

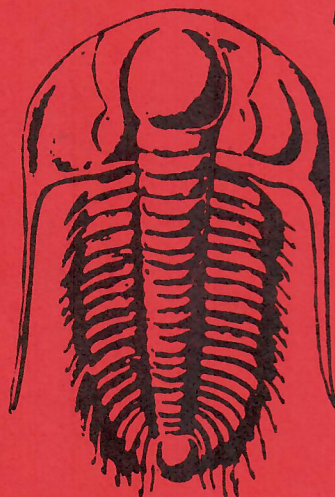


00554374

RECEIVED

JAN - 3 1977

Regulatory
Department



**TRILOBITE
TESTING, L.L.C.**

TEST REPORT

(Includes All DST's)

RECEIVED

JUL 15 1997

NO, OIL & GAS CONS. COM

WELL NAME:
COMPANY:
LOCATION:

DATE:

Rother 13-29 #1
Union Pacific Resources Company
29-16S-42W
Cheyenne County Colorado
05/28/97

RECEIVED

JUN - 3 1997

Regulatory
Department

TRILOBITE TESTING L.L.C.

OPERATOR : Union Pacific Res. Co.

DATE 5-24-97

WELL NAME: Rother 13-29 #1

KB 4018.00 ft

TICKET NO: 9989

DST #1

LOCATION : 29-16S-42W Cheyenne CO.

GR 4005.00 ft

FORMATION: Arbuckle-Reagan Sand

INTERVAL : 6156.00 To 6250.00 ft

TD 6250.00 ft

TEST TYPE: CONV

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec. | 13339 | 13339 | 2341 | | | PF Fr. 1200 to 1215 hr |
| SI 30 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1215 to 1245 hr |
| SF 60 Clock(hrs) | 12 Hr | 12 HR | Elec | | | SF Fr. 1245 to 1345 hr |
| FS 60 Depth(ft) | 6245.0 | 6245.0 | 6145.0 | 0.0 | 0.0 | FS Fr. 1345 to 1445 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|--------|-----|-----|-------------------|
| A. Init Hydro | 3098.0 | 3131.0 | 3007.0 | 0.0 | 0.0 | T STARTED 0910 hr |
| B. First Flow | 83.0 | 127.0 | 22.0 | 0.0 | 0.0 | T ON BOTM 1158 hr |
| B1. Final Flow | 83.0 | 101.0 | 23.0 | 0.0 | 0.0 | T OPEN 1200 hr |
| C. In Shut-in | 889.0 | 923.0 | 904.0 | 0.0 | 0.0 | T PULLED 1445 hr |
| D. Init Flow | 83.0 | 131.0 | 26.0 | 0.0 | 0.0 | T OUT 1730 hr |
| E. Final Flow | 83.0 | 106.0 | 28.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 889.0 | 907.0 | 894.0 | 0.0 | 0.0 | |
| G. Final Hydro | 2880.0 | 2838.0 | 2792.0 | 0.0 | 0.0 | |
| Inside/Outside | O | O | I | | | |

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
 20.00 ft of Drilling 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 RW 3.5 @ 100 deg =
 SALINITY 1100.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
 Tool Wt. 2300.00 lbs
 Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 130000.00 lbs
 Initial Str Wt 105000.00 lbs
 Unseated Str Wt 105000.00 lbs
 Bot Choke 0.75 in
 Hole Size 6.50 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 4911.00 ft
 H.W. I.D. 2.70 in
 H.W. Length 1225.00 ft

BLOW DESCRIPTION

Initial flow:
 Weak 1/4" blow with slight decrease

Initial Shut In:
 No blow

Final Flow:
 No return blow

Final Shut In:
 No blow

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 8.80 lb/c
 Vis. 53.00 S/L
 W.L. 7.20 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 152.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 5.50 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Rod Steinbrink
 Co. Rep. Jack Parrott
 Contr. Murfin
 Rig # 25
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Rother 13-29 #1

LOCATION : 29-16S-42W Cheyenne CO.

