

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61157

Well Name & No. Hagen #1 Test No. 1 Date 2/21/15
 Company Staab Oil Co. Elevation 2221 KB 2215 GL
 Address 1607 Hopewell Rd. Hays, KS 67601
 Co. Rep / Geo. Janel Staab Rig Shields
 Location: Sec. 18 Twp. 12 S Rge. 19 W Co. Ellis State KS

Interval Tested 3564-3609 Zone Tested LKC "C+D"
 Anchor Length 45' Drill Pipe Run 3085 Mud Wt. 9.1
 Top Packer Depth 3559 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3564 Wt. Pipe Run 465 WL 6.4
 Total Depth 3609 Chlorides 2,900 ppm System LCM 2#
 Blow Description IF - slowly 1/2 in to 1"

ISI - No Flow
FF - No Flow
FSI - No Flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
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 102° Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic 1783 Test 1050 T-On Location 1803
 (B) First Initial Flow 29 Jars _____ T-Started 1843
 (C) First Final Flow 29 Safety Joint _____ T-Open 2916
 (D) Initial Shut-In 1024 Circ Sub _____ T-Pulled 2321
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 0056 2/22
 (F) Second Final Flow 33 Mileage 40 RT 40 Comments _____
 (G) Final Shut-In 924 Sampler _____
 (H) Final Hydrostatic 1756 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 5 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1090
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1090

Approved By _____ Our Representative Brannon Lonsdale

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61158

Well Name & No. Hagen #1 Test No. 2 Date 2/23/15
 Company Staab Oil Co. Elevation 2221 KB 2216 GL
 Address 1607 Hopewell Rd Hays, KS 67601
 Co. Rep / Geo. Janet Staab Rig Shields
 Location: Sec. 18 Twp. 12 S Rge. 19 W Co. Ellis State KS

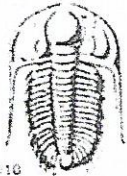
Interval Tested 3852-3874 Zone Tested Arbuckle
 Anchor Length 22' Drill Pipe Run 3399 Mud Wt. 9.2
 Top Packer Depth 3877-3852 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3874 Wt. Pipe Run 465 WL 6.4
 Total Depth 3928 Chlorides 3000 ppm System LCM 6"
 Blow Description IF - Built to 1"
ISI - No Flow
FP - Slowly built to 1 1/2"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>WNM</u>			<u>10</u>	<u>90</u>
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 90' BHT 116° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2039 Test 1050 T-On Location 1810
 (B) First Initial Flow 25 Jars _____ T-Started 1941
 (C) First Final Flow 30 Safety Joint _____ T-Open 2153
 (D) Initial Shut-In 1217 Circ Sub _____ T-Pulled 0128 2/24
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 0330
 (F) Second Final Flow 68 Mileage 40 RT 40 Comments _____
 (G) Final Shut-In 1195 Sampler _____
 (H) Final Hydrostatic 1991 Straddle 600 Ruined Shale Packer _____
 Shale Packer x2 500 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 575
 Day Standby 1d 17.25h Total 2765
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2190

Approved By _____ Our Representative Brannan Lonsdale
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61159

Well Name & No. Hagen #1 Test No. 3 Date 2/24/15
 Company Starb Oil Co Elevation 2221 KB 2216 GL
 Address 1607 Howdell Rd Hays, KS 67601
 Co. Rep / Geo. Janel Starb Rig Shields
 Location: Sec. 18 Twp. 12 S Rge. 19 W Co. Ellis State KS

Interval Tested 3716 - 3750 Zone Tested KC "K"
 Anchor Length 34' Drill Pipe Run 3243 Mud Wt. 9.2
 Top Packer Depth 3711 - 3716 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3750 Wt. Pipe Run 465 WL 64
 Total Depth 3928 Chlorides 3000 ppm System LCM 6#
 Blow Description IF - Blow to 1"
ISF - No blow
FF - No blow
FISF - No blow

Rec	Feet of	%gas	%oil	%water	%muc
<u>5</u>	<u>M w/ few oil spots</u>				
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc
Rec	Feet of	%gas	%oil	%water	%muc

Rec Total 5' BHT 112° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1981 Test 1050 T-On Location 0330
 (B) First Initial Flow 31 Jars _____ T-Started 0444
 (C) First Final Flow 33 Safety Joint _____ T-Open 0639
 (D) Initial Shut-In 1297 Circ Sub _____ T-Pulled 0844
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 1128
 (F) Second Final Flow 33 Mileage 40 RT 40 Comments _____
 (G) Final Shut-In 995 Sampler _____ Trip back to Hays to
 (H) Final Hydrostatic 1778 Straddle 600 get more perf.
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2190 MP/DST Disc't _____
 Initial Open 5
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative Braman Lansdale

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