

GEOLOGICAL REPORT

**Habit Petroleum, LLC
K. Leiker #2
660' FSL & 1585' FWL
SEC. 23 TWP 15S RGE 17W
Ellis County, Kansas**

**COMMENCED: 5/5/16
COMPLETED: 5/11/16
CONTRACTOR: Shields Drilling Co.
SURFACE PIPE: 8 5/8" at 1089'
PRODUCTION PIPE: None D & A**

May 21, 2016

Formation Data

Elevation: (1960 K.B.) – (1955 G.L.)
All top formations measured from 1960 K.B.

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1083	+877
Topeka	2988	-1028
Heebner	3216	-1256
Toronto	3230	-1270
Lansing-K.C.	3260	-1300
Base-K.C.	3496	-1536
Conglomerate	3530	-1570
Arbuckle	3557	-1597
R.T.D.	3573	-1613

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1083	+877
Topeka	2984	-1024
Heebner	3213	-1253
Toronto	3231	-1271
Lansing-K.C.	3260	-1300
Base-K.C.	3496	-1536
Conglomerate	3530	-1570
Arbuckle	3558	-1598
R.T.D.	3571	-1611

All samples were examined and described by me on actual location and did not start until a depth of 2950' was reached. All zones and sample tops examined are all true and accurate according to drillers depth.

One foot drilling time was logged from a depth of 2950' to 3573', and all zones were examined by ten foot samples at a rotary depth of 2950' to 3250'. Five foot samples were examined from a rotary depth of 3255' to 3573'.

Sample Description

Following are the pertinent geological formation and all zones of subject well K. Leiker #2

THE FOLLOWING ZONES WERE NOTED:

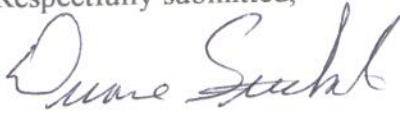
TOPEKA	2988-2996	Limestone – buff, fine crystalline, no show of oil.
	3000-3006	Limestone – cream, fine crystalline to chalky, poor inter porosity, very slight show of oil stain, no odor.
DEER CREEK	3025-3058	Limestone – cream, fine crystalline to chalky, no show of oil.
LECOMPTON	3070-3120	Limestone – same as above.
OREAD LIME	3135-3154	Limestone – cream, fine crystalline to dense lime, no inter porosity, no show of oil.
	3170-3216	Limestone – same as above, with chalk.
TORONTO	3230-3240	Limestone – buff to tan, very dense lime, no visible porosity, no show of oil.
LANSING – K.C.		
(A-Zone)	3260-3265	Limestone – white to cream, fine crystalline to chalky, poor inter porosity, no show of oil.
(C-Zone)	3288-3296	Limestone – same as above.
(D-Zone)	3306-3310	Limestone – white to cream, fine crystalline, to dense lime, no inter porosity, no show of oil.

(F-Zone)	3334-3346	Limestone – white, fine crystalline, fair inter porosity with a good show of oil stain with free oil and good odor, friable.
(G-Zone)	3360-3370	Limestone – white to cream, fine crystalline to oolitic and oolitic in part, barren, no odor.
(H-Zone)	3398-3406	Limestone – white to cream, fine crystalline to chalky in part, poorly developed, no inter porosity, no show of oil.
(I-Zone)	3422-3427	Limestone – cream to tan, very small show of oil stain to free oil in pin point, fine crystalline porosity, poor inter porosity, no odor.
(J-Zone)	3439-3444	Limestone – tan, very fine crystalline to dense lime, no inter porosity, no show of oil.
(K-Zone)	3460-3468	Limestone – same as above.
(L-Zone)	3484-3490	Limestone – cream, dense lime, no porosity, no show of oil.
ARBUCKLE	3555-3560	Dolomite – white, medium crystalline, poor inter porosity, tight, show of black residual stain, no free oil, no odor.
	3561-3573	Dolomite – white, medium crystalline, poor inter porosity, very small show of residual stain.

Remarks and Conclusion

During the drilling of the K. Leiker #2, the subject well ran low in the Lansing K.C. and Arbuckle formations, and due to the poor drill stem test results in the Lansing K.C., operator of Habit Petroleum, LLC decided to plug and abandon well as a dry hole.

Respectfully submitted,

A handwritten signature in black ink that reads "Duane Stecklein". The signature is written in a cursive style with a large, looped initial "D".