TICKET No. 9989 D.S.T. No. 1 DATE 5-24-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 32

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 2 Total 62

TOTAL ASSEMBLY 124

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands65 Single 2 Total 6136

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6260

TOTAL DEPTH 6250

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

Sampler Data;

Gas;

Oil;

Water;

Mud; 4000 ml.

Total Volume; 4000 ml.

Pressure; 10 # psi

P.O. SUB 1' Above 90' WP 6036
C.O. SUB 1' 6126

S.I. TOOL 5' 6132

3' Sampler 6135

HMV 5' 6140

JARS 5' 6145

SAFETY JOINT 2' 6147

PACKER Top 4' 6151

PACKER Bottom 5' 6156

DEPTH
STUBB 1' 6157

ANCHOR
Alp. Rec. @ 6158

24' Perf. 6181

62' DP 6243

T.C.
DEPTH

AK-1 Rec. @ 6245
2' Perf. 6245

BULLNOSE 5'

T.D. 6250

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9989 DST #1 Rother #1 13-29 UPRC

DATE: 05/24/97

TIME: 09:10:32

| | Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|--------|------------------|-----------------|----------------|-----------|----------|
| ***** Initial Hydro. | 167.00 | 3007.5 | 0.0 | 149.36 | | |
| ***** Start Flow 1 | 0.00 | 22.5 | 0.0 | 149.38 | | |
| | 1.00 | 53.4 | 30.9 | 149.44 | | |
| | 2.00 | 50.5 | 28.0 | 149.41 | | |
| | 3.00 | 22.5 | -0.0 | 149.37 | | |
| | 4.00 | 22.8 | 0.3 | 149.34 | | |
| | 5.00 | 23.0 | 0.5 | 149.31 | | |
| | 6.00 | 23.1 | 0.6 | 149.30 | | |
| | 7.00 | 23.1 | 0.6 | 149.31 | | |
| | 8.00 | 23.3 | 0.8 | 149.33 | | |
| | 9.00 | 23.3 | 0.8 | 149.36 | | |
| | 10.00 | 23.6 | 1.1 | 149.40 | | |
| | 11.00 | 23.6 | 1.1 | 149.47 | | |
| | 12.00 | 23.6 | 1.1 | 149.51 | | |
| | 13.00 | 27.1 | 4.6 | 149.55 | | |
| | 14.00 | 35.5 | 13.0 | 149.63 | | |
| | 15.00 | 24.1 | 1.6 | 149.73 | | |
| | 16.00 | 24.1 | 1.6 | 149.82 | | |
| | 17.00 | 24.3 | 1.8 | 149.91 | | |
| ***** End Flow 1 | 18.00 | 23.0 | 0.5 | 149.98 | | |
| ***** Start Shutin 1 | 0.00 | 23.0 | 0.0 | 149.98 | 0.0000 | 0.001 |
| | 1.00 | 31.3 | 8.3 | 150.05 | 19.0000 | 0.001 |
| | 2.00 | 43.7 | 20.7 | 150.11 | 10.0000 | 0.002 |
| | 3.00 | 64.6 | 41.5 | 150.13 | 7.0000 | 0.004 |
| | 4.00 | 99.0 | 75.9 | 150.22 | 5.5000 | 0.01 |
| | 5.00 | 145.4 | 122.4 | 150.31 | 4.6000 | 0.021 |
| | 6.00 | 195.2 | 172.1 | 150.36 | 4.0000 | 0.038 |
| | 7.00 | 246.0 | 223.0 | 150.39 | 3.5714 | 0.061 |
| | 8.00 | 294.2 | 271.1 | 150.43 | 3.2500 | 0.087 |
| | 9.00 | 341.5 | 318.4 | 150.48 | 3.0000 | 0.117 |
| | 10.00 | 386.6 | 363.5 | 150.52 | 2.8000 | 0.149 |
| | 11.00 | 429.5 | 406.4 | 150.56 | 2.6364 | 0.184 |
| | 12.00 | 470.4 | 447.3 | 150.61 | 2.5000 | 0.221 |
| | 13.00 | 509.2 | 486.1 | 150.65 | 2.3846 | 0.259 |
| | 14.00 | 546.3 | 523.2 | 150.67 | 2.2857 | 0.298 |
| | 15.00 | 581.6 | 558.5 | 150.72 | 2.2000 | 0.338 |
| | 16.00 | 615.3 | 592.2 | 150.77 | 2.1250 | 0.379 |
| | 17.00 | 647.3 | 624.3 | 150.80 | 2.0588 | 0.419 |
| | 18.00 | 677.6 | 654.5 | 150.82 | 2.0000 | 0.459 |
| | 19.00 | 705.0 | 682.0 | 150.87 | 1.9474 | 0.497 |
| | 20.00 | 733.7 | 710.7 | 150.88 | 1.9000 | 0.538 |
| | 21.00 | 761.0 | 737.9 | 150.92 | 1.8571 | 0.579 |
| | 22.00 | 787.4 | 764.4 | 150.95 | 1.8182 | 0.620 |
| | 23.00 | 812.7 | 789.7 | 150.97 | 1.7826 | 0.661 |
| | 24.00 | 835.8 | 812.8 | 151.00 | 1.7500 | 0.699 |
| | 25.00 | 859.4 | 836.4 | 151.04 | 1.7200 | 0.739 |
| | 26.00 | 882.0 | 858.9 | 151.04 | 1.6923 | 0.778 |
| ***** End Shut-in 1 | 27.00 | 903.7 | 880.7 | 151.09 | 1.6667 | 0.817 |
| ***** Start Flow 2 | 0.00 | 25.8 | 0.0 | 151.09 | | |
| | 1.00 | 26.0 | 0.2 | 151.05 | | |
| | 2.00 | 26.1 | 0.3 | 151.07 | | |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9989 DST #1 Rother #1 13-29 UPRC

