

ORIGINAL

API 15-007-225800000

McGinness Oil Company of Kansas, Inc.

Frieden #1

(3350 FSL & 4980 FEL, Sec.)

C W/2 SW NW

FROM: Sec. 32-31S-12W

Barber County, Kansas

September 1998

KCC

CONFIDENTIAL

09

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| CORES - NONE                                          |      |       |



General Well Data

Page Two

Drilling Time: One (1) foot drill time from 1750 feet to 4600 feet

Gas Detector: Baroid Gas Detector  
Great Bend, Kansas  
operational above 1750 feet to 4600 feet

Cores: NONE, Core Retrieval: NONE

(D)rill (S)tem (T)ests: Trilobite Testing Company  
Engineer: Darren Amerine, Pratt KS District  
Four (4) conventional DST's

Elogs: Log-Tech, Inc., Hays, Kansas  
Engineer: Dale Legleiter  
Operator: Allen Worth

Logging acheived with two (2) pass over borehole

Surveys: Dual Compensated Porosity Log  
Dual Induction Log  
Borehole Compensated Sonic Log

Water: Medicine River, plastic PVC line laid by Howard Drilling

Fuel: Moeder Oil, Great Bend, Kansas  
Propane: COOP, Medicine Lodge, Kansas

Production: NONE, Plug and Abandon

Plugging Orders by Steve Middleton, KCC

50 sxs at 550 feet  
40 sxs at 350 feet  
10 sxs at 40 feet  
15 sxs Rathole

115 sxs total cement 60/40 Pozmix, 6% gel by Allied Cementing

Well Chronology  
7 AM Report

Mon. 09-14-98 Move In Rotary tools, Rig Up  
Tue. 09-15-98 Spud 5:15 AM, Set 8-5/8" at 339 ft., rathole ahead w/7-7/8" bit to 1007 feet  
Wed. 09-16-98 Drilling at 1250 feet, 1250 feet last 24 hrs  
Thu. 09-17-98 Drilling at 2295 feet, 1045 feet last 24 hrs  
Fri. 09-18-98 Drilling at 3100 feet, 805 feet last 24 hrs  
Sat. 09-19-98 3273 - lost Circ., 173 feet last 24 hrs, DST 1)3273  
Sun. 09-20-98 Drilling at 3815 feet, 715 feet last 24 hrs, DST 2)3910  
Mon. 09-21-98 Drilling at 4000 feet, 185 feet last 24 hrs  
Tue. 09-22-98 Drilling at 4410 feet, 410 feet last 24 hrs  
Wed. 09-23-98 Drilling at 4527 feet, 117 feet last 24 hrs, Bit Trip at 4527, DST 3)4522, DST 4)4527, RTD 4600 at 7:46 PM, CFS 60" and CTCH for 30" TOOH f/logs, Log-Tech on location at 10:15 PM, running open hole logs at 12:45 AM, Finished logging at 5 AM  
Thu. 09-24-98 4600 feet, plugging, 73 feet last 24 hrs, PLUG & ABANDON

SUMMARY:

The MOC, Frieden #1 was drilled to a vertical total depth of 4600 feet, sufficient to penetrate and evaluate the entire Simpson Sand section. The test well was drilled as a extension of the Medicine River Pool to the MOC Hall #1 in the W/2 SE NE (Miss oil well)

The primary zones of interest are the Elgin Sand, Lower Douglas Sand, Kansas City Drum, Mississippian Chert and Simpson Sand, all are locally productive.

The MOC, Frieden #1 structural position ran flat to low on all marker beds with reference to elog tops. A DST was taken in the Howard Ls (unsuccessful), KC Drum and two DST's in the Simpson Sand interval. All DST's provided negative information concerning the productive nature of the propective formations. Elog evaluation provided NO additional zones of interest and it was recommended that the MOC Frieden #1 be plugged and abandoned.

A Baroid Gas detector was used throughout the drilling of the MOC, Frieden #1. This unit worked with sporatic success and values related to formation tops will NOT be listed due to this fact.

McGinness Oil Company of Kansas, Inc.  
 Frieden #1  
 3350 FSL & 4980 FEL, Sec.  
 C W/2 SW NW  
 Sec. 32-31S-12W  
 Barber County, Kansas  
 KB 1539

| <u>Formations</u>   | <u>Sample Tops</u> | <u>Corrected Sample Tops</u> | <u>Elog Tops</u> |
|---------------------|--------------------|------------------------------|------------------|
| surface casing      | 339 dlr            |                              | 337              |
| Chase/Herington     | 1782               |                              | 1787 - 248       |
| Base Florence Chert | 2066               |                              | 2068 - 529       |
| Onaga Shale         | 2580               |                              | 2581 - 1042      |
| Wabaunsee Ls        | 2640               |                              | 2635 - 1096      |
| Stotler Ls          | 2781               |                              | 2778 - 1239      |
| Howard Ls           | 3008               |                              | 3010 - 1471      |
| Lecompton Ls        | 3295               |                              | 3306 - 1767      |
| Kanwaka Shale       | 3338               |                              | 3344 - 1805      |
| Elgin Sand          | Absent             |                              | ABSENT           |
| Oread Ls            | 3455               |                              | 3446 - 1907      |
| Heebner Shale       | 3493               |                              | 3497 - 1958      |
| Toronto Ls          | 3509               |                              | 3511 - 1972      |
| Douglas Shale       | 3527               |                              | 3520 - 1981      |
| Upper Douglas Sand  | 3541               |                              | 3544 - 2005      |
| Lower Douglas Sand  | 3645               |                              | 3648 - 2109d     |
| Lansing             | 3680               |                              | 3685 - 2146      |
| Kansas City Drum    | 3905               |                              | 3910 - 2371      |
| Stark Shale         | 4035               |                              | 4038 - 2499      |
| Marmaton Ls         | 4151               |                              | 4152 - 2613      |
| Mississippian Chert | 4211               |                              | 4218 - 2679      |
| Mississippian Ls    | 4231               |                              | 4243 - 2704      |
| Lower Miss. Chert   | 4265               |                              | 4268 - 2729      |
| Kinderhook Shale    | 4332               | 4337                         | 4333 - 2794      |
| Viola Ls            | 4434               |                              | 4436 - 2897      |
| Simpson Shale       | 4506               |                              | 4515 - 2976      |
| Simpson Sand        | 4521               |                              | 4528 - 2989      |
| RTD, LTD            | 4600               |                              | 4606 - 3067      |

### Daily Mud Properties

| Date     | Depth | WT     | VIS | PV | YP | PH   | WL   | Solids | Chl   | Cal | LCM | Costs    |
|----------|-------|--------|-----|----|----|------|------|--------|-------|-----|-----|----------|
| 09-15-98 | SPUD  | MUD    |     |    |    |      |      |        |       |     |     |          |
| 09-16-98 | NO    | REPORT |     |    |    |      |      |        |       |     |     |          |
| 09-17-98 | NO    | REPORT |     |    |    |      |      |        |       |     |     |          |
| 09-18-98 | 3215  | 8.7    | 42  | 14 | 10 | 11.0 | 16.4 | 2.5%   | 6200  | --  | tr# | 3,297.00 |
| 09-19-98 | 3295  | 9.0    | 45  | 16 | 12 | 11.0 | 20.8 | 4.5%   | 7500  | --  | 6#  | 4,640.00 |
| 09-20-98 | 3910  | 9.2    | 47  | 19 | 14 | 8.0  | 24.0 | -.-%   | 9500  | --  | 3#  | 5,452.00 |
| 09-20-98 | 3910  | 9.1    | 56  | 17 | 12 | 11.0 | 12.0 | 5.3%   | 4000  | --  | 4#  | 6,806.00 |
| 09-21-98 | 4110  | 9.0    | 50  | 16 | 12 | 9.5  | 13.2 | 4.3%   | 9400  | --  | 0#  | 7,231.00 |
| 09-22-98 | 4500  | 9.1    | 51  | 17 | 14 | 9.0  | 16.0 | 5.2%   | 5000  | --  | 3#  | 8,643.00 |
| 09-23-98 | 4550  | 9.0    | 28  | 28 | 31 | 9.0  | 20.4 | 4.8%   | 11200 | --  | 3#  | 8,958.00 |

### Bit Record

| Num. | Make      | Type    | Size    | Jets     | Out                 | Footage | Hours  |
|------|-----------|---------|---------|----------|---------------------|---------|--------|
| 1    | Hughes    | Retip   | 12-1/4" | 14-14-14 | 345                 | 345     | 3-3/4  |
| 2    | Hughes    | Retip   | 7-7/8"  | 14-14-14 | 1007                | 662     | 3      |
| 3    | Walker-Mc | 52CHF   | 7-7/8"  | 14-14-14 | 4522                | 3515    | 95-3/4 |
| 4    | Smith     | F27(RR) | 7-7/8"  | 14-14-14 | 4600                | 78      | 4-1/2  |
|      |           |         |         |          | Total Bit Hours 107 |         |        |

Average Penetration Rate: B/Surf. Csg. to RTD: 41.21 ft/hr  
surface (00) to RTD: 42.99 ft/hr

### Deviation Record

345 - 1/2 degrees - dropped, 1007 - 3/4 degrees - dropped  
3273 - 3/4 degrees - dropped, 3910 - 3/4 degrees - dropped  
4527 - 1/4 degrees - dropped, 4600 - 3/4 degrees - dropped

### Pipe Strap

3273 - 1.43 foot short to board - NO CORRECTION  
4527 - 1.36 foot short to board - NO CORRECTION

### Loss Circulation

3142 - ?? bbls - Howard Ls  
3273 - ?? bbls - Howard Ls

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Barber County, Kansas

September 22, 1998

The following descriptions were made independent of drilling time and represent an interpretation of each sample saved during the course of the above referenced well.

Douglas H. McGinness II & Patrick Deenihan provided geologic supervision from 1750 thru 4150 feet, NO SAMPLE DESCRIPTIONS AVAILABLE

- 4140-4150 ls tan fn and med xln and med oolitic, sparse chert, shales 15%, gry  
4150-4160 ls cream med xln and med oolitic, some weathered nodules, shales 15%, gry, dk gry to blk 5%  
4160-4170 ls cream med xln and med oolitic, some weathered nodules, shales 15%, gry, dk gry to blk 5%  
4170-4180 ls tan-cream fn xln, equally weathered, sparse med xln-oolitic, sparse blk residual stain, no fluor, sparse chert lt gry, fresh, subopaque, shales 10%, gry  
4180-4190 ls 70%, cream-tan fn and med xln, slightly oolitic, equally weathered, scattered blk sptd residual stain, no fluor, chert 5%, tan-brn and white fresh, opaque, some fossilif, shales 25%, gry, scattered blk  
4190-4200 ls cream-white fn xln dn and weathered to chalky, traces of chert, shales 10%, gry, some blk  
4200-4210 ls cream-white fn xln dn and weathered to chalky, some w/sptd blk residual stain, scattered chert lt blue, fresh, subopaque-translucent, shales 20%, gry-green, gry lesser dk gry  
4210-4220 ls cream-lt gry fn and med xln, sptd blk residual stain thru-out grading to chalky ls, scattered chert lt gry-lt blue, fresh, subopaque, shales 25%, gry, gry-green,  
4225 C.F.S. 30" shales 80%, gry-green, green, some silty and pyritic, ls cream-lt gry fn and med xln, sptd blk residual stain w/scattered chert lt blue-lt gry fresh, opaque  
4225 C.F.S. 45" ls 40%, tan-cream and some lt gry fn and med xln-some suboolitic, (Miss. chert 30%, white, fresh, opaque **w/blk sptd residual stain in weathered Chert portions, rare shows of gas, flash odor, no fluor,** shales 30%, gry, gry-  
4225 C.F.S. 60" ls 45%, tan-cream fn xln dn some w/blk sptd residual stain, chert 25%, white, fresh, opaque w/blk sptd residual stain in weathering, shales 30%, gry, gry-green to blk  
4225-4230 ls 65%, tan-cream fn and some med xln dn and weathered, chert 15%, white, fresh, opaque-subopaque, some w/weathered portions exhibiting blk residual sptd stain, shales 20%, gry, gry-green to blk  
4230-4240 chert 35%, white, fresh, opaque, oolitic in part w/blk sptd residual stain in weathered portions, no odor, flour or shows oil or gas, ls 35%, cream-tan fn xln, shales 20%, gry-green, gry to blk  
4240-4250 chert 35%, white, fresh, opaque, oolitic in part w/blk sptd residual stain in weathered portions, no odor, flour or shows oil or gas, ls 35%, cream-tan fn xln, shales 20%, gry-green, gry to blk  
4250-4260 shales 60%, gry, dk gry, gry-green, some maroon 5%, ls 20%, tan fn xln, chert 20%, white to lt gry, fresh, opaque

- 4260-4270 shales 75%, varicolored (mostly gry, lesser gry-green, green, maroon), some blk, chert 15%, white, fresh, opaque, some subopaque, slightly oolitic, ls 10%, tan-lt gry fn xln dn
- 4270-4280 shales 80%, varicolored (mostly gry, lesser gry-green, green and maroon to brn), ls 10%, tan-cream and pink fn xln-chalky, chert 10%, white, fresh, subopaque to opaque
- 4280-4290 chert 50%, white and some tan, fresh, subopaque and opaque, smooth, no shows, (Lwr Miss scattered blk sptd residual stain, spicular in part, ls 30%, tan fn xln, Chert) shales 25%, gry-green, green to dk gry
- 4290-4300 chert 70%, white and tan to lt gry fresh, equal amts subopaque and opaque, sharp, some slightly fossilif, ls 20%, tan fn xln, shales 10%, gry, dk gry
- 4300-4310 chert 50%, white and tan fresh, opaque and subopaque, some sharp, ls 35%, tan-cream fn xln dn, shales 15%, gry, gry-green, to blk
- 4310-4320 ls 60%, tan and cream fn xln, chert 35%, white to lt gry, fresh, opaque to subopaque, shales 5%, gry some blk
- 4320-4330 ls 70%, tan and cream fn xln, chert 25%, white to lt gry, fresh, opaque to subopaque, shales 5%, gry some blk
- 4330-4340 ls tan-brn fn xln to weathered, chert 15%, white to lt gry and tan fresh, opaque to subopaque, shales 15%+, gry some green, dk gry, silty
- 4340-4350 ls tan-brn fn xln to weathered, chert 15%, white to lt gry and tan fresh, opaque to subopaque, shales 15%+, gry some green, dk gry, silty
- 4350-4360 ls 70%, tan-brn fn xln to weathered, chert 20%, white to lt gry and tan fresh, opaque-subopaque, shales 10%+, gry, dk gry
- 4360-4370 ls 70%, tan-brn fn xln to weathered, chert 15%, white to lt gry and tan fresh, opaque-subopaque, shales 15%+, gry, dk gry
- 4370-4380 ls 65%, tan-brn fn xln to weathered, chert 20%, white to lt gry and tan fresh, opaque-subopaque, shales 15%+, gry, dk gry
- 4380-4390 ls 55%, tan-brn fn xln to weathered, chert 15%, white to lt gry and tan fresh, opaque-subopaque, shales 30%+, gry, dk gry, some silty to blk
- 4390-4400 ls 60%, tan-brn fn xln to weathered, chert 20%, white to lt gry and tan fresh, opaque-subopaque, shales 20%+, gry, dk gry, some silty to blk
- 4400-4410 ls 65%, tan-cream fn xln, some weathered, chert 15%, white to lt gry, fresh, opaque and subopaque, shales 10%, gry, dk gry
- 4410-4420 ls tan fn xln, chert 10%+, white to lt blue, fresh, subopaque, shales 40%, gry, gry-green, some pyritic, blk 2-5%
- 4420-4430 shales 80%, gry, laminated, green and blk 10%, ls 20%, tan fn xln w/assoc. chert white to lt blue, fresh, opaque and subopaque
- 4430-4440 shales 60%, gry-green, gry, dk gry and blk 15%, ls tan fn xln, chert 20%+, white to lt gry, fresh, subopaque-opaque, sharp
- 4440-4450 chert lt gry-tan and white, fresh, translucent to opaque, equal amts of (Viola) ls tan fn xln, **5% w/bright sptd and even fluor wet, very small fine pinpoint beads light oil**, shales 10%, gry
- 4450-4460 chert lt blue-tan fresh, subopaque-translucent w/lesser ls tan-cream fn and med xln some w/fluor along w/chert white, fresh, opaque, fossilif, **5% w/bright even fluor wet, very fine pinpoint beads oil on break, bright fluor dry, no odor, no cut**, scattered sandy dolomite lt gry med xln w/sptd fluor, shales 10%, gry, gry-green
- 4460-4470 chert lt blue-tan fresh, subopaque-translucent w/lesser ls tan-cream fn and med xln some w/fluor along w/chert white, fresh, opaque, fossilif,

- 5% w/bright even fluor wet, very fine pinpoint beads oil on break, bright fluor dry, no odor, no cut, scattered sandy dolomite lt gry med xln w/sptd fluor, shales 10%, gry, gry-green
- 4474 C.F.S. 30" ls 80%, brn-tan fn xln, lesser sandy dolomitic ls fn and some med xln, chert 15%, tan, fresh, subopaque-translucent, lesser chert white, fresh, opaque, fossilif, 2-3% w/bright fluor, no odor, shales 10%+, gry-green, green
- 4474-4480 ls 80%, brn-tan fn xln, lesser sandy dolomitic ls fn and some med xln, chert 15%, tan, fresh, subopaque-translucent, lesser chert white, fresh, opaque, fossilif, 2-3% w/bright fluor, no odor, shales 10%+, gry-green, green
- 4480-4490 ls 70%, brn and tan fn xln, scattered sandy dolomite fn-med xln, chert 20%, tan and lt gry, fresh, subopaque-opaque, smooth, shales 10%, gry-green, gry, slightly pyritic
- 4490-4500 ls 60%, brn fn xln w/small amts dolomite tan fn xln-sucrosic, some fn-med xln, chert 20%, lt blue-lt gry, fresh, subopaque-translucent, shales 20%, gry, gry-green
- 4500-4510 ls 60%, brn fn xln w/small amts dolomite tan fn xln-sucrosic, some fn-med xln, chert 20%, lt blue-lt gry, fresh, subopaque-translucent, shales 20%, gry, gry-green
- 4516 C.F.S. 30" ls tan-cream fn xln, dn, smooth, lesser weathered w/assoc. chert 5%, lt blue, fresh, subopaque, shales 30%, gry-green, green, gry
- 4516 C.F.S. 45" ls tan-brn fn xln, dn, smooth, chert 10%, milky-lt blue, fresh, subopaque, shales 20%, gry-green, green, gry, ?? clear qtz 1-2%, grains and clustered, med-coarse grain, slightly included w/carb. material, NO SHOWS
- 4516 C.F.S. 60" ls tan-brn fn xln, dn, smooth, chert 10%, milky-lt blue, fresh, subopaque, shales 20%, gry-green, green, gry, ?? clear qtz 1-2%, grains and clustered, med-coarse grain, slightly included w/carb. material, NO SHOWS
- 4516-4522 ls brn fn and lesser med xln, lesser sandy dolomitic ls brn fn xln, chert 15%, lt gry-lt blue fresh, subopaque-opaque, sandstone 1%, lt gry, clear, fn and med grain, poorly sorted, tite, subangular-subrnd, shales gry-green, green, dk gry and maroon
- 4522 C.F.S. 30" ls brn fn xln dn, smooth, lesser chert milky-lt blue, fresh, subopaque, NO SANDSTONE, shales 30%, gry, gry-green
- 4522 C.F.S. 45" shales 85%, gry, gry-green, ls and chert mixed w/sandstone 1-2%, lt gry-clear fn and med grain, subrnd-subang, NO ODOR
- 4522 C.F.S. 60" shales green, gry-green, dk gry, ls 25%, tan-brn fn xln w/chert 10%, lt gry-lt blue, fresh, subopaque-opaque, sandstone 5%, white-lt gry, fn and med grain, fair sorted, subangular, no shows
- CATCH for 60 minutes after DST 3
- 4522-4527 shales green, gry-green, drab some pyritic,
- 4527 C.F.S. 30" shales 60%, gry, lightly pyritic, ls tan fn xln w/scattered chert lt gry to tan fresh, subopaque
- 4527 C.F.S. 45" shales 90%, gry-green, gry w/maroon, slightly pyritic, spores thru-out, sandstone 1-2%, clear-lt gry, fn and med grain, rounded to

