
| 96                | 1      | 1      | 1     |
| 97                | 1      | 1      | 1     |
| 98                | 1      | 1      | 1     |
| 99                | 1      | 1      | 1     |
| 100               | 1      | 1      | 1     |

|                         |        |       |
|-------------------------|--------|-------|
| D.P. ANCHOR STND.Stands | Single | Total |
|-------------------------|--------|-------|

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 6 Single Total 351

D.P. ABOVE TOOLS.Stands 89 Single      Total 5520

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5907

TOTAL DEPTH ..... 5881

TOTAL DRILL PIPE ABOVE K.B. .... 26

## REMARKS:

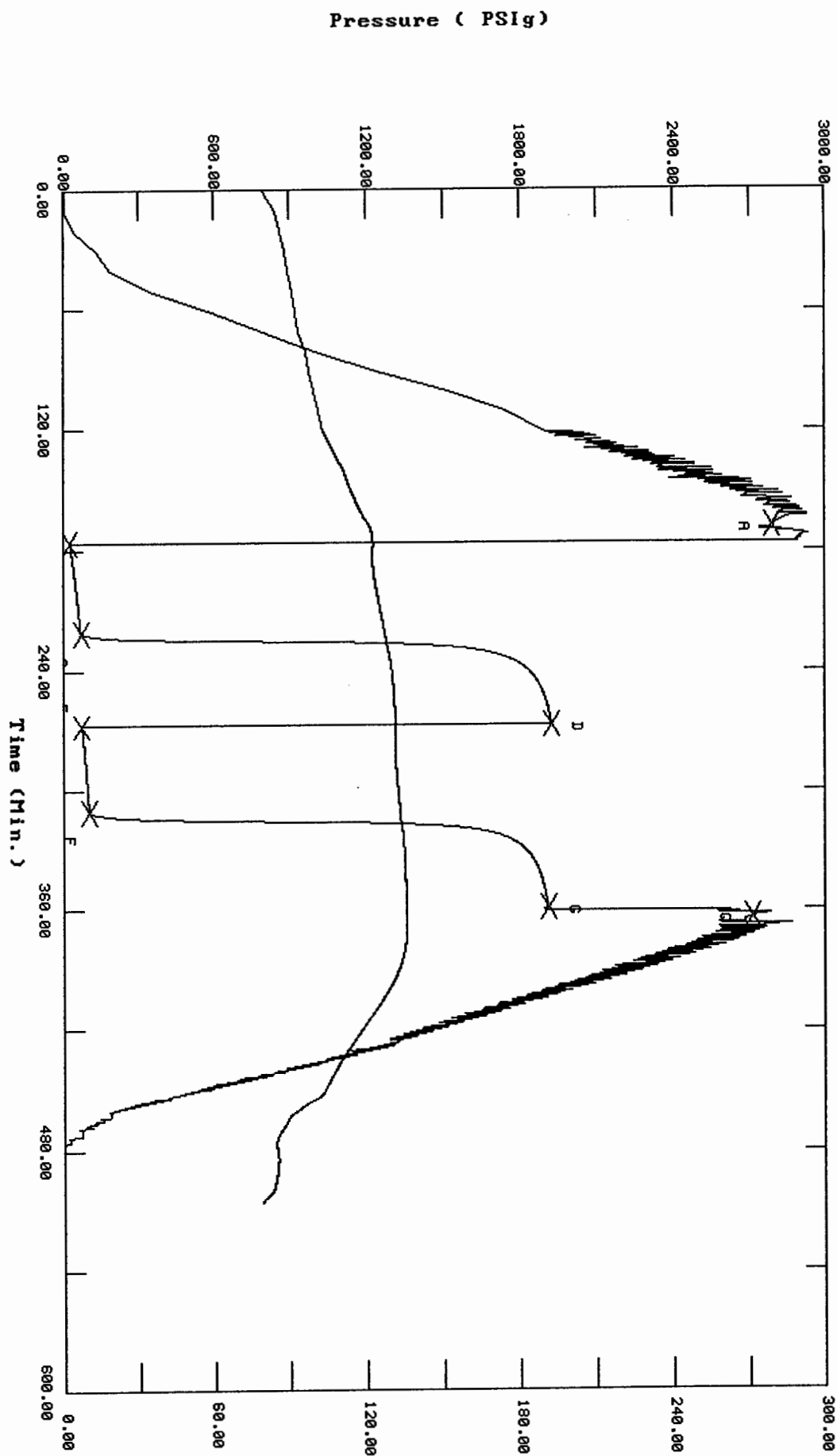
Pit chlorides 2,400 PPM.

