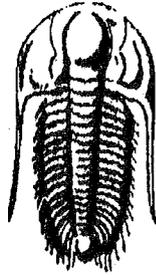


15-065-23615

10-9s-24w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 372
Hays, Ks
67601

ATTN: Marc Downing

10 9s 24w Graham KS

Betty 1-10

15-065-23615

Start Date: 2010.02.19 @ 07:16:40

End Date: 2010.02.19 @ 13:38:04

Job Ticket #: 38105 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Downing Nelson Oil Co

Betty 1-10

10 9s 24w Graham KS

DST # 1

LKC "H-I"

2010.02.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

Betty 1-10

PO Box 372
Hays, Ks
67601

10 9s 24w Graham KS

Job Ticket: 38105

DST#: 1

ATTN: Marc Downing

Test Start: 2010.02.19 @ 07:16:40

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3895.00 ft | Diameter: 3.80 inches | Volume: 54.64 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | <u>Total Volume: 54.79 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3926.00 ft | | | Final 69000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 49.00 ft | | | |
| Tool Length: | 69.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3911.00 | |
| Hydraulic tool | 5.00 | | | 3916.00 | |
| Packer | 5.00 | | | 3921.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3926.00 | |
| Stubb | 1.00 | | | 3927.00 | |
| Perforations | 6.00 | | | 3933.00 | |
| Change Over Sub | 1.00 | | | 3934.00 | |
| Recorder | 0.00 | 8018 | Inside | 3934.00 | |
| Recorder | 0.00 | 8371 | Outside | 3934.00 | |
| Blank Spacing | 32.00 | | | 3966.00 | |
| Change Over Sub | 1.00 | | | 3967.00 | |
| Perforations | 5.00 | | | 3972.00 | |
| Bullnose | 3.00 | | | 3975.00 | 49.00 Bottom Packers & Anchor |

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Betty 1-10

PO Box 372
Hays, Ks
67601

10 9s 24w Graham KS

Job Ticket: 38105

DST#: 1

ATTN: Marc Dow ning

Test Start: 2010.02.19 @ 07:16:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------------|---------------|
| 125.00 | SGOCWM 15%G, 5%O, 30%W, 50%M | 1.471 |
| 55.00 | GWHOCM 5%G, 25%O, 5%W, 65%M | 0.772 |
| 30.00 | FREE OIL 95%O, 5%M | 0.421 |
| 0.00 | 220' GIP | 0.000 |

