TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

JAN 31 2011

4/10

Test Ticket

NO. 041373 5342

Well Name & No. Pat #1 Test No. 1 Date 1-28-11

Company Production Drilling Inc Elevation 2196 KB 2188 GL

Address 1093 Reservation Rd Box 680 Hays Ks 67601

Co. Rep / Geo. Cliff Ottaway Rig Discovery #1

Location: Sec. 21 Twp. 13 Rge. 20 Co. Ellis State Ks

Interval Tested 3656 — 3683 Zone Tested K LKC

Anchor Length 27 Drill Pipe Run 3614 Mud Wt. 9.2

Top Packer Depth 3651 Drill Collars Run 30 Vis 51

Bottom Packer Depth 3656 Wt. Pipe Run — WL 8

Total Depth 3683 Chlorides 4,000 ppm System LCM 2#

Blow Description I.F. Strong B-B in 12 min.
ISI-Weak-died in 25 min.
F.F-Strong B-B in 23 min.
FSI-Weak-died in 15 min.

Rec 5	Feet of Co	%gas	%oil	%water	%mud
Rec 20	Feet of MCo	%gas	60 %oil	%water	40 %mud
Rec 100	Feet of WTC	%gas	%oil	%water	%mud
Rec 245	Feet of GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125 BHT 117 Gravity 34 API RW .09 @ 80 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic	1828	☐ Test 1125-	T-On Location 18:30
(B) First Initial Flow	20	☐ Jars	T-Started 19:15
(C) First Final Flow	43	☐ Safety Joint	T-Open 21:12
(D) Initial Shut-In	375	☐ Circ Sub	T-Pulled 23:42
(E) Second Initial Flow	50	☐ Hourly Standby	T-Out 01:26
(F) Second Final Flow	68	☐ Mileage 2RT 40-	Comments
(G) Final Shut-In	369	☐ Sampler	
(H) Final Hydrostatic	1750	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	45	☐ Extra Recorder	Sub Total 0
Final Flow	30	☐ Day Standby	Total 1165-
Final Shut-In	45	☐ Accessibility	MP/DST Disc't
		Sub Total 1165-	

Approved By Our Representative Don Bangle

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.

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RECEIVED
JAN 31 2011

Test Ticket

NO. 041374

Well Name & No. Pat #1 Test No. 2 Date 1-30-11

Company Production Drilling Inc Elevation 2196 KB 2188 GL

Address

Co. Rep / Geo. Cliff Ottaway Rig Discovery #1

Location: Sec. 21 Twp. 13 Rge. 20 Co. Ellis State Ks

Interval Tested 3808 — 3840 Zone Tested Simpson Sd

Anchor Length 32 Drill Pipe Run 3771 Mud Wt. 9.2

Top Packer Depth 3808 Drill Collars Run 30 Vis 54

Bottom Packer Depth 3840 Wt. Pipe Run — WL 8

Total Depth 3890 Chlorides 4,000 ppm System LCM 1#

Blow Description F.F. Strong B-B in 13 min.

F.F. Strong B-B in 25 min.

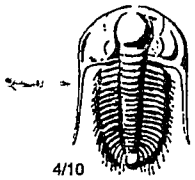
Rec 20	Feet of CGsy O	%gas	%oil	%water	%mud
Rec 185	Feet of OCM	%gas	10 %oil	%water	90 %mud
Rec 230	Feet of Mdy WTR	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 435 BHT 123 Gravity 34 API RW .11 @ 72 °F Chlorides 68,000 ppm

(A) Initial Hydrostatic	1850	☐ Test	1125	T-On Location	22:37
(B) First Initial Flow	22	☐ Jars		T-Started	00:14
(C) First Final Flow	119	☐ Safety Joint		T-Open	01:55
(D) Initial Shut-In	1137	☐ Circ Sub		T-Pulled	04:25
(E) Second Initial Flow	126	☐ Hourly Standby		T-Out	06:48
(F) Second Final Flow	214	☐ Mileage	32 RT 40	Comments	
(G) Final Shut-In	1135	☐ Sampler			
(H) Final Hydrostatic	1803	☐ Straddle	X 600		
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	45	☐ Extra Recorder		☐ Extra Copies	
Final Flow	30	☐ Day Standby		Sub Total	Ø
Final Shut-In	45	☐ Accessibility		Total	1765
		Sub Total	1765	MP/DST Disc't	

Approved By Our Representative Dan Bangle

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RECEIVED JAN 31 2011

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Test Ticket

NO. 041375

Well Name & No. Pat #1 Test No. 3 Date 1-30-11

Company Production Drilling Inc. Elevation 2196 KB 2188 GL

Address

Co. Rep / Geo. Cliff Ottaway Rig Discovery #1

Location: Sec. 21 Twp. 13 Rge. 20 Co. Ellis State Ks

Interval Tested 3688 — 3702 Zone Tested L LKC

Anchor Length 14 Drill Pipe Run 3802 Mud Wt. 9.2

Top Packer Depth 3688 Drill Collars Run 30 Vis 54

Bottom Packer Depth 3702 Wt. Pipe Run — WL 8

Total Depth 3890 Chlorides 4,000 ppm System LCM 1#

Blow Description I.F. Strong B-B in 15 sec

ISI- Strong B-B in 50 sec

Rec 870	Feet of CGsy O	30 %gas	70 %oil	%water	%mud	
Rec 60	Feet of OC mdy WTR	%gas	20 %oil	50 %water	30 %mud	
Rec 124	Feet of SMY OC mdy W	%gas	4 %oil	86 %water	10 %mud	
Rec 2480	Feet of GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 1054 BHT 120 Gravity 36 API RW .08 @ 80 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic 1868	☐ Test 1125	T-On Location —	
(B) First Initial Flow 297	☐ Jars	T-Started 07:47	
(C) First Final Flow 427	☐ Safety Joint	T-Open 09:32	
(D) Initial Shut-In 533	☐ Circ Sub	T-Pulled 10:17	
(E) Second Initial Flow —	☐ Hourly Standby	T-Out 13:15	
(F) Second Final Flow —	☐ Mileage 32 RT 40	Comments	
(G) Final Shut-In —	☐ Sampler		
(H) Final Hydrostatic 1746	☐ Straddle X 600	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 15	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 15	☐ Extra Recorder	Sub Total 0	
Final Flow —	☐ Day Standby	Total 1705	
Final Shut-In —	☐ Accessibility	MP/DST Disc't	
	Sub Total 1705		

Approved By Our Representative Dan Beagle

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