Duane Stecklein, Geologist



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64774

Well Name & No. K. Leiker # 2 Test No. 1 Date 5-11-16
 Company Habit Petroleum LLC Elevation 1964 KB 1959 GL
 Address 639 280th Ave Box 243 Hays KS 67601-9530
 Co. Rep / Geo. Duane Stecklein Rig Shields
 Location: Sec. 23 Twp. 15^s Rge. 17^w Co. Ellis State KS

Interval Tested 3340 - 3400 Zone Tested LKC "F"
 Anchor Length 60 Drill Pipe Run 2859 Mud Wt. 9.2
 Top Packer Depth 3340 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3400 Wt. Pipe Run 466 WL 7.2
 Total Depth 3570 LogTD Chlorides 7400 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 3 1/2 in.
ISIP - No Blow
FFP - Surface Blow in 3 min. Building to 1 1/2 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>Show of Oil in Tool</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 103 Gravity _____ API RW 376 @ 67 ° F Chlorides 19000 ppm

(A) Initial Hydrostatic	<u>1750</u>	<input checked="" type="checkbox"/> Test	T-On Location	<u>05:47</u>
(B) First Initial Flow	<u>39</u>	<input type="checkbox"/> Jars	T-Started	<u>06:52</u>
(C) First Final Flow	<u>59</u>	<input type="checkbox"/> Safety Joint	T-Open	<u>08:52</u>
(D) Initial Shut-In	<u>878</u>	<input type="checkbox"/> Circ Sub	T-Pulled	<u>10:52</u>
(E) Second Initial Flow	<u>62</u>	<input type="checkbox"/> Hourly Standby	T-Out	<u>12:26</u>
(F) Second Final Flow	<u>78</u>	<input checked="" type="checkbox"/> Mileage <u>21 RT</u>	Comments	
(G) Final Shut-In	<u>852</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic	<u>1702</u>	<input checked="" type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer	
		<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies	
		<input type="checkbox"/> Extra Recorder	Sub Total	
		<input type="checkbox"/> Day Standby	Total	
		<input type="checkbox"/> Accessibility	MP/DST Disc	

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

Sub Total _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC
 639 280th Ave. Box 243
 Hays KS 67601-9530
 ATTN: Duane Stecklein

23 15s 17w Ellis
K Leiker 2
 Job Ticket: 64774 **DST#: 1**
 Test Start: 2016.05.11 @ 06:52:00

GENERAL INFORMATION:

Formation: **LKC " F "**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 08:51:30
 Time Test Ended: 12:26:00

Test Type: **Conventional Straddle (Initial)**
 Tester: **Jim Svaty**
 Unit No: **76**

Interval: **3340.00 ft (KB) To 3400.00 ft (KB) (TVD)**
 Total Depth: **3571.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1964.00 ft (KB)**
1958.00 ft (CF)
 KB to GR/CF: **5.00 ft**

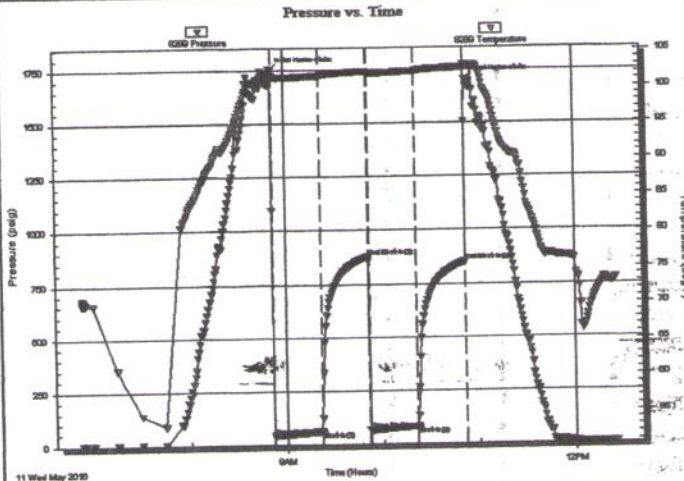
Serial #: 8289

Outside

Press@RunDepth: **78.63 psig @ 3381.00 ft (KB)**
 Start Date: **2016.05.11** End Date: **2016.05.11**
 Start Time: **06:52:00** End Time: **12:26:00**

Capacity: **8000.00 psig**
 Last Calib.: **2016.05.11**
 Time On Btm: **2016.05.11 @ 08:51:00**
 Time Off Btm: **2016.05.11 @ 10:52:45**

TEST COMMENT: 30-IFP- Surface Blow Building to 3 1/2in.
 30-ISF- No Blow
 30-FFP- Surface Blow in 3min. Building to 1 1/2in.
 30-FSIF- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.68	101.87	Initial Hydro-static
1	39.97	101.35	Open To Flow (1)
31	59.66	101.52	Shut-In(1)
60	878.17	102.09	End Shut-In(1)
61	62.94	101.79	Open To Flow (2)
91	78.63	102.10	Shut-In(2)
121	852.22	102.60	End Shut-In(2)
122	1702.92	102.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MCW 30% m 70% w	0.66
0.00	Show of Oil in Tool	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DST Test Number: 1