DATE: 05/24/97

TIME: 09:10:32

| Time | Pressure PSig | delta P PSig | Temp. DEG F | (T+dT)/dT | P^2/10^6 |
|-------|------------------|-----------------|----------------|-----------|----------|
| 3.00 | 26.1 | 0.3 | 151.02 | | |
| 4.00 | 25.9 | 0.1 | 151.04 | | |
| 5.00 | 25.9 | 0.1 | 151.07 | | |
| 6.00 | 26.0 | 0.2 | 151.07 | | |
| 7.00 | 25.9 | 0.1 | 151.06 | | |
| 8.00 | 26.0 | 0.2 | 151.09 | | |
| 9.00 | 25.9 | 0.1 | 151.13 | | |
| 10.00 | 26.1 | 0.3 | 151.12 | | |
| 11.00 | 26.2 | 0.4 | 151.14 | | |
| 12.00 | 26.2 | 0.4 | 151.15 | | |
| 13.00 | 26.2 | 0.4 | 151.15 | | |
| 14.00 | 26.2 | 0.4 | 151.15 | | |
| 15.00 | 26.3 | 0.5 | 151.16 | | |
| 16.00 | 26.3 | 0.5 | 151.18 | | |
| 17.00 | 26.3 | 0.5 | 151.17 | | |
| 18.00 | 26.4 | 0.6 | 151.19 | | |
| 19.00 | 26.4 | 0.6 | 151.20 | | |
| 20.00 | 26.4 | 0.6 | 151.22 | | |
| 21.00 | 26.5 | 0.7 | 151.25 | | |
| 22.00 | 26.6 | 0.8 | 151.25 | | |
| 23.00 | 26.9 | 1.1 | 151.26 | | |
| 24.00 | 26.7 | 0.9 | 151.29 | | |
| 25.00 | 26.9 | 1.1 | 151.30 | | |
| 26.00 | 26.8 | 1.0 | 151.32 | | |
| 27.00 | 26.7 | 0.9 | 151.33 | | |
| 28.00 | 27.0 | 1.2 | 151.36 | | |
| 29.00 | 27.1 | 1.3 | 151.35 | | |
| 30.00 | 27.3 | 1.5 | 151.38 | | |
| 31.00 | 27.6 | 1.8 | 151.40 | | |
| 32.00 | 27.4 | 1.6 | 151.41 | | |
| 33.00 | 27.4 | 1.6 | 151.43 | | |
| 34.00 | 27.6 | 1.8 | 151.45 | | |
| 35.00 | 27.8 | 1.9 | 151.45 | | |
| 36.00 | 27.7 | 1.9 | 151.47 | | |
| 37.00 | 27.8 | 2.0 | 151.47 | | |
| 38.00 | 29.6 | 3.8 | 151.49 | | |
| 39.00 | 27.6 | 1.8 | 151.50 | | |
| 40.00 | 27.9 | 2.1 | 151.51 | | |
| 41.00 | 27.8 | 2.0 | 151.54 | | |
| 42.00 | 27.8 | 2.0 | 151.55 | | |
| 43.00 | 27.9 | 2.1 | 151.56 | | |
| 44.00 | 27.8 | 2.0 | 151.58 | | |
| 45.00 | 27.8 | 2.0 | 151.59 | | |
| 46.00 | 27.7 | 1.9 | 151.62 | | |
| 47.00 | 27.6 | 1.8 | 151.62 | | |
| 48.00 | 27.7 | 1.9 | 151.64 | | |
| 49.00 | 27.8 | 2.0 | 151.64 | | |
| 50.00 | 27.7 | 1.9 | 151.66 | | |
| 51.00 | 27.7 | 1.9 | 151.67 | | |
| 52.00 | 27.7 | 1.9 | 151.68 | | |
| 53.00 | 27.9 | 2.1 | 151.70 | | |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9989 DST #1 Rother #1 13-29 UPRC