Total Length: 210.00 ft

Total Volume: 2.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

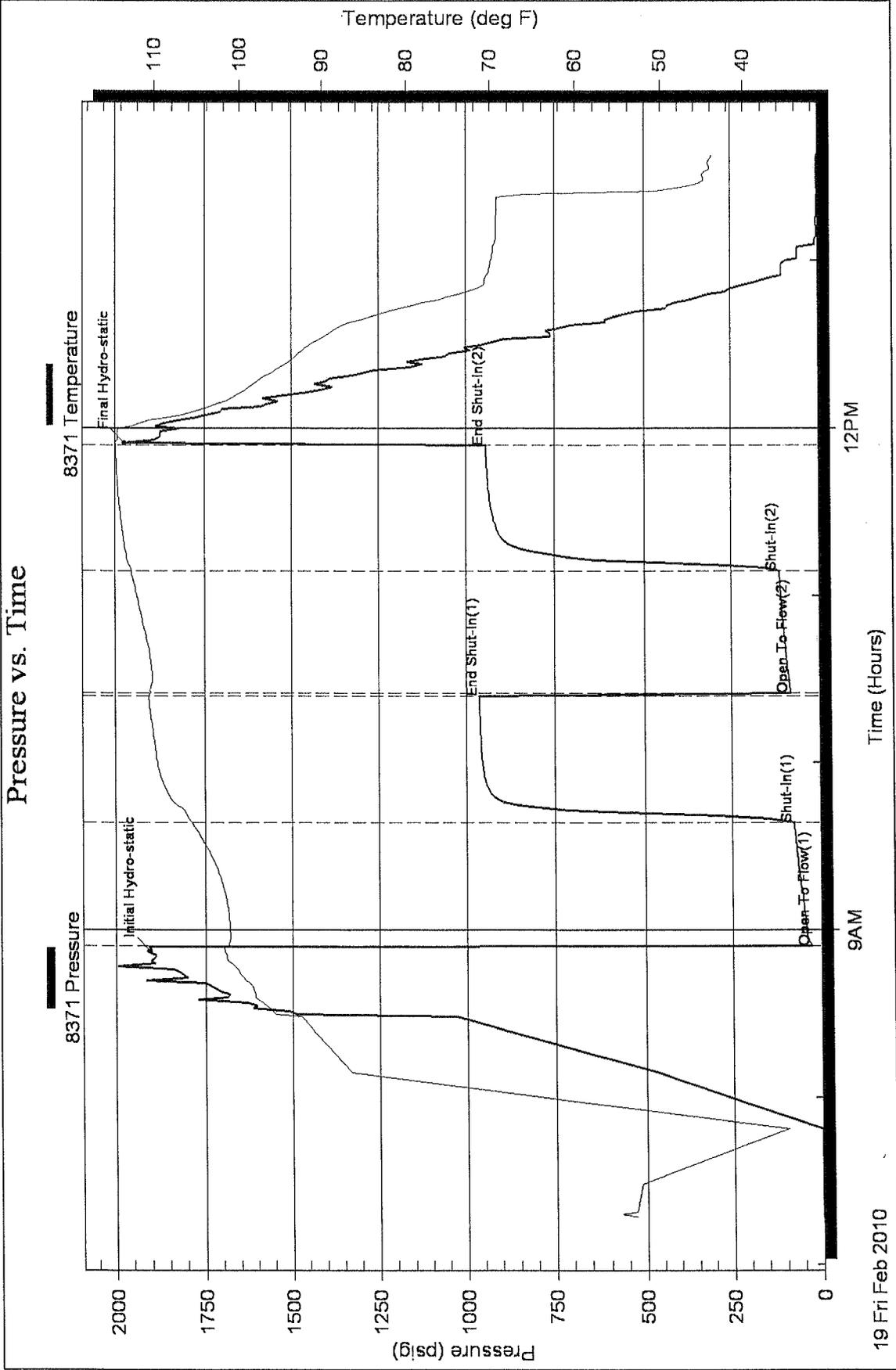
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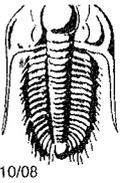
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 22 2010

Test Ticket

NO. 38105

Well Name & No. Betty 1-10 Test No. 1 Date 2-19-10
 Company DNOB Elevation 2474 KB 2466 GL
 Address PO Box 372 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Disco 1
 Location: Sec. 10 Twp. 9S Rge. 24W Co. Graham State KO

Interval Tested 3926-3975 Zone Tested LKC "H-I"
 Casing Length 49 Drill Pipe Run 3895 Mud Wt. 9.0
 Top Packer Depth 3921 Drill Collars Run 31 Vis 58
 Bottom Packer Depth 3926 Wt. Pipe Run — WL 8.0
 Total Depth 3975 Chlorides 1000 ppm System LCM

Flow Description FFP- BOB 24 min
ISI- sty. sur. blow back throughout
FFP- BOB 23 min
FST- 1" blow back throughout

| Depth | Feet of | %gas | %oil | %water | %mud |
|-------|-------------------------|------|------|--------|------|
| 220' | Feet of <u>GIP</u> | | | | |
| 30 | Feet of <u>Free Oil</u> | | 95 | | 5 |
| 55 | Feet of <u>GW HOCM</u> | 5 | 25 | 5 | 65 |
| 125 | Feet of <u>OSGOCWM</u> | 15 | 5 | 30 | 50 |

Sec Total 210 BHT 115 Gravity 40 API RW 387@36 °F Chlorides 37.000 ppm

Initial Hydrostatic 1903 Test 1050 T-On Location 0530
 First Initial Flow 26 Jars T-Started 0716
 First Final Flow 74 Safety Joint T-Open 0853
 Initial Shut-In 962 Circ Sub T-Pulled 1153
 Second Initial Flow 82 Hourly Standby T-Out 1337
 Second Final Flow 112 Mileage 121RT Comments
 Final Shut-In 942 Sampler
 Final Hydrostatic 1874 Straddle
 Shale Packer Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies

Initial Open 45
 Initial Shut-In 45
 Initial Flow 45
 Initial Shut-In 45
 Sub Total 1171
 Total 1171

Approved By _____ Our Representative Brian Fairbank (flg)

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