



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43116 15698

Well Name & No. Alma Herl 1-13 Test No. 1 Date 4-25-11
Company DNOC Elevation 2062 KB 2054 GL
Address P.O. Box 1019 Hays, KS 67601
Co. Rep / Geo. Marc Downing Rig Disco 4
Location: Sec. 13 Twp. 13s Rge. 19w Co. Ellis State KS

Interval Tested 3384-38283428 Zone Tested LKC 'C,D'
Anchor Length 44 Drill Pipe Run 3357 Mud Wt. 8.8
Top Packer Depth 3380 Drill Collars Run 31 Vis 57
Bottom Packer Depth 3384 Wt. Pipe Run 0 WL 7.6
Total Depth 3828 Chlorides 1,500 ppm System LCM 2
Blow Description IF: 9" Blow. Tool slid five feet.

ISI: Weak surface return died @ 6 min.

FF: 6" Blow.

FSI: 1/2" Return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>70</u>	Feet of <u>OS MW</u>	%gas	%oil	<u>80%</u> water	<u>20</u> %mud
Rec <u>120</u>	Feet of <u>WCM</u>	%gas	%oil	<u>10</u> %water	<u>90</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 115 Gravity — API RW .230 @ 48 ° F Chlorides 45,000 ppm
(A) Initial Hydrostatic 1643 ☒ Test 1125 T-On Location 22:30
(B) First Initial Flow 32 ☐ Jars T-Started 23:21
(C) First Final Flow 76 ☐ Safety Joint T-Open 1:00
(D) Initial Shut-In 865 ☒ Circ Sub N/C T-Pulled 04:04
(E) Second Initial Flow 78 ☐ Hourly Standby T-Out 5:55
(F) Second Final Flow 105 ☒ Mileage 15 RT 18.75 Comments
(G) Final Shut-In 804 ☐ Sampler
(H) Final Hydrostatic 1609 ☐ Straddle

Initial Open 45
Initial Shut-In 45
Final Flow 4/5
Final Shut-In 45

☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1443.75

☐ Ruined Shale Packer
☒ Ruined Packer 260
☐ Extra Copies
Sub Total 260
Total 1403.75
MP/DST Disc't

Approved By

Our Representative

Chuck Amah

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43117

Well Name & No. Alma Herl 1-13

Test No. 2 Date 4-25-11

Company DNOC

Elevation 2062 KB 2054 GL

Address POB 1019 Hays, KS 67601

Co. Rep / Geo. Marc Downing

Rig Discovery 4

Location: Sec. 13 Twp. 13s Rge. 19w Co. Ellis State KS

Interval Tested 3428-3455

Zone Tested LKC 'E,F'

Anchor Length 27

Drill Pipe Run 3410

Mud Wt. 9.1

Top Packer Depth 3424

Drill Collars Run 31

Vis 70

Bottom Packer Depth 3428

Wt. Pipe Run 0

WL 8.0

Total Depth 3455

Chlorides 4500 ppm System

LCM 1 1/2

Blow Description IF: B.O.B. @ 16 min

ISI: Weak surface return died @ 5 min.

FF: B.O.B. @ 31 min.

FSI: No return.

Rec 45 Feet of 0.5 MW %gas %oil 80 %water 20 %mud

Rec 300 Feet of MW %gas %oil 90 %water 10 %mud

Rec _____ Feet of _____ %gas %oil _____ %water _____ %mud

Rec _____ Feet of _____ %gas %oil _____ %water _____ %mud

Rec _____ Feet of _____ %gas %oil _____ %water _____ %mud

Rec Total 345 BHT 118 Gravity — API RW 225 @ 50 °F Chlorides 45000 ppm

(A) Initial Hydrostatic 1683

☒ Test 1125

T-On Location 12:00

(B) First Initial Flow 21

☐ Jars

T-Started 12:07

(C) First Final Flow 120

☐ Safety Joint

T-Open 13:24

(D) Initial Shut-In 637

☒ Circ Sub 50

T-Pulled 16:25

(E) Second Initial Flow 123

☐ Hourly Standby

T-Out 18:14

(F) Second Final Flow 182

☒ Mileage 15 RT 18.75

Comments _____

(G) Final Shut-In 608

☐ Sampler

(H) Final Hydrostatic 1637

☐ Straddle

☐ Ruined Shale Packer

Initial Open 45

☐ Shale Packer

☐ Ruined Packer

Initial Shut-In 45

☐ Extra Packer

☐ Extra Copies

Final Flow 45

☐ Extra Recorder

Sub Total 0

Final Shut-In 45

☐ Day Standby

Total 1193.75

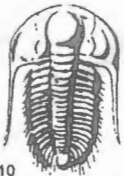
Sub Total 1193.75

MP/DST Disc't

Approved By _____

Our Representative Chuck Smith

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041815

Well Name & No. Alma H221 #1-13 Test No. 3 Date 4-26-11
 Company DNBC Elevation 2060 KB 2054 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. MARC DOWNING Rig DISCOVERY #4
 Location: Sec. 13 Twp. 13S Rge. 19W Co. Ellis State KS