DATE: 05/24/97

TIME: 09:10:32

| | Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
| | 54.00 | 27.9 | 2.1 | 151.71 | | |
| | 55.00 | 29.8 | 4.0 | 151.73 | | |
| | 56.00 | 31.8 | 6.0 | 151.75 | | |
| | 57.00 | 29.3 | 3.5 | 151.77 | | |
| | 58.00 | 31.6 | 5.8 | 151.79 | | |
| ***** End Flow 2 | 59.00 | 27.9 | 2.1 | 151.80 | | |
| ***** Start Shutin 2 | 0.00 | 27.9 | 0.0 | 151.80 | 0.0000 | 0.001 |
| | 1.00 | 28.6 | 0.6 | 151.81 | 78.0000 | 0.001 |
| | 2.00 | 34.1 | 6.2 | 151.82 | 39.5000 | 0.001 |
| | 3.00 | 41.1 | 13.2 | 151.84 | 26.6667 | 0.002 |
| | 4.00 | 49.8 | 21.9 | 151.86 | 20.2500 | 0.002 |
| | 5.00 | 60.8 | 32.9 | 151.88 | 16.4000 | 0.004 |
| | 6.00 | 74.4 | 46.5 | 151.89 | 13.8333 | 0.006 |
| | 7.00 | 90.7 | 62.7 | 151.90 | 12.0000 | 0.008 |
| | 8.00 | 109.2 | 81.3 | 151.92 | 10.6250 | 0.012 |
| | 9.00 | 129.8 | 101.9 | 151.94 | 9.5556 | 0.017 |
| | 10.00 | 151.6 | 123.7 | 151.96 | 8.7000 | 0.023 |
| | 11.00 | 174.2 | 146.2 | 151.96 | 8.0000 | 0.030 |
| | 12.00 | 197.1 | 169.2 | 151.98 | 7.4167 | 0.039 |
| | 13.00 | 219.4 | 191.5 | 152.01 | 6.9231 | 0.048 |
| | 14.00 | 242.2 | 214.3 | 152.02 | 6.5000 | 0.059 |
| | 15.00 | 264.6 | 236.7 | 152.03 | 6.1333 | 0.070 |
| | 16.00 | 286.7 | 258.8 | 152.04 | 5.8125 | 0.082 |
| | 17.00 | 308.3 | 280.4 | 152.07 | 5.5294 | 0.095 |
| | 18.00 | 329.4 | 301.5 | 152.08 | 5.2778 | 0.109 |
| | 19.00 | 350.2 | 322.3 | 152.09 | 5.0526 | 0.123 |
| | 20.00 | 370.2 | 342.3 | 152.11 | 4.8500 | 0.137 |
| | 21.00 | 389.8 | 361.9 | 152.13 | 4.6667 | 0.152 |
| | 22.00 | 408.9 | 381.0 | 152.14 | 4.5000 | 0.167 |
| | 23.00 | 427.5 | 399.5 | 152.16 | 4.3478 | 0.183 |
| | 24.00 | 445.8 | 417.9 | 152.17 | 4.2083 | 0.199 |
| | 25.00 | 463.3 | 435.4 | 152.18 | 4.0800 | 0.215 |
| | 26.00 | 480.6 | 452.6 | 152.20 | 3.9615 | 0.231 |
| | 27.00 | 497.4 | 469.5 | 152.21 | 3.8519 | 0.247 |
| | 28.00 | 513.8 | 485.9 | 152.22 | 3.7500 | 0.264 |
| | 29.00 | 529.8 | 501.9 | 152.24 | 3.6552 | 0.281 |
| | 30.00 | 545.4 | 517.5 | 152.25 | 3.5667 | 0.297 |
| | 31.00 | 560.6 | 532.7 | 152.28 | 3.4839 | 0.314 |
| | 32.00 | 575.5 | 547.6 | 152.28 | 3.4062 | 0.331 |
| | 33.00 | 590.1 | 562.2 | 152.30 | 3.3333 | 0.348 |
| | 34.00 | 604.3 | 576.4 | 152.30 | 3.2647 | 0.365 |
| | 35.00 | 618.2 | 590.3 | 152.33 | 3.2000 | 0.382 |
| | 36.00 | 631.9 | 604.0 | 152.34 | 3.1389 | 0.399 |
| | 37.00 | 645.2 | 617.2 | 152.35 | 3.0811 | 0.416 |
| | 38.00 | 658.2 | 630.3 | 152.37 | 3.0263 | 0.433 |
| | 39.00 | 670.9 | 642.9 | 152.36 | 2.9744 | 0.450 |
| | 40.00 | 683.4 | 655.5 | 152.39 | 2.9250 | 0.467 |
| | 41.00 | 695.6 | 667.7 | 152.40 | 2.8780 | 0.484 |
| | 42.00 | 707.5 | 679.6 | 152.39 | 2.8333 | 0.501 |
| | 43.00 | 719.2 | 691.3 | 152.44 | 2.7907 | 0.517 |
| | 44.00 | 730.6 | 702.7 | 152.44 | 2.7500 | 0.534 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9989 DST #1 Rother #1 13-29 UPRC