(Simpson subrnd, poorly sorted, friable, slightly included w/carb. material, **FAINT**  
Sand) **ODOR**, dull sptd fluor wet and dry, fair and good shows light and tan live  
oil on break, **FAST** streaming cut w/bright blue milky residual halo, tan  
sptd stain

4527 C.F.S. 60" shales 95%, gry-green, gry w/maroon, slightly pyritic, spores  
thru-out, sandstone 5%, clear-lt gry, fn and med grain, rounded to  
subrnd, poorly sorted, friable, slightly included w/carb. material, **FAINT**  
**ODOR**, dull sptd fluor wet and dry, fair and good shows light and tan live  
oil on break, **FAST** streaming cut w/bright blue milky residual halo, tan  
sptd stain

DID NOT CTCH AFTER DST 4

4527-4530 NO SAMPLE, sample trough gate left open

4530-4540 NO SAMPLE, NO CUTTING IN SAMPLE TROUGH

4540-4550 shales 98%, gry-green, green, maroon, silty, soft and clayey, sparse  
sandstone 1-2%, white-lt gry, fn grain, subrnd, vsl included, scattered  
chert white, fresh, opaque and qtz clear, med and coarse, subrnd

4550-4560 **fair-strong odor**, sandstone 85%, lt gry-clear, fn and med w/some coarse  
grain, subrnd-round, poorly sorted, slightly included w/carb. material,  
some partly friable, good I.G. porosity, **most w/fair shows tan live and**  
**dead oil and gas bubbles on break, very dull sptd fluor wet, NONE dry,**  
**tan sptd and even stain, fair milky cut, shales 15%, gry, gry-green**

4560-4570 **faint to fair odor**, sandstone 80%, gry, fn and med grain, lesser coarse  
grain, slightly included, rounded, poorly sorted, fair I.G. porosity, loose  
qtz 15%, **few pcs. w/very small oil and gas (dead), no flour wet or dry,**  
**no cut, shales 20%, gry, gry-green**

4570-4580 **faint odor**, sandstone 90%, lt gry and tan fn and med w/lesser coarse grain,  
subrnd and rounded, poor thru good I.G. porosity, pr-fair friability,  
slightly included w/carb. material and slightly calc., **slight tan stain,**  
**NO FLOUR wet or dry, scattered shows dk live and mostly dead oil, some**  
**good shows, shales 10%, gry, gry-green**

4580-4590 shales 80%, gry, gry-green, sandstone 20%, lt gry-clear, fn and med grain,  
poor-fair sorted, vsl included, decrease in porosity, **NO SHOWS**

4590-4600 **faint odor**, sandstone 70%, mostly fn thru few coarse grain, clear, rounded,  
poorly sorted, poor to good friability and poor to some good I.G. porosity,  
**scattered shows live and dead oil, sparsely sptd dull fluor wet and dry,**  
**tan stain, fast streaming cut, fair blue residual ring, shales 30%, gry,**  
**gry-green**

4600 C.F.S. 30" **faint odor**, sandstone and loose qtz 50%, fn thru few coarse grain,  
clear, rounded, poorly sorted, poor to good friability and poor to some  
good I.G. porosity, **scattered shows live and dead oil, sparsely sptd dull**  
**fluor wet and dry, tan stain, fast streaming cut, fair blue residual ring,**  
**shales 50%, gry, gry-green**

4600 C.F.S. 60" **faint odor**, sandstone and loose qtz 50%, fn thru few coarse grain, clear, rounded, poorly sorted, poor to good friability and poor to some good I.G. porosity, **scattered shows live and dead oil**, sparsely sptd dull fluor wet and dry, tan stain, fast streaming cut, fair blue residual ring, shales 50%, gry, gry-green

Respectfully Submitted;

*Kenneth M. LeBlanc*

Kenneth M. LeBlanc  
Petroleum Geologist  
September 23, 1998

McGinness Oil Company of Kansas, Inc.  
 Frieden #1  
 (3350 FSL & 4980 FEL, Sec.)  
 W/2 SW NW  
 Sec. 32-31S-12W  
 Barber County, Kansas

September 28, 1998

One (1) foot drilling time from 1750 feet to R.T.D.  
 \*-\*- denotes missing drill time

|           |                                                                                                                                               |                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1750-1760 | 1-3-2-2-2-3-2-1-2-1                                                                                                                           |                                                                                                                                               |
| 1760-1780 | 2-2-1-1-2-1-1-1-1-2                                                                                                                           | 2-2-3-2-3-1-2-1-2-2                                                                                                                           |
| 1780-1800 | 2-2-1-1-1-1-2-1-1-2                                                                                                                           | 1-2-2-1-2-2-2-2-2-2                                                                                                                           |
| 1800-1820 | 2-2-3-2-2-2-2-2-2-2                                                                                                                           | 1-2-1-2-2-1-2-2-1-2                                                                                                                           |
| 1820-1840 | 2-2-3-2-2-2-2-2-3-3                                                                                                                           | 2-2-2-1-2-2-1-2-2-1                                                                                                                           |
| 1840-1860 | 1-2-1-1-1-1-1-1-1-1                                                                                                                           | 1-1-2-2-1-1-2-1-2-1                                                                                                                           |
| 1860-1880 | 2-1-1-2-1-2-1-1-1-1                                                                                                                           | 2-1-2-2-1-2-1-1-1-2                                                                                                                           |
| 1880-1900 | 1-1-2-1-2-1-1-1-1-1                                                                                                                           | 1-1-1-2-1-2-2-2-2-2                                                                                                                           |
| 1900-1920 | 1-1-1-1-1-1-1-1-1-1                                                                                                                           | 1-1-1-1-1-1-1-2-1-1                                                                                                                           |
| 1920-1940 | 1-1-1-1-1-1-2-1-1-1                                                                                                                           | 2-2-1-2-2-1-1-2-1-2                                                                                                                           |
| 1940-1960 | 1-2-2-1-1-1-1-1-1-1                                                                                                                           | 2-1-2-1-2-1-2-2-1-1                                                                                                                           |
| 1960-1980 | 2-1-2-2-2-2-1-2-1-1                                                                                                                           | 1-1-1-1-2-1-2-2-2-1                                                                                                                           |
| 1980-2000 | 2-1-2-2-2-2-2-2-2-2                                                                                                                           | 2-2-3-1-2-2-2-1-2-2                                                                                                                           |
| 2000-2020 | 1-1-2-1-2-1-2-1-2-1                                                                                                                           | 2-2-1-2-1-1-2-1-1-1                                                                                                                           |
| 2020-2040 | 1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$          | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ |
| 2040-2060 | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ |
| 2060-2080 | $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-2-1-1-2                                                                                                | 2-2-2-1-2-1-1-2-1-1                                                                                                                           |
| 2080-2100 | 2-1-1-2-1-2-1-1-1-1                                                                                                                           | 1-2-1-2-1-2-1-2-1-1                                                                                                                           |
| 2100-2120 | 1-1-2-1-2-1-2-1-2-2                                                                                                                           | 1-2-2-2-2-2-2-2-2-2                                                                                                                           |
| 2120-2140 | 2-2-1-1-1-2-2-2-2-2                                                                                                                           | 2-2-1-2-1-1-1-2-2-2                                                                                                                           |
| 2140-2160 | 2-2-3-3-3-2-2-2-2-1                                                                                                                           | 2-2-1-2-2-1-1-1-2-1                                                                                                                           |
| 2160-2180 | 1-1-1-1-1-1-1-1-2-2                                                                                                                           | 2-2-2-2-1-2-1-2-1-1                                                                                                                           |
| 2180-2200 | 2-2-2-1-2-1-2-2-1-1                                                                                                                           | 1-2-1-1-1-1-2-2-2-2                                                                                                                           |
| 2200-2220 | 1-3-2-2-2-2-1-2-1-2                                                                                                                           | 2-2-2-2-2-2-1-1-1-2                                                                                                                           |
| 2220-2240 | 2-1-1-1-2-1-2-2-2-2                                                                                                                           | 2-2-1-2-2-2-1-2-2-1                                                                                                                           |
| 2240-2260 | 2-2-1-2-1-1-2-2-2-1                                                                                                                           | 1-2-1-2-2-2-1-2-1-2                                                                                                                           |
| 2260-2280 | 1-2-1-2-2-2-2-2-2-1                                                                                                                           | 2-1-1-3-3-2-2-1-1-1                                                                                                                           |
| 2280-2300 | 2-1-2-2-1-2-1-1-1-1                                                                                                                           | 1-1-1-1-1-1-2-1-2-1                                                                                                                           |
| 2300-2320 | 1-1-1-1-1-1-2-1-1-1                                                                                                                           | 1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$              |
| 2320-2340 | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -2-1-2-4                                        | 2-1-1-1-1-1-1-2-2-1                                                                                                                           |
| 2340-2360 | 1-1-2-2-2-1-2-1-1-1                                                                                                                           | 1-1-1-1-1-1-2-2-2-1                                                                                                                           |
| 2360-2380 | 1-2-2-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1                                                                                               | 1-1-1-1-1-1-1-1-1-2                                                                                                                           |
| 2380-2400 | 1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1                                                                   | 1-1-1-1-1-1-1-1-1-1                                                                                                                           |
| 2400-2420 | 1-1-1-1-1-2-2-2-2-2                                                                                                                           | 1-2-2-1-2-2-2-1-1-1                                                                                                                           |
| 2420-2440 | 1-1-1-2-3-2-2-2-1-1                                                                                                                           | 1-1-1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                                                                                  |
| 2440-2460 | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -2-2-3-3-2-2-2                                                                                  | 2-2-2-2-3-4-1-2-2-1                                                                                                                           |
| 2460-2480 | 2-1-1-2-2-1-1-1-1-1                                                                                                                           | 2-2-1-4-2-2-2-1- $\frac{1}{2}$ - $\frac{1}{2}$                                                                                                |
| 2480-2500 | $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-2-2-1-1-1-1                                                                                                | 2-2-2-2-1-2-2-2-2-1                                                                                                                           |
| 2500-2520 | 2-2-3-2-1-2-2-2-2-2                                                                                                                           | 2-1-1-2-2-1-1-2-2-2                                                                                                                           |
| 2520-2540 | 2-2-2-2-3-2-1-2-2-1                                                                                                                           | 1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-2-1-2-1                                                                                               |
| 2540-2560 | $\frac{1}{2}$ - $\frac{1}{2}$ -2-2-1-1-1-3-2-3                                                                                                | 3-2-2-2-2-2-2-2-2-2                                                                                                                           |
| 2560-2580 | 2-1-1-2-1-2-1-1-1-2                                                                                                                           | 2-2-2-2-1-1-1-2-2-1                                                                                                                           |
| 2580-2600 | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-2-1-1-1                                                                    | 1-1-1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1                                                                                               |

|           |                                                                                                                                                  |                                                                                                      |
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| 2600-2620 | 1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1-1-1                                                                                                  | 1-1-1-1-1-1-1-1-1-1                                                                                  |
| 2620-2640 | 1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1                                                                      | $\frac{1}{2}$ - $\frac{1}{2}$ -1-2-2-2-1-2-2-2                                                       |
| 2640-2660 | 3-1-2-1-1-2-2-2-2-2                                                                                                                              | 2-2-1-2-2-2-1-1-2-1                                                                                  |
| 2660-2680 | 2-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                                                         | $\frac{1}{2}$ -1-1-1-2-1-1-2- $\frac{1}{2}$ - $\frac{1}{2}$                                          |
| 2680-2700 | 2-2-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1                                                                                                  | 1-1-1-1-1-2-1-1-2-1                                                                                  |
| 2700-2720 | 1-1-1-1-2-2-1-1-2-1                                                                                                                              | 1-1-1-1-2-1-1-1-1-2                                                                                  |
| 2720-2740 | 1-1-2-2-3-3-2 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1-2                                                                                                | 2-1-2-2-1-2-1-2-1-2                                                                                  |
| 2740-2760 | 1-1-1-2-1-2-1-1-1-2                                                                                                                              | 1-2-1-1-1-2-1-1-2-1                                                                                  |
| 2760-2780 | 1-2-1-1-1-1-1-1-1-1                                                                                                                              | 1-2-2-1-1-1-2-2-2-2                                                                                  |
| 2780-2800 | 2-3-2-2-2-1-2-1-1-1                                                                                                                              | 1-2-1-1-1-1-3-2-2-2                                                                                  |
| 2800-2820 | 2-1-2-1-1-1-1-2-2-3                                                                                                                              | 2-2-1-1-1-3-1-2-3-3                                                                                  |
| 2820-2840 | 3-2-2-2-2-2-1-2-1-1                                                                                                                              | 2-2-2-2-1-1-1-2-2-2                                                                                  |
| 2840-2860 | 2-2-2-2-2-2-2-3-2-2                                                                                                                              | 2-3-3-2-3-2-3-2-3-3                                                                                  |
| 2860-2880 | 3-3-3-2-2-2-2-3-2-2                                                                                                                              | 2-2-2-2-2-2-2-2-2-2                                                                                  |
| 2880-2900 | 2-3-2-3-2-2-1-2-1-2                                                                                                                              | 2-2-2-2-2-2-1-1-1-1                                                                                  |
| 2900-2920 | 1-1-2-1-1-1-1-1-2-1                                                                                                                              | 2-2-2-2-2-2-2-3-2-2                                                                                  |
| 2920-2940 | 2-2-1-2-2-2-3-2-2-2                                                                                                                              | 2-2-2-2-1-2-2-3-2-2                                                                                  |
| 2940-2960 | 1-2-1-1-1-1-2-2-2-2                                                                                                                              | 2-2-2-2-1-1-2- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                                         |
| 2960-2980 | $\frac{1}{2}$ -1-1-2-1-2-2-1-1-1                                                                                                                 | 1-1-1-1-1-1-1-2-2-2                                                                                  |
| 2980-3000 | 2-2-1-1-1-1-2-2-2-1                                                                                                                              | 1-2-1-1-2-1-2-1-2-1                                                                                  |
| 3000-3020 | 2-2-1-2-1-1-1-2-2-2                                                                                                                              | 2-1-2-1-2-2-1-1- $\frac{1}{2}$ - $\frac{1}{2}$                                                       |
| 3020-3040 | 1-1-1-1-1-1-2-2-2-2                                                                                                                              | 3-3-2-2-3-2-2-2-1-2                                                                                  |
| 3040-3060 | 2- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1 |
| 3060-3080 | 1-1-1-1-1-2-2-1-2-1                                                                                                                              | 1-2-1-2-1-2-2-1-2-1                                                                                  |
| 3080-3100 | 1-2-2-2-2-3-2-2-2-2                                                                                                                              | 2-2-2-2-2-2-3-2-2-2                                                                                  |
| 3100-3120 | 2-2-2-3-2-2-2-3-2-2                                                                                                                              | 2-2-2-2-2-2-2-2-2-2                                                                                  |
| 3120-3140 | 2-2-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                                           | 1-1-1-1-1-2-1-1-2-2                                                                                  |
| 3140-3160 | 1-1-1-2-1-2-1-1-2-2                                                                                                                              | 2-2-3-2-2-3-2-3-3-3                                                                                  |
| 3160-3180 | 3-2-3-2-3-2-3-3-3-2                                                                                                                              | 2-1-2-2-2-2-2-2-2-2                                                                                  |
| 3180-3200 | 2-1-1-2-2-2-2-2-2-3                                                                                                                              | 2-3-2-2-2-2-3-2-2-2                                                                                  |
| 3200-3220 | 2-2-3-2-2-2-2-1-2-3                                                                                                                              | 2-2-2-1-2-3-1-2-2-2                                                                                  |
| 3220-3240 | 2-1-1-2-1-2-1-1-1-2                                                                                                                              | 1-1-1-1-2-1-1-1-1-1                                                                                  |
| 3240-3260 | 2-2-1-1-1-1-1-1-1-1                                                                                                                              | 1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1-1-1                                                      |
| 3260-3280 | 1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1                                                                                                  | 1-1-1-1-1-1-1-1-1-1                                                                                  |
| 3280-3300 | 1-1-1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1                                                                                                  | 1-1-1-2-2-1-2-2-2-2                                                                                  |
| 3300-3320 | 1-2-2-2-3-3-1-1-1-1                                                                                                                              | 2-2-3-2-3-2-2-3-2-1                                                                                  |
| 3320-3340 | 2-3-2-1-2-2-3-2-2-2                                                                                                                              | 2-1-1-1-1-2-2-2-1-1                                                                                  |
| 3340-3360 | 1-1-1-1-1-1-1-1-1- $\frac{1}{2}$                                                                                                                 | $\frac{1}{2}$ -1-1-1-1-1-1-1-1-1                                                                     |
| 3360-3380 | 1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1                                                                                                  | 1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1                                                      |
| 3380-3400 | 1-1-2-1-1-2-1-1-2-1                                                                                                                              | 1-1-2-1-1-1-1-1-1-1                                                                                  |
| 3400-3420 | 1-2-1-1-1-1-1-1-1-2                                                                                                                              | 2-1-1-2-1-1-1-1-1-1                                                                                  |
| 3420-3440 | 2-2-1-2-1-1-2-1-2-1                                                                                                                              | 2-1-2-1-2-1-2-1-1-2                                                                                  |
| 3440-3460 | 1-2-1-2-3-4-3-1-1-2                                                                                                                              | 1-3-2-2-2-2-2-2-1-1                                                                                  |
| 3460-3480 | 2-2-2-2-2-2-1-1-2-2                                                                                                                              | 2-2-2-2-3-1-2-2-1-1                                                                                  |
| 3480-3500 | 2-1-1-1-2-3-1-2-2-3                                                                                                                              | 2-2-2-1-2- $\frac{1}{2}$ - $\frac{1}{2}$ -2-2-1                                                      |
| 3500-3520 | 3-2-2-1-1-2-2-1-3-2                                                                                                                              | 2-2-3-1-1-2-2-1-1-1                                                                                  |
| 3520-3540 | 1-2-2-2-3-2-2-1-2-1                                                                                                                              | 1-1-1-2-1-2-1-1-1-2                                                                                  |
| 3540-3560 | 1-1-1-1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$                                                                                                   | 1-1-1-1-1-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$                                                       |
| 3560-3580 | 1-1-2-2-2- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1                                                                                                  | $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-2                           |