Rec chlorides 50,000 PPM. RW 0.13 at 83 F.

[illegible]

# TEST HISTORY

13079 D.S.T.#2 Feldman "2-18" Eagle Creek Corp.



Flag Points

| t (Min.) | P (PSig) |
|----------|----------|
| R: 0.00  | 2793.44  |
| B: 0.00  | 21.77    |
| C: 44.50 | 67.50    |
| D: 46.50 | 1925.30  |
| E: 0.00  | 70.56    |
| F: 43.25 | 99.42    |
| G: 48.00 | 1911.76  |
| Q: 0.00  | 2710.49  |

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13079

## Test Ticket

|                 |                          |                           |                    |                 |                                             |
|-----------------|--------------------------|---------------------------|--------------------|-----------------|---------------------------------------------|
| Well Name & No. | <u>Feldman "2-18"</u>    | Test No.                  | <u>2</u>           | Date            | <u>9-14-00</u>                              |
| Company         | <u>Eagle Creek Corp.</u> | Zone Tested               | <u>Normal</u>      |                 |                                             |
| Address         | <u>Wichita KS 67202</u>  | Elevation                 | <u>2511</u>        | KB              | <u>2501</u> GL                              |
| Co. Rep / Geo.  | <u>Dave Calloway</u>     | Cont.                     | <u>Big A Rig 1</u> | Est. Ft. of Pay | <u>9</u> Por. <u>15</u> %                   |
| Location: Sec.  | <u>18</u>                | Twp.                      | <u>34.5</u>        | Rge.            | <u>28W</u> Co. <u>Moabe</u> State <u>KS</u> |
| No. of Copies   | <u>Reg</u>               | Distribution Sheet (Y, N) | <u>N</u>           | Turnkey (Y, N)  | <u>N</u> Evaluation (Y, N) <u></u>          |

|                     |                                                               |                      |                 |                       |                    |
|---------------------|---------------------------------------------------------------|----------------------|-----------------|-----------------------|--------------------|
| Interval Tested     | <u>5872-5881</u>                                              | Initial Str Wt./Lbs. | <u>87,000</u>   | Unseated Str Wt./Lbs. | <u>87,000</u>      |
| Anchor Length       | <u>9'</u> Tool = <u>27'</u>                                   | Wt. Set Lbs.         | <u>22,000</u>   | Wt. Pulled Loose/Lbs. | <u>13,000</u>      |
| Top Packer Depth    | <u>5867</u>                                                   | Tool Weight          | <u>1,800</u>    |                       |                    |
| Bottom Packer Depth | <u>5872</u>                                                   | Hole Size — 7 7/8"   |                 | Rubber Size — 6 3/4"  |                    |
| Total Depth         | <u>5881</u>                                                   | Wt. Pipe Run         | <u>89</u>       | Drill Collar Run      | <u>351</u>         |
| Mud Wt.             | <u>8.9</u> LCM <u>2#</u> Vis. <u>58</u> WL <u>8.2</u>         | Drill Pipe Size      | <u>4 1/2 XH</u> | Ft. Run               | <u>5520</u> 26' up |
| Blow Description    | <u>Surface blow built to 2 1/4" in bucket. 45 min. T.F.P.</u> |                      |                 |                       |                    |

Surface blow throughout. F.F.P.