Interval Tested 3481-3548 Zone Tested LKC "H, I, J"
 Anchor Length 67' Drill Pipe Run 3448 Mud Wt. 9.1
 Top Packer Depth 3476 Drill Collars Run 31 Vis 50
 Bottom Packer Depth 3481 Wt. Pipe Run 0 WL 80
 Total Depth 3548 Chlorides 4500 ppm System LCM # 1.50
 Blow Description IF: Blow died in 15 min.
IS: No Return
FF: NO Blow, Flushed, surge, NO Blow
FS: No Return

Rec	Feet of	%gas	%oil	%water	%mud
10	Mud w/ slight oil specks in too				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 103' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1730
 (B) First Initial Flow 14
 (C) First Final Flow 27
 (D) Initial Shut-In 729
 (E) Second Initial Flow 32
 (F) Second Final Flow 32
 (G) Final Shut-In 615
 (H) Final Hydrostatic 1682

☒ Test ← 1125
☐ Jars _____
☐ Safety Joint _____
☐ Circ Sub _____
☐ Hourly Standby _____
☒ Mileage 15 RT ← 18.75
☐ Sampler _____
☐ Straddle _____
☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
 Sub Total 1143.75

T-On Location 03:42
 T-Started 04:26
 T-Open 06:14
 T-Pulled 08:14
 T-Out 09:34
 Comments _____

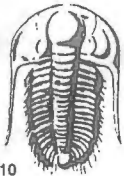
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Sub Total 0
 Total 1143.75
 MP/DST Disc't _____

Approved By _____

Our Representative _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041816

Well Name & No. Alma Well #1-13 Test No. 4 Date 4-26-11
 Company DNOC Elevation 2062 KB 2054 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. MARC DOWNING Rig DISCOVER #4
 Location: Sec. 13 Twp. 13S Rge. 19W Co. KT State KS

Interval Tested 3666-3684 Zone Tested Rebuckle
 Anchor Length 18 Drill Pipe Run 3627 Mud Wt. 9.1
 Top Packer Depth 3661 Drill Collars Run 31 Vis 50
 Bottom Packer Depth 3666 Wt. Pipe Run 0 WL 80
 Total Depth 3684 Chlorides 4500 ppm System LCM 15^{lb}

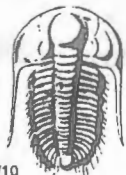
Blow Description DP: Blow died in 5 min.
FS: No Return
FF: No blow, Flushed, surge, NO blow
FS: No Return

Rec <u>2</u>	Feet of <u>Mud w/ oil specks in tool</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2' BHT 140 Gravity 1125 API RW 1125 @ 2043 °F Chlorides 4500 ppm
 (A) Initial Hydrostatic 1879 ☒ Test 1125 T-On Location 2043
 (B) First Initial Flow 12 ☐ Jars T-Started 21:10
 (C) First Final Flow 13 ☐ Safety Joint T-Open 22:56
 (D) Initial Shut-In 68 ☐ Circ Sub T-Pulled 00:56
 (E) Second Initial Flow 14 ☐ Hourly Standby T-Out 02:28
 (F) Second Final Flow 15 ☒ Mileage 15 RT < 18.75 Comments
 (G) Final Shut-In 37 ☐ Sampler
 (H) Final Hydrostatic 1800 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1143.75
☐ Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041817

Well Name & No. Alma Well #1-13 Test No. 5 Date 4-27-11
 Company DNOC Elevation 2062 KB 2054 GL
 Address PO Box 1019 Hays, Ks. 67601
 Co. Rep / Geo. MARC DOWNING Rig Discovery #4
 Location: Sec. 13 Twp. 13S Rge. 19W Co. Ellis State Ks.

Interval Tested 3674-3720 Zone Tested Arbuckl
 Anchor Length 46' Drill Pipe Run 3628 Mud Wt. 9.1
 Top Packer Depth 3674 Drill Collars Run 31 Vis 50
 Bottom Packer Depth 3720 Wt. Pipe Run 0 WL 8.0
 Total Depth 3754 Chlorides 4500 ppm System LCM 1.5#

Blow Description SP: Blow died in 6 min.
IS: No Return
SP: No blow, Flushed, surge, No blow.
FS: — pulled Tool

Rec <u>20</u>	Feet of <u>SBM w/ oil specks in Tool</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 112 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1948 ☒ Test ← 1125' T-On Location 1502
 (B) First Initial Flow 25 ☐ Jars 1538 T-Started 1538
 (C) First Final Flow 36 ☐ Safety Joint 1740 T-Open 1740
 (D) Initial Shut-In 938 ☐ Circ Sub 1850 T-Pulled 1850
 (E) Second Initial Flow — ☐ Hourly Standby 2019 T-Out 2019
 (F) Second Final Flow — ☒ Mileage ← 15RT 18.5 Comments
 (G) Final Shut-In — ☐ Sampler —
 (H) Final Hydrostatic 1886 ☒ Straddle ← 1600

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Initial Open 30 ☐ Shale Packer
 Initial Shut-In 30 ☐ Extra Packer
 Final Flow 10 ☐ Extra Recorder
 Final Shut-In — ☐ Day Standby
☐ Accessibility
 Sub Total 1743.75 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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