|           |                                                                                                      |                                                                                                                                                                |
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| 3580-3600 | 1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-2-2-2-2                                                                                     |
| 3600-3620 | 1-2-2-1-2-2-2-1-2-2                                                                                  | 1-2-2-1-2-1-2-2-1-2                                                                                                                                            |
| 3620-3640 | 2-1-2-3-2-3-2-2-2-2                                                                                  | 2-2-1-1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2-2-2-1-2                                                                                                              |
| 3640-3660 | 2-2-2-2-2-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                           | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1- $\frac{1}{2}$                                                                                        |
| 3660-3680 | $\frac{1}{2}$ -2-2-2-2-2-1-1-1-1                                                                     | 2-1-2-1-1-1-1-1-1-1                                                                                                                                            |
| 3680-3700 | 2-3-3-3-2-2-1-2-2-3                                                                                  | 2-2-2-2-2-1-1-2-2-2                                                                                                                                            |
| 3700-3720 | 3-2-2-1-2-2-3-3-2-3                                                                                  | 2-2-2-2-2-3-2-3-2-2                                                                                                                                            |
| 3720-3740 | 2-2-2-2-2-2-2-1-1-1                                                                                  | 1-1-1-1-1-2-1-1-1-2                                                                                                                                            |
| 3740-3760 | 1-2-2-1-2-2-2-1-1-2                                                                                  | 3-2-2-3-2-2-2-2-2-2                                                                                                                                            |
| 3760-3780 | 2-3-2-3-2-3-4-3-3-2                                                                                  | 3-3-3-3-2-3-3-3-2-2                                                                                                                                            |
| 3780-3800 | 3-3-3-2-3-2-3-3-3-2                                                                                  | 3-3-3-2-3-3-3-3-2-3                                                                                                                                            |
| 3800-3820 | 3-3-2-2-3-2-3-2-3-3                                                                                  | 2-3-2-3-2-3-3-3-3-2                                                                                                                                            |
| 3820-3840 | 2-1-3-2-2-1-2-2-3-2                                                                                  | 3-3-3-3-2-2-2-2-2-2                                                                                                                                            |
| 3840-3860 | 3-4-3-2-2-2-3-2-3-2                                                                                  | 2-2-2-3-3-3-3-4-2-3                                                                                                                                            |
| 3860-3880 | 3-1-1-3-2-3-3-3-2-2                                                                                  | 2-3-2-1-1-1-1-1-1-1                                                                                                                                            |
| 3880-3900 | 1-2-3-4-2-3-3-4-3-3                                                                                  | 2-3-4-3-3-3-3-2-3-3                                                                                                                                            |
| 3900-3920 | 3-3-3-2-2-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$                           | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1 $\frac{1}{2}$ - $\frac{1}{2}$ |
| 3920-3940 | $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -2-3-3-4-4                             | 2-1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2-2-3-3-3-3-3                                                                                                              |
| 3940-3960 | 3-2-1-1-1-1-1-1-1-1                                                                                  | 1-1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2-3-3-4-3-4-4                                                                                                              |
| 3960-3980 | 4-3-4-4-4-3-4-4-3-4                                                                                  | 4-4-4-4-4-3-4-3-3-3                                                                                                                                            |
| 3980-4000 | 4-4-3-3-4-3-3-4-3-4                                                                                  | 4-3-4-3-4-3-4-4-3-4                                                                                                                                            |
| 4000-4020 | 3-2-2-3-2-3-4-3-4-4                                                                                  | 3-3-3-2-1-3-1-1-1-2                                                                                                                                            |
| 4020-4040 | 3-2-2-2-2-2-3-3-4-3                                                                                  | 3-4-4-4-3-1-3-3-3-1                                                                                                                                            |
| 4040-4060 | 3-1-2-1-1-2-2-2-1-2                                                                                  | 1-1-1-1-1-1-2-2-3-2                                                                                                                                            |
| 4060-4080 | 2-2-2-3-2-2-3-4-4-3                                                                                  | 2-3-2-1-1-2-2-4-3-4                                                                                                                                            |
| 4080-4100 | 3-4-4-2-3-3-1-2-2-3                                                                                  | 5-3-3-4-5-4-3-4-4-4                                                                                                                                            |
| 4100-4120 | 3-4-4-4-5-3-4-4-4-5                                                                                  | 4-4-4-4-1-1-1-3-4-4                                                                                                                                            |
| 4120-4140 | 4-3-5-4-4-5-4-4-4-3                                                                                  | 4-3-4-4-4-3-4-3-4-4                                                                                                                                            |
| 4140-4160 | 5-3-3-3-4-2-2-3-2-3                                                                                  | 3-4-3-5-4-3-4-5-4-3                                                                                                                                            |
| 4160-4180 | 4-4-3-4-4-4-3-4-4-5                                                                                  | 4-4-4-4-4-5-3-3-3-3                                                                                                                                            |
| 4180-4200 | 4-3-4-3-4-4-4-4-4-3                                                                                  | 2-4-4-4-3-4-2-2-2 $\frac{1}{2}$ -1 $\frac{1}{2}$                                                                                                               |
| 4200-4220 | 2-1-2-1-1-1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$        | 1 $\frac{1}{2}$ -2-2-2-2-1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2-2-2                                                                                               |
| 4220-4240 | 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2-2-2-2-2-2-2                                                      | 2-3-3-3-5-3-3-3-4-3                                                                                                                                            |
| 4240-4260 | 4-4-4-4-4-4-4-5-4-4                                                                                  | 4-4-4-4-3-4-3-4-4-3                                                                                                                                            |
| 4260-4280 | 4-3-4-3-3-2-2-1-1-2                                                                                  | 1-1-1-1-2-1-1-2-4-3                                                                                                                                            |
| 4280-4300 | 4-3-4-3-3-4-4-4-3-4                                                                                  | 3-4-4-4-4-4-4-3-3-4                                                                                                                                            |
| 4300-4320 | 5-4-4-4-5-4-5-4-5-4                                                                                  | 4-5-3-4-4-5-3-3-4-4                                                                                                                                            |
| 4320-4340 | 4-4-4-4-4-4-4-4-4-4                                                                                  | 4-4-3-3-4-5-3-4-4-3                                                                                                                                            |
| 4340-4360 | 3-4-4-4-4-3-3-2-3-2                                                                                  | 3-3-2-3-3-3-3-3-2-3                                                                                                                                            |
| 4360-4380 | 4-3-3-3-3-3-3-2-3-3                                                                                  | 3-3-3-4-3-3-3-3-2-3                                                                                                                                            |
| 4380-4400 | 3-3-3-3-3-3-2-3-3-3                                                                                  | 3-3-3-3-3-3-3-4-3-4                                                                                                                                            |
| 4400-4420 | 3-3-2-2-2-2-2-3-3-3                                                                                  | 2-3-3-2-2-2-2-3-2-3                                                                                                                                            |
| 4420-4440 | 2-3-2-2-2-3-3-2-3-2                                                                                  | 2-2-2-2-3-4-3-3-3-3                                                                                                                                            |
| 4440-4460 | 2-3-3-2-3-2-3-3-3-3                                                                                  | 4-3-3-3-4-5-3-4-3-4                                                                                                                                            |
| 4460-4480 | 4-4-3-4-4-4-4-4-4-4                                                                                  | 3-3-3-4-3-3-1-5-6-5                                                                                                                                            |
| 4480-4500 | 4-4-4-4-4-4-3-3-4-4                                                                                  | 3 $\frac{1}{2}$ -3 $\frac{1}{2}$ -4-4-4-3-4-3-3-3                                                                                                              |
| 4500-4520 | 4-3-3-3-3-3-2 $\frac{1}{2}$ -2 $\frac{1}{2}$ -3-4                                                    | 4 $\frac{1}{2}$ -5-4 $\frac{1}{2}$ -3 $\frac{1}{2}$ -3-3 $\frac{1}{2}$ -3 $\frac{1}{2}$ -4 $\frac{1}{2}$ -4-3 $\frac{1}{2}$                                    |
| 4520-4540 | 1 $\frac{1}{2}$ -3-2-1-1-1-1-1-1-1                                                                   | 1-1-1-1-1-1-1-1-1-1                                                                                                                                            |
| 4540-4560 | 2-1-1-2-1-1-2-2-3-2                                                                                  | 4-2-2-3-3-3-2-2-3-1                                                                                                                                            |

McGinness Oil Company of Kansas, Inc.  
Frieden #1

Page Four

4560-4580 1-2-2-1-2-2-2-5-5-4  
4580-4600 7-7-4-5 $\frac{1}{2}$ -5-5-5-5-5-5

3-4-5-4-2-1-2-3-7-8  
6-5-5-5-6-6-5-6-5-4 $\frac{1}{2}$  RTD 4600

DST 1) 3115 - 3273 (Howard Ls)

Times: 30-30-30-30

1st open: strong blow off bottom of bucket in 15 seconds  
(bled off for 10 minutes, NO BLOW BACK)

2nd open: strong blow of bottom of bucket in 1 minute, backed off to 6" in  
bucket

Rec: NO GAS IN PIPE

60' SWCM (20% wtr, 80% mud)

2767' WCM (80% wtr, 20% mud)

60' SW (100%wtr)

---

2887' total fluid

RW of formation water: 0.09 at 94 degrees F

Chlorides of formation water: 96,000 PPM

Chlorides of Mud System: 6,200 PPM

| AK-1           |     | Alpine         |     | -- RECORDERS |
|----------------|-----|----------------|-----|--------------|
| (mechanical)   |     | (electronic)   |     |              |
| IHYD: 1478     | psi | IHYD: 1476     | psi |              |
| IFP: 1236-1296 | psi | IFP: 1232-1402 | psi |              |
| IBHP: 1427     | psi | IBHP: 1421     | psi |              |
| FFP: 1438-1448 | psi | FFP: 1420-1427 | psi |              |
| FBHP: 1448     | psi | FBHP: 1428     | psi |              |
| FHYD: 1559     | psi | FHYD: 1428     | psi |              |

TEMP: 125 degrees F

Bottom Sampler - NONE

Tester: Darren Amerine, Trilobite Testing L.L.C., Pratt, Kansas

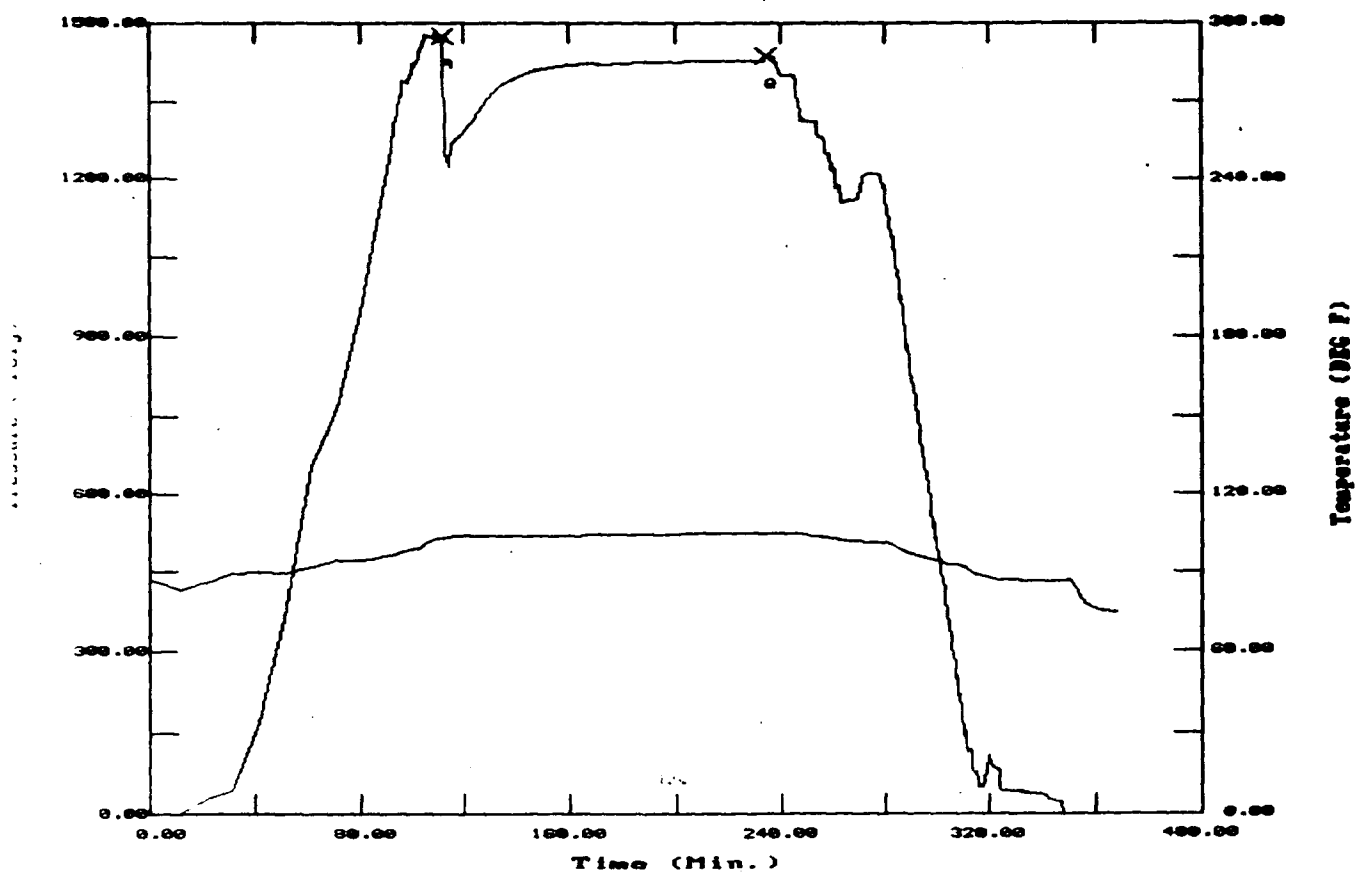
**Note:** DST to evaluate loss circulation zone in Howard Ls (dual packers,  
safety joint, jars, NO bottom sampler, electronic recorders, circulating  
sub)

1) packers DID NOT HOLD

# TEST HISTORY

KS11853 DST#1 Frieden#1 McGinness Oil, Co. of

Flag Points  
 (Min.) Kc P81g  
 At 0.00 1475.75  
 Q: 0.00 1438.40



DST 1 - Chart

ERATOR : McGinness

DATE 09/18/199

LL NAME: Frieden #1

KB 1539.00 ft

TICKET NO: 11853

DST #1

ATION : sec.32 Twp.31s

GR 1534.00 ft

FORMATION: Topeka

TERVAL : 3115.00 To 3273.00 ft

TD 3273.00 ft

TEST TYPE: CONVETIONAL

## ORDER DATA

| ins            | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|----------------|--------|--------|--------|-----|-----|------------------------|
| 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 2258 to 2328 hr |
| 30 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2328 to 2358 hr |
| 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 2358 to 0058 hr |
| 30 Depth(ft )  | 3270.0 | 3270.0 | 3252.0 | 0.0 | 0.0 | FS Fr. 0058 to 0028 hr |

|              | Field  | 1   | 2      | 3   | 4   |                   |
|--------------|--------|-----|--------|-----|-----|-------------------|
| Init Hydro   | 1478.0 | 0.0 | 1476.0 | 0.0 | 0.0 | T STARTED 2036 hr |
| First Flow   | 1236.0 | 0.0 | 1232.0 | 0.0 | 0.0 | T ON BOTM 2255 hr |
| Final Flow   | 1296.0 | 0.0 | 1402.0 | 0.0 | 0.0 | T OPEN 2258 hr    |
| In Shut-in   | 1427.0 | 0.0 | 1421.0 | 0.0 | 0.0 | T PULLED 0028 hr  |
| Init Flow    | 1438.0 | 0.0 | 1420.0 | 0.0 | 0.0 | T OUT 0230 hr     |
| Final Flow   | 1448.0 | 0.0 | 1427.0 | 0.0 | 0.0 |                   |
| Fl Shut-in   | 1448.0 | 0.0 | 1428.0 | 0.0 | 0.0 |                   |
| Final Hydro  | 1559.0 | 0.0 | 1428.0 | 0.0 | 0.0 |                   |
| side/Outside | 0      |     | I      |     |     |                   |

## COVERY

t Fluid 2887.00 ft of 238.00 ft in DC and 2649.00 ft in DP

.00 ft of SWCM 20%water 80%mud

57.00 ft of WCM 80%water 20%mud

.00 ft of Salt water 100%water

00 ft of

00 ft of

00 ft of

00 ft of

00 ft of

LINITY 96000.00 P.P.M. A.P.I. Gravity 0.00

| TOOL DATA-----   |              |
|------------------|--------------|
| Tool Wt.         | 2100.00 lbs  |
| Wt Set On Packer | 20000.00 lbs |
| Wt Pulled Loose  | 65000.00 lbs |
| Initial Str Wt   | 52000.00 lbs |
| Unseated Str Wt  | 64000.00 lbs |
| Bot Choke        | 0.75 in      |
| Hole Size        | 7.88 in      |
| D Col. ID        | 2.25 in      |
| D. Pipe ID       | 3.80 in      |
| D.C. Length      | 238.00 ft    |
| D.P. Length      | 3109.00 ft   |

## MUD DATA-----

| Mud Type   | Chemical   |
|------------|------------|
| Weight     | 8.70 lb/cf |
| Vis.       | 42.00 S/L  |
| W.L.       | 11.00 in3  |
| F.C.       | 0.32 in    |
| Mud Drop N |            |

I:Bled down for 10 mins.no bb.

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 125.00 F |
| Hole Condition | good     |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00 n   |
| Cushion Type   | none     |
| Reversed Out N |          |
| Tool Chased N  |          |

:Strong blow b.o.b in 1 min.

I:Bled down for 10 mins no bb.

MPLES:

NT TO:

|          |                |
|----------|----------------|
| Tester   | Darren Amerine |
| Co. Rep. | Doug           |
| Contr.   | Pickrell       |
| Rig #    | 1              |
| Unit #   | no             |
| Pump T.  | none           |

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVETIONAL

..L NAME: Frieden #1

LOCATION : sec.32 Twp.31s

CKET No. 11853      D.S.T. No. 1      DATE 09/18/199

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

PERVAL TOOL .....