DATE: 05/24/97

TIME: 09:10:32

| Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P^2/10^6 | |
|---------------------|------------------|-----------------|----------------|-----------|----------|-------|
| 45.00 | 741.8 | 713.9 | 152.44 | 2.7111 | 0.550 | |
| 46.00 | 752.9 | 724.9 | 152.47 | 2.6739 | 0.567 | |
| 47.00 | 763.6 | 735.6 | 152.49 | 2.6383 | 0.583 | |
| 48.00 | 774.1 | 746.1 | 152.48 | 2.6042 | 0.599 | |
| 49.00 | 784.5 | 756.5 | 152.48 | 2.5714 | 0.615 | |
| 50.00 | 794.6 | 766.7 | 152.50 | 2.5400 | 0.631 | |
| 51.00 | 804.6 | 776.7 | 152.52 | 2.5098 | 0.647 | |
| 52.00 | 814.3 | 786.4 | 152.53 | 2.4808 | 0.663 | |
| 53.00 | 823.9 | 796.0 | 152.54 | 2.4528 | 0.679 | |
| 54.00 | 833.4 | 805.5 | 152.54 | 2.4259 | 0.695 | |
| 55.00 | 842.6 | 814.7 | 152.56 | 2.4000 | 0.710 | |
| 56.00 | 851.6 | 823.7 | 152.59 | 2.3750 | 0.725 | |
| 57.00 | 860.5 | 832.6 | 152.59 | 2.3509 | 0.740 | |
| 58.00 | 869.1 | 841.2 | 152.63 | 2.3276 | 0.755 | |
| 59.00 | 877.6 | 849.7 | 152.59 | 2.3051 | 0.770 | |
| 60.00 | 886.1 | 858.1 | 152.62 | 2.2833 | 0.785 | |
| ***** End Shut-in 2 | 61.00 | 894.3 | 866.3 | 152.63 | 2.2623 | 0.800 |