|                       |             |              |               |              |                      |              |            |         |
|-----------------------|-------------|--------------|---------------|--------------|----------------------|--------------|------------|---------|
| Recovery — Total Feet | <u>140</u>  | GIP          | <u>0</u>      | Ft. in DC    | <u>140</u>           | Ft. in DP    | <u>0</u>   |         |
| Rec. <u>25</u>        | Feet Of     | <u>Mud</u>   | %gas          | %oil         | <u>5</u>             | %water       | <u>85</u>  | %mud    |
| Rec. <u>115</u>       | Feet Of     | <u>Wt.</u>   | %gas          | %oil         | <u>100</u>           | %water       |            | %mud    |
| Rec. <u></u>          | Feet Of     |              | %gas          | %oil         |                      | %water       |            | %mud    |
| Rec. <u></u>          | Feet Of     |              | %gas          | %oil         |                      | %water       |            | %mud    |
| Rec. <u></u>          | Feet Of     |              | %gas          | %oil         |                      | %water       |            | %mud    |
| BHT <u>135</u>        | °F Gravity  | <u></u>      | °API D@       | <u></u>      | °F Corrected Gravity | <u></u>      | °API       | <u></u> |
| RW <u>0.13</u>        | @ <u>83</u> | °F Chlorides | <u>50,000</u> | ppm Recovery | Chlorides            | <u>2,400</u> | ppm System | <u></u> |

|                                  |             |        |                 |                     |                |                  |  |
|----------------------------------|-------------|--------|-----------------|---------------------|----------------|------------------|--|
|                                  | AK-1        | Alpine |                 |                     |                |                  |  |
| (A) Initial Hydrostatic Mud      | <u>2793</u> | PSI    | Recorder No.    | <u>3017 "02:23"</u> | T-On Location  | <u>2:30 AM.</u>  |  |
| (B) First Initial Flow Pressure  | <u>21</u>   | PSI    | (depth)         | <u>5874</u>         | T-Started      | <u>3:35 AM.</u>  |  |
| (C) First Final Flow Pressure    | <u>67</u>   | PSI    | Recorder No.    | <u></u>             | T-Open         | <u>6:20 AM.</u>  |  |
| (D) Initial Shut-In Pressure     | <u>1925</u> | PSI    | (depth)         | <u></u>             | T-Pulled       | <u>9:20 AM.</u>  |  |
| (E) Second Initial Flow Pressure | <u>70</u>   | PSI    | Recorder No.    | <u></u>             | T-Out          | <u>12:00 PM.</u> |  |
| (F) Second Final Flow Pressure   | <u>99</u>   | PSI    | (depth)         | <u></u>             | T-Off Location | <u></u>          |  |
| (G) Final Shut-in Pressure       | <u>1911</u> | PSI    | Initial Opening | <u>45</u>           | Test           | <u>1850</u> ✓    |  |
| (Q) Final Hydrostatic Mud        | <u>2710</u> | PSI    | Initial Shut-in | <u>45</u>           | Jars           | <u>1200</u> ✓    |  |
|                                  |             |        | Final Flow      | <u>45</u>           | Safety Joint   | <u>150</u> ✓     |  |
|                                  |             |        | Final Shut-in   | <u>45</u>           | Straddle       | <u></u>          |  |
|                                  |             |        |                 |                     | Circ. Sub      | <u>1</u>         |  |
|                                  |             |        |                 |                     | Sampler        | <u></u>          |  |
|                                  |             |        |                 |                     | Extra Packer   | <u></u>          |  |
|                                  |             |        |                 |                     | Elec. Rec.     | <u>150</u> ✓     |  |
|                                  |             |        |                 |                     | Mileage        | <u>70</u> 70 ✓   |  |
|                                  |             |        |                 |                     | Other          | <u></u>          |  |
|                                  |             |        |                 |                     | TOTAL PRICE \$ | <u>4,320.00</u>  |  |

91400323.017  
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 [Signature]

Our Representative [Signature]