TOM PACKERS AND ANCHOR ..... 33

VAL TOOL ..... 61

ALL COLLAR ANCHOR IN INTERVAL .....

|                 |        |        |       |
|-----------------|--------|--------|-------|
| 2. ANCHOR STND. | Stands | Single | Total |
|-----------------|--------|--------|-------|

|              |          |        |           |
|--------------|----------|--------|-----------|
| ANCHOR STND. | Stands 2 | Single | Total 125 |
|--------------|----------|--------|-----------|

AL ASSEMBLY ..... 186

2. ABOVE TOOLS.Stands4      Single      Total 238

7. ABOVE TOOLS.Stands40 Single Total 3109

VAL DRILL COLLARS DRILL PIPE & TOOLS .. 3295

WATER DEPTH ..... 3273

VAL DRILL PIPE ABOVE K.B. .... 22

**MARKS :**

|                        |      |
|------------------------|------|
| P.O. SUB Top of tool @ | 3088 |
|------------------------|------|

C.O. SUB 3089

S.I. TOOL 3094

HMV 3099

JARS 3104

SAFETY JOINT 3106

PACKER 3110

PACKER 3115

DEPTH 3115

STUBB 1'to 3116

ANCHOR 5' of perfs.to 3121

|       |  |
|-------|--|
| T.C.  |  |
| DEPTH |  |

|                   |      |
|-------------------|------|
| 124' of drillpipe | 3245 |
|-------------------|------|

```
Alpine rec.@3252
23'of perfs.to      3268
                     3268
```

Ak-1 rec.@ 3270

|                                |      |
|--------------------------------|------|
| BULLNOSE 5'bullnose to<br>T.D. | 3273 |
|--------------------------------|------|

DST 2) 3890 - 3910 (KC Drum)

Times: 30-30-30-30

1st open: weak blow building to 2" in bucket  
(bled off for 10 minutes, NO BLOW BACK)

2nd open: weak blow building to 1/4" in bucket  
(NO BLOW BACK)

Rec: NO GAS IN PIPE  
120' WCM (50% wtr, 50% mud)  
120' total fluid

RW of formation water: 0.21 at 80 degrees F  
Chlorides of formation water: 32,000 PPM  
Chlorides of Mud System: 4,000 PPM

| AK-1<br>(mechanical) | Alpine<br>(electronic) | -- RECORDERS |
|----------------------|------------------------|--------------|
| IHYD: 1957 psi       | IHYD: 1852 psi         |              |
| IFP: 61-20 psi       | IFP: 20-43 psi         |              |
| IBHP: 1498 psi       | IBHP: 1488 psi         |              |
| FFP: 111-132 psi     | FFP: 57-71 psi         |              |
| FBHP: 1498 psi       | FBHP: 1485 psi         |              |
| FHYD: 1906 psi       | FHYD: 1817 psi         |              |

TEMP: 114 degrees F

Bottom Sampler - NONE

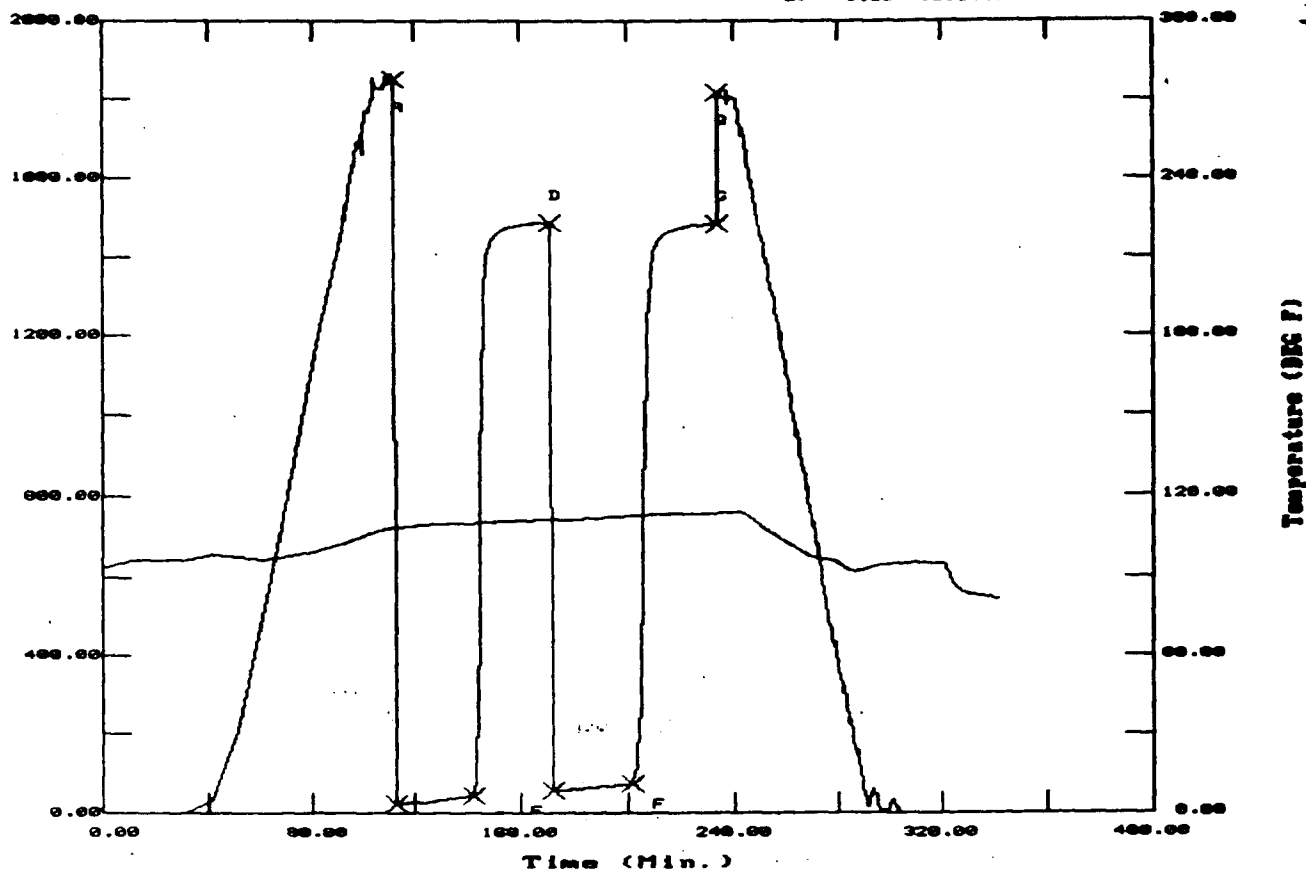
Tester: Darren Amerine, Trilobite Testing L.L.C., Pratt, Kansas

**Note:** (dual packers, safety joint, jars, NO bottom sampler, electronic recorders, circulating sub)

# TEST HISTORY

(#11854 DST#2 Frieden #1 McGinness Oil, Co. of

|        | Flag Points   |
|--------|---------------|
| (Min.) | PC PSig)      |
| A      | 0.00 1851.00  |
| B      | 0.00 20.41    |
| C      | 29.50 42.90   |
| D      | 29.50 1400.41 |
| E      | 0.00 50.00    |
| F      | 29.50 70.50   |
| G      | 32.00 1404.00 |
| H      | 0.00 1010.39  |



DST 2 - Chart

DRATOR : McGinness Oil,Co.of Ks.  
L NAME: Frieden #1  
ATION : Sec.32 Twp.31s Rge,12w  
ERVAL : 3890.00 To 3910.00 ft

DATE 09/20/199  
KB 1539.00 ft TICKET NO: 11854 DST #2  
GR 1534.00 ft FORMATION: Drum  
TD 3910.00 ft TEST TYPE: CONVENTIONAL

#### ORDER DATA

| ns             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|----------------|--------|--------|--------|-----|-----|------------------------|
| 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 2013 to 2043 hr |
| 30 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2043 to 2113 hr |
| 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 2113 to 2143 hr |
| 30 Depth(ft )  | 3907.0 | 3907.0 | 3896.0 | 0.0 | 0.0 | FS Fr. 2143 to 2213 hr |

|              | Field  | 1   | 2      | 3   | 4   |                               |
|--------------|--------|-----|--------|-----|-----|-------------------------------|
| Init Hydro   | 1957.0 | 0.0 | 1852.0 | 0.0 | 0.0 | T STARTED 1820 hr             |
| First Flow   | 61.0   | 0.0 | 20.0   | 0.0 | 0.0 | T ON BOTM 2011 hr             |
| Final Flow   | 81.0   | 0.0 | 43.0   | 0.0 | 0.0 | T OPEN 2013 hr                |
| In Shut-in   | 1498.0 | 0.0 | 1488.0 | 0.0 | 0.0 | T PULLED 2213 hr              |
| Init Flow    | 111.0  | 0.0 | 57.0   | 0.0 | 0.0 | T OUT 2330 hr                 |
| Final Flow   | 132.0  | 0.0 | 71.0   | 0.0 | 0.0 |                               |
| Fl Shut-in   | 1498.0 | 0.0 | 1485.0 | 0.0 | 0.0 | TOOL DATA-----                |
| Final Hydro  | 1906.0 | 0.0 | 1817.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| side/Outside | 0      |     | I      |     |     | Wt Set On Packer 20000.00 lbs |

#### COVERY

|       |                                  |               |                 |              |
|-------|----------------------------------|---------------|-----------------|--------------|
| Fluid | 120.00 ft of 120.00 ft in DC and | 0.00 ft in DP | Unseated Str Wt | 54000.00 lbs |
| 0.00  | ft of WCM 50%Mud 50%Water        |               | Bot Choke       | 0.75 in      |
| 10    | ft of                            |               | Hole Size       | 7.88 in      |
| 10    | ft of                            |               | D Col. ID       | 2.25 in      |
| 10    | ft of                            |               | D. Pipe ID      | 3.80 in      |
| 10    | ft of                            |               | D.C. Length     | 238.00 ft    |
| 10    | ft of                            |               | D.P. Length     | 3544.00 ft   |
| 10    | ft of                            |               |                 |              |

INITY 32000.00 P.P.M. A.P.I. Gravity 0.00

#### W DESCRIPTION

Weak blow built to 2ins.in H2O.

:Bled down for 2 mins.no bb.

Weak blow built to 1/4 ins.in H2O.

:Bled down for 10 mins.no bb.

IPLES:

IT TO:

MUD DATA-----  
Mud Type Chemical  
Weight 9.10 lb/cf  
Vis. 56.00 S/L  
W.L. 12.00 in3  
F.C. 0.32 in  
Mud Drop Y 60.0 ft

Amt. of fill 0.00 ft  
Btm. H. Temp. 114.00 F  
Hole Condition fair  
% Porosity 0.00  
Packer Size 6.75 in  
No. of Packers 0  
Cushion Amt. 0.00 n  
Cushion Type none  
Reversed Out N  
Tool Chased N  
Tester Darren Amerine  
Co. Rep. Doug McGinness  
Contr. pickerll  
Rig # 1  
Unit # none  
Pump T. no

Test Successful: Y

DST 3) 4480 - 4522 (Simpson Sand)

Times: 30-60-30-60

1st open: weak surface blow died in 14 minutes  
(NO BLOW BACK)

2nd open: NO BLOW

Rec: NO GAS IN PIPE

10' VSWCM (2% wtr, 98% mud)  
10' total fluid

Chlorides of Mud System: 4,000 PPM

| AK-1         |     | Alpine       |     | -- RECORDERS |
|--------------|-----|--------------|-----|--------------|
| (mechanical) |     | (electronic) |     |              |
| IHYD: 2348   | psi | IHYD: 2214   | psi |              |
| IFP: 41-51   | psi | IFP: 22-20   | psi |              |
| IBHP: 152    | psi | IBHP: 133    | psi |              |
| FFP: 41-41   | psi | FFP: 23-22   | psi |              |
| FBHP: 71     | psi | FBHP: 46     | psi |              |
| FHYD: 2278   | psi | FHYD: 2180   | psi |              |

TEMP: 122 degrees F

Bottom Sampler - NONE

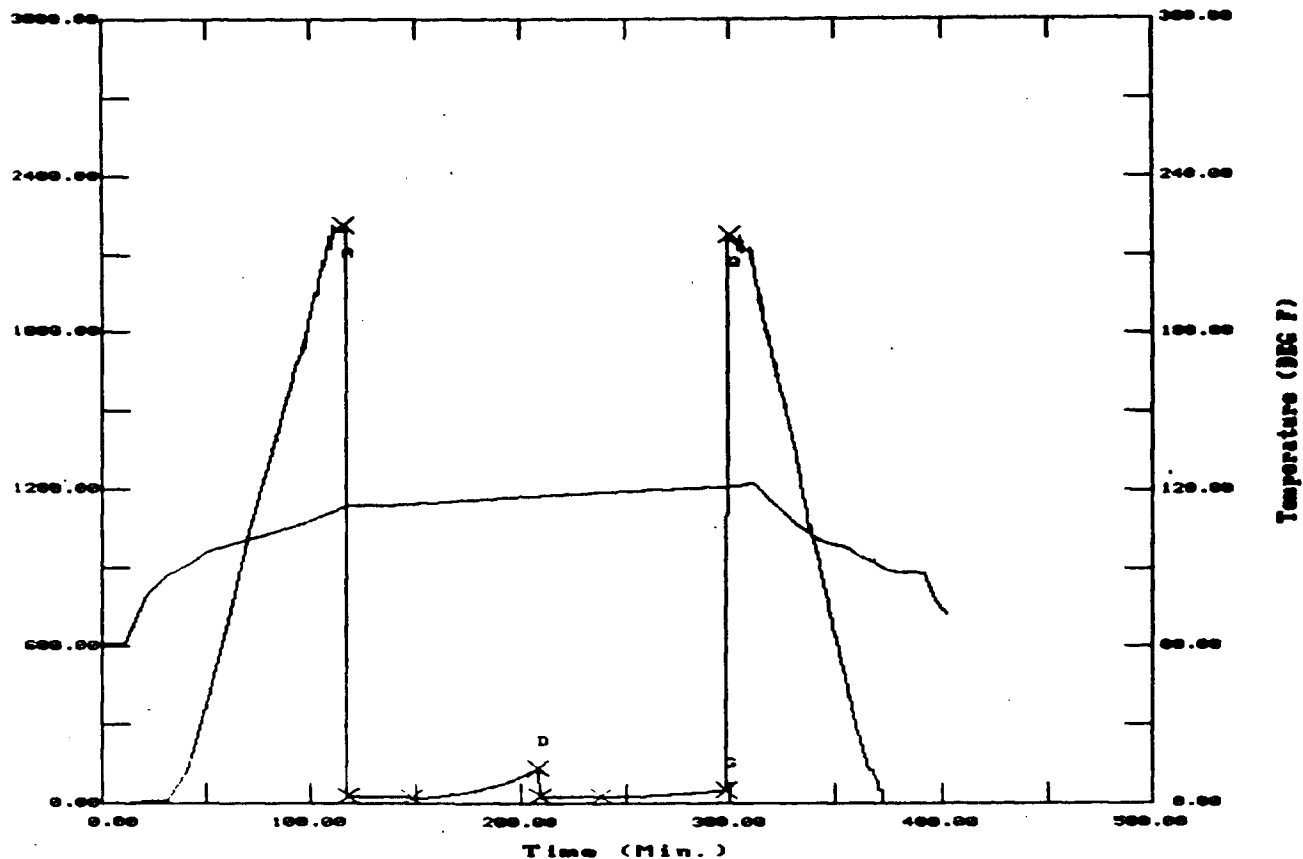
Tester: Darren Amerine, Trilobite Testing L.L.C., Pratt, Kansas

**Note:** (dual packers, safety joint, jars, NO bottom sampler, electronic recorders, circulating sub)

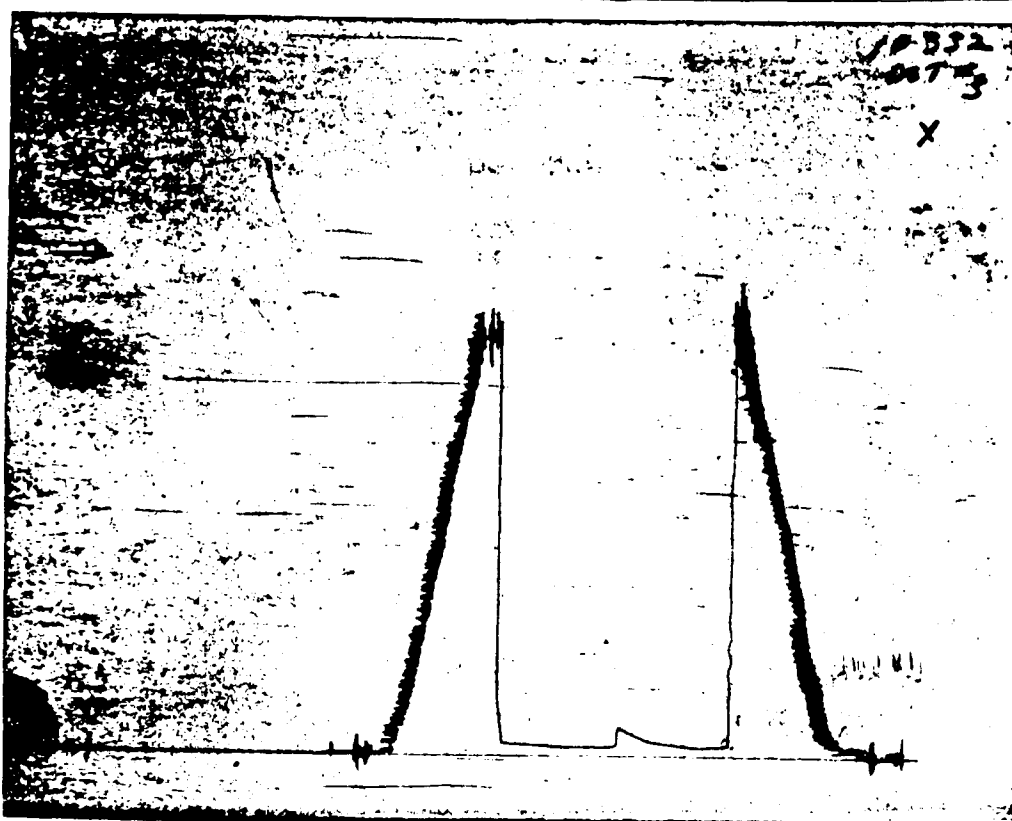
# TEST HISTORY

#11855 DST#3 Frieden #1 McGinness Oil, co. of

|        | Flag Points |         |
|--------|-------------|---------|
| (Min.) | K (Psi)     |         |
| A1     | 0.00        | 2213.75 |
| B1     | 0.00        | 21.83   |
| C1     | 30.00       | 20.43   |
| D1     | 60.50       | 132.50  |
| E1     | 0.00        | 23.24   |
| F1     | 29.50       | 22.11   |
| G1     | 60.50       | 48.11   |
| Q1     | 0.00        | 2179.67 |



DST 3 - Chart (electronic)



DST 3 - Chart (mechanical)

# TRILOBITE TESTING L.L.C.

ERATOR : McGinness Oil,co.of Ks.  
 LL NAME: Frieden  
 ATION : Sec.32 Twp.31s Rge.12w  
 ERVAL : 4480.00 To 4522.00 ft

DATE 09/22/199  
 KB 1539.00 ft  
 GR 1534.00 ft  
 TD 4522.00 ft  
 TICKET NO: 11855  
 FORMATION: Simpson  
 TEST TYPE: CONVENTIONAL  
 DST #3

## ORDER DATA

| ins           | Field  | 1      | 2      | 3   | 4   | TIME DATA              |
|---------------|--------|--------|--------|-----|-----|------------------------|
| 30 Rec.       | 10332  | 10332  | 2357   |     |     | PF Fr. 1947 to 2017 hr |
| 60 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2017 to 2117 hr |
| 30 Clock(hrs) | 12hr   | 12hr   | elec   |     |     | SF Fr. 2117 to 2147 hr |
| 60 Depth(ft)  | 4519.0 | 4519.0 | 4492.0 | 0.0 | 0.0 | FS Fr. 2147 to 2247 hr |

|              | Field  | 1   | 2      | 3   | 4   |                   |
|--------------|--------|-----|--------|-----|-----|-------------------|
| Init Hydro   | 2348.0 | 0.0 | 2214.0 | 0.0 | 0.0 | T STARTED 1748 hr |
| First Flow   | 41.0   | 0.0 | 22.0   | 0.0 | 0.0 | T ON BOTM 1945 hr |
| Final Flow   | 51.0   | 0.0 | 20.0   | 0.0 | 0.0 | T OPEN 1947 hr    |
| In Shut-in   | 152.0  | 0.0 | 133.0  | 0.0 | 0.0 | T PULLED 2247 hr  |
| Init Flow    | 41.0   | 0.0 | 23.0   | 0.0 | 0.0 | T OUT 0000 hr     |
| Final Flow   | 41.0   | 0.0 | 22.0   | 0.0 | 0.0 |                   |
| Fl Shut-in   | 71.0   | 0.0 | 46.0   | 0.0 | 0.0 |                   |
| Final Hydro  | 2278.0 | 0.0 | 2180.0 | 0.0 | 0.0 |                   |
| side/Outside | 0      |     | I      |     |     |                   |

COVERY  
 t Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP  
 00 ft of VSWCM 98% Mud 2% water  
 00 ft of  
 00 ft of  
 00 ft of  
 00 ft of  
 00 ft of  
 00 ft of  
 00 ft of  
 00 ft of

TOOL DATA-----  
 Tool Wt. 2100.00 lbs  
 Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 65000.00 lbs  
 Initial Str Wt 60000.00 lbs  
 Unseated Str Wt 60000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 238.00 ft  
 D.P. Length 4236.00 ft

LINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## OW DESCRIPTION

:Weak surface blow died in 14 mins.

I:No bb.

:No blow.

I:No bb.