***** Final Hydro. 337.00 2792.5 0.0 152.82

TEST HISTORY

9989 DST #1 Rother #1 13-29 UPRC

Flag Points

| | t (Min.) | P (PSig) |
|----|----------|----------|
| A: | 0.00 | 3007.49 |
| B: | 0.00 | 22.50 |
| C: | 18.00 | 23.05 |
| D: | 27.00 | 903.70 |
| E: | 0.00 | 25.00 |
| F: | 59.00 | 27.92 |
| G: | 61.00 | 894.25 |
| Q: | 0.00 | 2792.48 |

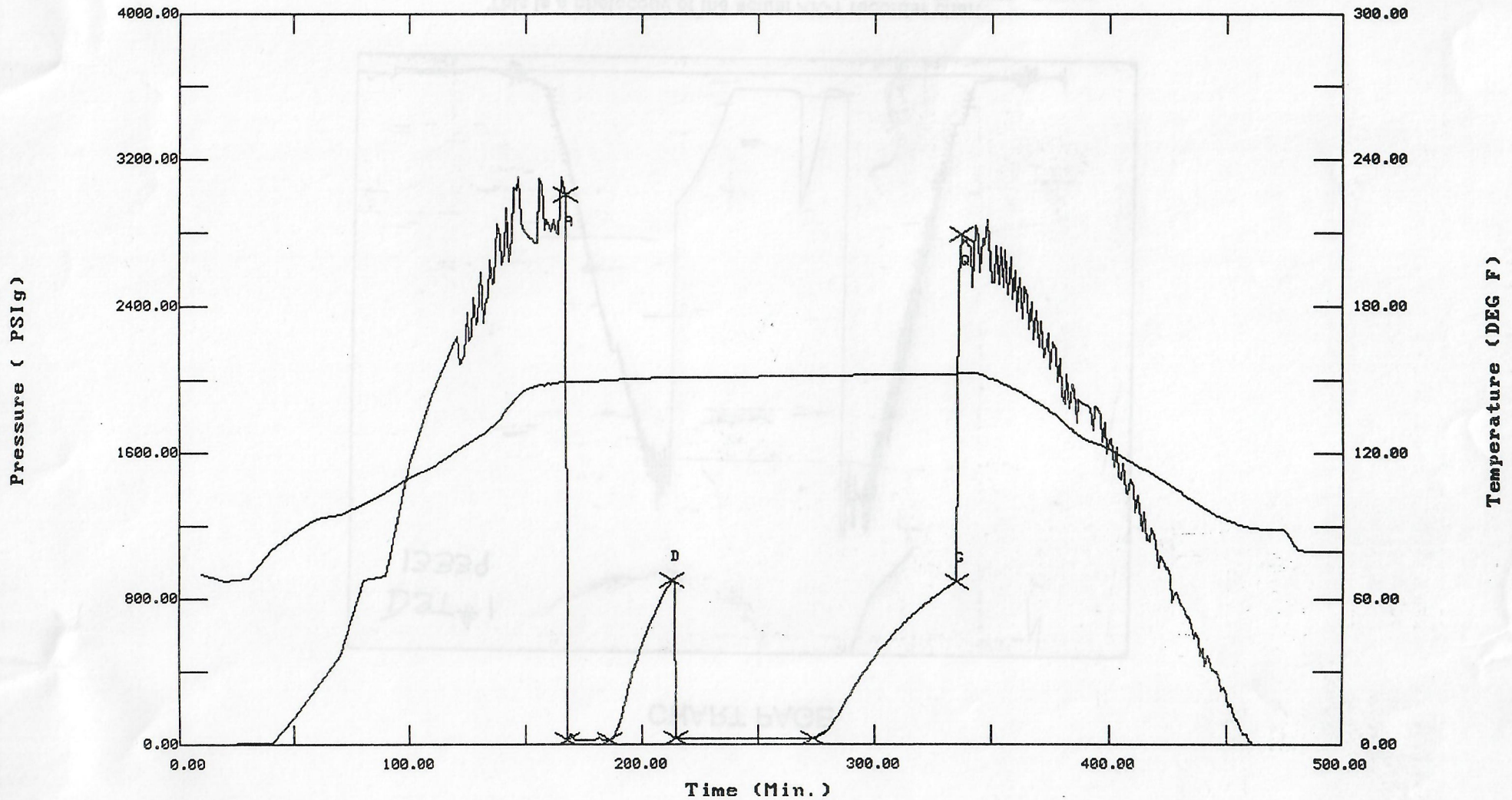
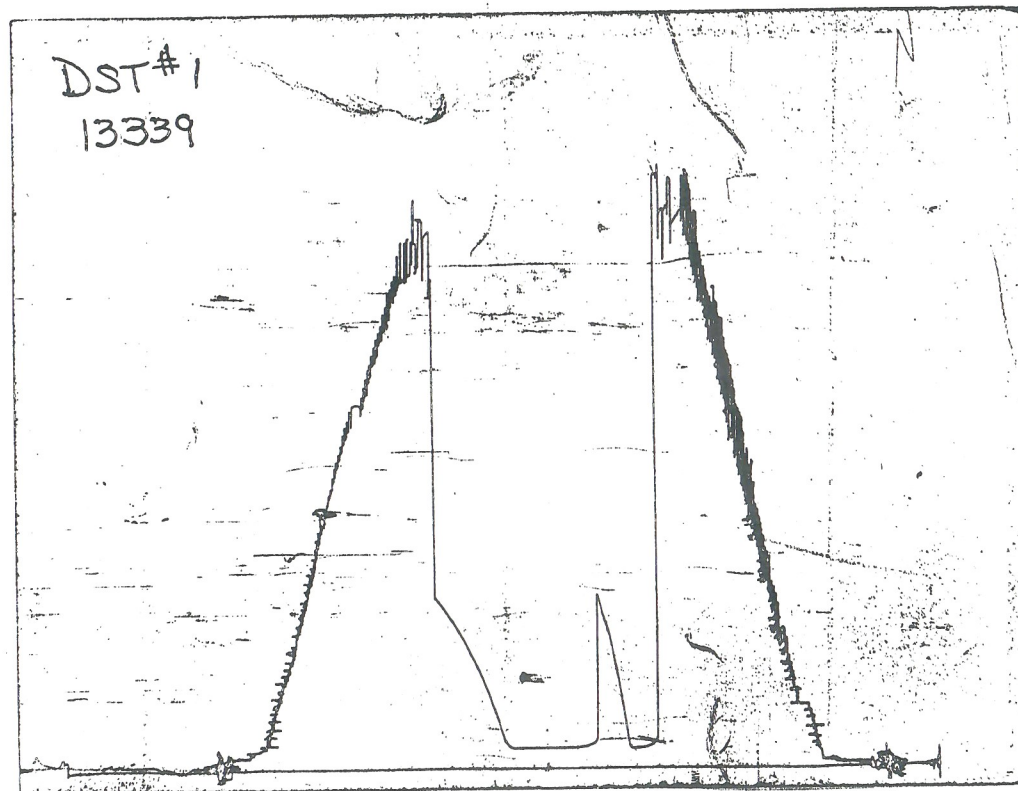


CHART PAGE



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 9989

| | | | | | |
|-----------------|--|---------------------------|---------------------------|-----------------|--|
| Well Name & No. | <u>Rother 13-29 #1</u> | Test No. | <u>1</u> | Date | <u>5-24-97</u> |
| Company | <u>Union Pacific Resources Company</u> | Zone Tested | <u>Arbuckle/Reagan Sd</u> | | |
| Address | <u>P.O. Box 7 MS 3006 Ft. Worth, TX 76101-0007</u> | | Elevation | <u>4018</u> | KB <u>4005</u> GL |
| Co. Rep / Geo. | <u>Jack Parrott</u> | Cont. | <u>Murfin #25</u> | Est. Ft. of Pay | <u>Por.</u> % |
| Location: Sec. | <u>29</u> | Twp. | <u>16^S</u> | Rge. | <u>42^W</u> Co. <u>Cheyenne</u> State <u>CO.</u> |
| No. of Copies | <u>8</u> | Distribution Sheet (Y, N) | <u>N</u> | Turnkey (Y, N) | <u>N</u> Evaluation (Y, N) <u></u> |