K Leiker 2

Below (Strat Petroleum) LLC

Serial #: 6668

Pressure vs. Time



11 Wed May 2016

Trilobite Testing, Inc

Ref. No: 64774

Printed: 2016.05.11 @ 12:33:57

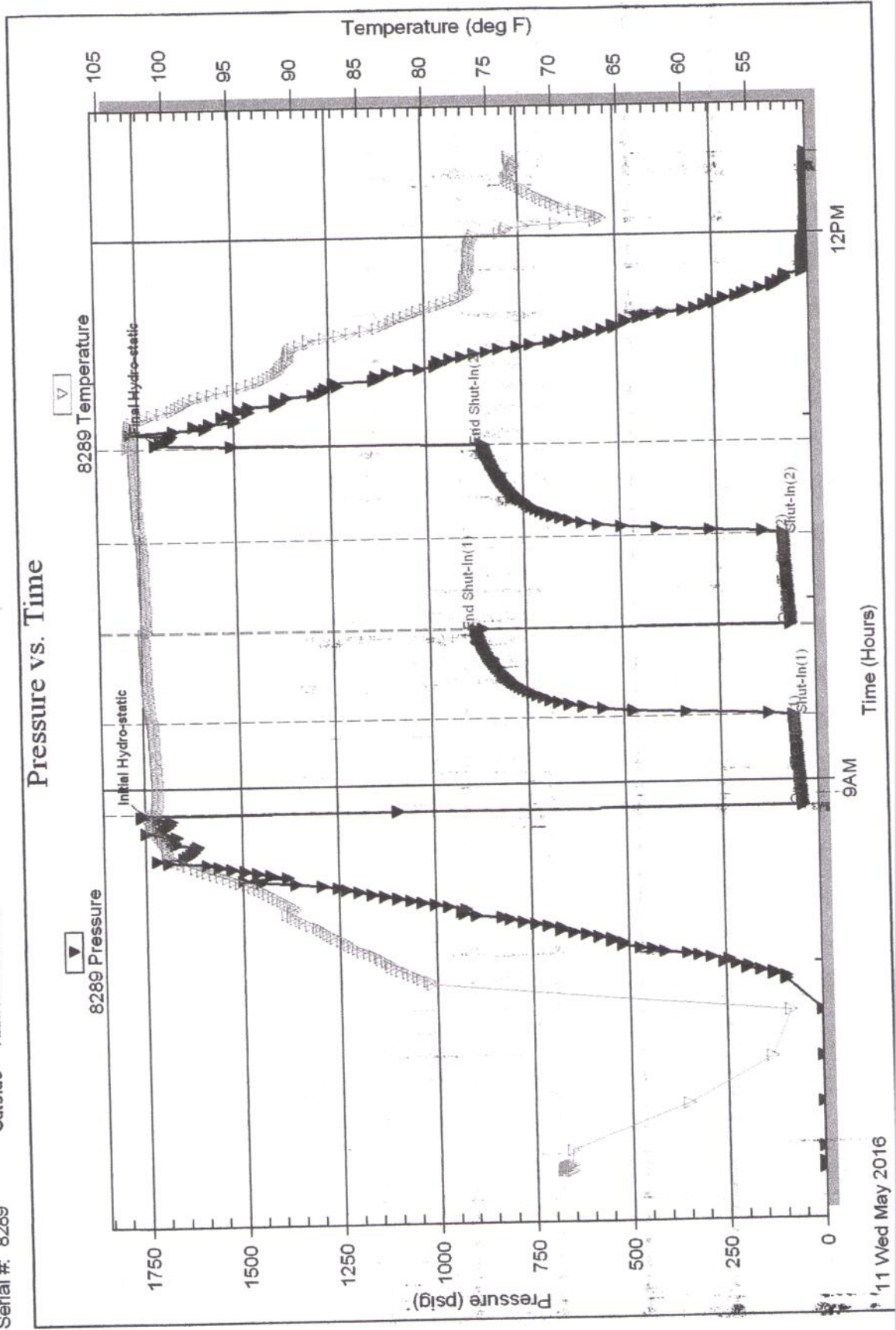
DST Test Number: 1

K Lelker 2

Outside Habit Petroleum LLC

Serial #: 8289

Pressure vs. Time



11 Wed May 2016

Printed: 2016.05.11 @ 12:31:52

Ref. No: 64774

Trilobite Testing, Inc