MPLES:

NT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 51.00 S/l  
 W.L. 9.00 in3  
 F.C. 0.32 in  
 Mud Drop Y 60.0 ft  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 122.00 F  
 Hole Condition fair  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 n  
 Cushion Type none  
 Reversed Out N  
 Tool Chased N  
 Tester Darren Amerine  
 Co. Rep. Ken LaBlanc  
 Contr. Pickrell  
 Rig # 1  
 Unit # no  
 Pump T. none

Test Successful: Y

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

WELL NAME: Frieden

LOCATION : Sec.32 Twp.31s Rge.12w

WELL No. 11855 D.S.T. No. 3 DATE 09/22/199

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

INTERVAL TOOL ..... 28

TOTAL PACKERS AND ANCHOR ..... 42

TOTAL TOOL ..... 70

WELL COLLAR ANCHOR IN INTERVAL ..... 70

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY ..... 238

C. ABOVE TOOLS.Stands4 Single Total 238

P. ABOVE TOOLS.Stands69 Single Total 4236

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4544

TOTAL DEPTH ..... 4522

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

MARKS:

|                         |      |
|-------------------------|------|
| P.O. SUB Top of tool @  | 4453 |
| C.O. SUB                | 4454 |
| S.I. TOOL               | 4459 |
| HMV                     | 4464 |
| JARS                    | 4469 |
| SAFETY JOINT            | 4471 |
| PACKER                  | 4475 |
| PACKER                  | 4480 |
| DEPTH 4480              | 4481 |
| STUBB 1' to             | 4486 |
| ANCHOR 5' of perfs. to  |      |
| Alpine rec.@ 4492       |      |
| T.C. DEPTH              |      |
| 31' of perfs.to         | 4486 |
| Ak-1 rec.@ 4519         | 4486 |
| BULLNOSE 5' bullnose to | 4517 |
| T.D.                    | 4522 |

DST 4) 4500 - 4527 (Simpson Sand)

Times: 30-60-30-60

1st open: weak blow building to 1½" in bucket  
(bled off for 5 minutes, NO BLOWBACK)

2nd open: weak blow built to 1/4" in bucket  
(bled off for 5 minutes, NO BLOWBACK)

Rec: NO GAS IN PIPE

40' SOCM (10% oil, 90% mud)

50' VSOCMW (10% oil, 30% wtr, 60% mud)

90' total fluid

Resistivity of formation water: 0.31 at 88 degrees F

Chlorides of formation water: 19,000 PPM

Chlorides of mud system: 5,000 PPM

| AK-1<br>(mechanical) |     | Alpine<br>(electronic) |     | -- RECORDERS |
|----------------------|-----|------------------------|-----|--------------|
| IHYD: 2388           | psi | IHYD: 2241             | psi |              |
| IFP: 20-30           | psi | IFP: 21-35             | psi |              |
| IBHP: 1671           | psi | IBHP: 1677             | psi |              |
| FFP: 51-61           | psi | FFP: 45-60             | psi |              |
| FBHP: 1661           | psi | FBHP: 1656             | psi |              |
| FHYD: 2288           | psi | FHYD: 2159             | psi |              |

TEMP: 124 degrees F

Bottom Sampler

Sampler Recovery

Gas: NONE  
Oil: trace  
H2O: 1200 ml  
Mud: 2800 ml  
Tot Fluid: 4000 ml  
Pressure: 150 psi

Pit Mud Analysis

Chlorides: 5000 PPM  
Viscosity: 45 sec/qt  
Mud Weight: 9.0 lb/gal  
Water Loss: 9.0 cc  
LCM: 3.0 lb/gal

Sampler Analysis

Chlorides: 27000 PPM  
Resistivity: 0.2 ohms at 88 deg F

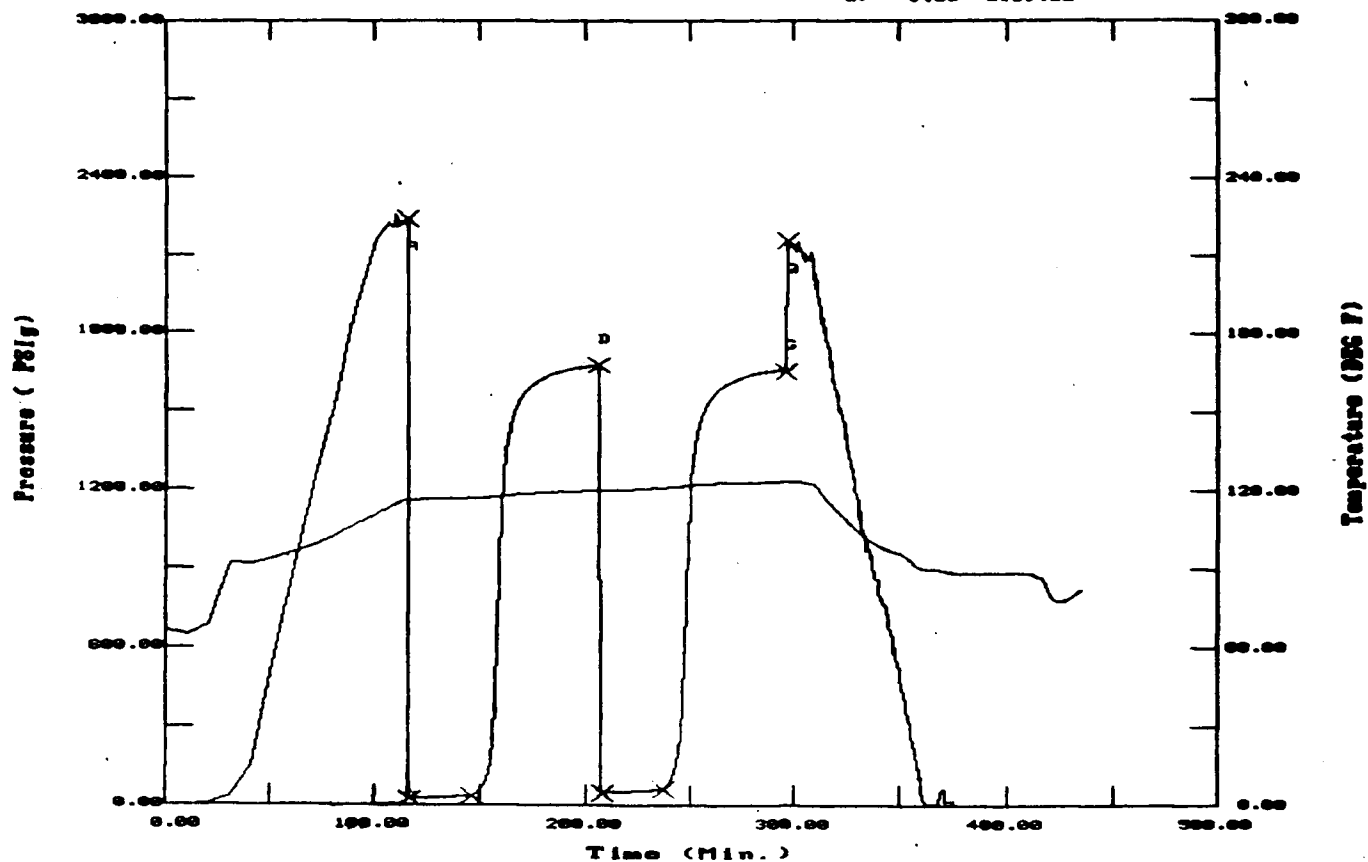
Tester: Darren Amerine, Trilobite Testing L.L.C., Pratt, Kansas

**Note:** (dual packers-top, safety joint, jars, bottom sampler, electronic recorders, circulating sub)

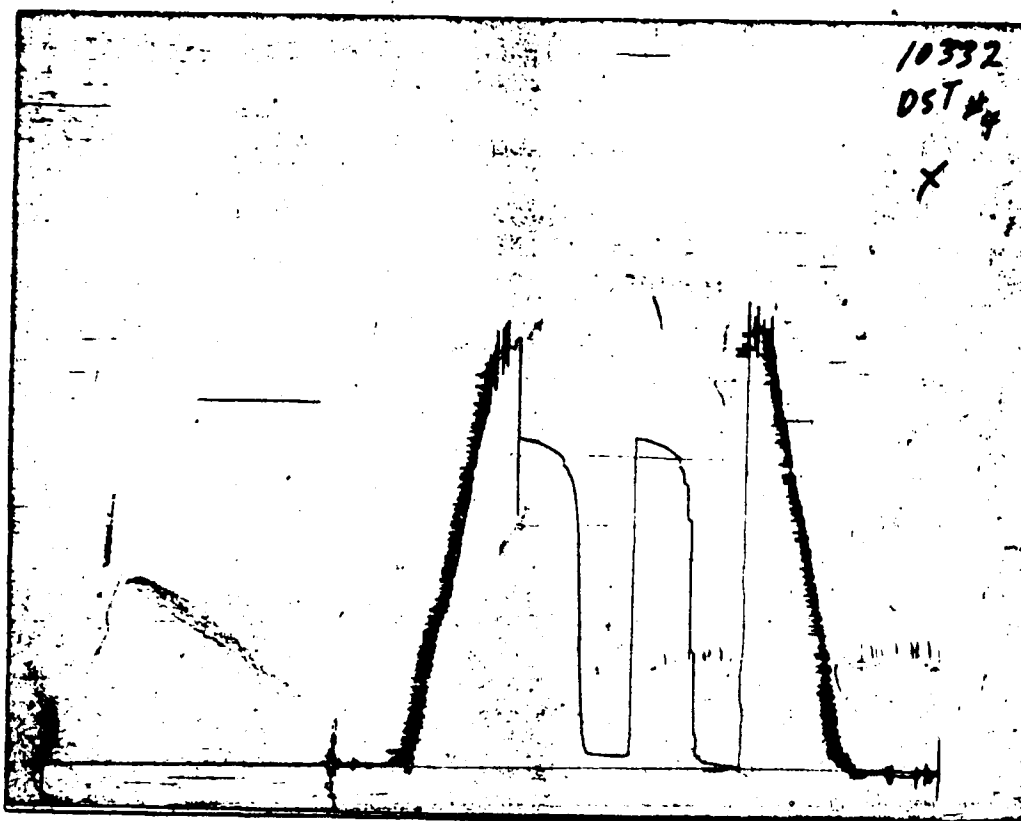
# TEST HISTORY

Tk811856 DST#4 Frieden #1 McGinness Oil, co. of

|        | Flag Points |         |
|--------|-------------|---------|
| (Min.) | (Psi)       |         |
| A1     | 0.00        | 2240.93 |
| B1     | 0.00        | 20.53   |
| C1     | 29.50       | 34.91   |
| D1     | 59.50       | 1077.39 |
| E1     | 0.00        | 45.39   |
| F1     | 29.50       | 59.69   |
| G1     | 59.50       | 1055.90 |
| H1     | 0.00        | 2159.22 |



DST 4 - Chart (electronic)



DST 4 - Chart (mechanical)

OPERATOR : McGinness oil,co.of Ks.  
 WELL NAME: Frieden  
 LOCATION : Sec.32 Twp.31s  
 INTERVAL : 4500.00 To 4527.00 ft

DATE 09/23/199  
 KB 1539.00 ft TICKET NO: 11856 DST #4  
 GR 1534.00 ft FORMATION: Simpson  
 TD 4527.00 ft TEST TYPE: CONVENTIONAL

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 0924 to 0954 hr |
| SI 60 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0954 to 1054 hr |
| SF 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 1054 to 1124 hr |
| FS 60 Depth(ft )  | 4524.0 | 4524.0 | 4505.0 | 0.0 | 0.0 | FS Fr. 1124 to 1224 hr |

|                | Field  | 1   | 2      | 3   | 4   |                               |
|----------------|--------|-----|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2388.0 | 0.0 | 2241.0 | 0.0 | 0.0 | T STARTED 0727 hr             |
| B. First Flow  | 20.0   | 0.0 | 21.0   | 0.0 | 0.0 | T ON BOTM 0921 hr             |
| BI. Final Flow | 30.0   | 0.0 | 35.0   | 0.0 | 0.0 | T OPEN 0924 hr                |
| C. In Shut-in  | 1671.0 | 0.0 | 1677.0 | 0.0 | 0.0 | T PULLED 1224 hr              |
| D. Init Flow   | 51.0   | 0.0 | 45.0   | 0.0 | 0.0 | T OUT 1350 hr                 |
| E. Final Flow  | 61.0   | 0.0 | 60.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1661.0 | 0.0 | 1656.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2288.0 | 0.0 | 2159.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| Inside/Outside | 0      |     | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |     |        |     |     | Wt Pulled Loose 65000.00 lbs  |
|                |        |     |        |     |     | Initial Str Wt 60000.00 lbs   |
|                |        |     |        |     |     | Unseated Str Wt 60000.00 lbs  |
|                |        |     |        |     |     | Bot Choke 0.75 in             |
|                |        |     |        |     |     | Hole Size 7.88 in             |
|                |        |     |        |     |     | D Col. ID 2.25 in             |
|                |        |     |        |     |     | D. Pipe ID 3.80 in            |
|                |        |     |        |     |     | D.C. Length 238.00 ft         |
|                |        |     |        |     |     | D.P. Length 4264.00 ft        |

## RECOVERY

Bot Fluid 90.00 ft of 90.00 ft in DC and 0.00 ft in DP  
 10.00 ft of SOCM 10%oil 90%mud  
 50.00 ft of VSOCMW 10%oil 30%water 60%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 19000.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

F:Weak blow built to 1-1/2" in H2O.

SI:Bled down for 5 mins.no bb.

F:Weak blow built to 1/4" in H2O.

SI:Bled down for 5 mins no bb.

AMPLES:  
 ENT TO:

MUD DATA-----

| Mud Type       | Chemical       |
|----------------|----------------|
| Weight         | 9.00 lb/cf     |
| Vis.           | 45.00 S/L      |
| W.L.           | 9.00 in3       |
| F.C.           | 0.32 in        |
| Mud Drop N     |                |
| Amt. of fill   | 0.00 ft        |
| Btm. H. Temp.  | 124.00 F       |
| Hole Condition | fair           |
| % Porosity     | 0.00           |
| Packer Size    | 6.75 in        |
| No. of Packers | 2              |
| Cushion Amt.   | 0.00 n         |
| Cushion Type   | none           |
| Reversed Out N |                |
| Tool Chased N  |                |
| Tester         | Darren Amerine |
| Co. Rep.       | Ken LaBlanc    |
| Contr.         | Pickrell       |
| Rig #          | 1              |
| Unit #         | no             |
| Pump T.        | none           |

Test Successful: Y

WELL NAME: Frieden

LOCATION : Sec.32 Twp.31s

WELL No. 11856 D.S.T. No. 4 DATE 09/23/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 27

TOTAL TOOL ..... 58

WELL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY .....

C. ABOVE TOOLS.Stands4 Single Total 238

P. ABOVE TOOLS.Stands69 Single 1 Total 4264

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4557

TOTAL DEPTH ..... 4527

TOTAL DRILL PIPE ABOVE K.B. .... 30

MARKS:

Fluid sampler data

Sampler recovery Sampler Analysis  
s-----ML. Res.-.2---Ohms@--88--F  
l---trace----ML. Chlorides--27000---PPM.  
d--2800-----ML. Gravity-----Corr.@60°F  
ter--1200-----ML.  
her---1cm-----ML.  
assure--150---Psi.  
tal--4000-----ML.

P.O. SUB Top of tool @ 4470

C.O. SUB 4471

S.I. TOOL 4476

fluid sampler 3' 4479

HMV 4484

JARS 4489

SAFETY JOINT 4491

PACKER 4495

PACKER 4500

DEPTH 4500

STUBB 1'to 4501

ANCHOR 21' of perfs.to 4522

Alpine rec.@ 4505

4522

4522

T.C.  
DEPTH

4522

Ak-1 rec.@4524

BULLNOSE 5'bullnose to 4527

T.D.

STANDARD

ORIGINAL

KCC

**WELL NAME:**  
**COMPANY:**  
**LOCATION:**

Frieden #1  
McGinness Oil Co. of Kansas  
32-31s-12w  
Barber County, Kansas  
9/25/98

NOV

CO. ORIGINAL

**DATE:**

15-007-22580

FROM STANDARD

TRILOBITE TESTING L.L.C.

OPERATOR : McGinness Oil Co. of KS DATE 09/18/199  
 WELL NAME: Frieden #1 KB 1539.00 ft TICKET NO: 11853 DST #1  
 LOCATION : 32-31s-12w Barber co. KS GR 1534.00 ft FORMATION: Topeka  
 INTERVAL : 3115.00 To 3273.00 ft TD 3273.00 ft TEST TYPE: CONVETIONAL

REORDER DATA

| Mins           | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|----------------|--------|--------|--------|-----|-----|------------------------|
| 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 2258 to 2328 hr |
| 30 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2328 to 2358 hr |
| 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 2358 to 0058 hr |
| 30 Depth(ft )  | 3270.0 | 3270.0 | 3252.0 | 0.0 | 0.0 | FS Fr. 0058 to 0028 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| Init Hydro     | 1478.0 | 1463.0 | 1476.0 | 0.0 | 0.0 | T STARTED 2036 hr             |
| First Flow     | 1236.0 | 1175.0 | 1232.0 | 0.0 | 0.0 | T ON BOTM 2255 hr             |
| Final Flow     | 1296.0 | 1292.0 | 1401.0 | 0.0 | 0.0 | T OPEN 2258 hr                |
| In Shut-in     | 1427.0 | 1396.0 | 1423.0 | 0.0 | 0.0 | T PULLED 0028 hr              |
| Init Flow      | 1438.0 | 1417.0 | 1420.0 | 0.0 | 0.0 | T OUT 0230 hr                 |
| Final Flow     | 1448.0 | 1417.0 | 1426.0 | 0.0 | 0.0 |                               |
| Fl Shut-in     | 1448.0 | 1423.0 | 1428.0 | 0.0 | 0.0 | TOOL DATA-----                |
| Final Hydro    | 1559.0 | 1518.0 | 1438.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| Inside/Outside | O      | O      | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 65000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 52000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 64000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 238.00 ft         |
|                |        |        |        |     |     | D.P. Length 3109.00 ft        |

RECOVERY

|                                                              |  |
|--------------------------------------------------------------|--|
| Not Fluid 2887.00 ft of 238.00 ft in DC and 2649.00 ft in DP |  |
| 0.00 ft of Slightly water cut mud 20%water 80%mud            |  |
| 767.00 ft of Water Cut Mud 80%water 20%mud                   |  |
| 0.00 ft of Salt water 100%water                              |  |
| 0.00 ft of                                                   |  |
| 0.00 ft of                                                   |  |
| 0.00 ft of                                                   |  |
| 0.00 ft of                                                   |  |
| 0.00 ft of                                                   |  |
| 0.00 ft of                                                   |  |

ALINITY 96000.00 P.P.M. A.P.I. Gravity 0.00

LOW DESCRIPTION

Initial Flow:  
 Strong blow - bottom of bucket  
 in 15 seconds

Initial Shutin:

Bled down for 10 min - no blow back

Final Flow:

Strong blow bottom of bucket  
 in 1 minute

Final Shutin:

Bled down for 10 min - no blow back

SAMPLES:

ENT TO:

MUD DATA-----

|                |                |
|----------------|----------------|
| Mud Type       | Chemical       |
| Weight         | 8.70 lb/cf     |
| Vis.           | 42.00 S/L      |
| W.L.           | 11.00 in3      |
| F.C.           | 0.32 in        |
| Mud Drop N     |                |
| Amt. of fill   | 0.00 ft        |
| Btm. H. Temp.  | 125.00 F       |
| Hole Condition | good           |
| % Porosity     | 0.00           |
| Packer Size    | 6.75 in        |
| No. of Packers | 2              |
| Cushion Amt.   | 0.00 n         |
| Cushion Type   | none           |
| Reversed Out N |                |
| Tool Chased N  |                |
| Tester         | Darren Amerine |
| Co. Rep.       | Doug           |
| Contr.         | Pickrell       |
| Rig #          | 1              |
| Unit #         | no             |
| Pump T.        | none           |