| | | | | | |
|---------------------|---|--|---|-----------------------|----------------|
| Interval Tested | <u>6156 6250 50</u> | Initial Str Wt./Lbs. | <u>105,000</u> | Unseated Str Wt./Lbs. | <u>105,000</u> |
| Anchor Length | <u>94'</u> | Wt. Set Lbs. | <u>30,000</u> | Wt. Pulled Loose/Lbs. | <u>130,000</u> |
| Top Packer Depth | <u>6156 51</u> | Tool Weight | <u>2,300</u> | | |
| Bottom Packer Depth | <u>6156 56</u> | Hole Size — 6 <u>6 1/2"</u> | Rubber Size — 6 1/2" <u>6 1/2"</u> | | |
| Total Depth | <u>RTD (115) 6250 50</u> | Wt. Pipe Run <u>4" FH 1225'</u> | Drill Collar Run | <u></u> | |
| Mud Wt. <u>8.8</u> | LCM <u>T#1/bbl</u> Vis. <u>53</u> | WL <u>7.2</u> | Drill Pipe Size <u>4" FH</u> | Ft. Run | <u>4911'</u> |
| Blow Description | <u>IF: Weak 1/4" blow w/slight decrease</u> | | | | |

ISI: No blow

FF: No return blow

FSI: No blow

| | | | | | | | |
|-----------------------|------------|-----|----------|-----------|----------|-----------|------------|
| Recovery — Total Feet | <u>20'</u> | GIP | <u>—</u> | Ft. in DC | <u>—</u> | Ft. in DP | <u>20'</u> |
|-----------------------|------------|-----|----------|-----------|----------|-----------|------------|

| Rec. | Feet Of | %gas | %oil | %water | %mud |
|-----------------|--------------------------|------|------|--------|------|
| Rec. <u>20'</u> | Feet Of <u>Drlg. Mud</u> | %gas | %oil | %water | %mud |
| Rec. <u></u> | Feet Of <u></u> | %gas | %oil | %water | %mud |
| Rec. <u></u> | Feet Of <u></u> | %gas | %oil | %water | %mud |
| Rec. <u></u> | Feet Of <u></u> | %gas | %oil | %water | %mud |

BHT 152° °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud 3098 3007 PSI Recorder No. 2341 T-Started 0910 (CDT)

(B) First Initial Flow Pressure 83 22 PSI (depth) 6150 T-Open 1200

(C) First Final Flow Pressure 83 23 PSI Recorder No. 13339 T-Pulled 1445

(D) Initial Shut-in Pressure 889 903 PSI (depth) 6237 T-Out 1730

(E) Second Initial Flow Pressure 83 25 PSI Recorder No. —

(F) Second Final Flow Pressure 83 27 PSI (depth) —

(G) Final Shut-in Pressure 889 894 PSI Initial Opening 15 Test

(H) Final Hydrostatic Mud 2880 2792 PSI Initial Shut-in 30 Jars X

AK-1 ALP Final Flow 60 Safety Joint X

Final Shut-in 60 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 Jack Parrott 17FE #172152

Our Representative Rod Steinbrink

Circ. Sub X N/C

Sampler X

Extra Packer

Elect. Rec. X

Other

TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9989 Date 5-24-97
Company Name Union Pacific Resources Co. Cont. Murfin #25
Lease Rother 13-29 #1 Test No. 1 Arbuckle - Reagan Sd.
County Cheyenne CO. Sec. 29 Twp. 16^S Rng. 42^W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure 10 # PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 1,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 53
Mud Weight 8.8
Filtrate 7.2
Other LCM 7# / bbl

SAMPLER ANALYSIS

Resistivity 3.5 ohms @ 100° F
Chlorides 1,100 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity 3.5 ohms @ 100° F
Chlorides 1,100 ppm.