Test Successful: Y

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

|                                                |  |                        |      |
|------------------------------------------------|--|------------------------|------|
| WELL NAME: Frieden #1                          |  | P.O. SUB Top of tool @ | 3088 |
|                                                |  | C.O. SUB               | 3089 |
|                                                |  | S.I. TOOL              | 3094 |
| WELL No. 11853 D.S.T. No. 1 DATE 09/18/199     |  |                        |      |
| TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28   |  | HMV                    | 3099 |
| INTERVAL TOOL .....                            |  | JARS                   | 3104 |
| TOTAL PACKERS AND ANCHOR ..... 33              |  |                        |      |
| TOTAL TOOL ..... 61                            |  |                        |      |
| FILL COLLAR ANCHOR IN INTERVAL .....           |  |                        |      |
| C. ANCHOR STND.Stands Single Total             |  | SAFETY JOINT           | 3106 |
| P. ANCHOR STND.Stands 2 Single Total 125       |  | PACKER                 | 3110 |
| TOTAL ASSEMBLY ..... 186                       |  | PACKER                 | 3115 |
| C. ABOVE TOOLS.Stands4 Single Total 238        |  | DEPTH 3115             |      |
| P. ABOVE TOOLS.Stands40 Single Total 3109      |  | STUBB 1'to             | 3116 |
|                                                |  | ANCHOR 5' of perms.to  | 3121 |
| TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3295 |  |                        |      |
| TOTAL DEPTH ..... 3273                         |  |                        | 3121 |
| TOTAL DRILL PIPE ABOVE K.B. .... 22            |  |                        | 3121 |
| REMARKS:                                       |  |                        |      |
|                                                |  | T.C.                   |      |
|                                                |  | DEPTH                  |      |
|                                                |  | 124'of drillpipe       | 3245 |
|                                                |  | Alpine rec.@3252       |      |
|                                                |  | 23'of perms.to         | 3268 |
|                                                |  |                        | 3268 |
|                                                |  | Ak-1 rec.@ 3270        |      |
|                                                |  | BULLNOSE 5'bullnose to | 3273 |
|                                                |  | T.D.                   |      |

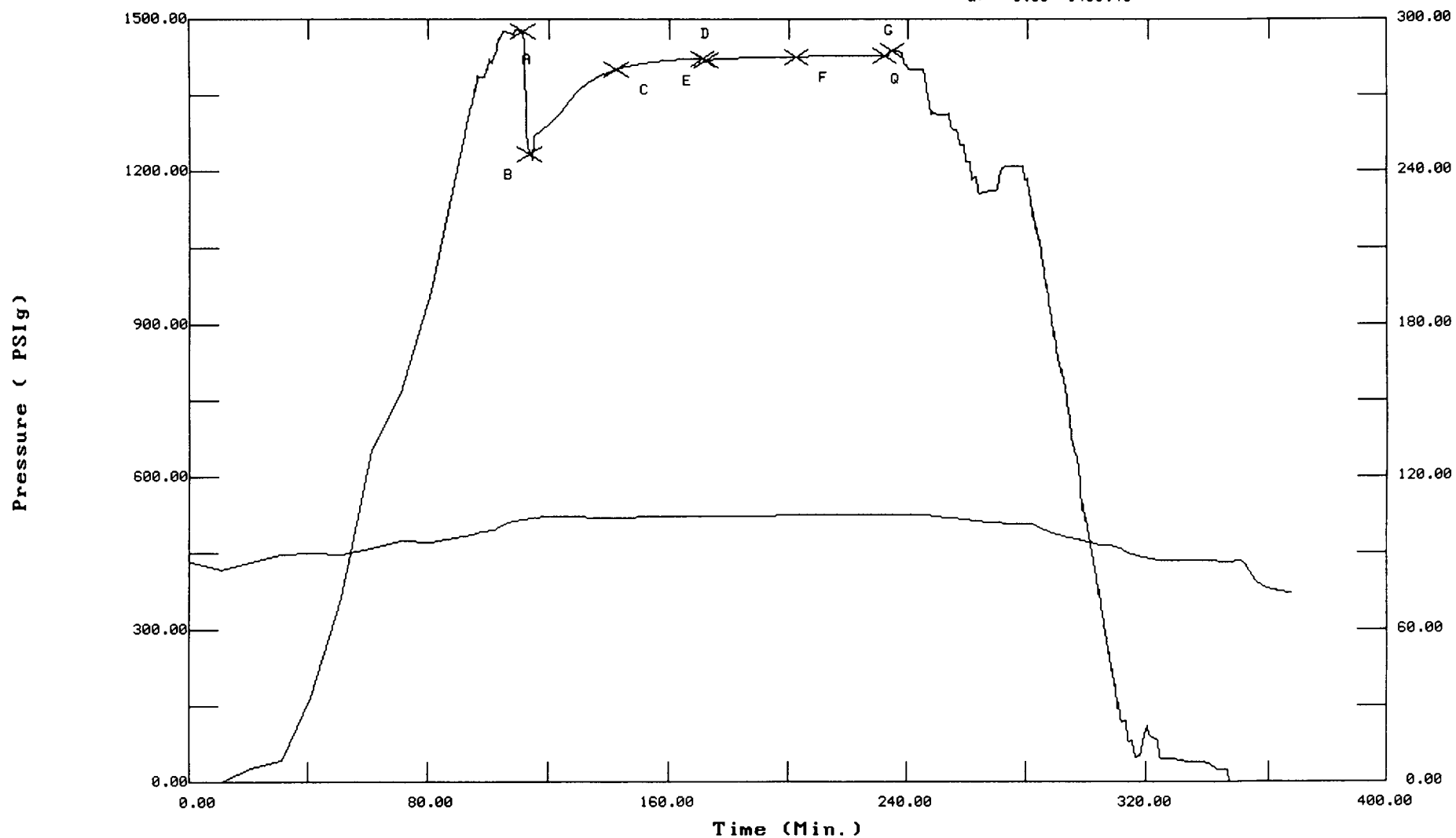
# TEST HISTORY

TK#11853 DST#1 Frieden#1 McGinness Oil, Co. of Ks.

Flag Points

t(Min.) P( PSIg)

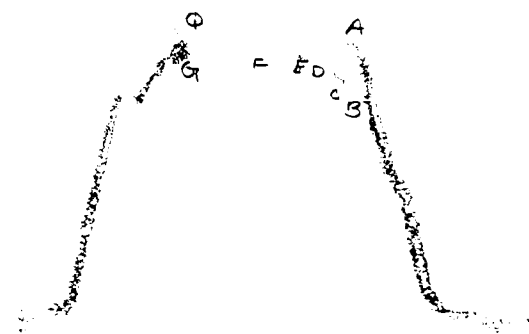
|    |       |         |
|----|-------|---------|
| A: | 0.00  | 1475.75 |
| B: | 0.00  | 1232.36 |
| C: | 29.00 | 1401.69 |
| D: | 28.50 | 1423.96 |
| E: | 0.00  | 1420.36 |
| F: | 30.00 | 1426.82 |
| G: | 29.50 | 1428.29 |
| Q: | 0.00  | 1438.40 |



# CHART PAGE

10332  
DST #1

X



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 11853

|                 |                                                 |                           |                    |                 |                                               |
|-----------------|-------------------------------------------------|---------------------------|--------------------|-----------------|-----------------------------------------------|
| Well Name & No. | <u>Frieden #1</u>                               | Test No.                  | <u>#1</u>          | Date            | <u>09/18/1998</u>                             |
| Company         | <u>McGinness Oil, Co. of Ks. Inc.</u>           | Zone Tested               | <u>Topeka</u>      |                 |                                               |
| Address         | <u>150 N Main, Suite 1026 Wichita KS, 67202</u> | Elevation                 | <u>1539</u>        | KB              | <u>1534</u> GL                                |
| Co. Rep / Geo.  | <u>Doug McGinness</u>                           | Cont.                     | <u>Pickrell #1</u> | Est. Ft. of Pay | <u>    </u> Por. <u>    </u> %                |
| Location: Sec.  | <u>32</u>                                       | Twp.                      | <u>31 S</u>        | Rge.            | <u>12 W</u> Co. <u>Barber</u> State <u>Ks</u> |
| No. of Copies   | <u>5</u>                                        | Distribution Sheet (Y, N) | <u>    </u>        | Turnkey (Y, N)  | <u>    </u> Evaluation (Y, N) <u>    </u>     |

|                     |                                                       |                     |                  |                       |               |
|---------------------|-------------------------------------------------------|---------------------|------------------|-----------------------|---------------|
| Interval Tested     | <u>3115 - 3273</u>                                    | Initial Str Wt/Lbs. | <u>52000</u>     | Unseated Str Wt/Lbs.  | <u>64,000</u> |
| Anchor Length       | <u>158'</u>                                           | Wt. Set Lbs.        | <u>29,000</u>    | Wt. Pulled Loose/Lbs. | <u>65,000</u> |
| Top Packer Depth    | <u>3110'</u>                                          | Tool Weight         | <u>9100</u>      |                       |               |
| Bottom Packer Depth | <u>3115'</u>                                          | Hole Size — 7 7/8"  | <u>L</u>         | Rubber Size — 6 3/4"  | <u>L</u>      |
| Total Depth         | <u>3273</u>                                           | Wt. Pipe Run        | <u>N/A</u>       | Drill Collar Run      | <u>238</u>    |
| Mud Wt.             | <u>8.7</u> LCM <u>0</u> Vis. <u>42</u> WL <u>11.0</u> | Drill Pipe Size     | <u>4 1/2 X H</u> | Ft. Run               | <u>3009'</u>  |

Blow Description IF: Strong blow D.O.B in 15 sec.  
IF: Bleed down for 10 mins. No bb.  
FF: Strong blow D.O.B in 1 min. slowly died back to 6" in bucket  
FSL: Bleed down for 10 mins. No bb

|                       |                           |           |                   |              |             |                      |              |            |             |             |
|-----------------------|---------------------------|-----------|-------------------|--------------|-------------|----------------------|--------------|------------|-------------|-------------|
| Recovery — Total Feet | <u>2007'</u>              | GIP       | <u>N/A</u>        | Ft. in DC    | <u>238'</u> | Ft. in DP            | <u>2679'</u> |            |             |             |
| Rec.                  | <u>60</u>                 | Feet Of   | <u>SWCM</u>       | %gas         | <u>    </u> | %oil                 | <u>20</u>    | %water     | <u>80</u>   | %mud        |
| Rec.                  | <u>2767</u>               | Feet Of   | <u>WCM</u>        | %gas         | <u>    </u> | %oil                 | <u>80</u>    | %water     | <u>20</u>   | %mud        |
| Rec.                  | <u>60</u>                 | Feet Of   | <u>Salt Water</u> | %gas         | <u>    </u> | %oil                 | <u>100</u>   | %water     | <u>    </u> | %mud        |
| Rec.                  | <u>    </u>               | Feet Of   | <u>    </u>       | %gas         | <u>    </u> | %oil                 | <u>    </u>  | %water     | <u>    </u> | %mud        |
| Rec.                  | <u>    </u>               | Feet Of   | <u>    </u>       | %gas         | <u>    </u> | %oil                 | <u>    </u>  | %water     | <u>    </u> | %mud        |
| BHT                   | <u>125</u> °F             | Gravity   | <u>    </u>       | °API D@      | <u>    </u> | °F Corrected Gravity | <u>    </u>  | °API       | <u>    </u> | <u>    </u> |
| RW                    | <u>109</u> @ <u>74</u> °F | Chlorides | <u>96,000</u>     | ppm Recovery | <u>    </u> | Chlorides            | <u>6200</u>  | ppm System | <u>    </u> | <u>    </u> |

|                                  | AK-1        | Alpine      |     |                 |              |                |                 |
|----------------------------------|-------------|-------------|-----|-----------------|--------------|----------------|-----------------|
| (A) Initial Hydrostatic Mud      | <u>1478</u> | <u>1476</u> | PSI | Recorder No.    | <u>2357</u>  | T-On Location  | <u>19.30.00</u> |
| (B) First Initial Flow Pressure  | <u>1236</u> | <u>1232</u> | PSI | (depth)         | <u>3252'</u> | T-Started      | <u>20.36.00</u> |
| (C) First Final Flow Pressure    | <u>1296</u> | <u>1402</u> | PSI | Recorder No.    | <u>10332</u> | T-Open         | <u>22.58.00</u> |
| (D) Initial Shut-In Pressure     | <u>1427</u> | <u>1421</u> | PSI | (depth)         | <u>3270'</u> | T-Pulled       | <u>00.58.00</u> |
| (E) Second Initial Flow Pressure | <u>1438</u> | <u>1420</u> | PSI | Recorder No.    | <u>    </u>  | T-Out          | <u>02.30.00</u> |
| (F) Second Final Flow Pressure   | <u>1448</u> | <u>1427</u> | PSI | (depth)         | <u>    </u>  | T-Off Location | <u>03.15.00</u> |
| (G) Final Shut-in Pressure       | <u>1448</u> | <u>1428</u> | PSI | Initial Opening | <u>30</u>    | Test           | <u>✓</u>        |
| (Q) Final Hydrostatic Mud        | <u>1559</u> | <u>1428</u> | PSI | Initial Shut-in | <u>30</u>    | Jars           | <u>✓</u>        |
|                                  |             |             |     | Final Flow      | <u>30</u>    | Safety Joint   | <u>✓</u>        |
|                                  |             |             |     | Final Shut-in   | <u>30</u>    | Straddle       | <u>    </u>     |
|                                  |             |             |     |                 |              | Circ. Sub      | <u>    </u>     |
|                                  |             |             |     |                 |              | Sampler        | <u>    </u>     |
|                                  |             |             |     |                 |              | Extra Packer   | <u>    </u>     |
|                                  |             |             |     |                 |              | Elec. Rec.     | <u>✓</u>        |
|                                  |             |             |     |                 |              | Mileage        | <u>    </u>     |
|                                  |             |             |     |                 |              | Other          | <u>    </u>     |

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Approved By

*[Signature]*

TRILOBITE TESTING L.L.C.

OPERATOR : McGinness Oil,Co.of Ks.

DATE 09/20/199

WELL NAME: Frieden #1

KB 1539.00 ft

TICKET NO: 11854

DST #2

LOCATION : 32-31s-12w Barber co. KS

GR 1534.00 ft

FORMATION: Drum

INTERVAL : 3890.00 To 3910.00 ft

TD 3910.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 2013 to 2043 hr |
| SI 30 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2043 to 2113 hr |
| SF 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 2113 to 2143 hr |
| FS 30 Depth(ft )  | 3907.0 | 3907.0 | 3896.0 | 0.0 | 0.0 | FS Fr. 2143 to 2213 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 1957.0 | 1946.0 | 1852.0 | 0.0 | 0.0 | T STARTED 1820 hr             |
| B. First Flow  | 61.0   | 66.0   | 20.0   | 0.0 | 0.0 | T ON BOTM 2011 hr             |
| Bl. Final Flow | 81.0   | 75.0   | 43.0   | 0.0 | 0.0 | T OPEN 2013 hr                |
| C. In Shut-in  | 1498.0 | 1498.0 | 1488.0 | 0.0 | 0.0 | T PULLED 2213 hr              |
| D. Init Flow   | 111.0  | 101.0  | 57.0   | 0.0 | 0.0 | T OUT 2330 hr                 |
| E. Final Flow  | 132.0  | 112.0  | 71.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1498.0 | 1502.0 | 1485.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 1906.0 | 1904.0 | 1817.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| Inside/Outside | O      | O      | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 60000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 54000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 54000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 238.00 ft         |
|                |        |        |        |     |     | D.P. Length 3544.00 ft        |

RECOVERY

|           |                                       |                     |               |
|-----------|---------------------------------------|---------------------|---------------|
| Net Fluid | 120.00 ft of                          | 120.00 ft in DC and | 0.00 ft in DP |
| 20.00     | ft of Water cut mud 50% Mud 50% Water |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |
| .00       | ft of                                 |                     |               |

ALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

| Mud Type   | Chemical   |
|------------|------------|
| Weight     | 9.10 lb/cf |
| Vis.       | 56.00 S/L  |
| W.L.       | 12.00 in3  |
| F.C.       | 0.32 in    |
| Mud Drop Y | 60.0 ft    |

LOW DESCRIPTION

Initial Flow:  
Weak blow built to 2" in water

Initial Shut-in:  
Bled down for 2 mins. no blow back

Final Flow:  
Weak blow built to 1/4" in water

Final Shut-in:  
Bled down for 10 mins. no blow back

|                |                |
|----------------|----------------|
| Amt. of fill   | 0.00 ft        |
| Btm. H. Temp.  | 114.00 F       |
| Hole Condition | fair           |
| % Porosity     | 0.00           |
| Packer Size    | 6.75 in        |
| No. of Packers | 0              |
| Cushion Amt.   | 0.00 n         |
| Cushion Type   | none           |
| Reversed Out N |                |
| Tool Chased N  |                |
| Tester         | Darren Amerine |
| Co. Rep.       | Doug McGinness |
| Contr.         | Peckrell       |
| Rig #          | 1              |
| Unit #         | none           |
| Pump T.        | no             |

SAMPLES:

ENT TO:

Test Successful: Y

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

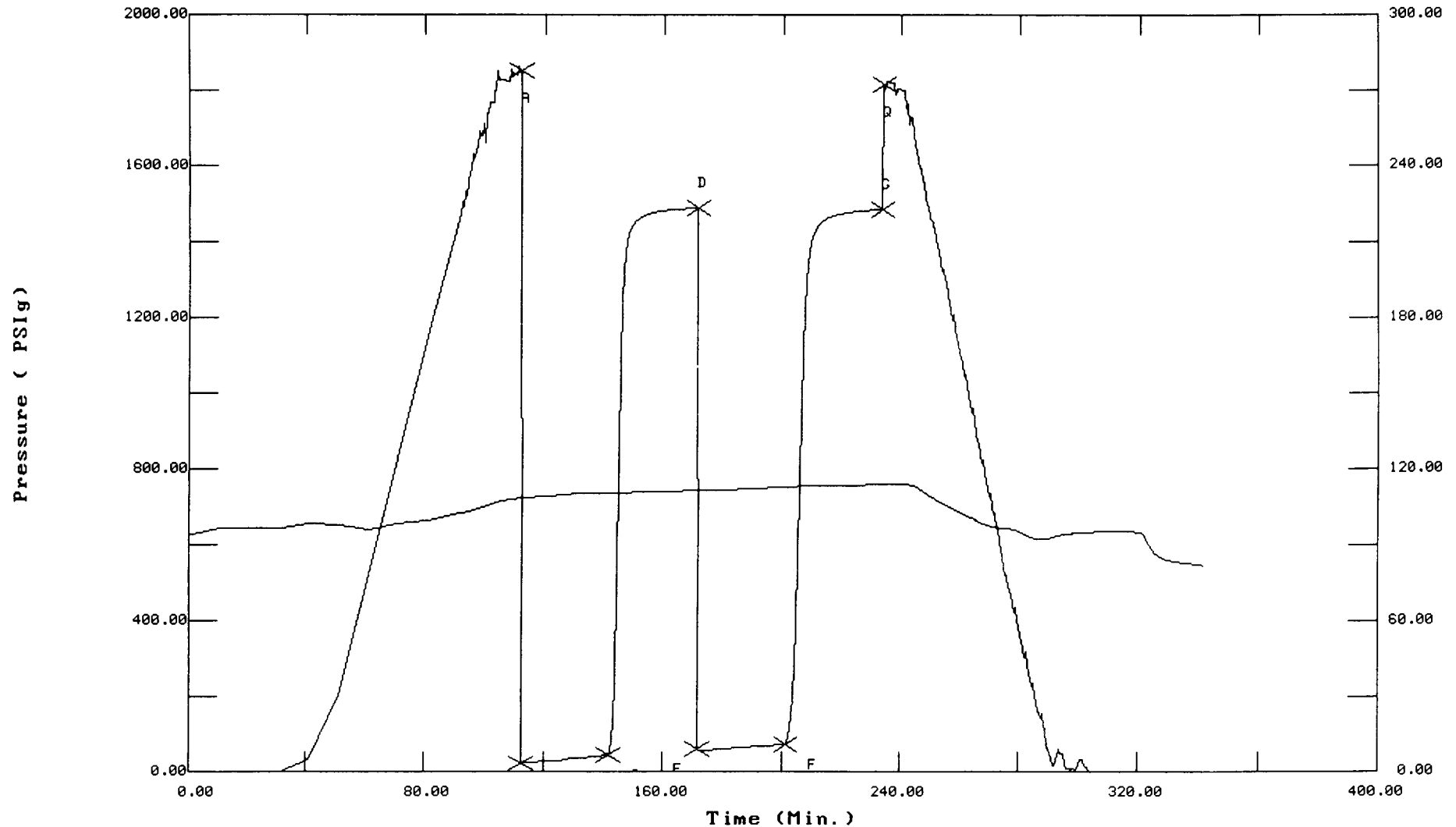
|                                                |  |                         |      |
|------------------------------------------------|--|-------------------------|------|
| WELL NAME: Frieden #1                          |  | P.O. SUB Top of Tool @  | 3863 |
|                                                |  | C.O. SUB                | 3864 |
| LOCATION : Sec.32 Twp.31s Rge,12w              |  | S.I. TOOL               | 3869 |
| TICKET No. 11854 D.S.T. No. 2 DATE 09/20/199   |  |                         |      |
| TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28   |  | HMV                     | 3874 |
| INTERVAL TOOL .....                            |  |                         |      |
| BOTTOM PACKERS AND ANCHOR ..... 20             |  | JARS                    | 3879 |
| TOTAL TOOL ..... 48                            |  |                         |      |
| WILL COLLAR ANCHOR IN INTERVAL .....           |  |                         |      |
| C. ANCHOR STND.Stands Single Total             |  | SAFETY JOINT            | 3881 |
| P. ANCHOR STND.Stands Single Total             |  |                         |      |
| TOTAL ASSEMBLY .....                           |  | PACKER                  | 3885 |
|                                                |  | PACKER                  | 3890 |
| C. ABOVE TOOLS.Stands4 Single Total 238        |  | DEPTH 3890              |      |
| P. ABOVE TOOLS.Stands59 Single Total 3544      |  | STUBB 1' to             | 3891 |
|                                                |  | ANCHOR 14'of perfs.to   | 3905 |
| TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3930 |  | Alpine rec.@ 3896       |      |
| TOTAL DEPTH ..... 3910                         |  |                         | 3905 |
| TOTAL DRILL PIPE ABOVE K.B. .... 20            |  |                         | 3905 |
| MARKS:                                         |  |                         |      |
|                                                |  | T.C.                    |      |
|                                                |  | DEPTH                   |      |
|                                                |  |                         | 3905 |
|                                                |  | Ak-1 rec,@ 3907         |      |
|                                                |  | BULLNOSE 5' bullnose to | 3910 |
|                                                |  | T.D.                    |      |

# TEST HISTORY

Tk#11854 DST#2 Frieden #1 McGinness Oil, Co. of Ks.

Flag Points  
t(Min.) P( PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 1851.60 |
| B: | 0.00  | 20.41   |
| C: | 29.50 | 42.98   |
| D: | 29.50 | 1488.41 |
| E: | 0.00  | 56.66   |
| F: | 29.50 | 70.50   |
| G: | 32.00 | 1484.68 |
| Q: | 0.00  | 1816.59 |



# CHART PAGE

10332  
DST #2

X



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 11854

|                 |                                                     |                           |                   |                 |                                              |
|-----------------|-----------------------------------------------------|---------------------------|-------------------|-----------------|----------------------------------------------|
| Well Name & No. | <u>Frederick #1</u>                                 | Test No.                  | <u>#2</u>         | Date            | <u>9/20/1998</u>                             |
| Company         | <u>McGinness Oil Co. of KS, Inc.</u>                | Zone Tested               | <u>Drum</u>       |                 |                                              |
| Address         | <u>150 N. Main St. &amp; 1026 Wichita, KS 67202</u> |                           | Elevation         | <u>1539</u>     | KB <u>1534</u> GL                            |
| Co. Rep / Geo.  | <u>Doug McGinness</u>                               | Cont.                     | <u>Petrell #1</u> | Est. Ft. of Pay | <u>    </u> Por. <u>    </u> %               |
| Location: Sec.  | <u>32</u>                                           | Twp.                      | <u>31S</u>        | Rge.            | <u>12W</u> Co. <u>Barber</u> State <u>KS</u> |
| No. of Copies   | <u>5</u>                                            | Distribution Sheet (Y, N) | <u>    </u>       | Turnkey (Y, N)  | <u>    </u> Evaluation (Y, N) <u>    </u>    |

|                     |                                                       |                      |                  |                       |              |
|---------------------|-------------------------------------------------------|----------------------|------------------|-----------------------|--------------|
| Interval Tested     | <u>3890' - 3910'</u>                                  | Initial Str Wt./Lbs. | <u>5400</u>      | Unseated Str Wt./Lbs. | <u>6000</u>  |
| Anchor Length       | <u>20'</u>                                            | Wt. Set Lbs.         | <u>2000</u>      | Wt. Pulled Loose/Lbs. | <u>5800</u>  |
| Top Packer Depth    | <u>3855</u>                                           | Tool Weight          | <u>2100</u>      |                       |              |
| Bottom Packer Depth | <u>3890</u>                                           | Hole Size — 7 7/8"   | <u>✓</u>         | Rubber Size — 6 3/4"  | <u>✓</u>     |
| Total Depth         | <u>3910</u>                                           | Wt. Pipe Run         | <u>N/A</u>       | Drill Collar Run      | <u>238'</u>  |
| Mud Wt.             | <u>9.1</u> LCM <u>4#</u> Vis. <u>56</u> WL <u>12"</u> | Drill Pipe Size      | <u>4 1/2 x H</u> | Ft. Run               | <u>3544'</u> |
| Blow Description    | <u>IF: Weak blow built to 2" in H2O.</u>              |                      |                  |                       |              |

ISI: Bled down 2 mins no bp.  
FF: Weak blow built to 1/4" in H2O.  
EST: Bled down for 10 mins no bp.

|                       |             |         |             |           |             |           |             |
|-----------------------|-------------|---------|-------------|-----------|-------------|-----------|-------------|
| Recovery — Total Feet | <u>120'</u> | GIP     | <u>    </u> | Ft. in DC | <u>120'</u> | Ft. in DP | <u>    </u> |
| Rec.                  | <u>120</u>  | Feet Of | <u>WCM</u>  | %gas      | <u>    </u> | %oil      | <u>50</u>   |
| Rec.                  | <u>    </u> | Feet Of | <u>    </u> | %gas      | <u>    </u> | %oil      | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of | <u>    </u> | %gas      | <u>    </u> | %oil      | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of | <u>    </u> | %gas      | <u>    </u> | %oil      | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of | <u>    </u> | %gas      | <u>    </u> | %oil      | <u>    </u> |

BHT 114° °F Gravity      °API D @      °F Corrected Gravity      °API  
RW 21 @ 80° °F Chlorides 32000 ppm Recovery Chlorides 4000 ppm System

|                                  |             |             |                     |              |
|----------------------------------|-------------|-------------|---------------------|--------------|
|                                  | AK-1        | Alpine      |                     |              |
| (A) Initial Hydrostatic Mud      | <u>1957</u> | <u>1852</u> | PSI Recorder No.    | <u>2357</u>  |
| (B) First Initial Flow Pressure  | <u>61</u>   | <u>20</u>   | PSI (depth)         | <u>3896</u>  |
| (C) First Final Flow Pressure    | <u>81</u>   | <u>43</u>   | PSI Recorder No.    | <u>10332</u> |
| (D) Initial Shut-In Pressure     | <u>1498</u> | <u>1488</u> | PSI (depth)         | <u>3907</u>  |
| (E) Second Initial Flow Pressure | <u>111</u>  | <u>57</u>   | PSI Recorder No.    | <u>    </u>  |
| (F) Second Final Flow Pressure   | <u>152</u>  | <u>71</u>   | PSI (depth)         | <u>    </u>  |
| (G) Final Shut-in Pressure       | <u>1498</u> | <u>1485</u> | PSI Initial Opening | <u>30</u>    |
| (Q) Final Hydrostatic Mud        | <u>1906</u> | <u>1817</u> | PSI Initial Shut-in | <u>30</u>    |
|                                  |             |             | Final Flow          | <u>30</u>    |
|                                  |             |             | Final Shut-in       | <u>30</u>    |

|                |                 |
|----------------|-----------------|
| T-On Location  | <u>17.45.00</u> |
| T-Started      | <u>18.20.00</u> |
| T-Open         | <u>20.13.30</u> |
| T-Pulled       | <u>22.13.30</u> |
| T-Out          | <u>23.30.00</u> |
| T-Off Location | <u>20.30.00</u> |
| Test           | <u>✓</u>        |
| Jars           | <u>✓</u>        |
| Safety Joint   | <u>✓</u>        |
| Straddle       | <u>    </u>     |
| Circ. Sub      | <u>    </u>     |
| Sampler        | <u>    </u>     |
| Extra Packer   | <u>    </u>     |
| Elec. Rec.     | <u>✓</u>        |
| Mileage        | <u>    </u>     |
| Other          | <u>    </u>     |

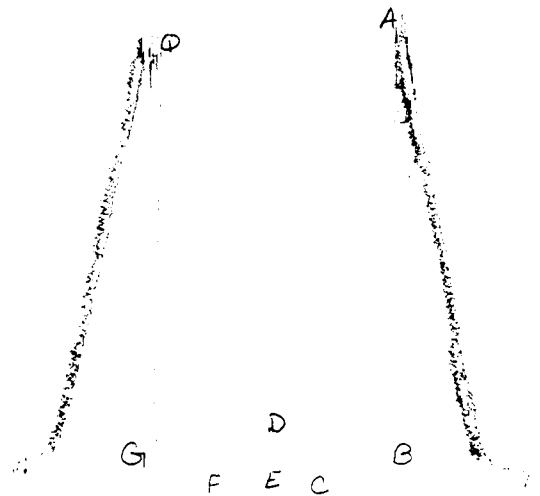
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Approved By

Patrick J. Reemick

CHART PAGE

10352  
DST #3  
X



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

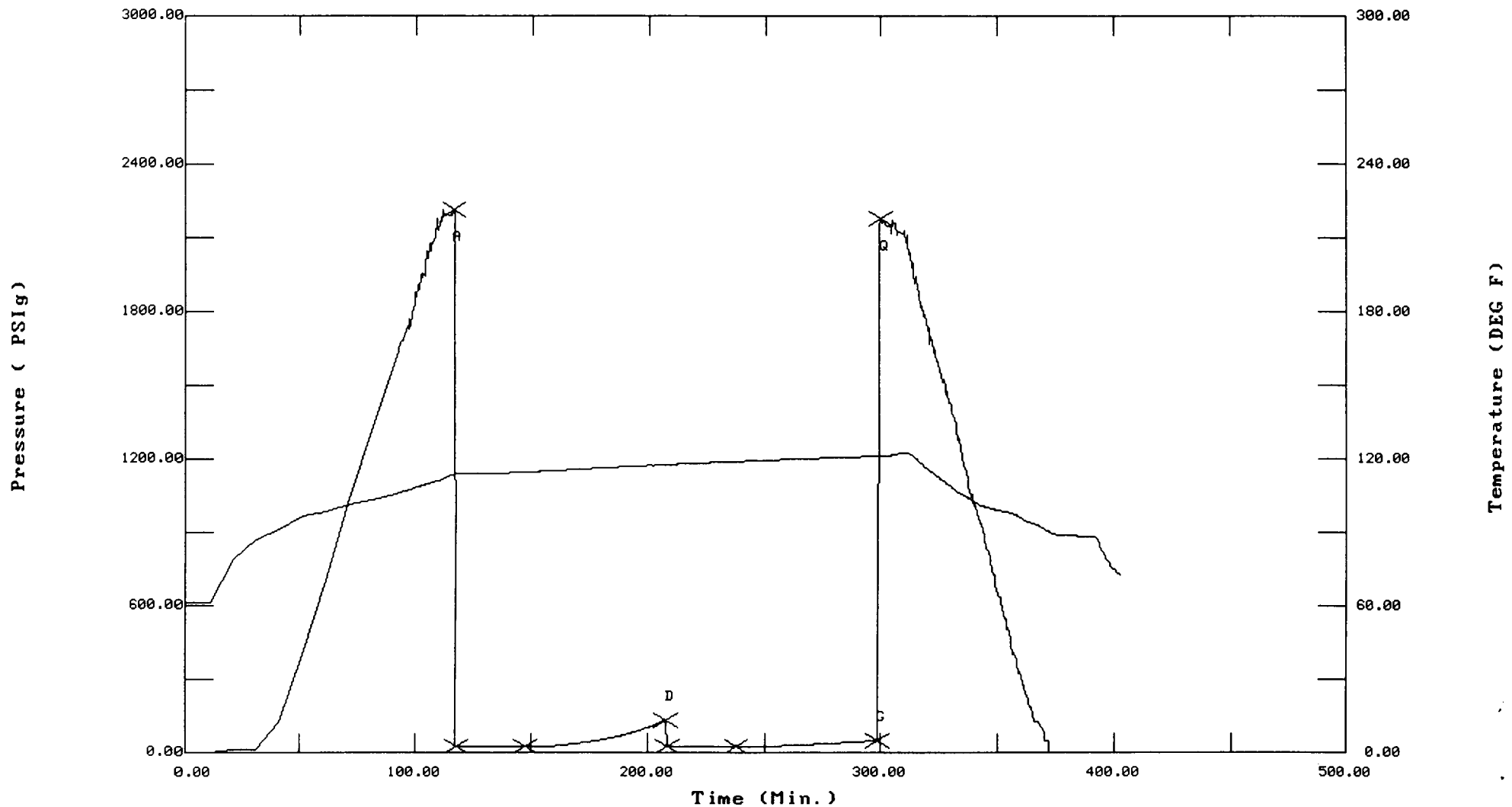
# TEST HISTORY

Tk#11855 DST#3 Frieden #1 McGinness Oil,co.of ks.

Flag Points

t(Min.) P( PSig)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2213.75 |
| B: | 0.00  | 21.63   |
| C: | 30.00 | 20.43   |
| D: | 60.50 | 132.56  |
| E: | 0.00  | 23.24   |
| F: | 29.50 | 22.11   |
| G: | 60.50 | 46.11   |
| Q: | 0.00  | 2179.87 |



TRILOBITE TESTING L.L.C.

OPERATOR : McGinness Oil,co.of Ks. DATE 09/22/199  
WELL NAME: Frieden KB 1539.00 ft TICKET NO: 11855 DST #3  
LOCATION : 32-31s-12w Barber co. KS GR 1534.00 ft FORMATION: Simpson  
INTERVAL : 4480.00 To 4522.00 ft TD 4522.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 1947 to 2017 hr |
| SI 60 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2017 to 2117 hr |
| SF 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 2117 to 2147 hr |
| FS 60 Depth(ft )  | 4519.0 | 4519.0 | 4492.0 | 0.0 | 0.0 | FS Fr. 2147 to 2247 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2348.0 | 2330.0 | 2214.0 | 0.0 | 0.0 | T STARTED 1748 hr             |
| B. First Flow  | 41.0   | 49.0   | 22.0   | 0.0 | 0.0 | T ON BOTM 1945 hr             |
| B1. Final Flow | 51.0   | 52.0   | 20.0   | 0.0 | 0.0 | T OPEN 1947 hr                |
| C. In Shut-in  | 152.0  | 144.0  | 133.0  | 0.0 | 0.0 | T PULLED 2247 hr              |
| D. Init Flow   | 41.0   | 44.0   | 23.0   | 0.0 | 0.0 | T OUT 0000 hr                 |
| E. Final Flow  | 41.0   | 44.0   | 22.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 71.0   | 70.0   | 46.0   | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2278.0 | 2277.0 | 2180.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| Inside/Outside | O      | O      | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 65000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 60000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 60000.00 lbs  |

RECOVERY

| Fluid | 10.00 ft of                     | 10.00 ft in DC and | 0.00 ft in DP |
|-------|---------------------------------|--------------------|---------------|
| 10.00 | ft of Very Slight water cut mud |                    |               |
| 0.00  | ft of 98% mud 2% water          |                    |               |
| 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-----

BLOW DESCRIPTION

Initial Flow:  
Weak surface blow died in 14 min

Initial Shutin:  
No blow back

Final Flow:  
No blow

Final Shutin:  
No blow back

SAMPLES:

SENT TO:

| Mud Type       | Chemical       |
|----------------|----------------|
| Weight         | 9.10 lb/c      |
| Vis.           | 51.00 S/L      |
| W.L.           | 9.00 in3       |
| F.C.           | 0.32 in        |
| Mud Drop Y     | 60.0 ft        |
| Amt. of fill   | 0.00 ft        |
| Btm. H. Temp.  | 122.00 F       |
| Hole Condition | fair           |
| % Porosity     | 0.00           |
| Packer Size    | 6.75 in        |
| No. of Packers | 2              |
| Cushion Amt.   | 0.00 n         |
| Cushion Type   | none           |
| Reversed Out N |                |
| Tool Chased N  |                |
| Tester         | Darren Amerine |
| Co. Rep.       | Ken LaBlanc    |
| Contr.         | Pickrell       |
| Rig #          | 1              |
| Unit #         | no             |
| Pump T.        | none           |

Test Successful: Y

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

WELL NAME: Frieden

LOCATION : Sec.32 Twp.31s Rge.12w

TICKET No. 11855 D.S.T. No. 3 DATE 09/22/199

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

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 42

TOTAL TOOL ..... 70

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY .....

C. ABOVE TOOLS.Stands4 Single Total 238

P. ABOVE TOOLS.Stands69 Single Total 4236

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4544

TOTAL DEPTH ..... 4522

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

MARKS:

|                         |      |
|-------------------------|------|
| P.O. SUB Top of tool @  | 4453 |
| C.O. SUB                | 4454 |
| S.I. TOOL               | 4459 |
| HMV                     | 4464 |
| JARS                    | 4469 |
| SAFETY JOINT            | 4471 |
| PACKER                  | 4475 |
| PACKER                  | 4480 |
| DEPTH 4480              |      |
| STUBB 1'to              | 4481 |
| ANCHOR 5'of perfs. to   | 4486 |
| Alpine rec.@ 4492       |      |
| T.C.                    |      |
| DEPTH                   |      |
| 31' of perfs.to         | 4517 |
| Ak-1 rec.@ 4519         |      |
| BULLNOSE 5' bullnose to | 4522 |
| T.D.                    |      |

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11855

|                 |                                                |                           |                  |                 |                                               |
|-----------------|------------------------------------------------|---------------------------|------------------|-----------------|-----------------------------------------------|
| Well Name & No. | <u>Frieden #1</u>                              | Test No.                  | <u>#3</u>        | Date            | <u>09/22/1998</u>                             |
| Company         | <u>McGinness Oilco. of KS, Inc.</u>            | Zone Tested               | <u>Simpson</u>   |                 |                                               |
| Address         | <u>150 N. Main Suite 1006 Wichita KS 67202</u> | Elevation                 | <u>1539</u>      | KB              | <u>1534</u> GL                                |
| Co. Rep / Geo.  | <u>Ken LaBlanc</u>                             | Cont.                     | <u>Pickel #1</u> | Est. Ft. of Pay | <u>    </u> Por. <u>    </u> %                |
| Location: Sec.  | <u>32</u>                                      | Twp.                      | <u>31 S</u>      | Rge.            | <u>12 W</u> Co. <u>Barber</u> State <u>KS</u> |
| No. of Copies   | <u>5</u>                                       | Distribution Sheet (Y, N) | <u>    </u>      | Turnkey (Y, N)  | <u>    </u> Evaluation (Y, N) <u>    </u>     |

|                     |                                                        |                      |                  |                       |               |
|---------------------|--------------------------------------------------------|----------------------|------------------|-----------------------|---------------|
| Interval Tested     | <u>4480' - 4522'</u>                                   | Initial Str Wt./Lbs. | <u>60,000</u>    | Unseated Str Wt./Lbs. | <u>60,000</u> |
| Anchor Length       | <u>42'</u>                                             | Wt. Set Lbs.         | <u>23,000</u>    | Wt. Pulled Loose/Lbs. | <u>65,000</u> |
| Top Packer Depth    | <u>4475'</u>                                           | Tool Weight          | <u>2100</u>      |                       |               |
| Bottom Packer Depth | <u>4480'</u>                                           | Hole Size — 7 7/8"   | <u>L</u>         | Rubber Size — 6 3/4"  | <u>L</u>      |
| Total Depth         | <u>4522'</u>                                           | Wt. Pipe Run         | <u>N/A</u>       | Drill Collar Run      | <u>238</u>    |
| Mud Wt.             | <u>9.1</u> LCM <u>3rd</u> Vis. <u>51</u> WL <u>9.0</u> | Drill Pipe Size      | <u>4 1/2 x H</u> | Ft. Run               | <u>4236'</u>  |
| Blow Description    | <u>TF: Weak surface blow died in 14 min.</u>           |                      |                  |                       |               |
|                     | <u>TSI: No bb.</u>                                     |                      |                  |                       |               |
|                     | <u>EF: No blow.</u>                                    |                      |                  |                       |               |
|                     | <u>FST: No bb.</u>                                     |                      |                  |                       |               |

|                       |             |            |              |              |             |                      |             |
|-----------------------|-------------|------------|--------------|--------------|-------------|----------------------|-------------|
| Recovery — Total Feet | <u>10'</u>  | GIP        | <u>    </u>  | Ft. in DC    | <u>10'</u>  | Ft. in DP            | <u>    </u> |
| Rec.                  | <u>10'</u>  | Feet Of    | <u>USWCM</u> | %gas         | <u>    </u> | %oil                 | <u>2</u>    |
|                       |             |            |              | %water       | <u>98</u>   | %mud                 | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of    | <u>    </u>  | %gas         | <u>    </u> | %oil                 | <u>    </u> |
|                       |             |            |              | %water       | <u>    </u> | %mud                 | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of    | <u>    </u>  | %gas         | <u>    </u> | %oil                 | <u>    </u> |
|                       |             |            |              | %water       | <u>    </u> | %mud                 | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of    | <u>    </u>  | %gas         | <u>    </u> | %oil                 | <u>    </u> |
|                       |             |            |              | %water       | <u>    </u> | %mud                 | <u>    </u> |
| BHT                   | <u>122°</u> | °F Gravity | <u>    </u>  | °API D@      | <u>    </u> | °F Corrected Gravity | <u>    </u> |
| RW                    | <u>    </u> | @          | <u>    </u>  | °F Chlorides | <u>    </u> | ppm Recovery         | <u>5000</u> |
|                       |             |            |              | Chlorides    | <u>5000</u> | ppm System           | <u>    </u> |

|                                  |             |             |                     |              |                |                 |
|----------------------------------|-------------|-------------|---------------------|--------------|----------------|-----------------|
|                                  | AK-1        | Alpine      |                     |              |                |                 |
| (A) Initial Hydrostatic Mud      | <u>2348</u> | <u>2214</u> | PSI Recorder No.    | <u>2357</u>  | T-On Location  | <u>17:00:00</u> |
| (B) First Initial Flow Pressure  | <u>41</u>   | <u>22</u>   | PSI (depth)         | <u>4492'</u> | T-Started      | <u>17:48:00</u> |
| (C) First Final Flow Pressure    | <u>57</u>   | <u>20</u>   | PSI Recorder No.    | <u>10332</u> | T-Open         | <u>19:47:00</u> |
| (D) Initial Shut-In Pressure     | <u>152</u>  | <u>133</u>  | PSI (depth)         | <u>4519'</u> | T-Pulled       | <u>22:47:00</u> |
| (E) Second Initial Flow Pressure | <u>41</u>   | <u>23</u>   | PSI Recorder No.    | <u>    </u>  | T-Out          | <u>00:00:00</u> |
| (F) Second Final Flow Pressure   | <u>41</u>   | <u>22</u>   | PSI (depth)         | <u>    </u>  | T-Off Location | <u>00:45:00</u> |
| (G) Final Shut-in Pressure       | <u>71</u>   | <u>46</u>   | PSI Initial Opening | <u>30</u>    | Test           | <u>✓</u>        |
| (Q) Final Hydrostatic Mud        | <u>2278</u> | <u>2180</u> | PSI Initial Shut-in | <u>60</u>    | Jars           | <u>✓</u>        |
|                                  |             |             | Final Flow          | <u>80</u>    | Safety Joint   | <u>✓</u>        |
|                                  |             |             | Final Shut-in       | <u>60</u>    | Straddle       | <u>    </u>     |
|                                  |             |             |                     |              | Circ. Sub      | <u>    </u>     |
|                                  |             |             |                     |              | Sampler        | <u>    </u>     |
|                                  |             |             |                     |              | Extra Packer   | <u>    </u>     |
|                                  |             |             |                     |              | Elec. Rec.     | <u>✓</u>        |
|                                  |             |             |                     |              | Mileage        | <u>    </u>     |
|                                  |             |             |                     |              | Other          | <u>    </u>     |

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Approved By

[Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : McGinness oil,co.of Ks. DATE 09/23/199  
 WELL NAME: Frieden KB 1539.00 ft TICKET NO: 11856 DST #4  
 LOCATION : 32-31s-12w Barber co. KS GR 1534.00 ft FORMATION: Simpson  
 INTERVAL : 4500.00 To 4527.00 ft TD 4527.00 ft TEST TYPE: CONVENTIONAL

REORDER DATA

| Mins             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|------------------|--------|--------|--------|-----|-----|------------------------|
| F 30 Rec.        | 10332  | 10332  | 2357   |     |     | PF Fr. 0924 to 0954 hr |
| I 60 Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0954 to 1054 hr |
| F 30 Clock(hrs)  | 12hr.  | 12hr.  | elec.  |     |     | SF Fr. 1054 to 1124 hr |
| S 60 Depth(ft )  | 4524.0 | 4524.0 | 4505.0 | 0.0 | 0.0 | FS Fr. 1124 to 1224 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| . Init Hydro   | 2388.0 | 2396.0 | 2241.0 | 0.0 | 0.0 | T STARTED 0727 hr             |
| . First Flow   | 20.0   | 7.0    | 21.0   | 0.0 | 0.0 | T ON BOTM 0921 hr             |
| 1. Final Flow  | 30.0   | 26.0   | 35.0   | 0.0 | 0.0 | T OPEN 0924 hr                |
| . In Shut-in   | 1671.0 | 1675.0 | 1677.0 | 0.0 | 0.0 | T PULLED 1224 hr              |
| . Init Flow    | 51.0   | 61.0   | 45.0   | 0.0 | 0.0 | T OUT 1350 hr                 |
| . Final Flow   | 61.0   | 67.0   | 60.0   | 0.0 | 0.0 |                               |
| . Fl Shut-in   | 1661.0 | 1667.0 | 1656.0 | 0.0 | 0.0 | TOOL DATA-----                |
| . Final Hydro  | 2288.0 | 2279.0 | 2159.0 | 0.0 | 0.0 | Tool Wt. 2100.00 lbs          |
| Inside/Outside | O      | O      | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 65000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 60000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 60000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 2.25 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 238.00 ft         |
|                |        |        |        |     |     | D.P. Length 4264.00 ft        |

ECOVERY

| ot Fluid | 90.00 ft of                           | 90.00 ft in DC and     | 0.00 ft in DP |
|----------|---------------------------------------|------------------------|---------------|
| 0.00     | ft of Slight Oil Cut Mud              | 10%oil 90%mud          |               |
| 0.00     | ft of Very Slight Oil Cut Mud & Water |                        |               |
| .00      | ft of                                 | 10%oil 30%water 60%mud |               |
| .00      | ft of                                 |                        |               |
| .00      | ft of                                 |                        |               |
| .00      | ft of                                 |                        |               |
| .00      | ft of                                 |                        |               |
| .00      | ft of                                 |                        |               |

ALINITY 19000.00 P.P.M. A.P.I. Gravity 0.00

LOW DESCRIPTION

Initial Flow:  
 Weak blow built to 1 1/2" in water

Initial Shutin:  
 Bled down for 5 minutes - no blow  
 back

Final Flow:  
 Weak blow built to 1/4" in water

Final Shutin:  
 Bled down for 5 mins no blow back

SAMPLES:

ENT TO:

MUD DATA-----

| Mud Type | Chemical   |
|----------|------------|
| Weight   | 9.00 lb/cf |
| Vis.     | 45.00 S/L  |
| W.L.     | 9.00 in3   |
| F.C.     | 0.32 in    |

Mud Drop N

|                |          |
|----------------|----------|
| Amt. of fill   | 0.00 ft  |
| Btm. H. Temp.  | 124.00 F |
| Hole Condition | fair     |
| % Porosity     | 0.00     |
| Packer Size    | 6.75 in  |
| No. of Packers | 2        |
| Cushion Amt.   | 0.00 n   |
| Cushion Type   | none     |
| Reversed Out N |          |

Tool Chased N

|          |                |
|----------|----------------|
| Tester   | Darren Amerine |
| Co. Rep. | Ken LaBlanc    |
| Contr.   | Pickrell       |
| Rig #    | 1              |
| Unit #   | no             |
| Pump T.  | none           |

Test Successful: Y

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

WELL NAME: Frieden

LOCATION : Sec.32 Twp.31s

TICKET No. 11856 D.S.T. No. 4 DATE 09/23/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 27

TOTAL TOOL ..... 58

DRILL COLLAR ANCHOR IN INTERVAL .....

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

C. ABOVE TOOLS.Stands4 Single Total 238

P. ABOVE TOOLS.Stands69 Single 1 Total 4264

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4557

TOTAL DEPTH ..... 4527

TOTAL DRILL PIPE ABOVE K.B. .... 30

REMARKS:

Fluid sampler data

Sampler recovery Sampler Analysis  
 as-----ML. Res.--.2---Ohms@--88--F  
 l---trace-----ML. Chlorides--27000----PPM.  
 d--2800-----ML. Gravity-----Corr.@60°F  
 ter--1200-----ML.  
 her---lcm-----ML.  
 essure--150---Psi.

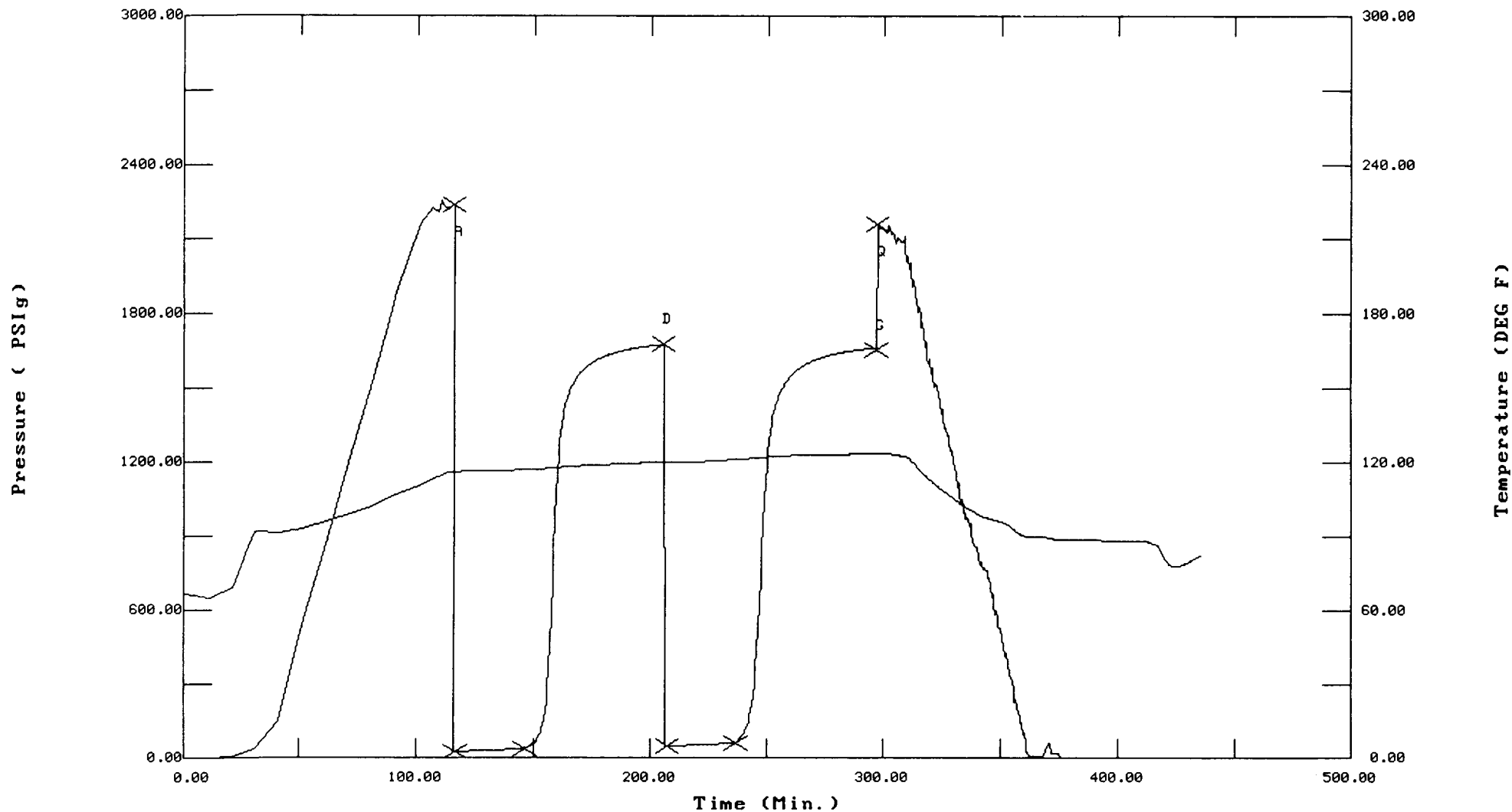
|                        |      |
|------------------------|------|
| P.O. SUB Top of tool @ | 4470 |
| C.O. SUB               | 4471 |
| S.I. TOOL              | 4476 |
| fluid sampler 3'       | 4479 |
| HMV                    | 4484 |
| JARS                   | 4489 |
| SAFETY JOINT           | 4491 |
| PACKER                 | 4495 |
| PACKER                 | 4500 |
| DEPTH 4500             |      |
| STUBB 1'to             | 4501 |
| ANCHOR 21' of perfs.to | 4522 |
| Alpine rec.@ 4505      |      |
|                        | 4522 |
|                        | 4522 |
| T.C.                   |      |
| DEPTH                  |      |

# TEST HISTORY

Tk#11856 DST#4 Frieden #1 McGinness Oil,co.of Ks.

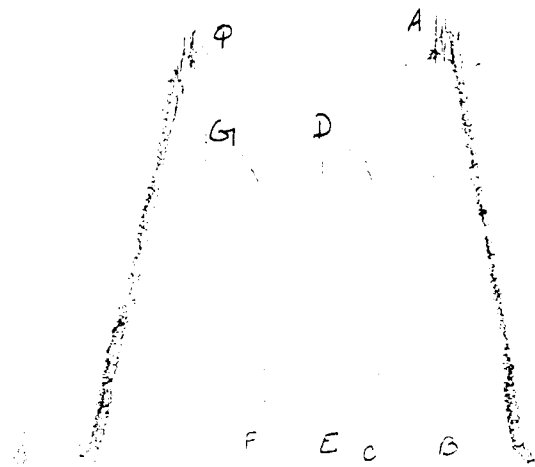
Flag Points  
t(Min.) P(PSIg)

|    |       |         |
|----|-------|---------|
| A: | 0.00  | 2240.93 |
| B: | 0.00  | 20.53   |
| C: | 29.50 | 34.91   |
| D: | 59.50 | 1677.39 |
| E: | 0.00  | 45.39   |
| F: | 29.50 | 59.69   |
| G: | 59.50 | 1655.90 |
| Q: | 0.00  | 2159.22 |



# CHART PAGE

10332  
DST #4  
X



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. #11856 Date 09/23/1998  
Company Name McGinness Oil Co. of KS, Inc.  
Lease Frieden #1 Test No. #4  
County Barber, Co Sec. 32 Twp. 31S Rng. 12W

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
Oil Trace ML  
Mud 2800 ML  
Water 1200 ML  
Other LCM - ML  
Pressure 150 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 5,000 ppm.  
Resistivity 1.5 ohms @ 65° F  
Viscosity 45  
Mud Weight 9.0  
Filtrate 9.0  
Other LCM 3#

### SAMPLER ANALYSIS

Resistivity .2 ohms @ 88° F  
Chlorides 27,000 ppm.  
Gravity N/A corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity N/A ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

MIDDLE  
Resistivity 7 ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity .31 ohms @ 88° F  
Chlorides 19,000 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 11856

Well Name & No. Frieden #1 Test No. #4 Date 09/23/1998  
Company McEanness Oil Co. of Ks, Inc Zone Tested Simpson  
Address 150 N. Main Suite 1026 Wichita, KS 67202 Elevation 1539 KB 1534 GL  
Co. Rep / Geo. Ken LaBlanc Cont. Petrell #1 Est. Ft. of Pay      Por.      %  
Location: Sec. 32 Twp. 31 S Rge. 12 W Co. Darwin State Ks  
No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4500' - 4527' Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 60000  
Anchor Length 27' Wt. Set Lbs. 2000 Wt. Pulled Loose/Lbs. 65000  
Top Packer Depth 4495' Tool Weight 2100  
Bottom Packer Depth 4500' Hole Size — 7 7/8"      Rubber Size — 6 3/4"       
Total Depth 4527' Wt. Pipe Run N/A Drill Collar Run 238'  
Mud Wt. 9.0 LCM 3# Vis. 4.5 WL 9.0 Drill Pipe Size 4 1/2 XH Ft. Run 4264'  
Blow Description TF: Weak blow built to 1 1/2" in H2O.  
FST: Bled down for 5 mins  
FF: Weak blow built to 1/4" in H2O  
FST: Bled down for 5 mins no bb

Recovery — Total Feet 90' GIP      Ft. in DC 90 Ft. in DP       
Rec. 40 Feet Of 500m %gas 10 %oil      %water 90 %mud       
Rec. 50 Feet Of VSOCMW %gas 10 %oil 30 %water 60 %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud       
BHT 124 ° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW .31 @ 88 °F Chlorides 12,000 ppm Recovery Chlorides 5000 ppm System

|                                  | AK-1        | Alpine      |                               |                                |
|----------------------------------|-------------|-------------|-------------------------------|--------------------------------|
| (A) Initial Hydrostatic Mud      | <u>2388</u> | <u>2241</u> | PSI Recorder No. <u>2357</u>  | T-On Location <u>06:00:00</u>  |
| (B) First Initial Flow Pressure  | <u>20</u>   | <u>21</u>   | PSI (depth) <u>4505</u>       | T-Started <u>07:27:30</u>      |
| (C) First Final Flow Pressure    | <u>30</u>   | <u>35</u>   | PSI Recorder No. <u>10332</u> | T-Open <u>09:24:00</u>         |
| (D) Initial Shut-In Pressure     | <u>1671</u> | <u>1677</u> | PSI (depth) <u>4528</u>       | T-Pulled <u>12:24:00</u>       |
| (E) Second Initial Flow Pressure | <u>37</u>   | <u>45</u>   | PSI Recorder No. <u>    </u>  | T-Out <u>13:50:00</u>          |
| (F) Second Final Flow Pressure   | <u>61</u>   | <u>60</u>   | PSI (depth) <u>    </u>       | T-Off Location <u>16:00:00</u> |
| (G) Final Shut-in Pressure       | <u>1661</u> | <u>1656</u> | PSI Initial Opening <u>30</u> | Test <u>    </u>               |
| (Q) Final Hydrostatic Mud        | <u>2285</u> | <u>2159</u> | PSI Initial Shut-in <u>60</u> | Jars <u>    </u>               |
|                                  |             |             | Final Flow <u>30</u>          | Safety Joint <u>    </u>       |
|                                  |             |             | Final Shut-in <u>60</u>       | Straddle <u>    </u>           |

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Approved By Ken LaBlanc

Our Representative Darlene J. Lawrence

Circ. Sub       
Sampler       
Extra Packer       
Elec. Rec.       
Mileage       
Other       
TOTAL PRICE \$